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FPSC - COMMISSION CLERK

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February 4, 2026

VIA ELECTRONIC FILING

Zachary Bloom
Office of General Counsel
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399

RE: Docket No. 20250146-WS - Joint application for transfer of water and wastewater facilities, water Certificate No. 354-W and wastewater Certificate No. 310-S of Useppa Island Utilities Company, Inc. to UIP Utilities Company LLC, in Lee County

Response to January 20, 2026 Deficiency Letter

Dear Mr. Bloom:

In response to the Commission's January 20, 2026 deficiency letter, UIP Utilities Company LLC and Useppa Island Utilities Company, Inc. provide the following responses:

1. **Notice of Application**. Rule 25-30.030(4), Florida Administrative Code (F.A.C.), states that all notices are required to meet the requirements detailed, including those detailed in subsections (d) and (f), which require the notice to contain the docket number and docket title, and a disclosure that the legal description has been simplified and that a complete legal description can be obtained from the applicant, respectively. The provided notice does not include the docket number or the legal description disclosure and therefore does not meet the requirements of 25-30.030(4), F.A.C. Please provide a revised notice of application that meets these requirements.

RESPONSE: Please see attached revised notice.

2. **Proof of Noticing**. Rule 25-30.037(2)(b), F.A.C., requires proof of noticing pursuant to Rule 25-30.030(6), F.A.C., which states that all applications requiring noticing shall be deemed deficient until affidavits of noticing required by Sections 367.045(1)(e) and (2)(f), Florida Statutes, along with a copy of the notice, are filed with the Office of Commission Clerk. Staff notes that this deficiency cannot be corrected until the notice has been approved by Staff in accordance with Rule 25-30.030(4), F.A.C. Upon the issuance of the notice, please provide proof of noticing pursuant to Rule 25-30.030, F.A.C.

RESPONSE: UIP Utilities Company LLC and Useppa Island Utilities Company, Inc. will provide proof of noticing pursuant to Rule 25-30.030, F.A.C., upon issuance of the notice.

3. **Seller Information.** Rule 25-30.037(2)(c), F.A.C., states that the application shall provide the specified contact and identification information about the seller, including the certificated name of the seller. The provided Seller Utility name does not match the certificated name. If the Seller name is the correct name, please explain the discrepancy between the certificated name and Seller name.

RESPONSE: The Seller Utility name provided, Useppa Island Utilities Company, Inc. is the correct name, and the certificated name, Useppa Island Utility, Inc., is a result of an inadvertent error. Useppa Island Utilities Company, Inc. has been the Seller Utility's name since incorporation in 1981. Any misstatement or variation of that official name occurred as an inadvertent error by one of the various officers or executives involved in Useppa Island Utilities Company, Inc. or its parent company, Useppa Inn and Dock Company, Inc. Such inadvertence occurred in other matters, as evidenced by the attached 2001 Warranty Deed conveying property from the penultimate holding company, Useppa Inn and Dock Company, Ltd., to *Useppa Utility Company, Inc.* The attached 2025 Corrective Warranty Deed was required to remedy the error. Seller Utility, Useppa Island Utilities Company, Inc. represents that all errors in nomenclature were unintentional and were not made with intent to defraud or obscure the true party to any matters.

4. **Federal Income Tax Return.** Rule 25-30.037(2)(p), F.A.C., states that the applicant shall provide a statement from buyer that it has obtained or will obtain copies of all of the federal income tax returns of the seller from the date the utility was first established or the date rate base was last established by the Commission, whichever is later. If the tax returns have not been obtained, please provide a description of the steps taken to obtain the tax returns. Please provide a description of the steps the Buyer has taken to obtain the tax returns.

RESPONSE: Since the filing of the joint application on December 18, 2025, Buyer, UIP Utilities Company LLC, has obtained all of Useppa Island Utilities Company, Inc.'s federal tax returns for all tax years since the Commission last established Useppa Island Utilities Company, Inc.'s rate base in 2012.

5. **DEP Correspondence.** Rule 25-30.037(2)(r)(3), F.A.C. States that the applicant shall provide copies of documentation from the Florida Department of Environmental Protection (DEP) of all the utility's correspondence with the DEP, county health department, and water management district, including consent orders and warning letters, and the utility's responses to the same, for the past five years. While links to DEP facility public document searches were provided, this does not satisfy the requirements of the Rule. Please provide copies of the correspondence from the DEP.

RESPONSE: Copies of all communications between Useppa Island Utilities Company LLC and the DEP for the past five years are attached.

6. **Tariffs.** Rule 25-30.037(2)(u), F.A.C., states that the tariff sheets should reflect any changes resulting from the transfer. In the filed application, the Buyer provided the existing tariff, which does not indicate a change in ownership. Please provide tariff sheets indicating the change in name and issuing officer.

RESPONSE: Please see attached revised tariff sheets.

The parties appreciate the opportunity to provide additional information in support of the information. Please don't hesitate to contact our office at your convenience with any additional questions or concerns.

Very truly yours,

/s/ Tristan T. Cavanaugh, Esq.
Tristan Cavanaugh
TTC:ttc

Enclosures:
Attachment 1 – Notice
Attachment 2 – 2001 Warranty Deed
Attachment 3 – 2025 Corrective Warranty Deed
Attachment 4-1 – Florida DEP Correspondence (Permit No. FLA014494)
Attachment 4-2 – Florida DEP Correspondence (Permit No. 98998)
Attachment 4-3 – Florida DEP Correspondence (Permit No. 5360299)
Attachment 4-4 – Florida DEP Correspondence (Permit No. FLA146109)
Attachment 5 – UIP Utilities Company LLC Tariff Sheets

CC:

Florida Public Service Commission Office of the General Counsel Jennifer Auspurger Jacob Imig 2450 Shumard Oak Boulevard Tallahassee, Florida 32399 jaugspurg@psc.state.fl.us jimig@psc.state.fl.us owooten@psc.state.fl.us ZBloom@psc.state.fl.us	Floyd Self, Esq. **Berger Singerman, LLP** 313 North Monroe Street Suite 301 Tallahassee, Florida 32301 fself@bergersingerman.com *Counsel for Useppa Island Utilities Company, Inc.*
Jack O. Hackett, II **Farr Law Firm** 99 Nesbit Street Punta Gorda, Florida 33950 jhackett@farr.com *Counsel for Useppa Island Utilities Company, Inc.*	

ATTACHMENT 1
NOTICE

NOTICE OF APPLICATION FOR AUTHORITY TO TRANSFER WATER AND WASTEWATER CERTIFICATES OF AUTHORIZATION AND FACILITIES TO ANOTHER REGULATED UTILITY

DOCKET NO. 20250146-WS

Joint application for transfer of water and wastewater facilities, water Certificate No. 354-W and wastewater certificate No. 310-S of Useppa Island Utilities Company, Inc. to UIP Utilities Company LLC in Lee County.

DATE OF CUSTOMER NOTICE: ____/____/____

Notice is hereby given that UIP Utilities Company LLC has filed an Application for Authorization to transfer the Certificates of Authorization and facilities composing the water and wastewater systems of Useppa Island Utilities Company, Inc. in Lee County, Florida, pursuant to Section 360.071, Florida Statutes, and Florida Administrative Code Rule 25-30.037.

UIP Utilities Company LLC is not requesting a change to rates, classifications, charges, or rules and regulations in connection with this proceeding. Therefore, your current rates will not be affected by this transfer. Useppa Island Utilities Company, Inc. currently provides water and wastewater services to the following described service territory in Lee County, Florida, commonly known as Useppa Island:

Township 44 South, Range 21 East, Section 9

The foregoing description is a simplified legal description of the service territory. A complete legal description can be obtained upon request to UIP Utilities Company LLC.

For more information concerning this notice, please contact UIP Utilities Company LLC at the following address:

UIP Utilities Company LLC
9132 Strada Place, Third Floor
Naples, Florida 34108
Telephone: (239) 283-1061
Fax: (239) 791-5541
Email: service@useppa.com

Any objection to the application must be filed with the Office of Commission Clerk, Florida Public Service Commission, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850 no later than thirty (30) days after the last date that the notice was mailed or published, whichever is later.

ATTACHMENT 2
2001 WARRANTY DEED

15.00 Fe
1.20 D.S.
16.20

Prepared By:
Thomas R. Mooney, Attorney
1430 Royal Palm Sq. Blvd., #105
Fort Myers, Fl. 33919

Prepared Without Title Examination.

Parcel ID Number: 09-44-21-00-00001.0000

INSTR # 5072488
OR BK 03369 PG 1358
RECORDED 02/27/01 08:55 AM
CHARLIE GREEN CLERK OF COURT
LEE COUNTY
RECORDING FEE 15.00
DOC TAX PD(F.S.201.02) 0.70
DEPUTY CLERK J Miller

WARRANTY DEED

This Indenture, made this 22nd day of February, 2001, **Between**

Useppa Inn and Dock Company, Ltd., a Florida Limited Partnership,

whose address is: P.O. Box 640, Bokeelia, Florida 33922
of the County of Lee , State of Florida, **Grantor,** and

Useppa Utility Company, Inc, a Florida corporation,

whose addresse is: P.O. Box 640, Bokeelia, Florida 33922

of the County of Lee , State of Florida , **Grantee.**

WITNESSETH that the Grantors, for and in consideration of the sum of---------- ---------- Ten and no/100 ($10.00)----------Dollars and other good and valuable consideration to Grantors in hand paid by Grantee, the receipt whereof is hereby acknowledged, have granted, bargained and sold to the said Grantee and Grantee's heirs and assigns forever, the following described land, situate, lying and being in the County of Lee, State of Florida, to wit:

SEE ATTACHED EXHIBITS "A" AND "B"

and the Grantor does hereby fully warrant the title to said land, and will defend the same against lawful claims of all persons whomsoever.

In Witness Whereof, the Grantors have hereunto set their hands and seals the day and year first above written.

Signed, sealed and delivered in our presence:

Witness Signature
TERRY WEST
Witness Printed Name
Witness Signature
Vincent Formosa
Witness Printed Name

USEPPA INN AND DOCK CO., LTD.
BY:
Garfield R. Beckstead, General Partner

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 22nd day of February, 2001, by Garfield R. Beckstead, as General Partner of Useppa Inn and Dock Company, Ltd., a Florida Limited Partnership, on behalf of said Partnership, who is personally known to me or who has provided _____ as identification.

Lou Ann Christensen
Notary Public
My Commission Expires:

LOU ANN CHRISTENSEN
My Comm Exp. 5/8/2003
No CC 816990
Personally Known ( ) Other I.D.

EXHIBIT "A"

DESCRIPTION

UTILITY PARCELS
IN
GOVERNMENT LOT 1, SECTION 9, TOWNSHIP 44 SOUTH, RANGE 21 EAST
USEPPA ISLAND, LEE COUNTY, FLORIDA

A tract or parcel of land lying in Government Lot 1, Section 9, Township 44 South, Range 21 East, Useppa Island, Lee County, Florida, which tract or parcel is described as follows:

Parcel 1

From the concrete post marking the point on the north line of said Section 9 approximately 26 feet east from the west shore of Useppa Island, run East along said Section line for 474.39 feet to a concrete post 25 feet more or less westerly from the east shore of said Island; thence continue East along said Section line for 21.47 feet; thence run S 02° 32' 38" W for 885.04 feet; thence run S 85° 44' 00" W for 69.30 feet; thence run S 14° 58' 00" W for 45.00 feet; thence run S 26° 56' 00" W for 60.00 feet; thence run S 38° 06' 00" W for 65.00 feet; thence run S 50° 14' 00" W for 60.00 feet; thence run S 52° 20' 00" W for 73.00 feet; thence run S 56° 39' 00" W for 70.00 feet; thence run S 62° 23' 00" W for 78.00 feet; thence run N 84° 36' 16" W for 140.81 feet; thence run N 20° 44' 00" E for 70.11 feet; thence run N 01° 33' 00" W for 40.00 feet; thence run S 44° 49' 28" E for 18.00 feet; thence run N 61° 42' 25" E for 67.75 feet; thence run N 21° 33' 20" W for 75.00 feet; thence run N 41° 10' 20" W for 17.00 feet; thence run N 52° 32' 41" E for 113.32 feet; thence run N 55° 24' 19" W for 72.18 feet to the Point of Beginning and a point designated "A".
From said Point of Beginning run the following courses and distances along the perimeter of Parcel 1: N 52° 57' 03" W for 69.91 feet; N 46° 08' 32" W for 33.57 feet; N 07° 11' 18" W for 23.31 feet; N 43° 51' 28" E for 46.83 feet; S 46° 08' 32" E for 34.39 feet; S 43° 51' 28" W for 14.69 feet; S 46° 08' 32" E for 46.31 feet; N 65° 55' 08" E for 38.83 feet; S 46° 08' 32" E for 33.71 feet; S 43° 51' 28" W for 74.50 feet to the Point of Beginning.
Parcel contains 7,229 square feet, more or less.

AND

Parcel 2

From the point hereinabove designated "A" run N 74° 03' 50" W for 40.94 feet to the Point of Beginning of Parcel 2.

From said Point of Beginning run the following courses and distances along the perimeter of said Parcel 2: S 28° 27' 02" W for 34.69 feet; N 62° 24' 05" W for 36.46 feet; N 28° 27' 02" E for 34.69 feet; S 62° 24' 05" E for 36.46 feet to the Point of Beginning.
Parcel contains 1,247 square feet, more or less.

Bearings hereinabove mentioned are based on a magnetic bearing of East for the north line of Section 9, Township 44 South, Range 21 East.

NOTE: THIS LEGAL DESCRIPTION INCLUDES PROPERTY PREVIOUSLY CONVEYED TO GRANTEE IN DEED RECORDED AT O.R. BOOK 3276, PAGE 1319, LEE COUNTY PUBLIC RECORDS.

OR BK 03359 PG 1359

Exhibit "B"

DESCRIPTION
EFFLUENT HOLDING POND PARCEL
IN G.L. 1, SECTION 9, T. 44 S., R. 21 E.
USEPPA ISLAND, LEE COUNTY, FLORIDA

A lot or parcel of land lying in Government Lot 1, Section 9, Township 44 South, Range 21 East, Useppa Island, Lee County, Florida which lot or parcel is described as follows:

From the concrete post marking a point on the north line of said Section 9 approximately 26 feet east from the west shore of Useppa Island, run East along said section line for 474.39 feet to a concrete post, 25 feet more or less westerly from the east shore of said island; thence continue East along said section line for 21.47 feet; thence run S 02° 32' 38" W for 885.04 feet; thence run S 85° 44' W for 69.30 feet; thence run S 14° 58' W for 45 feet; thence run S 26° 56' W for 60 feet; thence run S 38° 06' W for 65 feet; thence run S 50° 14' W for 60 feet; thence run S 52° 20' W for 73 feet; thence run S 56° 39' W for 70 feet; thence run S 62° 23' W for 78 feet; thence run N 84° 36' 16" W for 140.81 feet; thence run N 20° 44' E for 70.11 feet; thence run N 01° 31' W for 40 feet; thence run S 44° 49' 28" E for 18 feet; thence run N 61° 42' 25" E for 67.75 feet; thence run N 21° 33' 20" W for 75 feet to a steel pin marking the Point of Beginning.

From said Point of Beginning run S 41° 10' 20" E for 107.33 feet to a steel pin; thence run N 53° 28' 00" E for 102.80 feet to a steel pin; thence run N 36° 19' 33" W for 125.75 feet to a steel pin ; thence run S 52° 32' 41" W for 113.32 feet to a steel pin; thence run S 41° 10' 20" E for 17.00 feet to the Point of Beginning.

OR BK 03359 PG 1360

Exhibit "B"

DESCRIPTION
EFFLUENT HOLDING POND PARCEL
IN G.L. 1, SECTION 9, T. 44 S., R. 21 E.
USEPPA ISLAND, LEE COUNTY, FLORIDA

A lot or parcel of land lying in Government Lot 1, Section 9, Township 44 South, Range 21 East, Useppa Island, Lee County, Florida which lot or parcel is described as follows:

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From said Point of Beginning run S 41° 10' 20" E for 107.33 feet to a steel pin; thence run N 53° 28' 00" E for 102.80 feet to a steel pin; thence run N 36° 19' 33" W for 125.75 feet to a steel pin ; thence run S 52° 32' 41" W for 113.32 feet to a steel pin; thence run S 41° 10' 20" E for 17.00 feet to the Point of Beginning.

OR BK 03359 PG 1360

Exhibit "B"

DESCRIPTION
EFFLUENT HOLDING POND PARCEL
IN G.L. 1, SECTION 9, T. 44 S., R. 21 E.
USEPPA ISLAND, LEE COUNTY, FLORIDA

A lot or parcel of land lying in Government Lot 1, Section 9, Township 44 South, Range 21 East, Useppa Island, Lee County, Florida which lot or parcel is described as follows:

From the concrete post marking a point on the north line of said Section 9 approximately 26 feet east from the west shore of Useppa Island, run East along said section line for 474.39 feet to a concrete post, 25 feet more or less westerly from the east shore of said island; thence continue East along said section line for 21.47 feet; thence run S 02° 32' 38" W for 885.04 feet; thence run S 85° 44' W for 69.30 feet; thence run S 14° 58' W for 45 feet; thence run S 26° 56' W for 60 feet; thence run S 38° 06' W for 65 feet; thence run S 50° 14' W for 60 feet; thence run S 52° 20' W for 73 feet; thence run S 56° 39' W for 70 feet; thence run S 62° 23' W for 78 feet; thence run N 84° 36' 16" W for 140.81 feet; thence run N 20° 44' E for 70.11 feet; thence run N 01° 31' W for 40 feet; thence run S 44° 49' 28" E for 18 feet; thence run N 61° 42' 25" E for 67.75 feet; thence run N 21° 33' 20" W for 75 feet to a steel pin marking the Point of Beginning.

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OR BK 02359 PG 1360

Exhibit "B"

DESCRIPTION
EFFLUENT HOLDING POND PARCEL
IN G.L. 1, SECTION 9, T. 44 S., R. 21 E.
USEPPA ISLAND, LEE COUNTY, FLORIDA

A lot or parcel of land lying in Government Lot 1, Section 9, Township 44 South, Range 21 East, Useppa Island, Lee County, Florida which lot or parcel is described as follows:

From the concrete post marking a point on the north line of said Section 9 approximately 26 feet east from the west shore of Useppa Island, run East along said section line for 474.39 feet to a concrete post, 25 feet more or less westerly from the east shore of said island; thence continue East along said section line for 21.47 feet; thence run S 02° 32' 38" W for 885.04 feet; thence run S 85° 44' W for 69.30 feet; thence run S 14° 58' W for 45 feet; thence run S 26° 56' W for 60 feet; thence run S 38° 06' W for 65 feet; thence run S 50° 14' W for 60 feet; thence run S 52° 20' W for 73 feet; thence run S 56° 39' W for 70 feet; thence run S 62° 23' W for 78 feet; thence run N 84° 36' 16" W for 140.81 feet; thence run N 20° 44' E for 70.11 feet; thence run N 01° 31' W for 40 feet; thence run S 44° 49' 28" E for 18 feet; thence run N 61° 42' 25" E for 67.75 feet; thence run N 21° 33' 20" W for 75 feet to a steel pin marking the Point of Beginning.

From said Point of Beginning run S 41° 10' 20" E for 107.33 feet to a steel pin; thence run N 53° 28' 00" E for 102.80 feet to a steel pin; thence run N 36° 19' 33" W for 125.75 feet to a steel pin ; thence run S 52° 32' 41" W for 113.32 feet to a steel pin; thence run S 41° 10' 20" E for 17.00 feet to the Point of Beginning.

OR BK 03359 PG 1360

ATTACHMENT 3
2025 CORRECTIVE WARRANTY DEED

Kevin C. Karnes, Lee County Clerk of the Circuit Court & Comptroller
INSTR# 2025000262251, DocType D, Pages 3, Recorded 10/1/2025 at 8:00 AM, DeputyClerk WMILLER
Rec Fees: $27.00 ERECORD

Prepared by and return to:
Karla Bryant, Employee
Atlas Title of SW FL, Inc.
2233 Second Street
Fort Myers, FL 33901

[Space Above This Line For Recording Data]

Corrective Warranty Deed

(STATUTORY FORM - SECTION 689.02, F.S.)

This Indenture made this 22 day of September, **2025** between **Useppa Inn and Dock Company, Ltd., a Florida limited partnership,** whose post office address is **c/o Farr Law Firm, Jack O. Hackett, II, Esq., 99 Nesbit Street, Punta Gorda, FL 33950** of the County of **Charlotte**, State of **Florida**, grantor*, and **Useppa Island Utilities Company, Inc., a Florida corporation,** whose post office address is **c/o Farr Law Firm, Jack O. Hackett, II, Esq., 99 Nesbit Street, Punta Gorda, FL 33950** of the County of **Charlotte**, State of **Florida**, grantee*,

Witnesseth that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in **Lee County, Florida**, to-wit:

SEE ATTACHED EXHIBIT "A"

****THE PURPOSE OF THIS DEED IS TO CORRECT THE NAME OF THE GRANTEE IN THE WARRANTY DEED RECORDED ON 2/27/2001, IN OR BOOK 03369 AT PAGE 1358, IN THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA. ALL DOCUMENTARY STAMPS DUE WERE PAID AT THE TIME OF THE ORIGINAL RECORDING.****

and said grantor does hereby fully warrant the title to said land and will defend the same against lawful claims of all persons whomsoever.

* "Grantor" and "Grantee" are used for singular or plural, as context requires.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

File Number: 2025-88

Signed, sealed, and delivered in our presence:

Witness
Printed Name: Jack O. Hackett II

P.O. Address: 99 Nesbit Street
Punta Gorda FL 33950

Jean Marie Jayne
Witness
Printed Name: Jean Marie Jayne

P.O. Address: 99 Nesbit Street
Punta Gorda FL 33950

Useppa Inn and Dock Company, Ltd., a Florida limited partnership

By: Useppa Inn and Dock Company, Inc., a Florida corporation

Its: General Partner

By: Sanae Beckstead
Sanae Beckstead, as President

State of Florida
County of Charlotte

The foregoing instrument was acknowledged before me by means of [✓] physical presence or [ ] online notarization, this 22 day of September, 2025 by Sanae Beckstead, as President of Useppa Inn and Dock Company, Inc., a Florida corporation, as General Partner of Useppa Inn and Dock Company, Ltd., a Florida limited partnership, on behalf of the partnership, who [✓] are personally known or [ ] have produced drivers' licenses as identification.

[Seal]

JEAN MARIE JAYNE
MY COMMISSION # HH 215378
EXPIRES: January 22, 2026

Jean Marie Jayne
Notary Public
Print Name: _____
My Commission Expires: _____

EXHIBIT "A"

Parcel 1-Utilities

A tract or parcel of land lying in Government Lot 1, Section 9, Township 44 South, Range 21 East, Useppa Island, Lee County, Florida, which tract or parcel is described as follows:

From the concrete post marking the point on the north line of said Section 9 approximately 26 feet east from the west shore of Useppa Island, run East along said Section line for 474.39 feet to a concrete post 25 feet more or less westerly from the east shore of said Island; thence continue East along said Section line for 21.47 feet; thence run, 02° 32' 38" W for 885.04 feet; thence run S 85° 44' 00" W for 69.30 feet; thence run S 14° 58' 00" W for 45.00 feet; thence run S 26° 56' 00" W for 60.00 feet; thence run S 38° 06' 00" W for 65.00 feet; thence run S 50° 14' 00" W for 60.00 feet; thence run S 52° 20' 00" W for 73.00 feet; thence run S 56° 39' 00" W for 70.00 feet; thence run S 62° 23' 00" W for 78.00 feet; thence run N 84° 36' 16" W for 140.81 feet; thence run N 20° 44' 00" E for 70.11 feet; thence run N 01° 33' 00" W for 40.00 feet; thence run S 44° 49' 28" E for 18.00 feet; thence run N 61° 42' 25" E for 67.75 feet; thence run N 21° 33' 20" W for 75.00 feet; thence run N 41° 10' 20" W for 17.00 feet; thence run N 52° 32' 41" E for 113.32 feet; thence run N 55° 24' 19" W for 72.18 feet to the Point of Beginning and a point designated "A".

From said Point of Beginning run the following courses and distances along the perimeter of Parcel 1: N 52° 57' 03" W for 69.91 feet; N 46° 08' 32" W for 33.57 feet; N 07° 11' 18" W for 23.31 feet; N 43° 51' 28" E for 46.83 feet; S 46° 08' 32" E for 34.39 feet; S 43° 51' 28" W for 14.69 feet; S 46° 08' 32" E for 46.31 feet; N 65° 55' 08" E for 38.83 feet; S 46° 08' 32" E for 33.71 feet; S 43° 51' 28" W for 74.50 feet to the Point of Beginning.

AND

Parcel 2

From the point hereinabove designated "A" run N 74° 03' 50" W for 40.94 feet to the Point of Beginning of Parcel 2. From said Point of Beginning run the following courses and distances along the perimeter of said Parcel 2; S 28° 27' 02" W for 34.69 feet; N 62° 24' 05" W for 36.46 feet; N 28° 27' 02" E for 34.69 feet; S 62° 24' 05" E for 36.46 feet to the Point of Beginning.

Parcel 3: Well Site

A tract of parcel of land lying in Government Lot 1, Section 9, Township 44 South, Range 25 East, Useppa Island, Lee County, Florida, which tract or parcel is more particularly described as follows: Commencing at a southeast corner of Lot 26, Phase III of Unrecorded Useppa Island as described in Official Records Book 4366, page 2939, public records of Lee County, Florida thence North 84° 13'30" West on the south line of said Lot 26 for 133.95 feet to the southwest corner of said Lot 26; thence North 38° 01' 28" West for 276.38 feet to a 3/4 inch iron pipe with cap stamped LB 642 and the Point of Beginning.

From said Point of Beginning thence North 48° 33'23" West for 61.11 feet to a 3/4 inch iron pipe with cap stamped LB 642; thence North 44° 28' 42" East for 61.58 feet to a 3/4 inch iron pipe with cap stamped LB 642; thence South 47° 36' 13" East for 55.84 feet to a 3/4 inch iron pipe with cap stamped LB 642; thence South 39° 31 '59" West for 60.60 feet to the Point of Beginning.

Bearings hereinabove mentioned are based on Lot 26, Phase III of Unrecorded Useppa Island as described in Official Records Book 4366, page 2939, public records of Lee County, Florida wherein the south line bears North 84° 13' 30" bears North 84° 13' 30" West.

ATTACHMENT 4-1
FLORIDA DEP CORRESPONDENCE
(PERMIT NO. FLA014494)

WAIVER OF 30 DAY and 90 DAY TIME LIMITS
UNDER SECTIONS 120.60(1) and 403.0876(1) and (2), FLORIDA STATUTES

Permit Application Nos.: FLA014494-008-DW3P, FLA146102-006-IW5C/NR, and FLA0144494

Applicant's Name: Useppa Island Utility Co.

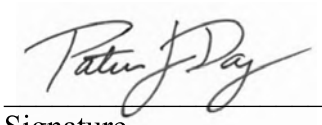
With regard to the above referenced application, the applicant hereby with full knowledge and understanding of applicant's rights under Rules 62-4.055(1) and 62-620.510(1), Florida Administrative Code, Sections 120.60(1) and 403.0876(1), Florida Statutes, waives the right to have the application reviewed and any additional information requested by the State of Florida Department of Environmental Protection within the 30-day time period prescribed by law.

Further, the applicant hereby with full knowledge and understanding of applicant's rights under Rules 62-4.055(5) and 62-620.510(8), Florida Administrative Code, Sections 120.60(1) and 403.0876(2), Florida Statutes, waives the right for the Department's permit approval or denial within 90 days after receipt of timely requested additional material.

Said waivers are made freely and voluntarily by the applicant, with full knowledge, and without any pressure or coercion by anyone employed by the State of Florida Department of Environmental Protection.

This waiver shall expire on the 15th of April, 2026.

The undersigned is authorized to make this waiver on behalf of the applicant.



Signature

Patrick Day, 1/13/25

Name (Please Type or Print)

Attachment 4-1
Communication Date 01/13/26

WAIVER OF 30 DAY and 90 DAY TIME LIMITS
UNDER SECTIONS 120.60(1) and 403.0876(1) and (2), FLORIDA STATUTES

Permit Application Nos.: FLA014494-008-DW3P

Applicant's Name: Useppa Island Utility Co.

With regard to the above referenced application, the applicant hereby with full knowledge and understanding of applicant's rights under Rules 62-4.055(1) and 62-620.510(1), Florida Administrative Code, Sections 120.60(1) and 403.0876(1), Florida Statutes, waives the right to have the application reviewed and any additional information requested by the State of Florida Department of Environmental Protection within the 30-day time period prescribed by law.

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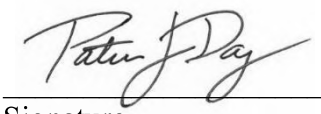
Said waivers are made freely and voluntarily by the applicant, with full knowledge, and without any pressure or coercion by anyone employed by the State of Florida Department of Environmental Protection.

This waiver shall expire on the 15th of January, 2026.

The undersigned is authorized to make this waiver on behalf of the applicant.



Signature

Patrick Day

Name (Please Type or Print)

Attachment 4-1
Communication Date 11/07/25

DRMP

1404 Dean Street, Suite 101, Fort Myers, FL 33901
Phone: 239.206.5093 | Fax: 239.357.7194
1.833.811.3767 | www.DRMP.com

August 15, 2025

Gabriela Hasher.
Florida Department of Environmental Protection
South District

Subject: RFI response for Useppa Island WWTP FDEP Permit Renewal
Site ID: FLA014494
DEP Application No.: FLA014494-008-DW3P

Dear Ms. Hasher:
Please find the following responses to FDEP review, at the above referenced Case number.

1. Please provide a copy of the power outage contingency plan, including any updates or revisions. Additional information about the plan's requirements can be found here: https://floridadep.gov/water/domestic-wastewater/content/collectiontransmission-system-power-outage-contingency-plans [62-600.705(1), F.A.C.]

DRMP Response:
See attached

2. Please submit an electronic summary of the collection system action plan, described in Rule 600.705, F.A.C. Additional information about the plan's requirements can be found here https://floridadep.gov/water/domestic-wastewater/content/collection-system-action-plans [62-600.705(2), F.A.C.]

DRMP Response:
See attached

3. Exceedances were noted in the Discharge Monitoring Report from December 2024. Please specify how the facility is going to achieve compliance in the ground water compliance well with TDS, Arsenic, Chloride, Fecal Coliform, and Total Sulfate. Please identify the causes of the exceedance, the actions being taken to correct the problem, and the actions being taken to prevent the problems from recurring. [62-600.735(4)(b), F.A.C.]

DRMP Response: In speaking with Sanders Lab and the operator, the area where the compliance and intermediate wells are located were under water for an extended period of time after the two Hurricanes passed through in the summer of 2024. The operator said they made the Department aware or this. The Fecal Coliform in the effluent was in compliance. If these exceedances continue after the dry months of spring, the effluent can be sampled for these constituents to determine if the WWTP is the cause of the exceedances

4. Please provide an updated groundwater monitoring plan depicting the locations of the groundwater monitoring wells. Please verify that the intermediate well is within the zone of discharge and that the compliance well is downgradient at the edge of the zone of discharge. [62-520.600(6), F.A.C.]

Attachment 4-1
Communication Date 08/15/25

DRMP Response:
We are in the process of providing this to the Department. We have notified the owner of this request and have sent a proposal. We have asked the Department for the original GWP but it could not be found. Greg Rawl, PSG, will be providing the GWP. We ask that this be a scheduled item and it will be submitted within six months of the permit issuance.

5. The last inspection report noted that there was a lack of records showing past hauling of biosolids. Please provide evidence, such as hauling receipts, showing when biosolids were last hauled from the facility. [62-640.650(4), F.A.C.]

DRMP Response: See attached

If you should have any questions or require further assistance, please do not hesitate to contact me directly.

Sincerely,

Patrick Day, PE, BCEE
Utility Manager

CC:

LEE COUNTY SOLID WASTE
LEE HENDRY LANDFILL
10500 BUCKINGHAM ROAD
FT. MYERS, FL 33905

Weighed: KRYSTAL
Deposit: MICHELE

BILL TO: 175
WASTE PRO OF FLORIDA AREA 5
P. O. BOX 60717
FORT MYERS FL 33906

Vehicle ID: P205
Rolloff ID: 7
Reference: 414547FL
Comment: USWPPA ISLAND
Origin: NO ORIGIN
Grid: A

DATE IN: 07/11/25 TIME IN: 13:53:50
DATE OUT: 07/11/25 TIME OUT: 14:15:34

INBOUND
Ticket Number: 04-00487462

SCALE 1 GROSS WEIGHT	40920	LB
SCALE 2 TARE WEIGHT	34180	LB
NET WEIGHT	6740	LB

Qty	Description	Amount
3.37	SLUDGE-NON COMPOST	286.45

TICKET AMOUNT: 286.45

Hendry Landfill
Hours: Mon. - Fri. 7:00 am to 4 pm
Phone: 239-533-8000

This is to certify that this load does not contain any hazardous materials, biological waste or liquids.

Customer satisafaction survey:
www.leegov.com/Solidwaste/Customersurvey

I-HAZARDOUS MANIFEST

's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1
PA ISLAND		

Generator's Site Address (If different than mailing):
810 USEPPA ISLAND
BOKEELIA, FL 33922

A. Manifest Number: WMNA «number»
B. State Generator's ID

6. US EPA ID Number
C. State Transporter's ID
D. Transporter's Phone

8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

10. US EPA ID Number
cility
G. State Facility ID
H. State Facility Phone 941-889-9654

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
TW Sludge	1	20YD			
547FL					

bove
K. Disposal Location
Cell | Level
Grid

nformation

EMERGENCY CONTACT / PHONE NO.: 239-283-6078

ls are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and d are in proper condition for transportation according to applicable regulations.

		Month	Day	Year
	Signature "On behalf of"	07	10	2025
of Materials				
	Signature	7	11	25
of Materials				
	Signature	Month	Day	Year

facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s on the dates listed above.

receipt of non-hazardous materials covered by this manifest.

		Month	Day	Year
	Signature	7	11	25

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of
	USEPPA ISLAND	1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
P.O. BOX 640 BOKEELIA, FL 33922	810 USEPPA ISLAND BOKEELIA, FL 33922	WMNA «number»
4. Generator's Phone 239-283-6078		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Waste Pro		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Lee/Hendry County Regional Disposal Facility 5500 Church Rd. Felda, FL 33930 FAX: 239-368-6912		H. State Facility Phone 941-889-9654

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Municipal POTW Sludge WM Profile # 414547FL	1	20YD			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Lined Container used for haul.

Purchase Order # EMERGENCY CONTACT / PHONE NO.: 239-283-6078

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
DAVID PERRY				

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE PRO
"The Waste Professionals"
Waste Pro of Florida - Ft. Myers

WORK ORDER

Waste Pro - Ft Myers
(239) 337-0800

Useppa Island Club
6001 Maria Dr
Saint James City, FL 33956-3037

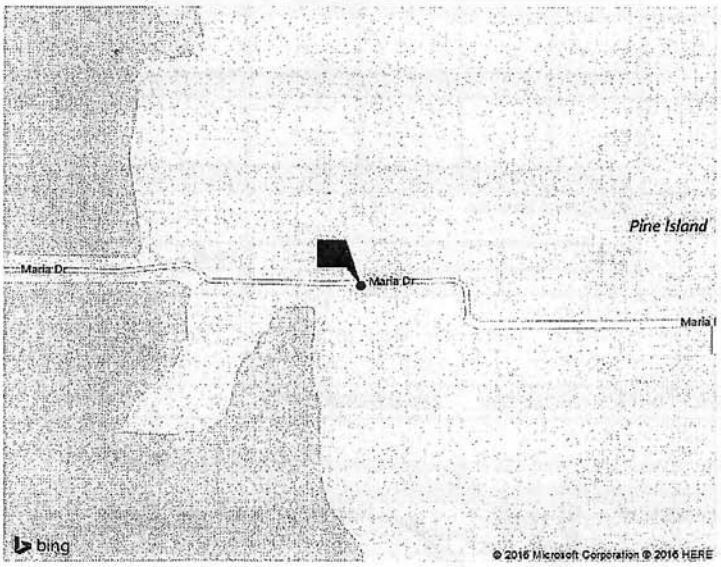
Site Contact: Paul
(239) 283-5005

Route:	103
Site ID:	014895 - 0001
Service Date:	7/11/2025
Driver:	VFAVA
Time Window:	12:00 AM - 12:00 AM
PO Number:	Special Waste Sludge

Gates open at 6 AM COMBO FOR LOCK IS--0812... MUST TAKE MANIFEST-DIPSOSE @ LEE/HENDRY LANDFILL (MUST TAKE A LINER)

Work Order	Qty	Action	Type	Description	Destination
0130658060	1	FINALRO	RO20	20 YD ROLLOFF C&D	

Work Order Notes: MUST TAKE MANIFEST - dump at Lee/Hendry



Customer Signature | Date | Driver Signature | Date

Collection System Action Plan

for

USEPPA Island WWTF

Wastewater System Name

FLA014494

Wastewater Facility Identification No.

Lee County

County

8/6/2025

Date

Florida Rural Water Association

2970 Wellington Circle ~ Tallahassee FL 32309

Telephone: 850-668-2746 ~ e-mail: FRWA@frwa.net

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Introduction

Rule 62-600.710, F.A.C. requires that collection system flows be routinely reviewed as part of a pipe assessment, repair and replacement plan. The utility is required to have at least a 5-year planning horizon to prevent sanitary sewer overflows and underground pipe leaks for all collection/transmission systems under its control to the extent technically and economically feasible. This Collection System Action Plan provides the required information for the 5-year planning horizon for mitigating sanitary sewer overflows and underground pipe leaks for Useppa Island.

Wastewater System Description and Contact Information

The Wastewater System is located in	Useppa Island City Name	,	Lee County County
The systems serves:	155 +/- No. of Residential Customers		residential customers and
	2 No. of Commercial Customers		commercial customers.

Owner: Useppa *Island Utility Co. Inc.*

Po Box 640 Bokeelia, FL 33922

Owner's Representative Responsible for Implementing Collection System Action Plan:

Shane Cassidy. Compliance Manager

US Water Services Corporation

5605 2nd Street W

Lehigh Acres, FL 33971

Scassidy@uswatercorp.net

(239) 671-2808

Power Outage Contingency Plan

The Useppa island Utility Power Outage Contingency Plan is provided in Appendix A.

Inventory

The wastewater collection system consists of the following components:

Component	Size	Material of Construction	Quantity	Units
Manholes	2-ft dia.	Concrete	2	Number
Force Main	2-in	PVC	80	Feet
Force Main	4-in	PVC	40	Feet
Force Main	6-in	PVC	40	Feet
Lift Stations	6-ft dia.	Fiberglass	27	Number

Collection System Map

The Collection System Map is provided in Appendix B.

Electronic Maintenance Management System or Electronic Inventory

This site has a capacity of less than 1.0 MGD. Electronic inventory is not required

Inflow and Infiltration and Leakage Surveys

Between February 2019 and January 2022, a series of camera inspections were conducted on the sewage collection system to assess potential I/I and identify any leakage or structural issues. These inspections targeted segments between various lift stations and nearby homes or facilities, including force mains and gravity lines. Key areas surveyed included Lift Stations 1,2,3,6,16,18 extending to residential connections and high-use buildings like the marina showers. The inspections were part of an ongoing effort to monitor system integrity, locate sources of I/I, and plan necessary maintenance or repairs.

System Evaluation Plan

For evaluations to be done on system for 5-year planning period with at least 25% of collection system evaluation completed within 5 years. For example, areas to be cleaned, smoke tested and TV'd during 5-year planning period shown on collection system map; or I/I and leakage surveys to be done.

Maintenance and Repair Plan

USEPPA ISLAND COLLECTION SYSTEM O&M PLAN			
COLLECTION SYSTEM		**LIFT STATIONS**	
Task	**Frequency**	**Task**	**Frequency**
Smoke Test Gravity System	Every 5 years	Check Lift Stations for Proper Operation	Per Visit
Inspect Manholes	Annually	Clean Floats /Probe Rods	Monthly
Respond to Customer Complaints	As Received	Clean Out Wet Wells	Annually
Update Collection System Electronic Maintenance Map with any Breaks or Leaks	As Received	Exercise All Valves	Annually
	Monthly for above grade items and below grade 1x every 5 years with smoke test.	Check Control Valves For Proper Operation	Monthly
		Record LS Pumps, Run Time Compare to Rain Events to Identify I/I	Monthly

Record Keeping

The on-site manager, maintenance team, and operator will be responsible for keeping the collection system's operation and maintenance, as well as repairs, up to date. This log will be kept in the office at the wastewater treatment plant to prevent loss or damage.

Fats, Oils, and Grease, Wet Wipe and Root Control

An description is attached and distributed to residents, indicating what items should not be flushed in every water bill each month.

See Appendix C for a copy of this reminder.

Local Sewer Ordinances

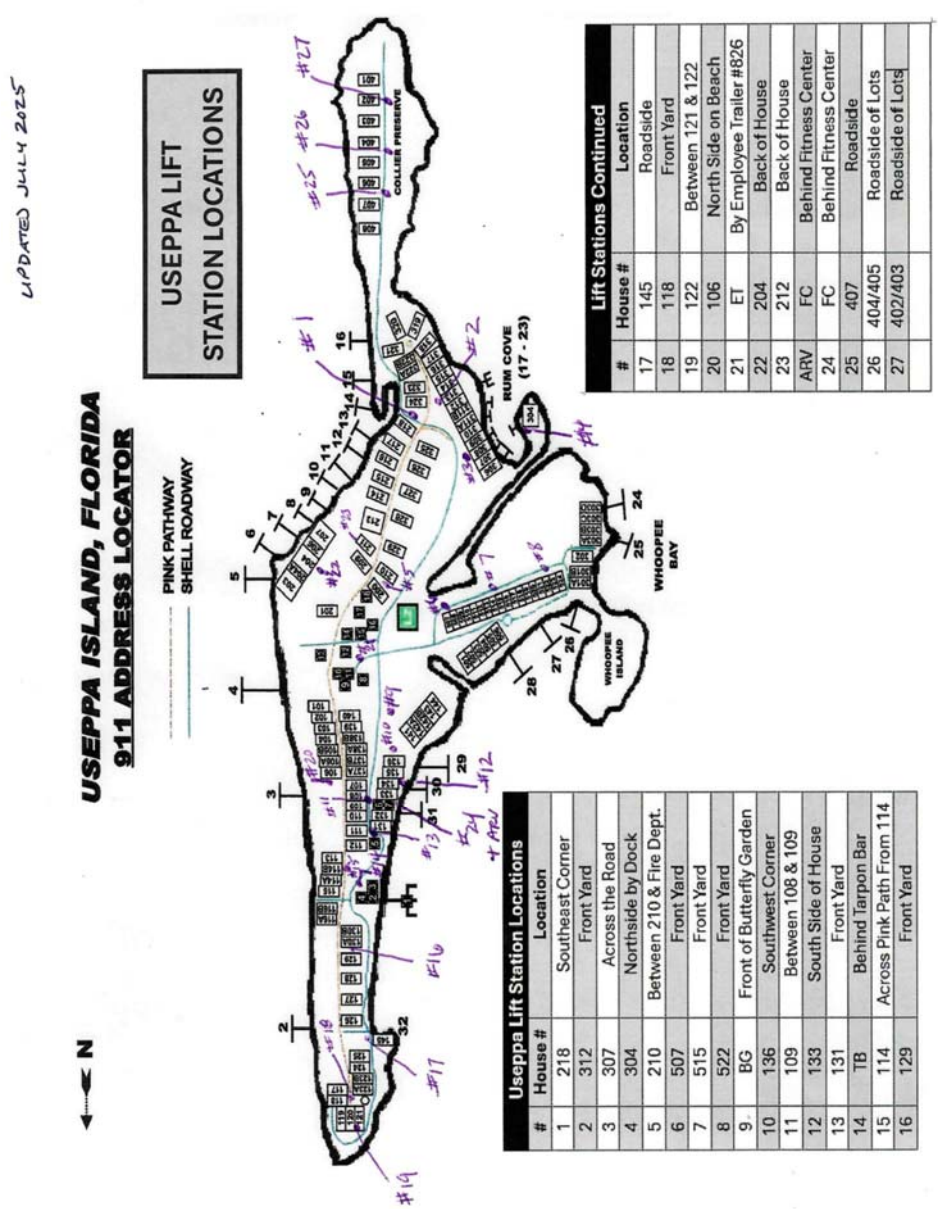
Not Applicable

System Resiliency

All sewer caps placed on the cleanouts are inspected when the community is evacuated for hurricanes or flooding. July 2020 12" risers were installed on lift stations to consider sea-levels rise, flood mitigation or stormwater control measure to reduce potential inflow and infiltration.

Annual Report

An Annual Report summarizing the Collection System Action Plan implementation must be submitted electronically to the FDEP district office no later than June 30 each year. The specified requirements of the Annual Report are covered in the following Annual Report format provided in Appendix D.



Useppa Lift Station Locations		
#	House #	Location
1	218	Southeast Corner
2	312	Front Yard
3	307	Across the Road
4	304	Northside by Dock
5	210	Between 210 & Fire Dept.
6	507	Front Yard
7	515	Front Yard
8	522	Front Yard
9	BG	Front of Butterfly Garden
10	136	Southwest Corner
11	109	Between 108 & 109
12	133	South Side of House
13	131	Front Yard
14	TB	Behind Tarpon Bar
15	114	Across Pink Path From 114
16	129	Front Yard

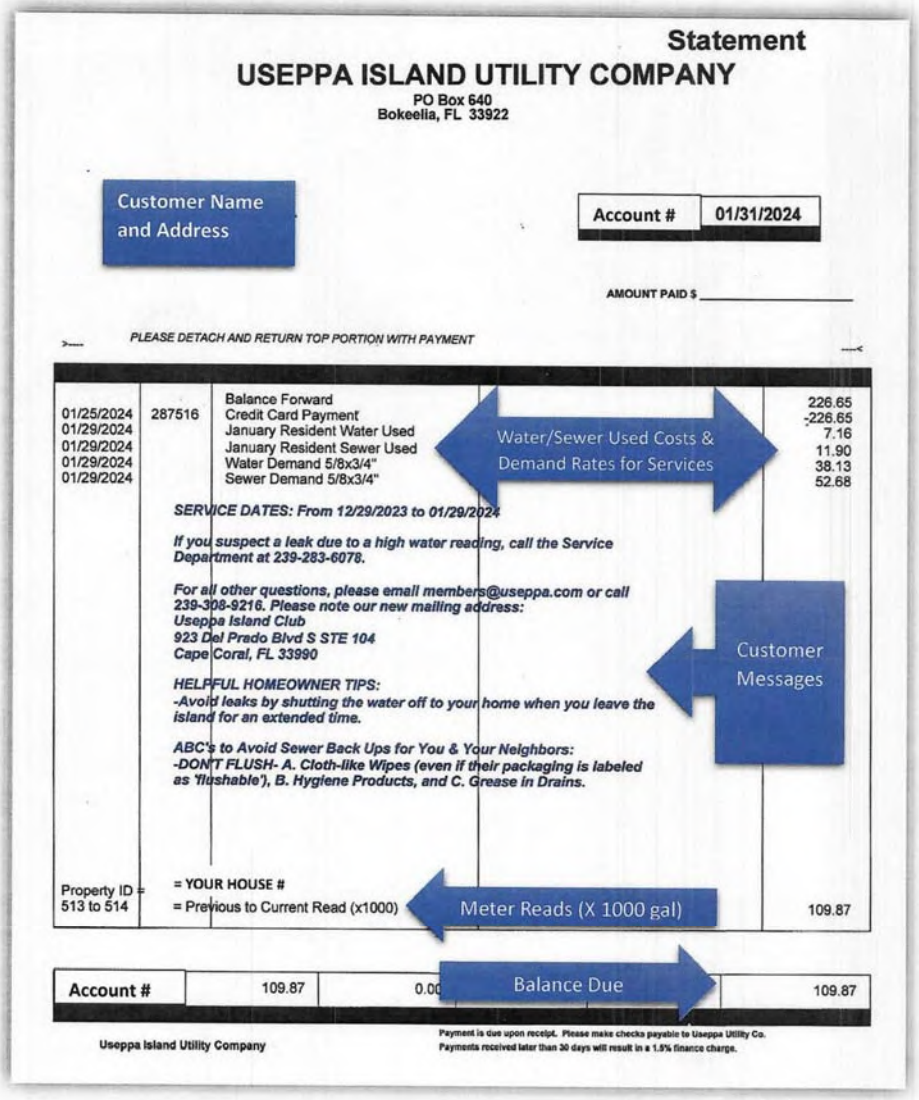
Lift Stations Continued		
#	House #	Location
17	145	Roadside
18	118	Front Yard
19	122	Between 121 & 122
20	106	North Side on Beach
21	ET	By Employee Trailer #826
22	204	Back of House
23	212	Back of House
ARV	FC	Behind Fitness Center
24	FC	Behind Fitness Center
25	407	Roadside
26	404/405	Roadside of Lots
27	402/403	Roadside of Lots

.

How To Read Your Water Bill

Wondering about what certain items on your monthly water bill are?

Here's a basic guide to help decipher the bill.



Statement

USEPPA ISLAND UTILITY COMPANY

PO Box 640
Bokeelia, FL 33922

Customer Name and Address

Account #	01/31/2024

AMOUNT PAID $ _____

PLEASE DETACH AND RETURN TOP PORTION WITH PAYMENT

		Balance Forward	226.65
01/25/2024	287516	Credit Card Payment	-226.65
01/29/2024		January Resident Water Used	7.16
01/29/2024		January Resident Sewer Used	11.90
01/29/2024		Water Demand 5/8x3/4"	38.13
01/29/2024		Sewer Demand 5/8x3/4"	52.68

Water/Sewer Used Costs & Demand Rates for Services

SERVICE DATES: From 12/29/2023 to 01/29/2024

If you suspect a leak due to a high water reading, call the Service Department at 239-283-6078.

For all other questions, please email members@useppa.com or call 239-308-9216. Please note our new mailing address:
Useppa Island Club
923 Del Prado Blvd S STE 104
Cape Coral, FL 33990

Customer Messages

HELPFUL HOMEOWNER TIPS:
-Avoid leaks by shutting the water off to your home when you leave the island for an extended time.

ABC's to Avoid Sewer Back Ups for You & Your Neighbors:
-DON'T FLUSH- A. Cloth-like Wipes (even if their packaging is labeled as 'flushable'), B. Hygiene Products, and C. Grease in Drains.

Property ID = 513 to 514	= YOUR HOUSE #	
	= Previous to Current Read (x1000)	109.87

Meter Reads (X 1000 gal)

Account #	109.87	0.00	109.87

Balance Due

Useppa Island Utility Company

Payment is due upon receipt. Please make checks payable to Useppa Utility Co.
Payments received later than 30 days will result in a 1.5% finance charge.

Appendix A : Power Outage Contingency Plan

Power Outage Contingency Plan

FLORIDA RURAL WATER ASSOCIATION

2970 Wellington Circle • Tallahassee, FL 32309-7813

System Name: Useppa Island Utilities

FLA ID: FLA014494

Address: Po Box 640

City/State/Zip: Bokeelia, FL 33922

Phone Number: (239) 283-1061

Fax:

Email: service@useppa.com

FLORIDA RURAL WATER ASSOCIATION

2970 Wellington Circle • Tallahassee, FL 32309-7813

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I. Purpose

This Power Outage Contingency Plan has been prepared in accordance with Rule 62-600.705(1), F.A.C., and s. 403.086(2), F.S. The purpose of this Power Outage Contingency Plan is to ensure proper response following a power outage to a lift station within your wastewater collection system to minimize the adverse effects that may be caused by a power outage.

This plan is effective beginning on 8 /6/2025

This plan will be reviewed and/or updated annually to incorporate any changes in contact information, system components, and/or personnel.

II. Objectives

The objectives of this plan are:

- To protect public health and the environment
- To meet regulatory and permit requirements
- To develop and implement procedures to mitigate the effects of a power outage
- To map the collection system identifying pump stations and critical areas of Sanitary Sewer Overflow (SSO) potential
- To assess pump station needs related to power outage
- To inventory critical assets such as portable generators and bypass pumps including the storage and maintenance procedures thereof
- To organize a communications plan
- To document fuel resource needs
- To protect collection system and wastewater treatment personnel
- To establish the need for any mutual aid agreements
- To anticipate upgrades and improvements
- To protect both public and private property

- To minimize regulatory citations and/or penalties resulting from a power outage spill/SSO
- To provide appropriate customer service
- To use financial resources efficiently and economically

III. Power Outage Contingency Plan

Collection System Overview

The following map of the collection system provides critical items necessary for the Power Outage Contingency Plan implementation, including Pump Station locations, storage areas for power outage needs and critical areas related to SSOs.

1. Map of the Collection System
2. List of critical equipment such as pump stations.
3. List of critical areas of SSO potential
4. Storage area identifying available space onsite.

Personnel

1. Organizational structure and responsibilities of each position in your facility in an emergency.
2. Activation procedures
3. Know key staff at your electric utility, especially your designated account representative, if assigned one.
4. Obtain 24/7 emergency contact information for your electric utility and local emergency management agency and plan together for power outage events.
5. Determine where your treatment facility and key pumping stations rank on the prioritization list for power restoration.
6. Make sure your electric utility has the actual street addresses and locations of your treatment facilities and pumping stations. In case street signs are damaged or lost, also include latitude and longitude positions.
7. Learn what alternative communication methods (e.g., 2-way radios, ham radio operators, satellite phones) are available.
8. Maintain membership in Florida Water and Wastewater Agency Response Network (FlaWARN)
9. Develop standard written notification templates to quickly send alerts in emergencies. Ensure customer information is regularly updated.
10. Participate in local, state, and federal emergency preparedness exercises.
11. Electrician on call.

.

Response Procedures

1. Pump Stations
2. Area-wide power outages
3. Lines
4. Storm Preparation
    - Update response plans, mutual aid agreements and emergency contact information.
    - Ensure staff are familiar with emergency response procedures, including reporting requirements.
    - Conduct the required 48–72-hour necessary load testing and inventory of generators ahead of hurricane season. EPA has provided a quick guide for wastewater system generator preparedness.
    - Take precautions to protect electrical panels and equipment and any other non-submersible assets from flooding.
    - Conduct system maintenance and outreach to reduce potential inflow and infiltration.
    - Have enough supplies and personnel pre-staged for regular operations and response activities. This includes chemicals, tools, equipment, fuel, vehicles, personnel, and management systems. Following an emergency, it may be several weeks before supply chains are restored.
    - Manage system storage. Even with inflow and infiltration preventative measures in place, heavy rains, widescale flooding and storm surge may introduce excess flow to the system.
    - Have a plan for storing, transferring, or disposing of biosolids after a severe weather event. It may take days or weeks for conditions to be suitable for land application. Facilities must contact the DEP district office as quickly as possible if emergency approval is required to transfer biosolids to another facility.
    - Expect interruption of electrical utility service and have generator capacity and fuel sufficient to maintain collection system pumping, treatment, and disposal capability.
    - Expect areas prone to flooding to flood again and take precautions to protect electrical panels and equipment, and any other non-submersible assets.
    - Have treatment, repair, and backup chemicals, tools, equipment, vehicles, personnel, and management systems arranged to respond to emergency conditions.
    - Maintain an emergency response plan and a business continuity plan for all critical system components.
    - Maintain plans that specifically address actions to be taken during power outages; plans should address both short-duration and long-duration outages.
    - Maintain and issue standard operating procedures to manage power outages.
    - Know your system; have a plan for stationary and portable generators. Make sure, if possible, that generators are pre-staged at locations when an event can be expected to potentially affect one or more of your stations.
    - Maintain roles and responsibilities for staff before, during and after a power outage,
    - including appropriate communication protocols.
5. Equipment Staging
6. Receipt of Information Regarding a Power Outage Contingency Plan

7. Dispatch of Personnel to a Power Outage or Overflow Site
8. Plan for and be prepared to reduce levels of service across the system or in pressure zones incrementally; plans should include actions taken to restore operations to normal levels.
9. Be prepared to operate components of your utility manually without the aid of computerized systems.

Document all damage assessments, mutual aid requests, emergency repair work, fuel and equipment used, purchases made, staff hours worked, and contractors used during the response to assist in requesting reimbursement and applying for federal disaster funds.

- Check with your electric utility to make sure that all three phases of power are available before switching back to grid power.
- Follow set procedures for taking your facilities off generator power and back onto grid power.
- Conduct an after-action discussion with utility staff to identify portions of the response that went well and areas for improvement.
- Compile damage assessment forms and cost documentation into a single report to facilitate the sharing of information and the completion of state and federal funding applications.
- Develop lessons learned document and/or an after-action report (AAR) to keep a record of your response activities. If needed, update your risk assessment, emergency response plans and contingency plans.
- Critical need. Equipment essential to maintain public health protection (e.g., pumps).
- Secondary need. Equipment that would enhance operation, but is not critical (e.g., SCADA components). Noncritical need. Equipment provided for convenience/comfort, but not essential. Identify the electrical equipment within the critical needs at the lift stations and determine their voltage, phase configuration, and horsepower/amperage requirements.

List all your critical electrical equipment and their starting order to determine your required starting power. At a minimum, your generator(s) must have the capacity to supply the maximum starting power demands and the running demands of the connected equipment.

Determine your generator needs: critical to keep your generator maintained and to test it regularly under its operating load.

Determine the fuel type, storage tank capacity, fuel transportation and the supplier for delivery. Hook-Up Method: Generators do not simply plug into a piece of equipment that you would like to power. You must install a connection that will enable you to rapidly hook up the generator to your well or sewer lift station pumps, and not accidentally "back feed" electricity into utility company lines.

Transfer switches can be either automatic or manual and will let you easily switch back and forth between commercial and generator power sources.

Camlocks are connectors that can be used to connect a generator directly to a critical piece of

equipment, such as a pump at a wellhead or lift station.

Location: Emergency generators must be able to withstand climate extremes and be able to operate under all conditions.

Environmental considerations: It is important to prevent contamination of source water by fuel, and state requirements, such as containment measures, should be checked.

Generators and their fuel storage tanks must be located above potential floodwater levels.

Generators should also be protected by using a weatherproof enclosure. Siting considerations. A flat surface (e.g., concrete slab) without obstacles is needed for a portable generator. In addition, be sure that the generator is in a well-lit or patrolled area to avoid theft and vandalism.

For added flexibility, consider a variable frequency drive (VFD).

Determine best option: buy, rent, borrow, or share a generator(s). Funding, maintenance requirements, rental availability, and mutual aid and assistance agreements should all be considered. If you are sharing, who gets the generator first? It is easiest to make the decision by considering the advantages and disadvantages of having a generator onsite (purchase) versus obtaining a generator offsite (rent, borrow,
or share).

Pump Station Inventory

The Useppa Island station serve as a critical part of the island's wastewater and stormwater management infrastructure. Each station is equipped to ensure proper conveyance of sewer and stormwater to designated treatment or discharge points. The inventory includes the following key components:

1. Pump Station Structure
    - Total Stations: 27
    - Structure type: Underground wet well with above-ground control panel
    - Construction Material: Fiberglass
2. Pumps
    - Pump Type: Submersible centrifugal sewage pumps
    - Quantity per Station: 2
    - Horsepower Range: ½-2hp (depending on station load)
3. Valves & Piping
    - Discharge Piping: 2" to 4" diameter PVC
    - Check Valves: Inline swing check or spring loaded
    - Isolation Valves: Gate or Ball valves at each discharge point

Generator Inventory

For reference, the Florida Rural Water Association has forty two (42) emergency generators ranging in size from 2 kW to 100 kW available for loan during an emergency on a first come first served basis. If needed, consider renting generators in advance of hurricane or fire season.

- A stand-by Generator is onsite for this Wastewater and Water Treatment Facility

Wastewater or Water Treatment Facility Emergency Stand-by Generators			
Name	**Serial #**	**Model**	**KW**
Cummins	574693881	1200811088	60KW

Critical Generator Information

- Hook-Up Method: Generators do not simply plug into a piece of equipment that you would like to power. You must install a connection that will enable you to rapidly hook up the generator to your well or sewer lift station pumps, and not accidentally "back feed" electricity into utility company lines.
- Transfer switches can be either automatic or manual and will let you easily switch back and forth between commercial and generator power sources.
- Camlocks are connectors that can be used to connect a generator directly to a critical piece of equipment, such as a pump at a wellhead or lift station.
- Location: Emergency generators must be able to withstand climate extremes and be able to operate under all conditions.
- Environmental considerations: It is important to prevent contamination of source water by fuel, and state requirements, such as containment measures, should be checked. Generators and their fuel storage tanks must be located above potential floodwater levels. Generators should also be protected by using a weatherproof enclosure.

- Siting considerations. A flat surface (e.g., concrete slab) without obstacles is needed for a portable generator. In addition, be sure that the generator is in a well-lit or patrolled area to avoid theft and vandalism.
- For added flexibility, consider a variable frequency drive (VFD).
- Exercise your generator periodically under the actual electrical load required of the unit to keep it ready for use;
- Develop a "start and connect" checklist specific to each individual generator and keep it where staff can easily find it;
- Do not operate the generator in excess of its rated capacity;
- Be sure the generator is properly grounded;
- Keep portable generators outside and at least 10 feet away and downwind from inhabited, enclosed areas to prevent the buildup of carbon monoxide fumes;
- Maintain 3 to 4 feet of clear space on all sides and above a generator for adequate ventilation;
- Perform scheduled maintenance as recommended by the generator manufacturer;
- Incorporate fuel management into the maintenance schedule to ensure availability of clean, reliable fuel;
- Do not refuel the generator while it is running, turn it off first and let it cool, especially if the generator uses gasoline;
- Keep the generator dry by keeping it elevated and away from possible flooding;
- Support electrical cords off the ground and do not let cords run through low-lying areas or puddles;
- Replace any cords with damaged insulation;
- Train all staff on how to operate the generator safely; and
- Wear hearing protection if you have to work close to a generator.

Storage and Maintenance of Emergency Equipment

Storage of Wastewater Treatment Facility Emergency Power Generation Equipment

One stand-by generator for the wastewater treatment facilities are located at the maintenance house. Emergency power generation equipment is either housed in a separate building or room located at the facility or is housed in a separate enclosure at the facility that is designed for proper storage of the power generation equipment.

Maintenance Procedures for all Wastewater Treatment Facility Power Generation Equipment.

Diesel fuel supply needs to be turned over every two years to ensure quality fuel. The following scheduled generator runs for Preventative Maintenance should allow the fuel supply to be replenished every two years:

- The following operational protocol will be adhered to for the life of the equipment. 1.0 hours/weekly run under load and 6 hours continuous run under load every May.

- Fuel supply is checked monthly and replenish fuel supplies as needed to allow for contingency plans in the event of an extended power outage. Annual Preventive Maintenance is scheduled with the Original Equipment Manufacturer (OEM) vendor for a complete inspection and factory recommended routine maintenance.

- When a generator is serviced or repaired, test it under load after work is complete.

Maintenance Procedures for all Stationery Portable Generators.

Diesel fuel supply needs to be turned over every two years to ensure quality fuel.
The following scheduled generator runs for Preventative Maintenance should allow the fuel supply to be replenished every two years:

- The following operational protocol will be adhered to for the life of the equipment. 1.0 hours/weekly run under load and 6 hours continuous run under load every May.
- Fuel supply is checked monthly and replenish fuel supplies as needed to allow for contingency plans in the event of an extended power outage. Annual Preventive Maintenance is scheduled with an emergency power generation service contractor for a complete inspection and recommended routine maintenance.
- When a generator is serviced or repaired, test it under load after work is complete.

Storage of Portable Generators

Metal building in the service yard is the central location for the Collection / Transmission portable emergency power generation and by-pass pump equipment. The equipment is housed in a large, enclosed metal building designed to provide protection from the outside environment.

Maintenance Procedures for Portable Generators.

Diesel fuel supply needs to be turned over every two years to ensure quality fuel. The following scheduled generator runs for Preventative Maintenance should allow the fuel supply to be replenished every two years:

- The following operational protocol will be adhered to for the life of the equipment. 1.0 hours/weekly run under load and 6 hours continuous run under load every May.

- Fuel supply is checked monthly and replenish fuel supplies as needed to allow for contingency plans in the event of an extended power outage.

Annual Preventive Maintenance is scheduled with an emergency power generation service contractor for a complete inspection and recommended routine maintenance.

- When a generator is serviced or repaired, test it under load after work is complete.

Storage of Portable Bypass Pumps

- Utility building is the central location for the Collection / Transmission portable emergency power generation and by-pass pump equipment. The equipment is housed in a large, enclosed metal building designed to provide protection from the outside environment.

Maintenance Procedures for all Portable Bypass Pumps.

- The following operational protocol will be adhered to for the life of the equipment. 1.0 hours/weekly run under load and 6 hours continuous run under load every May.

- Fuel supply is checked monthly and replenish fuel supplies as needed to allow for contingency plans in the event of an extended power outage. Annual Preventive Maintenance is scheduled with [insert information on department/contractor responsible] for a complete inspection and recommended routine maintenance.

Fuel Resources

The goal of the fuel resources plan is to ensure that fuel tank levels will be adequate to sustain operations for a period of seven (7) days in the event power is lost and cannot be readily restored. All fuel storage tanks will be filled to max capacity in the month of June for hurricane preparedness. Fuel tank levels also are required to be checked in all emergency power generation and pumps monthly. Replenishment of fuel supplies as needed allows for contingency plans in the event of an extended power outage.

An assessment of the fuel requirements of all critical infrastructure including fuel type, supplier, storage location, and fuel stabilizer requirements.

- Calculate how much fuel is needed to operate each generator and bypass pump for one day and determine your total on-site fuel storage.
- If a storm or other emergency is predicted, fill vehicle, equipment, and fuel storage tanks to capacity. Have an alternate plan for pumping from fuel storage tanks if their pumps operate on grid power only.

Constantly monitor fuel quality and needs and coordinate fuel deliveries to generators. If possible, shut down the generator during refueling. Refill tanks as necessary. Stabilize fuel. If a storm or other emergency is predicted, all vehicles, equipment, and fuel storage tanks will be filled to capacity.

Mutual Aid Agreements

On 7/17/2025 Useppa Utility enrolled into the FLAWARN system. Useppa Island Utilities is a participant in the Statewide Mutual Aid Agreement for Catastrophic Response and Recovery to provide expanded resource capability. These agreements will be developed, coordinated, and amended by the Emergency Management Director. In accordance with Chapter 252, Florida Statutes, Florida also has mutual aid agreements and memorandum of understanding with other states and private organizations. These agreements provide additional resources if needed.

Useppa Island Utilities has mutual aid agreements with FRWA and the Florida WARN system. The Florida Rural Water Association's (FRWA) staff is an integral part of the emergency response team. Florida's Water/Wastewater Agency Response Network is the formalized system of "utilities helping utilities" to address mutual aid during emergency situations. The project's infrastructure consists of a secure web-based data bank of available resources and a practical mutual aid agreement designed to reduce bureaucratic red tape in times of emergency. FlaWARN (ufl.edu).

IV. Communications Plan

Internal Communications

The ability to effectively communicate with employees is paramount to the success of emergency recovery efforts during a localized or widespread power outage. No communication system is 100% reliable. Every communication system is susceptible to being destroyed, damaged, or overloaded. Redundancy of emergency communication systems increases resiliency and confidence that critical messages can get through.

- Contact information should be verified for each employee and employees should know who to call in their department should they have questions during emergency operations.
- Employees should be provided with multiple contact numbers.
- Alternate contact numbers, email addresses, phone trees, and means of communication should be established.
- Internal communications should address what, when, and how a message will be provided to utility personnel who are directly and indirectly involved in an incident.
- Internal communications and notification lists should outline the personnel responsible for activating communications, the order in which notification occurs, and the members of the emergency response team.

External Communication

- Identify the location of the nearest hospital, fire station and police station along with contact information.
- Maintain contact with electric utility provider to obtain power outage duration estimates.
- Notify the regulatory agency (FDEP) if operations and/or water quality or quantity are affected by a power outage, if your utility is running on generator power and what your fuel status is. Keep FDEP and local emergency management updated of status.
- Communications with the power utility and local emergency management must be established prior to restoration of key facilities

V. Preparation and Post Emergency Checklists

Necessary Preparation Prior to Emergency Conditions

The following checklist is reviewed biannually to ascertain all necessary preparations are accomplished:

Electric Utility Coordination

- Know key staff at the electric utility, especially the designated account representative, if assigned one.
- Obtain 24/7 emergency contact information for the electric utility and local emergency management agency and plan together for power outage events.
- Determine where the treatment facility and key pumping stations rank on the prioritization list for power restoration.

- Make sure the electric utility has the actual street addresses and locations of the treatment facilities and pumping stations in case street signs are damaged or lost, also include latitude and longitude positions.

Water and Wastewater Utility Preparation

- Learn what alternative communication methods (e.g., 2-way radios, ham radio operators, satellite phones) are available.
- Maintain membership in Florida Water and Wastewater Agency Response Network (FlaWARN)
- Develop standard written notification templates to quickly send alerts in emergencies.
- Ensure customer information is regularly updated.
- Participate in local, state and federal emergency preparedness exercises.
- Be sure any contract includes wording that you are a priority customer.

Power Assessment

Conduct a power assessment to determine your utility's critical facility backup power requirements. List all your critical electrical equipment and their starting order to determine your required starting power. At a minimum, your generator(s) must have the capacity to supply the maximum starting power demands and the running demands of the connected equipment.

Storm Preparation

- Conduct any necessary load testing and inventory of generators ahead of the storm. EPA has provided a quick guide for wastewater system generator preparedness.
- Take precautions to protect electrical panels and equipment and any other non-submersible assets from flooding.
- Conduct system maintenance and outreach to reduce potential inflow and infiltration.
- Have enough supplies and personnel pre-staged for regular operations and response activities. This includes chemicals, tools, equipment, fuel, vehicles, personnel, and management systems. Following an emergency, it may be several weeks before supply chains are restored.
- Manage system storage. Even with inflow and infiltration preventative measures in place, heavy rains, widescale flooding and storm surge may introduce excess flow to the system.
- Have a plan for storing, transferring, or disposing of biosolids following a severe weather event. It may be days or weeks before conditions allow for land application. Facilities will

- Expect areas prone to flooding to flood again and take precautions to protect electrical panels and equipment, and any other non-submersible assets.
- Have treatment, repair, and backup chemicals, tools, equipment, vehicles, personnel, and management systems arranged to respond to emergency conditions.
- Be prepared to operate components of your utility manually without the aid of computerized systems.

After the Storm

- Document all damage assessments, mutual aid requests, emergency repair work, fuel and equipment used, purchases made, staff hours worked, and contractors used during the response to assist in requesting reimbursement and applying for federal disaster funds.
- Check with your electric utility to make sure that all three phases of power are available before switching back to grid power.
- Follow set procedures for taking your facilities off generator power and back onto grid power.
- Conduct an after-action discussion with utility staff to identify portions of the response that went well and areas for improvement.
- Compile damage assessment forms and cost documentation into a single report to facilitate the sharing of information and the completion of state and federal funding applications.
- Develop lessons learned document and/or an after-action report (AAR) to keep a record of your response activities. If needed, update your risk assessment, emergency response plans and contingency plans.

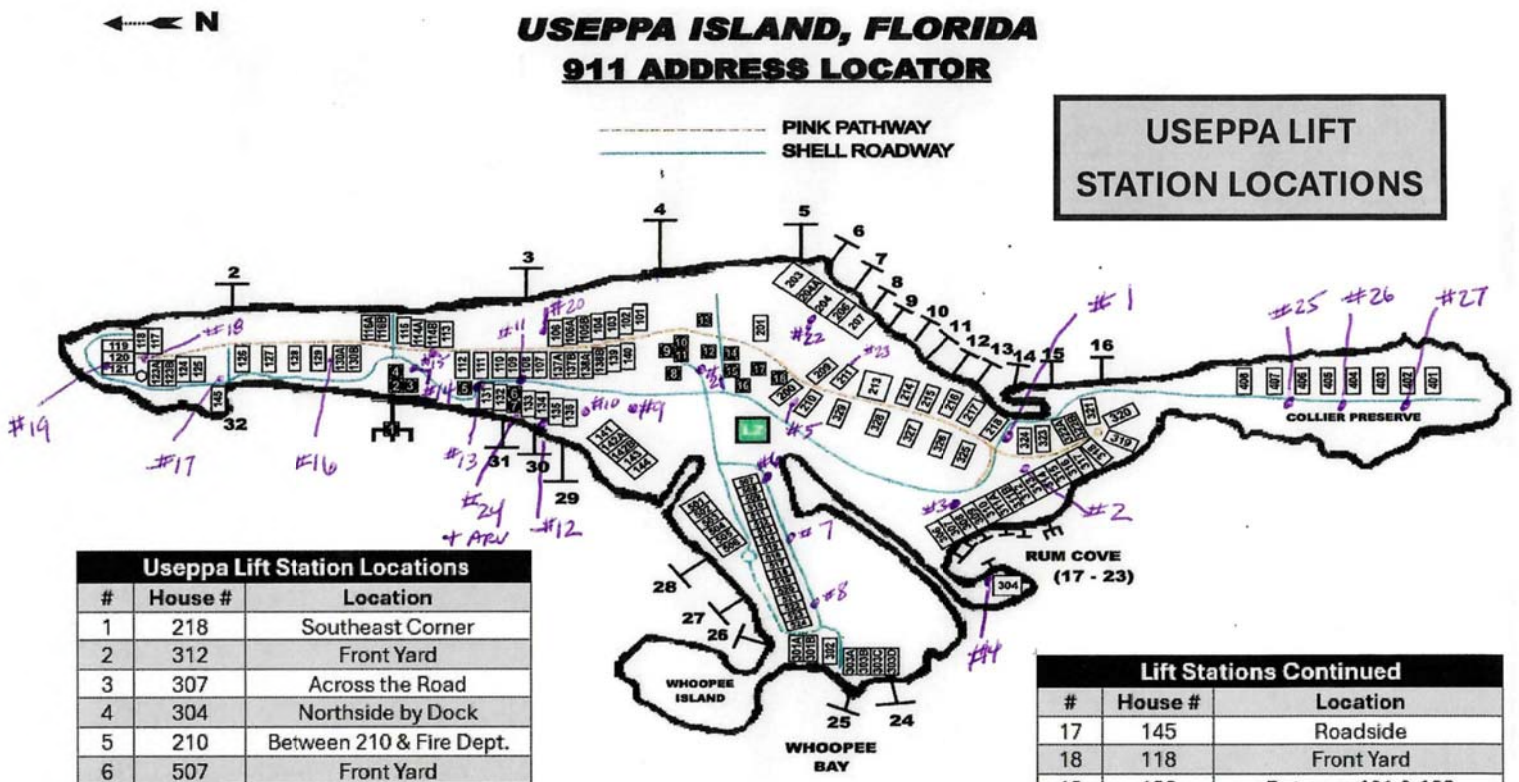
VI. Renewal/Revision

The POWER OUTAGE CONTINGENCY PLAN is a "living" document and is required to be modified and updated, as necessary, in response to corrective actions. If this plan needs to be modified in response to a corrective action or updated information, then this document must be revised as a dated revision. Keep a log with a description of the modification, the name of the person making it, and the date and signature of that person.

Appendix B : Collection System Map

UPDATED JULY 2025

USEPPA ISLAND, FLORIDA
911 ADDRESS LOCATOR



Useppa Lift Station Locations		
#	House #	Location
1	218	Southeast Corner
2	312	Front Yard
3	307	Across the Road
4	304	Northside by Dock
5	210	Between 210 & Fire Dept.
6	507	Front Yard
7	515	Front Yard
8	522	Front Yard
9	BG	Front of Butterfly Garden
10	136	Southwest Corner
11	109	Between 108 & 109
12	133	South Side of House
13	131	Front Yard
14	TB	Behind Tarpon Bar
15	114	Across Pink Path From 114
16	129	Front Yard

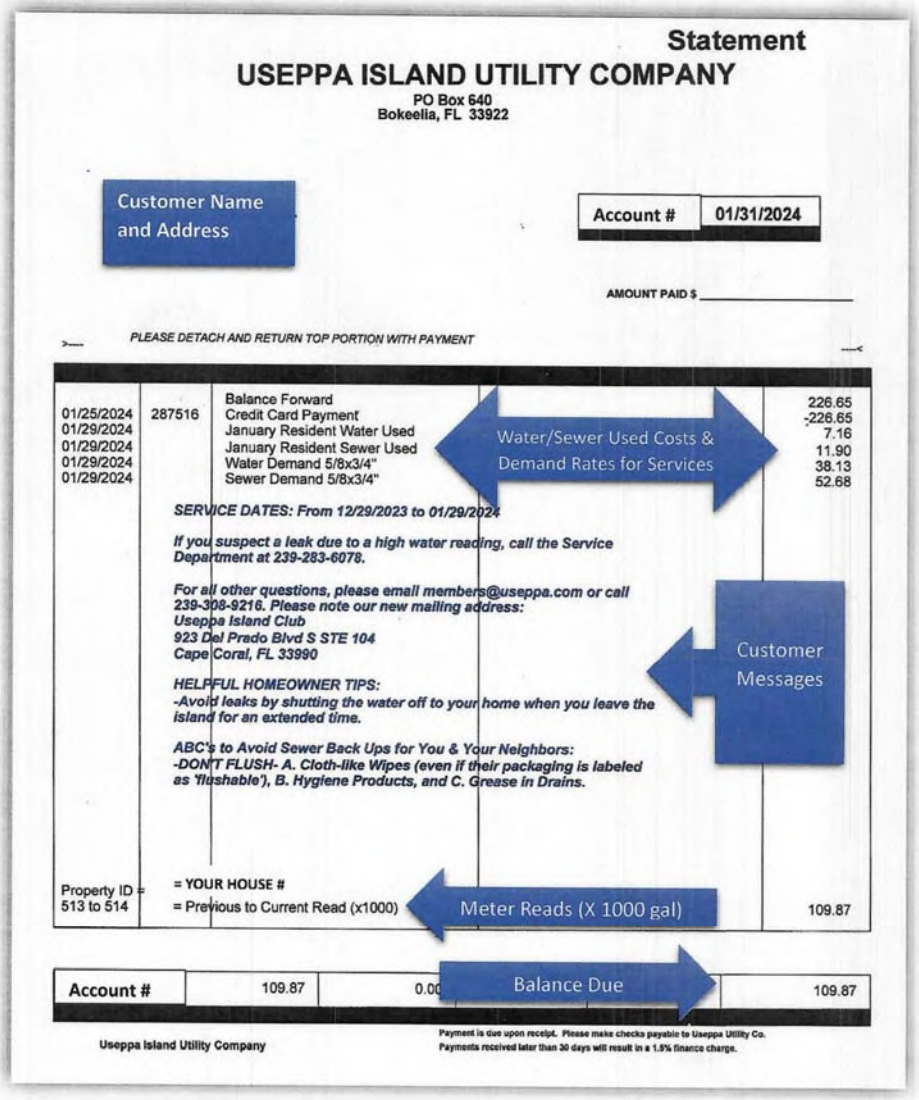
Lift Stations Continued		
#	House #	Location
17	145	Roadside
18	118	Front Yard
19	122	Between 121 & 122
20	106	North Side on Beach
21	ET	By Employee Trailer #826
22	204	Back of House
23	212	Back of House
ARV	FC	Behind Fitness Center
24	FC	Behind Fitness Center
25	407	Roadside
26	404/405	Roadside of Lots
27	402/403	Roadside of Lots

Appendix C : Fat, Oil and Grease Standards

How To Read Your Water Bill

Wondering about what certain items on your monthly water bill are?

Here's a basic guide to help decipher the bill.



Appendix D : Collection System Action Plan Annual Report Format

[UTILITY NAME HERE]

Sample Format for Collection System Action Plan Annual Report

Fiscal Year 20__

Five Year Planning Period: FY 20__ - FY 20__

I. Assessments Conducted This Year (e.g. Evaluations, Investigations, Studies and Surveys)

	Date	Methods Used	Results	Linear Feet of pipe Assessed (ft)	Estimate of Inflow, Infiltration and Leakages (cfs) (see Tools in NOTE below)
a			**Sum**	**0**	**0**

b	Total linear feet of pipe in collection system		ft
c	Total % of Collection System Assessed This Year **(a/b*100)**		%
d	Cumulative % Assessed in Previous Annual Report (see f of previous year report)		%
e	Cumulative % Assessed to Date **(c + d)**	0	%

NOTE:	**Inflow Estimate Tool**	https://moruralwater.org/water-tools-files/tool_wic.php
	Infiltration Estimate Tools	
	Circular Break	https://moruralwater.org/water-tools-files/tool_wwic1.php
	Circular Hole	https://moruralwater.org/water-tools-files/tool_wwic2.php
	Rectangular Break	https://moruralwater.org/water-tools-files/tool_wwic3.php

II. Significant Repairs, Replacements, Maintenance Activities, Expansions, Upgrades Accomplished This Year and Expenditures

		Additional Description (general location (if applicable), specific work done)	Estimated Staff Hours Expended	Total $ Value for Staff Hours Expended	Materials Purchased Cost	Contractor Cost	Total Cost
	Inflow and Infiltration Studies						$0
	Collection System Action Plan						$0
	Pipe Assessment						$0
	Pipe Repair and Replacement						$0
	Efforts to Limit Fats, Oils, Grease, Roots, Wet Wipes, Grit in Collection/Transmission System						$0
f						**TOTAL**	**$0**

III. Annual Expenditures Projected Last Year and Revenue Source

g	Total Expenditures Projected Last Year (see **h** of previous annual report)	
	Total Expenditures This Year (see **f** above)	$0
	% Difference in Expenditures **(f/g*100)**	
	Explanation of substantial increase or decrease from previous years projection	
	Revenue Source for Expenditures	

IV. Significant Repairs, Replacements, Maintenance Activities, Expansions, Upgrades with Projected Expenditures Planned for Next Year

		Additional Description (general location, if applicable, specific work done)	Estimated Staff Hours Expended	Total $ Value for Staff Hours Expended	Materials Purchased Cost	Contractor Cost	Total Cost
	Inflow and Infiltration Studies						$0
	Collection System Action Plan						$0
	Pipe Assessment						$0
	Pipe Repair and Replacement						$0
	Efforts to Limit Fats, Oils, Grease, Roots, Wet Wipes, Grit in Collection/Transmission System						$0
h						**TOTAL**	**$0**

V. New Satellite Collection Systems Added to System

Date Added	Identifier Number	Is Satellite System Under the Control of the City of Atlantic Beach Utilities?	Estimated Population Served

Note: A Satellite Collection System is a collection/transmission system owned or operated by an entity other than the entity that owns the wastewater treatment facility

VI. Additional Activities This Year for Prevention of Sanitary Sewer Overflows and Underground Pipe Leakages (e.g. public education campaigns, flood mitigation measures, stormwater control projects, etc.)

From: Hasher, Gabriela
To: SD_RAI_Response
Subject: FW: Useppa Island WWTP RFI
Date: Monday, August 18, 2025 8:54:19 AM
Attachments: USEPPA RAI RESPONSE.pdf
Solids manifest.pdf
FLA014494_Useppa Island_CSAP_POCP_2025.pdf

Please log this as the RAI response to FLA014494-008-DW3P.

Thank you!
Gabby

Gabriela Hasher
Florida Department of Environmental Protection
South District Office
Engineering Specialist III
Gabriela.Hasher@FloridaDEP.gov
Office: 239-344-5692

Please note my last name has changed from Canabal to Hasher. This change has affected my email address. Please update your records to reflect my new email. Thank you for your time and I apologize for any inconvenience.

From: Patrick Day <PDay@drmp.com>
Sent: Friday, August 15, 2025 4:26 PM
To: South District <SouthDistrict@dep.state.fl.us>
Cc: Hasher, Gabriela <Gabriela.Hasher@FloridaDEP.gov>; JR Hillier <jrhillier@useppa.com>
Subject: Useppa Island WWTP RFI

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Attached is the RAI Response along with attachments.

Regards,

Patrick Day, PE, BCEE
Utility Manager
Main: 239.206.5093 | Direct: 239.206.5093 | Cell: 239.357.7194
PDay@drmp.com

DRMP, Inc.
1715 Monroe Street, 5th Floor, Ft. Myers, FL 33901

Patrick Day, PE, BCEE
Utility Division Manager
Civil Services
Main: 239.206.5093 | Direct: 239.206.5444 | Cell: 239.357.7194
pday@drmp.com

8210 University Executive Park Drive Suite 220, Charlotte, NC 28262

FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Alexis A. Lambert
Secretary

South District
PO Box 2549
Fort Myers, FL 33902-2549
SouthDistrict@FloridaDEP.gov

REQUEST FOR ADDITIONAL INFORMATION

July 2, 2025

Useppa Island Utilities Company, Inc.
Donald Beckstead, President
P.O. Box 640
Bokeelia, Florida 33922
dbeckstead@useppa.com

Re: Request for Additional Information (RAI)
Lee County – Wastewater
Facility Name: Useppa Island WWTP
Site ID: FLA014494
DEP Application No.: FLA014494-008-DW3P

Dear Donald Beckstead,

Thank you for your application for permit renewal submitted on June 4, 2025 for the above referenced Facility. A review of your application and supporting documentation indicates the application is incomplete. Please provide the information listed below and refer to this RAI in your response. The response to this RAI must be signed, sealed, and dated by a registered Florida Professional Engineer.

1. Please provide a copy of the power outage contingency plan, including any updates or revisions. Additional information about the plan's requirements can be found here: https://floridadep.gov/water/domestic-wastewater/content/collectiontransmission-system-power-outage-contingency-plans
[62-600.705(1), F.A.C.]

2. Please submit an electronic summary of the collection system action plan, described in Rule 62-600.705, F.A.C. Additional information about the plan's requirements can be found here https://floridadep.gov/water/domestic-wastewater/content/collection-system-action-plans
[62-600.705(2), F.A.C.]

3. Exceedances were noted in the Discharge Monitoring Report from December 2024. Please specify how the facility is going to achieve compliance in the ground water compliance well with TDS, Arsenic, Chloride, Fecal Coliform, and Total Sulfate. Please identify the causes of the exceedance, the actions being taken to correct the problem, and the actions being taken to prevent the problems from recurring.
[62-600.735(4)(b), F.A.C.]

4. Please provide an updated groundwater monitoring plan depicting the locations of the groundwater monitoring wells. Please verify that the intermediate well is within the zone of discharge and that the compliance well is downgradient at the edge of the zone of discharge.
[62-520.600(6), F.A.C.]

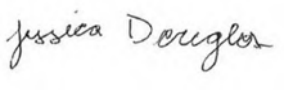
5. The last inspection report noted that there was a lack of records showing past hauling of biosolids. Please provide evidence, such as hauling receipts, showing when biosolids were last hauled from the facility.
[62-640.650(4), F.A.C.]

Attachment 4-1
Communication Date 07/02/25

To continue the processing of your application, the Department must receive a response within 90 days of this letter, unless a written request for additional time to provide the requested information is submitted and approved. It is the Department's desire to provide prompt turnaround times on permit applications, and a quicker response to this RAI shortens the timeframe for which a final decision on the application can be made. Pursuant to Rule 62-4.050, F.A.C. and Section 120.60, F.S., failure of an applicant to provide timely requested information by the applicant deadline may result in denial of the application. You are encouraged to contact this office to discuss the items requested to assist you in developing a complete and adequate response.

Your processor, Gabriela Hasher, can be contacted at (239)344-5692 or Gabriela.Hasher@FloridaDEP.gov. Please submit your response by email to SD_RAI_Response@FloridaDEP.gov, with a copy to Gabriela.Hasher@FloridaDEP.gov.

Sincerely,



Jessica Douglas
Environmental Administrator

cc:
Patrick J. Day, P.E., DRMP, Inc., pday@drmp.com

USEPPA ISALND WWTP
PERMIT RENEWAL APPLICATION
In Compliance with 62-600.735

Lee County

Facility identification # FLA014494

Prepared on Behalf of
CAPTIVA SHORES CONDO OWNERS ASSOC.

June 2025

Prepared by:

DRMP, INC
1404 Dean Street Suite 101
Fort Myers, FL 33901
(239) 206-5095

Attachment 4-1
Communication Date 06/04/25

Table of Contents

Section	Title
1	Form 1
2	Form 2A
3	Reports
	Operation and Maintenance Performance Report
	Updated Capacity Analysis
4	Exhibits
	Location Map
	Site Plan
	Process Flow Diagram
5	Engineering Data

SECTION 1

FORM 1

WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION FORM 1 GENERAL INFORMATION

I IDENTIFICATION NUMBER:

Facility ID FLA014494

II CHARACTERISTICS:

INSTRUCTIONS: Complete the questions below to determine whether you need to submit any permit application forms to the Department of Environmental Protection. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the blank in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements. See Section B of the instructions. See also, Section C of the instructions for definitions of the terms used here.

SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a domestic wastewater facility which results in a discharge to surface or ground waters?	X		X
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters?		X	
C. Does or will this facility (other than those describe in A. or B.) discharge process wastewater, or non-process wastewater regulated by effluent guidelines or new source performance standards, to surface waters?		X	
D. Does or will this facility (other than those described in A. or B.) discharge process wastewater to ground waters?		X	
E. Does or will this facility discharge non-process wastewater, not regulated by effluent guidelines or new source performance standards, to surface waters?		X	
F. Does or will this facility discharge non-process wastewater to ground waters?		X	
G. Does or will this facility discharge stormwater associated with industrial activity to surface waters?		X	
H. Is this facility a non-discharging/closed loop recycle system?		X	
I. Is this facility a public water system whose primary purpose is the production of potable water for public consumption and which discharges demineralization concentrate to surface water or groundwater?	X		

DEP Form 62-620.910(1)
(Effective July 7, 2006 Revised July 30, 2010)

III NAME OF FACILITY: (40 characters and spaces)

USEPPA WASTEWATER TREATMENT FACILITY

Facility ID FLA014494

IV FACILITY CONTACT: (A. 30 characters and spaces)

A. Name and Title (Last, first, & title)	B. Phone (area code & no.)
Dave Perry, maintenance	239 229-3727

V FACILITY MAILING ADDRESS: (A. 30 characters and spaces; B. 25 characters and spaces)

A. Street or P.O. Box: P.O. Box 640		
B. City or Town: Bokeelia	State: FL	Zip Code: 33922

VI FACILITY LOCATION: (A. 30 characters and spaces; B. 24 characters and spaces; C. 3 spaces (if known); D. 25 characters and spaces; E. 2 spaces; F. 9 spaces)

A. Street, Route or Other Specific Identifier: Useppa Island, FL		
B. County Name: Lee	C. County Code (if known):	
D. City or Town: Useppa Island	E. State: FL	F. Zip Code: 33950

VII SIC CODES: (4-digit, in order of priority)

1. Code #: 4952	(Specify) Wastewater	2. Code #: 9999	(Specify) Residential
3. Code #: 5812	(Specify) Restaurant	4. Code #: 7011	(Specify) Inn

VIII OPERATOR INFORMATION: (A. 40 characters and spaces; B. 1 character; C. 1 character (if other, specify); D. 12 characters; E. 30 characters and spaces; F. 25 characters and spaces; G. 2 characters; H. 9 characters)

A. Name: US Water Corp		B. Is the name in VIII A. the owner? ☐Yes ☒No	
C. Status of Operator: F = Federal; S = State; P = Private; O = Other; M = Public (other than F or S)	(code) P	(specify) Private	D. Phone No.: 239 543-2226
E. Street or P. O. Box: 9841 Bernwood Pl. Drive, Suite 120			
F. City or Town: Fort Myers		G. State: FL	H. Zip Code: 33966

IX INDIAN LAND: Is the facility located on Indian lands? ☐ Yes ☒ No

Facility ID FLA014494

X EXISTING ENVIRONMENTAL PERMITS:

A. NPDES Permit No.	B. UIC Permit No.	C. Other (specify)	D. Other (specify)

XI MAP: Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII NATURE OF BUSINESS (provide a brief description)

Provide water and wastewater treatment for Useppa Island.
Useppa Island is a private development of single family homes with on site-restaurant and small Inn.

XIII CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Donald Beckstead
A. Name (type or print)

B. Signature

President Useppa Utilities
Official Title (type or print)

6/2/25
C. Date Signed

SECTION 2

FORM 2A

WASTEWATER APPLICATION FORM 2A FOR A DOMESTIC WASTEWATER FACILITY PERMIT

Instructions for selected items are included in the "INSTRUCTIONS FOR FORM 2A". Refer to these instructions before filling out each item.

SECTION 1. APPLICANT AND FACILITY DESCRIPTION

1. Application Type

- ☐ New
- ☐ Substantial Modification
- ☒ Permit Renewal

2. Facility Type

- ☒ Wastewater Treatment
- ☐ Reuse or Disposal
- ☐ Limited Wet Weather Discharge
- ☐ Residuals/Septage Management

3. Treatment Facility Information

a. Name: Useppa Island Wastewater Treatment Facility

b. Facility Identification Number: FLA014494

c. Location

Number and Street: P.O. Box 640

City/State/Zip Code: Bokeelia, FL 33922

Telephone: 239 283-1061

Latitude: 26 ° 39 ' 43 "N

Longitude: 82 ° 12 ' 44 "W

Dates Coordinates Determined: 2/17/2020

Method Used to Obtain Coordinates: Google Earth

d. Ownership Type

- ☐ Municipal
- ☐ County
- ☐ State
- ☒ Private

e. Contact

Name	Dave Perry
Title	Maintenance Manager
Telephone	239 229-3727

f. Facility Mailing Address

Number and Street	P.O. Box 640
City/State/Zip Code	Bokeelia, FL 33922

g. Year Facility Began Operation

4. Applicant or Authorized Representative

Legal Name	Useppa Island Utilities Company, Inc.
Number and Street	P.O. Box 640
City/State/Zip Code	Bokeelia, FL 33922
Telephone	239 283-1061
Contact Person	Dave Perry
Title	Maintenance Manager
Telephone Number	23239 229 3727

Is the applicant the owner or operator (or both) of the facility? ☒ Owner ☐ Operator

Indicate whether correspondence regarding this facility should be directed to the facility or the applicant.
☒ Facility ☐ Applicant

5. Project Name and Description

Permit renewal for Useppa Island WWTP

6. Municipalities or Areas Served

Name of Municipality or Area	Ownership	Population Served
Useppa Island Club	Private	145 homes
	Total Population Served	145 homes

7. Reclaimed Water Reuse and Effluent Disposal

Method of Reuse or Disposal	Number of Reuse or Disposal Points	Total Design Capacity (mgd)	Basis of Design Flow
Surface Waters - Excluding Ocean Outfalls and Wetlands (Rule 62-600.510, F.A.C.)			
Ocean Outfalls (Rule 62-600.520, F.A.C.)			
Wetlands (Rule 62-600.620, F.A.C.)			
Reuse of Reclaimed Water and Land Application (Rule 62-600.530, F.A.C.)	2 Existing Percolation Ponds	.020 MGD	Max Monthly ADF
Ground Water Disposal by Underground Injection (Rule 62-600.540, F.A.C.)			
Other (Describe)			
Total	2	.020 MGD	MMADF

8. Flows to Another Wastewater Facility

a. Does the facility discharge or transport treated or untreated wastewater to another treatment facility?
☐ Yes ☒ No

b. If yes, describe the mean(s) by which the wastewater from the treatment facility is discharged or transported to the other treatment facility (e.g., collection/transmission system, reclaimed water distribution system)?

If transport is by a party other than the applicant, provide the following:
Transporter name: N/A
Mailing Address:

Contact person:
Title:
Telephone number:

c. For each treatment facility that receives this discharge, provide the following:
Name: N/A
Mailing Address:

Contact person:
Title:
Telephone number:

d. Facility Identification Number of Facility Which Receives the Flow: N/A

e. Average Daily Flow Rate to the Receiving Facility: N/A mgd

9. Residuals Use or Disposal

a. Amount of Residuals Generated by the Facility: 1.8 dry tons/year

b. Does this facility receive residuals from another facility for further treatment and disposal? ☐ Yes ☒ No

c. Method of Residuals Use or Disposal

Method	Number of Sites or Number of Receiving Facilities	Dry Tons Used or Disposed per Year
Land Application (Chapter 62-640, F.A.C.)		
Distribution and Marketing (Chapter 62-640, F.A.C.)		
Landfill Disposal (Chapter 62-701, F.A.C.)	1	6.0
Incineration (Chapter 62-200 Series, F.A.C.)		
Transport to Another Treatment Facility		
Other (Describe)		
	Total	6.0

d. If residuals are transported to another facility for landfill disposal, incineration, or treatment, provide the facility name, Facility identification number and address.

Name: Lee County Solid Waste Division / Hendry County
Facility Identification Number:
Number and Street:
City/State/Zip Code:
County:
Telephone:
Treatment Processes Used by Receiving Facility: Landfill Disposal

10. Permits and Applications

a. Expiration Date of Current NPDES Permit: N/A

b. Expiration Date of Current DEP Permit: August 20, 2025

c. Permit Number of Any Existing Environmental Permits

NPDES	N/A	PSD	N/A
UIC	N/A	Other	N/A
RCRA	N/A	Other	N/A

d. Orders and Notices

Type or Order or Notice	Issuing Agency	Date of Order or Notice
Notice or Violation		11/2019
Consent Order		
Administrative Order		
Other (Describe.)		

SECTION 2. TREATMENT FACILITY DESCRIPTION

1. Flow

a. Design Capacity

Current Design Capacity	.020	mgd
Proposed Incremental Design Capacity	+ 0	mgd
Proposed Total Design Capacity	= .020	mgd

b. Basis of Design Flow

- ☐ Annual Average Daily Flow
- ☒ Maximum Monthly Average Daily Flow
- ☐ Three-Month Average Daily Flow
- ☐ Other. If other, specify.

	Two Years Ago	Last Year	This Year	
c. Annual Average Daily Flow Rate	0.0123	0.0121	.0124	mgd
d. Maximum Daily Flow Rate	.0160	0.019	0.021	mgd

2. Design Treatment Levels

Parameter	Effluent Concentration	Units	Basis	Percent Removal
pH	6 - 8.5	Standard Units		
$CBOD_5$	20 / 30 / 45 / 70	mg/L	Annual / Monthly	Weekly / Single
TSS	5.0	mg/L	Single	
Cl	1.0	mg/L	Single	
Nitrogen / Nitrate	12.0	mg/L	Single	

3. Disinfection Level Provided

- ☐ Low-level
- ☐ Basic
- ☐ Intermediate
- ☒ High-level
- ☐ High-level Alternative

If the facility disinfects by chlorination and the discharge is to surface waters, is dechlorination provided? ☐ Yes ☐ No

4. Residuals Treatment

a. Class of Residuals

- ☐ Class AA (Rule 62-640.850, F.A.C.)
- ☐ Class A (Rule 62-640.600, F.A.C.)
- ☐ Class B (Rule 62-640.600, F.A.C.)
- ☒ Other

If other, describe

Dried on site and transported for landfill disposal

b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:

None

c. Which vector attraction reduction option is met for the sewage sludge at your facility?

- ☐ Option 1 (Minimum 38 percent reduction in volatile solids)
- ☐ Option 2 (Anaerobic process, with bench-scale demonstration)
- ☐ Option 3 (Aerobic process, with bench-scale demonstration)
- ☐ Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
- ☐ Option 5 (Aerobic processes plus raised temperature)
- ☐ Option 6 (Raise pH to 12 and retain at 11.5)
- ☐ Option 7 (75 percent solids with no unstabilized solids)
- ☐ Option 8 (90 percent solids with unstabilized solids)
- ☐ Option 9 (Injection below land surface)
- ☐ Option 10 (Incorporation into soil within 6 hours)
- ☐ Option 11 (Covering active sewage sludge unit daily)
- ☒ None or unknown

d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:

None

e. Parameter Concentrations

POLLUTANT	CONC.	UNITS
Total Nitrogen		% dry weight
Total Phosphorus		% dry weight
Total Potassium		% dry weight
Arsenic		mg/kg dry weight
Cadmium		mg/kg dry weight
Chromium		mg/kg dry weight
Copper		mg/kg dry weight
Lead		mg/kg dry weight
Mercury		mg/kg dry weight
Molybdenum		mg/kg dry weight
Nickel		mg/kg dry weight
Selenium		mg/kg dry weight
Zinc		mg/kg dry weight
pH		standard units
Total Solids		%
Other Parameters		

Date of Sample _____

5. Reliability Class

- ☐ Class I
- ☐ Class II
- ☒ Class III
- ☐ Other Equivalent Reliability

SECTION 3. B. REUSE AND LAND APPLICATION SYSTEMS

1. Reuse or Land Application System Serial Number and Name

Reuse or Land Application System Serial Number	R-001

2. Reuse or Land Application System Location

County	Lee					
City or Town (if applicable)	Useppa Island					
Street or Description						
Latitude	26	°	39	'	43	"N
Longitude	82	°	12	'	44	"W
Dates Coordinates Determined	2/17/2020					
Method Used to Obtain Coordinates	Google Earth					

3. Design Capacity of the Reuse or Land Application System

Current Design Capacity	.020	mgd
Proposed Incremental Design Capacity	+ 0	mgd
Proposed Total Design Capacity	= .020	mgd

4. Basis of Design Flow

- ☐ Annual Average Daily Flow
- ☒ Maximum Monthly Average Daily Flow
- ☐ Three-Month Average Daily Flow
- ☐ Other

If other, specify

5. Is land application continuous or intermittent? ☒ Continuous ☐ Intermittent

6. Underdrains and Perimeter Ditches

a. Is the reuse or land application system underdrained? ☐ Yes ☒ No

b. Are perimeter ditches used? ☐ Yes ☒ No

If yes, will they be excavated to a depth which will intersect the seasonal high ground water table or the ground water mound during any portion of the year? ☐ Yes ☐ No

7. Type of Reuse or Land Application System

- ☐ Slow-rate land application system/restricted public access (Chapter 62-610, F.A.C., Part II)
- ☐ Slow-rate land application system/public access areas, residential irrigation, and edible crop irrigation (Chapter 62-610, F.A.C., Part III)
- ☒ Rapid-rate land application system (Chapter 62-610, F.A.C., Part IV)
- ☐ Absorption field system (Chapter 62-610, F.A.C., Part V)
- ☐ Overland flow system (Chapter 62-610, F.A.C., Part VI)
- ☐ Other land application system with additional levels of preapplication treatment (Rule 62-610.660, F.A.C.)
- ☐ Other land application system with lower levels of preapplication treatment (Rule 62-610.670, F.A.C.)

8. Application Areas and Rates

Site/Use Type/Major User	Area (acres)	Rate (inches/week)	Capacity (mgd)
Perculation Ponds / Useppa Island	.40	10.96	.020
Total	.40	10.96	.020

9. Additional Information Required for Reuse Systems Permitted Under Part III of Chapter 62-610, F.A.C.

a. Areas Irrigated

- ☐ Residential lawns
- ☐ Golf courses
- ☐ Cemeteries
- ☐ Parks, playgrounds
- ☐ Landscape areas
- ☐ Highway medians, rights-of-way
- ☐ Edible crops
- ☐ Others

If other, specify _____

b. Other Uses of Reclaimed Water

- ☐ Toilet flushing
- ☐ Fire protection
- ☐ Construction dust control
- ☐ Aesthetic purposes (decorative ponds, fountains, etc.)
- ☐ Others

If other, specify. _____

c. How many hours per day, seven days per week, is or will an operator be on-site at the wastewater treatment facility? .5 hours per day

If the treatment facility is or will be staffed by an operator less than 24 hrs/day, describe the additional levels of reliability included within the treatment or reuse systems (See Rule 62-610.462, F.A.C.) Class 3 reliability

d. For permit renewals, list the dates on which the operating protocols (as described in Rule 62-610.463, F.A.C.) were submitted to the Department and the date of the Department's approvals during the last five years.

Date Submitted	Date Approved

e. For each site where edible crops are or will be irrigated with reclaimed water, describe the crops grown; the type of application system used; provisions for crop washing and for processing, if any; and provisions for control of public access, if any. (See Rule 62-610.475, F.A.C.)

SECTION 3. C. GROUND WATER DISPOSAL BY UNDERGROUND INJECTION

1. Underground Injection Well Facility Serial Number and Name

Underground Injection Well Facility Serial Number _____

2. Underground Injection Well Facility Location

County _____
City or Town (if applicable) _____
Street or Description _____

Latitude ° ' "N
Longitude ° ' "W
Dates Coordinates Determined _____
Method Used to Obtain Coordinates _____

3. Underground Injection Well Facility DEP Identification Number or Permit Application Number _____

4. Design Capacity of the Underground Injection Well Facility

Current Design Capacity _____ mgd
Proposed Incremental Design Capacity + _____ mgd
Proposed Total Design Capacity = _____ mgd

5. Basis of Design Flow

☐ Annual Average Daily Flow
☐ Maximum Monthly Average Daily Flow
☐ Three-Month Average Daily Flow
☐ Other

If other, specify.

6. Is injection continuous or intermittent? ☐ Continuous ☐ Intermittent

SECTION 4. SCHEDULED IMPROVEMENTS AND SCHEDULES OF IMPLEMENTATION

1. Improvements Required

a. Discharge Serial Numbers, Reclaimed Water Reuse or Land Application System Serial Numbers, and Underground Injection Well Facility Serial Numbers Affected _____

b. Authority Imposing Requirement

- ☐ Local
- ☐ State
- ☐ Federal
- ☐ Developed by Applicant
- ☐ Other

If other, specify. _____

2. Implementation Schedule and Actual Completion Dates

Implementation Steps	Schedule	Actual Completion
a. Preliminary Plans Complete		
b. Final Plans and Specifications Complete		
c. Financing Complete		
d. Site Acquired		
e. Begin Construction		
f. End Construction		
g. Begin Reuse or Disposal		
h. Operational Level Attained		

3. Have appropriate permits/clearances concerning other Federal/State requirements been obtained?

☐ Yes ☐ No

If so, describe briefly:

SECTION 6. ADDITIONAL INFORMATION REQUIRED FOR PERMIT RENEWALS

1. Have there been any modifications to the treatment facilities or reuse or disposal system, since the issuance of the current permit? If yes, describe on a separate sheet and attach. ☐ Yes ☐ No

2. For limited wet weather discharges, have any modifications been made to the operation, frequency of discharge, or stream hydrology since the original limited wet weather discharge permit or the most recent permit. If yes, describe on a separate sheet and attach. ☐ Yes ☐ No ☒ NA

3. Have there been any violations during the last six months? If yes, describe on a separate sheet and attach. ☐ Yes ☐ No

4. Have there been any treatment facility interferences due to the discharge of industrial wastewater to the treatment facility during the last six months? If yes, describe on a separate sheet and attach. ☐ Yes ☒ No

5. Is there any enforcement action pending against these treatment, reuse, or disposal facilities? If yes, describe on a separate sheet and attach. ☐ Yes ☐ No

6. Have all previous permit conditions, including pretreatment requirements, monitoring requirements, and operator attendance been complied with? If no, describe on a separate sheet and attach. ☐ Yes ☐ No

7. For permit renewals involving a limited wet weather discharge permitted under Rule 62-610.860, F.A.C., list the number of days during each of the last five years that the limited wet weather discharge was used. Also, list the total annual rainfall for each year.

Year	Number of Days Used	P (%)	Annual Rainfall (inches)
1.			
2.			
3.			
4.			
5.			
Total/Average			

8. For permit renewals involving a limited wet weather discharge permitted under Rule 62-610.860, F.A.C., provide the number of days during each of the last five years that the actual dilution ratio, as defined in Rule 62-610.860, F.A.C., was less than the minimum SDF and the number of months in which the monthly average $CBOD_5$ or TKN in the limited wet weather discharge exceeded the permit limitations.

Year	Number of Days the Dilution Ratio Was Less Than SDF	Number of Months the Limits Were Exceeded	
		$CBOD_5$	TKN
1.			
2.			
3.			
4.			
5.			

SECTION 8. DOCUMENTATION SUBMITTED

1. General Application Requirements	Attached Yes	Attached No
a. Process Flow Diagram	X	
b. Site Plan	X	
c. Location Map	X	
d. Agricultural Use Plan or Dedicated Site Plan		X
e. Capacity Analysis Report	X	
f. Results of Whole Effluent Biological Toxicity Testing		X
g. Reuse Feasibility Study		X
h. Binding Agreements and Documentation of Controls on Individual Users of Reclaimed Water		X

2. Additional Application Requirements for New Facilities and Modifications to Existing Facilities	Yes	No
a. Preliminary Design Report		X
b. Documentation of Compliance with Antidegradation Requirements		X
c. Public Service Commission Certification Number and Copy of Certificate or Order Number and Copy of Order		X
d. Letter from the Management and Storage of Surface Waters Permitting Agency		X
e. Request for Approval of Monitoring Plans for Discharge of Domestic Wastewater to Wetlands		X
f. Concurrent Application for Ground Water Disposal by Underground Injection		X
g. Application for Monitoring Plan Approval		X

3. Additional Application Requirements for Permit Renewals	Yes	No
a. Operation and Maintenance Performance Report	X	
b. Reclaimed Water or Effluent Analysis Report		X
c. Technical Evaluation of Need to Revise Local Pretreatment Limits		X
d. Results of Mechanical Integrity Testing		X

c. Professional Engineer Registered in Florida

I certify that this firm or individual has been retained by the applicant to prepare a notification of completion of construction, to prepare operation and maintenance manuals, and to review record drawings for adequacy as referenced in Rules 62-620.630, 62-600.717, and 62-600.720, F.A.C.

Name (please type):	Company Name:
Florida Registration Number:	Company Street Address or P O Box
Telephone No. (including area code)	City/State/Zip Code:
Email (optional)	
	(Seal, Signature, Date, Registration No.)

2. Certifications for Permit Renewals

a. Applicant or Authorized Representative

I certify that the statements made in this application for a permit and all attachments are true, correct and complete to the best of my knowledge and belief. I agree to operate and maintain these wastewater facilities in such a manner as to comply with the provisions of Chapter 403, F.S., Chapter 62-600, F.A.C., and all other applicable rules of the Department. Further, an appropriate operation and maintenance manual which has been examined by a professional engineer as certified below is available and located at In utility office and can be submitted upon request as part of the permit procedure. A copy of the record drawings or other plans (as applicable) showing modifications to existing acilities, as referenced in Rule 62-600.717, F.A.C., is available at the same location. I also understand that a permit if granted by the Department, is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C., and I will notify the Department in accordance with this rule upon sale or legal transfer of the permitted facilities. In the event of abandonment or inactivation of the facilities, I will notify the Department and ensure that public health and safety are protected as required by Rule 62-620.610, F.A.C.

(Signature of Applicant or Authorized Representative[2])	6/2/25 Date
Donald Beckstead Name (please type)	Useppa Island Utilities Company Name
President Title	P O Box 640 Company Street Address or P O Box
239 283-1061 Telephone No. (including area code)	Bokeelia, Florida 33922 City, State, Zip Code
Email (optional)	

[2] If signed by the authorized representative, attach a letter of authorization.

b. Professional Engineer

I certify that the engineering features of these domestic wastewater facilities have been examined by me and found to conform to engineering principles applicable to such projects. I certify that the operation and maintenance manual for these wastewater facilities has been prepared or examined by me or by individual(s) under my direct supervision and that there is reasonable assurance, in my professional judgement, that the facilities, when properly operated and maintained in accordance with this manual, will comply with all applicable statutes of the State of Florida and rules of the Department.

Mr. Patrick J. Day, P.E.	DRMP, Inc
Name (please type):	Company Name:
Florida Registration Number:	1404 Dean Street Suite 101
Telephone No. (including area code)	Company Street Address or P O Box
pday@drmp.com	Fort Myers, FL 33901
Email Address (optional):	City/State/Zip Code:
4/25	(Seal, Signature, Date, Registration No.)

SECTION 3

REPORTS

- Operation and Maintenance Performance Report
- Updated Capacity Analysis

OPERATION AND MAINTENANCE PERFORMANCE REPORT

In Compliance with 62-600.735

Useppa Island WWTP

in Lee County

Facility identification # FLA014494

Expiration date: August 20 , 2025
Inspection date: April 25, 2025

April 2025

Prepared by:
DRMP, Inc.
1404 Dean Street, Suite 101
Fort Myers, FL 33901
(239) 206-5093
COA # 2648

CERTIFICATIONS

PERMITEE:
I have reviewed and am fully aware of the recommendations and schedules in this report.

6/2/25

Owner's Representative Signature **Date**

Donald Beckstead
President Useppa Island
P O Box 640
Bokeelia, Florida 33922

ENGINEER:
The information contained in this report is true and correct to the best of my knowledge. The report was prepared in accordance with sound engineering principles, and I have discussed the recommendations and schedules with the permittee, and the lead operator. If the recommended schedules for corrective action are met, the facilities, when properly operated and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department.

PATRICK JOSEPH DAY LICENSE No. 56709 STATE OF FLORIDA PROFESSIONAL ENGINEER

6/4/25

Patrick Day, PE #56709 — Date:
DRMP, Inc.
1403 Dean St., Suite 101
Fort Myers, Florida 33901

OPERATOR:
I have reviewed and am fully aware of the recommendations and schedules included in this report.

06-04-2025

Operator's Signature — Date:

William J. Edwards — C-23930

Name (Printed or Typed) — State License #

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2. Physical Conditions

3. Treatment and Efficiency Evaluation

4. Performance Trends

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6. Collection System Evaluation

7. Problems, Deficiencies, and Corrective Actions

INTRODUCTION

Permitted Capacity

The Useppa Island Wastewater Treatment Plant has a permitted capacity of 0.020-MGD maximum monthly average daily (MMADF) using the extended aeration activated sludge process. The design capacity of the WWTP is 45,000 GPD based on a Three-month Average Daily flow (TMADF) but is limited due to the capacity of the percolation ponds.

Effluent Limitations for Reuse System R-01

Chlorine:	Must be greater than 1.0 mg/l after 15 minutes
BOD_5:	20 mg/l annual average
	30 mg/l monthly average
	45 mg/l weekly average
	60 mg/l single grab sample
TSS:	5-mg/l single grab sample
Fecal Coliform:	25 /100 ml for geometric mean of 3 samples per week
Nitrogen:	12-mg/l annual sample
Flow:	0.020 MGD based on an annual average flow

Facility Description

The wastewater facility at the Useppa Island WWTP is a modular concrete plant. The design capacity of the extended aeration activated sludge process plant is 0.020 GPD. The plant consists of the following components:

- Two 5,000-gallon surge tanks,
- Four 10,000-gallon aeration tanks,
- Two 7,000-gallon clarifiers,
- Three 5,000-gallon digesters,
- Single cloth disc sand filter,
- And two 1,125-gallon chlorine contact tanks.

Date Facility Placed in Service:

1979

Dates of Modification:

New sand filter 2023.

Department Recommended Corrective Actions for the past 5 Years:

The only deficiency in the past five years was the sand filters were not functioning. The sand filters were replaced in 2023 by a cloth disc filter.

PHYSICAL CONDITION

Hydraulic Loading

The 0.020 MGD permitted capacity of the Useppa Island WWTP serves 145 homes on Useppa Island. The disposal ponds limit the permitted capacity to 20,000 GPD based on the maximum monthly average daily flow (MMADF). The following graph depicts the MMADF's to the plant for the past five years.

Figure 1
Five Year MMADF

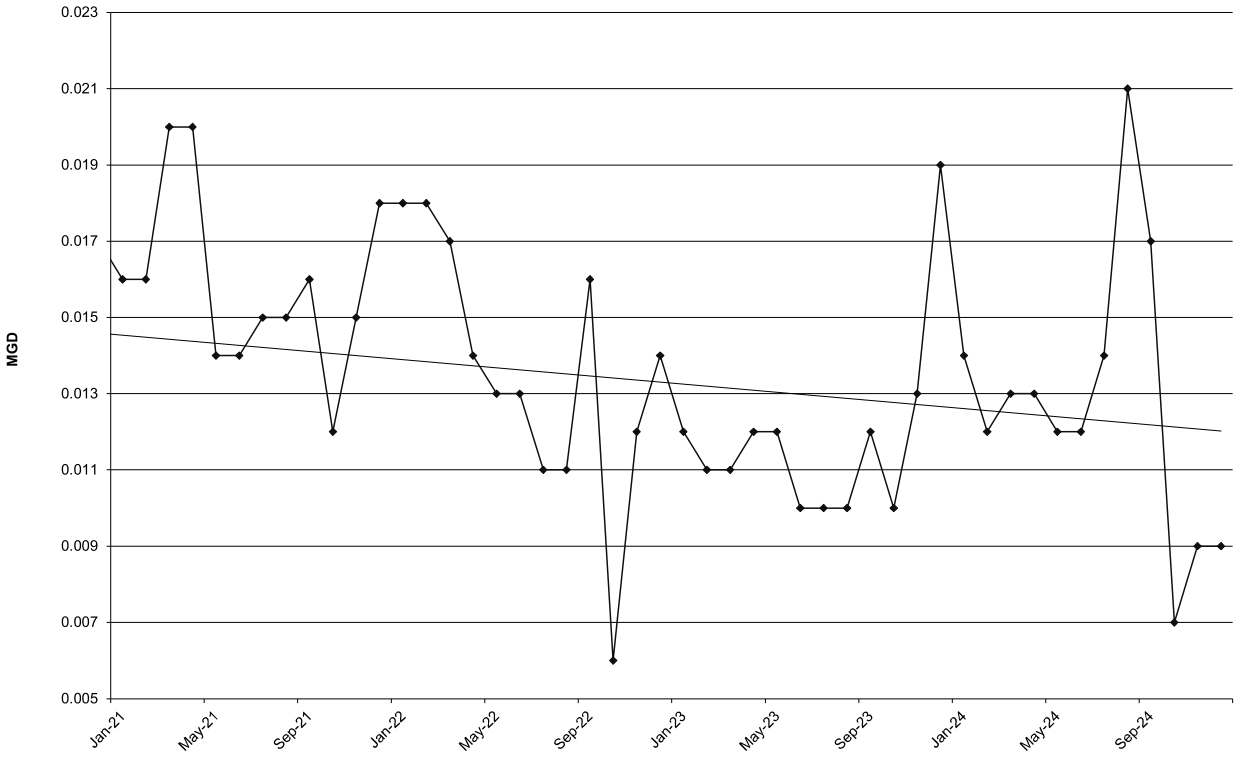

Figure 1 shows that the flow exceeded the FDEP permitted flow rate of 0.020 MGD in August of 2024 when the flow reached 0.021 MGD. This exceedance is of the reuse permitted capacity, not of the treatment plant. The [ponds did not overflow. This was a single occurrence and has not occurred since. The trendline shows that the flow rate to the plant has decreased during the past five years.

Table 1 depicts the Annual Average Daily Flow (AADF), the Maximum Three Month Average Daily Flow (TMADF)and Maximum Monthly Average Daily Flow (MMADF), As stated above, the Maximum Monthly Average Daily Flow for the past year exceeded the capacity of the percolation ponds, but the SSDF and he TMADF were within design parameters of both the WWTP and the percolation ponds.

Table 1
AADF, MMADF, and Highest TMADF

	AADF (MGD)	TMADF (GPD)	MMADF (GPD)
Past Year	0.012	0.017	0.021, Aug '24
Past 3 Years	0.012	0.017	0.021, Aug '24
Past 5 Years	0.014	0.019	0.021, Aug '24

The following graph depicts the monthly average daily flows to the plant for the past five (5) years:

Figure 2
Three Year Monthly Average Daily Flow

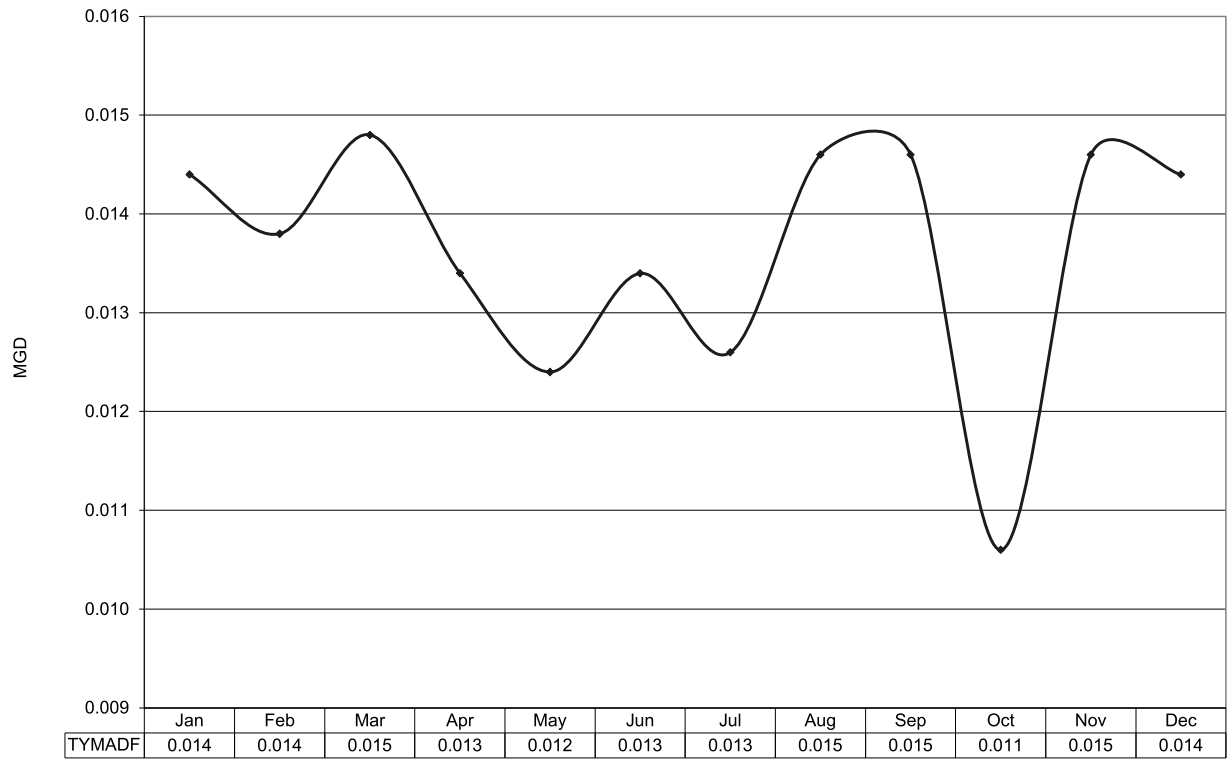

Figure 2 shows that there is inflow and infiltration during the rainy summer months. The utility has been making efforts to seal up leaky pipes and lift stations. This was progressing last year but then the Island was hit by two hurricanes which caused flooding on the Island. These efforts are continuing. as the highest flows occur during months where seasonal occupation is at its highest. The peak flow typically occurs during the seasonal months, specifically of the past 5 years in March. The WWTP is not hydraulically overloaded. The percolation ponds did not flood with the high flows in August during the rainy season. The ponds ae not hydraulically overloaded.

Organic Loading

The influent BOD_5 and TSS concentrations are typical for domestic wastewater treatment plants. The average concentrations for the past five years are shown in Table 2.

Table 2
Influent BOD_5 and TSS Concentrations

	BOD_5 (mg/l)	**TSS (mg/l)**
Past Year	149	71
Past 3 Years	127	87
Past 5 Years	109	104

The influent concentration of BOD_5 for the past five years was lower than typical domestic WWTPs and has decreased over the past five years. The TSS level is also well below typical domestic WWTP's.

Requirement Compliance

Rule 62-600.400 (1)(b): Reliability Standards – Plant meets reliability requirements.
Rule 62-600.400 (2)(a): Adverse Effects – Plant meets requirements.
Rule 62-600.400 (4)(a) & (4)(b): Sampling Points and Flow Measurement - Provisions for access points and for flow measuring have been made and are depicted on the flow diagram.

Continuing Operations

The plant is operating properly and appears that it will continue operating properly for the 5-year permit renewal period.

Safety Features

WWTP is located within a fenced area with a locked gate. At the time of this inspection a portion of the fence was down for repair. Audio and visual alarms are installed on the lift station and all other pumping control panels at the WWTP.

TREATMENT AND EFFICIENCY EVALUATION

Efficiency of each process and overall plant efficiency

Component Capacities

The capacities of the components of Useppa Island WWTP are as follows:

- Two 5,000-gallon surge tanks,
- Four 10,000-gallon aeration basins,
- Two 7,000-gallon clarifiers each with a surface area 78 SF, a 12-foot weir
- Three 5,000-gallon sludge holding tanks,
- Dual percolation ponds with a combined area of .2 acres,
- Clothe disc filter
- And two 1,125-gallon chlorine contact tanks.

Overall Treatment Efficiency

The overall treatment efficiency in removing TSS and BOD has been 96.9% and 97.5% respectively over the past five (5) years. The following table is a summary of the plant operating efficiency over that five-year period:

Table 3
Operating Efficiency over Past Five Years

Item	BOD_5	TSS
Influent (mg/L)	109	104
Effluent (mg/L)	2..99	2.87
Removal Efficiency (%)	97.5	96.9

With the replacement of the filter with the cloth disc filter, the effluent TSS is now in compliance and effluent BOD is also in compliance. The overall treatment efficiency should remain compliant over the next five years.

Preliminary Treatment

Splitter Box/ Bar Screen:

Both the bar screen and the splitter box were in good condition and clear of debris at the time of inspection.

Flow Equalization Tanks:

There are two surge tanks in good condition with no apparent leaks. There are two pumps in Surge Tank 2 and they pump into the splitter box which is on top of Aeration Basin 1. The surge tanks have a separate blower and aeration system. These blowers also provide air to the digesters.

Inspection Notes

- All blowers are working properly

Design Parameters:
The capacity of the surge tanks should be equal to 40% capacity of MMADF.
20,000 gallons x 0.4 = 8,000 gallons
Actual Values:
The volume of the surge tanks is 10,000 gallons.

Surge tanks meet the design parameters.

Recommendations for Additions and Improvements to the Flow Equalization Tanks and Splitter Box
None

Biological Treatment
Extended Aeration:
There are four 10,000-gallon aeration basins that provide 40,000 gallons per day of biological treatment. There are also dual blowers which are operational. Overall the tanks are in good condition.

Inspection Notes
- There tanks were in good shape with no apparent leaks.
- Both blowers were functioning and providing well dispersed air to the tanks.

Hydraulic Design Parameters: 24 hours detention time at design flow
Actual Values Based on Permitted Capacity:
40,000 gallons x 24 hours / 20,000 GPD = 48 hours

Organic Design Parameters: The five-year average BOD influent loading is 117.6 mg/L. The volume of aeration is 5,348 cubic feet.

The Ten States Standards permissible loading for influent BOD is 15 lbs. BOD / d / 1000 ft^3 of aeration volume.

Actual Value Based on Permitted Capacity:
0.020 MGD x 117.6 mg/L x 8.34 (lb – L / MGD – mg) = 19.6 lbs. BOD / day
19.6 lbs. BOD / day x 1000 ft^3 / 3342 ft^3 = 3.67 lbs BOD / day / 1000 ft^3

These are well within the design parameters.

Recommendations for Extended Aeration System
None

Sedimentation:
***Final*:** Final Sedimentation is provided by two 7,000-gallon clarifiers. The clarifiers and baffles were generally in good condition.

Design Parameters:
Surface Overflow Rate: Ten States Standards require <1,000 GPD/SF. The area of one clarifier is 78 square feet. For these calculations we will use one clarifier to meet redundancy rules.

Rate Based on Permitted Flow

Surface Overflow Rate: 20,000 ÷ 78 SF = 256.41 GPD/SF

Weir Loading Rate: Ten States Standards require < 20,000 GPD/LF at peak hourly flow. There is a single weir with a laying length of 8 feet each.

Rate Based on Permitted Flow

Surface Overflow Rate: 20,000 ÷ 8 SF = 2500 GPD/LF

Return sludge/ Waste sludge: The return sludge and waste sludge system are operating normally. The RAS and WAS lines are the same line and valves control whether the operator is returning sludge to the anoxic basin or wasting sludge to the digester.

Recommendations for Additions and Improvements to the Final Clarifier
None.

Disinfection:
To provide disinfection, a liquid sodium hypochlorite solution is added at the head of the chlorine contact chamber using Stenner pump to achieve high level (1.0 mg/L) disinfection. There are dual chlorine contact chambers that are operating in parallel. There are baffles in each tank. The tanks are in good shape.

Design parameters*:*
The design parameter for high level disinfection with a chlorine residual of 1.0 at 15 minutes of contact time at peak hourly flow. There are two chlorine contact tanks, each with a capacity of 1125 gallons. Currently the operator is using both chlorine chambers in parallel. The permitted capacity of the wastewater treatment facility is 20,000 GPD. Peak hourly flow is limited by the weir on the splitter box which allows the permitted capacity of 20,000 GPD or 13.9 GPM to the plant. The evaluation below uses only one CCC as the reliability standards require.

Value Based on Permitted Capacity:

1125 gallons ÷ 13.9 GPM = 81 minutes, which surpasses the design standards.

Recommendations for Additions and Improvements to the Disinfection System
None

Filtration:
There is a single cloth disk filter that was installed in 2023.

Design parameters:
The disc filter has a design capacity of 2.5 gpm/sf at peak hour flow and an effective submerged surface of 5.6 SF. Peak hourly flow is limited by the weir on the splitter box which allows 20,000 GPD to the plant or 13.9 GPM.

Value Based on Permitted Capacity:

13.9 GPM ÷ 2.5 SF = 5.56 SF, which is within the design standard.

Recommendations for Additions and Improvements to the Filters

None.

Residuals Treatment/ Handling

Aerobic Sludge Holding Tank: There are three 5,000-gallon aerated sludge holding tank for waste activated sludge. The blower serves both the digester and the surge tanks. There are no dead spots in the aeration system to the tank. The sludge holding tanks thicken and decant sludge before disposal. Sludge is then pumped over to a covered drying bed. After sufficient drying time the sludge is shoveled into bags and hauled to a permitted landfill for disposal.

Design Parameters:

3 CF Per Population Equivalent. (Ten States Standards). Using a flow rate of 100 GPD per population equivalent, a flow rate of 20,000 GPD has a population equivalent of 200. .

Volume of Digester Based on Permitted Capacity:

3 CF per PE x 200 PE = 600 CF

Volume provided

15,000 gallons ÷ 7.48 CF per gallon = 2005 CF.

Recommendations for Additions and Improvements to the Aerobic Digesters

None.

Reuse System

Percolation Ponds*:* The final effluent is discharged into one of two percolation fields with a total area of 17,000 square feet. The design capacity of these ponds is 20,000 GPD and this is the capacity limit of the overall wastewater treatment. There are signs around the ponds and they are not fenced.

Design Parameters:

The original design parameter for the drainfield was an absorption rate of 1.18 GPD/SF

Value Based on Permitted Capacity :

20,000 GPD ÷ 17,000 SF = 1.18 GPD/SF.

Recommendations for Additions and Improvements to the Reuse System

There was vegetation in one of the pond berms which needs to be removed.

Instrumentation & Monitoring Equipment

Flow Monitoring*:* Flow is measured from a flow meter. Calibration was recently completed and copy will follow.

Sampling Collection

Sampling Locations: Influent samples for BOD_5 and TSS are taken from the influent pipe

discharging into the first surge tank. Effluent samples for TSS, BOD_5, Fecal Coliform, Chlorine, and Nitrogen are taken at the effluent pump station prior to discharging to the ponds.

Miscellaneous:
Backflow Prevention Device: A backflow prevention device is installed and the certification is being renewed and a copy will follow.

PERFORMANCE TRENDS

Influent

Flows:

The MMADF for the past five years was 17,000 GPD. The population projections for the next five years are for the population to remain the same. Therefore, flows to the plant should remain at about the same levels and well within the permitted capacity of 20,000 GPD (MMADF) within the next five years.

BOD_5

The influent BOD_5 concentration has been 156 mg/L for the past five years. In 2019 the average was 97 mg/l which is very low for a domestic waste. The future BOD_5 loading is expected to remain within the same parameters.

TSS

The influent TSS concentration has been 97 mg/L for the past five years. In 2019 the annual average was 102 mg/L which is also very low for a domestic waste. The future BOD_5 loading is expected to remain within the same parameters.

Effluent

BOD_5

Effluent BOD_5 levels have remained constant over the past five years. The average effluent loading has been 3.05 mg/L for the past five years which is below the permitted limitations. The future Effluent BOD_5 concentrations are expected to be within the permitted limit.

TSS

Effluent TSS levels have progressively been recorded lower over the past five years. The average effluent concentration was 8.0 mg/l for the past five years which is above the permitted limitation. For the past two years TSS effluent level has been 3.8 mg/l. With the upgrade to the filter we expect the future TSS concentrations to be within the permitted limit.

Three-Month Average Daily Flows

The peak three-month average daily flow is 15,700 gallons per day over the period of the past five years. There is no anticipated change in the population over the next five years so the flow is expected to remain the same. The plant is expected to operate within the FDEP requirements for the next five-year renewal period.

OPERATION AND MAINTENANCE PROGRAM

Record Drawings
Unknown

Operation and Maintenance Manual
Kept in maintenance office at water plant.

Operation and Maintenance Log
Kept at the water plant building.

General
The plant operator is US Water, and the lab work is performed by Sanders Laboratories. The record keeping and sampling programs are adequate.

COLLECTION SYSTEM EVALUATION

Excessive Infiltration or Inflow
There is evidence of Infiltration or Inflow.

Septic Wastewater
The transmission system provides a timely delivery of the wastewater to the wastewater plant and septic wastewater is not an issue.

Industrial Contributions
There are no industrial contributors of wastewater

PROBLEMS AND DEFICIENCIES

Physical, capacity, performance and operation and maintenance problems:

1. There is some large vegetation growing in one of the pond berms.
2. There is I and I during the summer months
3. BFP and flow meter certifications were not up to date.
4. Power Outage Contingency Plan and a Collection System Action Plan have not been completed.

2

Corrective actions:

1. Remove the vegetation within six months of issuing the permit renewal.
2. Perform a I and I test on the collection system and initiate repairs within six months of issuance of the permit.
3. BFP and flow meter certifications will be submitted within 30 days of the issuance of permit.
4. Power Outage Contingency Plan and a Collection System Action Plan will be submitted within 60 days of the issuance of permit.

APPENDIX

UPDATED CAPACITY ANALYSIS

USEPPA ISLAND WWTP

in Lee County

Facility identification # FLA014494
Expiration date: August 20 , 2025

May 2025

Prepared by:

DRMP, Inc.
1404 Dean Street Suite 101
Fort Myers, FL 33901
(239) 206-5093
COA # 2648

CERTIFICATIONS

PERMITTEE:

I, Donald Beckstead, am fully aware of the contents of this report and believe it to be true and factual, to the best of my knowledge and that the Useppa Island Wastewater Treatment Plant receives only domestic wastewater.

6/2/25

Owner's Representative Signature Date

Donald Beckstead
President Useppa Island
P O Box 640
Bokeelia, Florida 33922

ENGINEER:

DRMP, Inc., hereby certifies that the information contained in this report is true and correct to the best of our knowledge and belief and was prepared with sound engineering principles.

PATRICK JOSEPH DAY No. 56709 STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER

6/4/2025

Patrick J. Day, P.E. Date
DRMP, Inc.
1404 Dean Street Suite 101
Fort Myers, Florida 33901

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4. Introduction

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    2. Monthly Average Flows, Three Month Average Daily Flows, and Annual Average Daily Flows

    3. Seasonal Variation Flow

    4. Updated Flow and Loading Information

6. Future Conditions

7. Summary and Conclusions

INTRODUCTION

The Useppa Island Wastewater Treatment Plant has a permitted capacity of 0.020-MGD maximum monthly average daily (MMADF) using the extended aeration activated sludge process. The design capacity of the WWTP is 45,000 GPD but is limited due to the capacity of the percolation ponds. The components that make up the facility are:

- Two 5,000-gallon surge tanks,
- Four 10,000-gallon aeration tanks,
- Two 7,000-gallon clarifiers,
- Three 5000-gallon digesters,
- A cloth disc filter,
- Two 1,125-gallon chlorine contact tanks,
- and two .40-acre percolation ponds

(See Flow Chart in O & M Report).

EXISTING CONDITIONS

PERMITTED CAPACITIES

The permitted capacity of the Useppa Island Wastewater Treatment Plant Process is 0.045 million gallons per day (MGD) based on the Three Month Average Daily Flow (TMADF). However, the facility is limited by the 0.020 MGD (MMADF)effluent disposal capacity of the percolation ponds.

MONTHLY AVERAGE DAILY FLOWS, THREE-MONTH AVERAGE DAILY FLOW, ANNUAL AVERAGE DAILY FLOW

Table 1 shows the monthly average daily flows as well as the annual average daily flows from January 2015 to December 2024. Table 2 contains the calculated three-month average daily flows and the peak three-month average daily flows. Monthly average daily flows, three-month average daily flows, and annual average daily flows are shown graphically in Chart 1.

Over the past five years, the monthly average daily flow has averaged 14,000 GPD and the peak three-month average daily flow was 18,700 GPD occurring in February of 2021. Flow is monitored from an in-line flow meter located on the discharge line of the effluent pump station.

SEASONAL VARIATION FLOW

Table 3 compares the peak three-month average daily flow to the annual average daily flow. The results indicate that flow rates are slightly higher during the seasonal months. The average ratio of peak three-month average daily flow to annual average daily flow is 1.204.

TABLE 1

USEPPA ISLAND WWTP

MONTHLY AVERAGE DAILY FLOW & ANNUAL AVERAGE DAILY FLOW

Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Monthly Average Daily Flow	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**
January	0.014	0.015	0.014	0.011	0.012	0.013	0.016	0.018	0.012	0.014
February	0.012	0.013	0.010	0.013	0.014	0.012	0.016	0.018	0.011	0.012
March	0.013	0.017	0.014	0.015	0.015	0.012	0.020	0.017	0.011	0.013
April	0.010	0.012	0.014	0.015	0.013	0.008	0.021	0.014	0.012	0.013
May	0.012	0.011	0.009	0.015	0.009	0.013	0.014	0.013	0.012	0.012
June	0.009	0.011	0.013	0.009	0.010	0.018	0.014	0.013	0.010	0.012
July	0.011	0.010	0.012	0.010	0.011	0.013	0.015	0.011	0.010	0.014
August	0.007	0.011	0.013	0.008	0.017	0.014	0.015	0.011	0.010	0.021
September	0.012	0.012	0.008	0.009	0.008	0.014	0.016	0.016	0.012	0.017
October	0.013	0.009	0.012	0.008	0.015	0.015	0.012	0.006	0.010	0.007
November	0.012	0.013	0.012	0.010	0.015	0.018	0.015	0.012	0.013	0.009
December	0.013	0.016	0.012	0.013	0.016	0.017	0.018	0.014	0.019	0.009
Annual Average Daily Flow	**0.011**	**0.012**	**0.012**	**0.011**	**0.013**	**0.014**	**0.016**	**0.014**	**0.012**	**0.013**

TABLE 2

USEPPA ISLAND WWTP

THREE-MONTH AVERAGE DAILY FLOW & PEAK THREE-MONTH AVERAGE DAILY FLOW

Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Monthly Average Daily Flow	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**	**MGD**
January	0.013	0.013	0.014	0.012	0.012	0.012	0.017	0.018	0.011	0.013
February	0.012	0.014	0.013	0.012	0.013	0.011	0.019	0.016	0.011	0.013
March	0.013	0.015	0.013	0.013	0.014	0.011	0.018	0.015	0.012	0.013
April	0.012	0.014	0.012	0.014	0.014	0.013	0.016	0.013	0.011	0.012
May	0.012	0.013	0.012	0.015	0.012	0.015	0.014	0.012	0.011	0.013
June	0.010	0.011	0.012	0.013	0.011	0.015	0.015	0.012	0.010	0.016
July	0.011	0.011	0.011	0.011	0.010	0.014	0.015	0.013	0.011	0.017
August	0.009	0.011	0.013	0.009	0.013	0.014	0.014	0.011	0.011	0.015
September	0.010	0.011	0.011	0.009	0.012	0.016	0.014	0.011	0.012	0.011
October	0.011	0.011	0.011	0.008	0.013	0.017	0.015	0.011	0.014	0.008
November	0.012	0.011	0.011	0.009	0.013	0.017	0.017	0.013	0.015	0.009
December	0.012	0.013	0.012	0.010	0.014	0.016	0.018	0.012	0.015	0.009
Peak Three Month Daily Flow	**0.013**	**0.015**	**0.014**	**0.015**	**0.014**	**0.017**	**0.019**	**0.018**	**0.015**	**0.017**

CHART 1
USEPPA ISLAND WWTP
OPERATING FLOW RATES

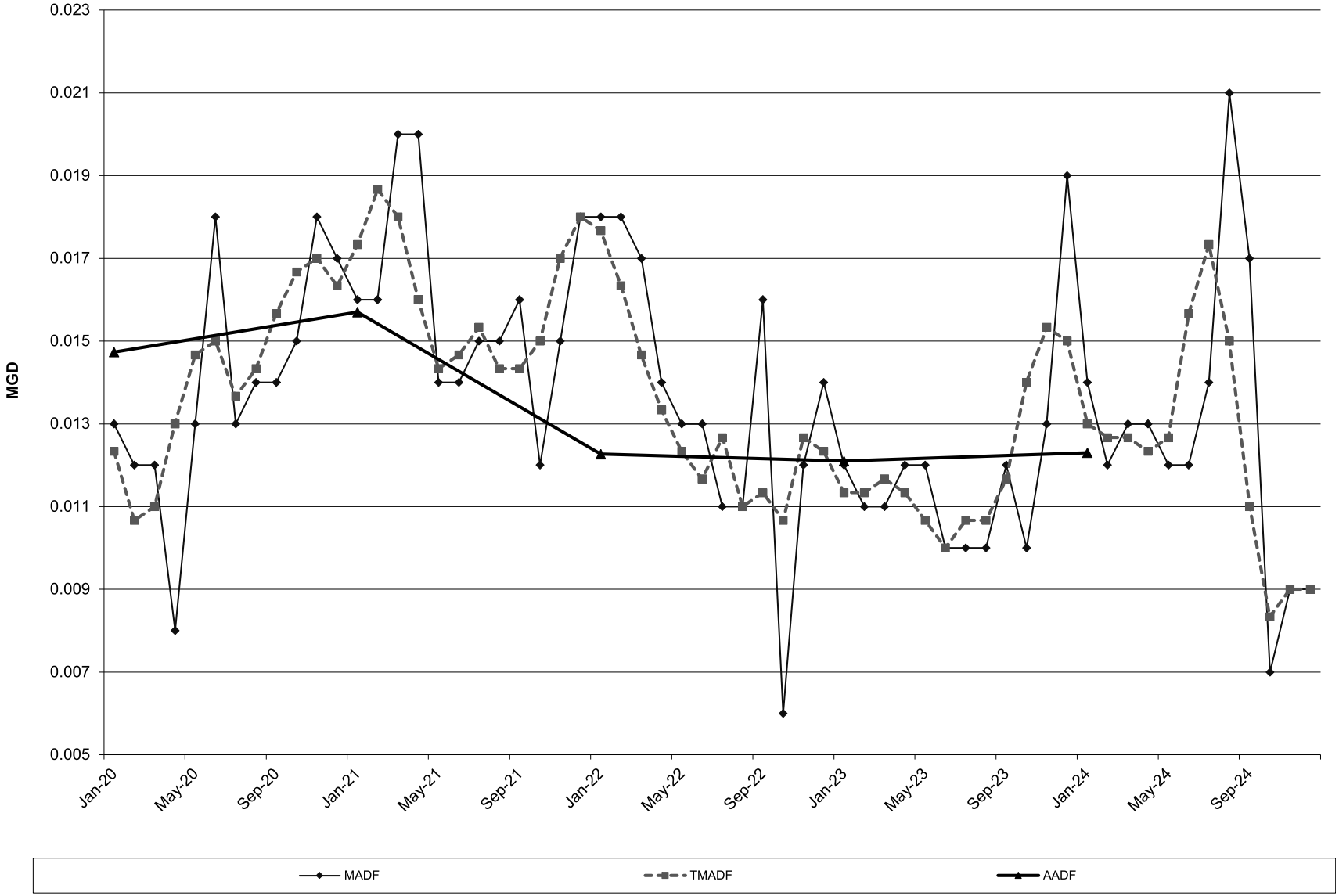


TABLE 3
SEASONAL VARIATIONS

Year	Peak Three-Month Average Daily Flow (MGD)	Annual Average Daily Flow (MGD)	Ratio
2015	0.013	0.011	1.123
2016	0.015	0.012	1.191
2017	0.014	0.012	1.184
2018	0.015	0.011	1.316
2019	0.014	0.013	1.088
2020	0.017	0.014	1.222
2021	0.019	0.016	1.188
2022	0.018	0.014	1.301
2023	0.015	0.012	1.202
2024	0.0173	0.013	1.211
Average			**1.204**

UPDATED FLOW AND LOADING INFORMATION

The table below compares the design loading to the actual loading for the last five years.

TABLE 4
DESIGN LOADING VS ACTUAL LOADING

Parameter	Annual Average Per Design	Past 5 Years Average
Flow (MGD)	0.020	0.014
Influent BOD_5 (mg/L)	200	117
Influent TSS (mg/L)	200	98

The flow is much less than the original design anticipated and the influent BOD_5 and influent TSS are below that of a typical domestic WWTP.

FUTURE CONDITIONS

POPULATION PROJECTIONS

There are currently 145 homes on Useppa Island and there are only five which are vacant lots.

FLOW PROJECTIONS

The MMADF for the past five years during peak season was 15,000 GPD. With 145 homes this averages out to 103 GPD per home. The addition of 5 homes at this rate would be 517 GPD additional gallons with a peak MADF equivalent of 15,517 GPD. At this full buildout the current WWTP should have no issues.

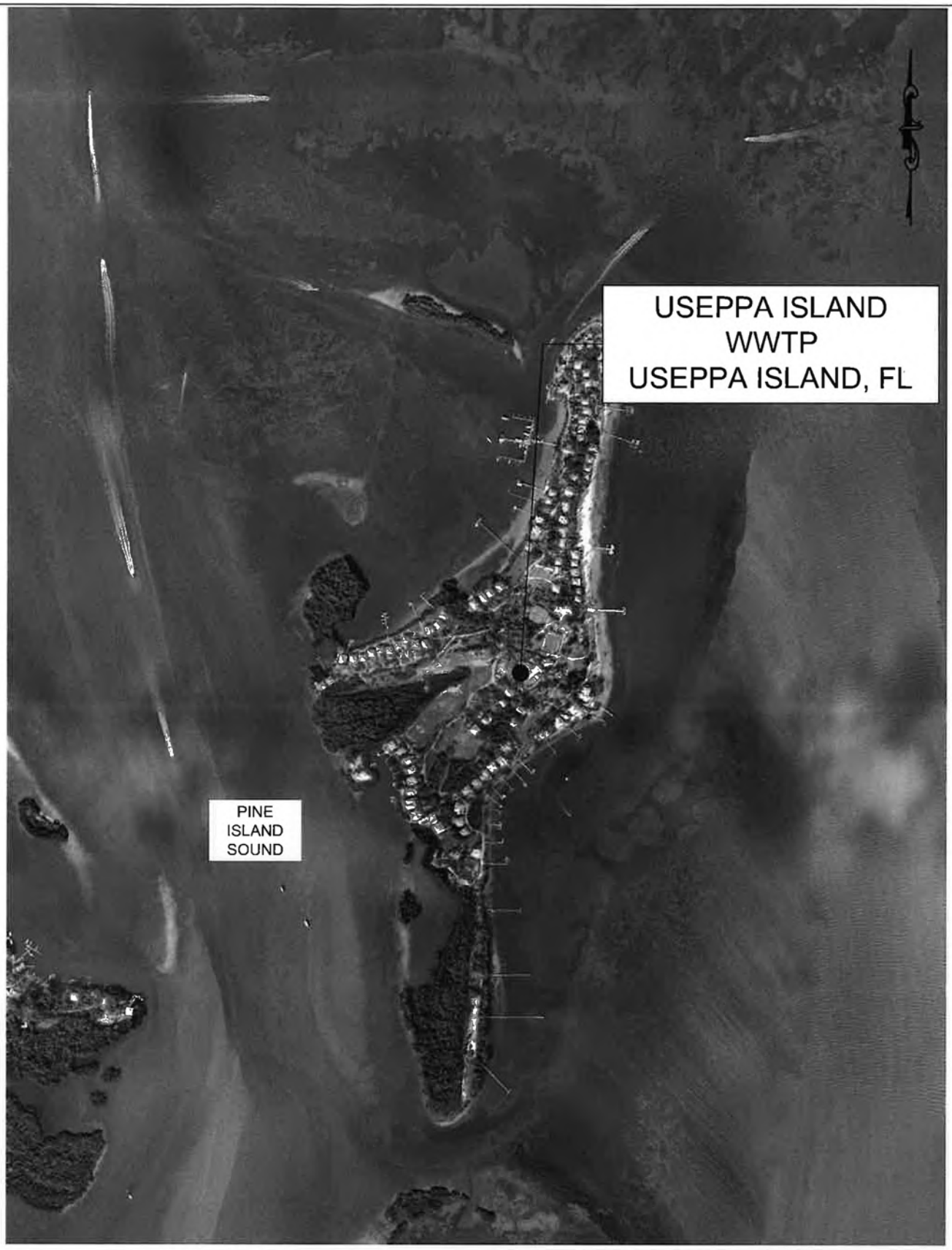
SUMMARY AND CONCLUSIONS

The existing Useppa Island WWTP currently operates at an peak season MDF of 15,000 GPD which is 75% of the permitted capacity. Flows are higher in the summer during the rainy season. Useppa Utilities is completing repairs on the lift stations and collection system so stop the I and I. With the data present, the effluent disposal capacity has more than enough capacity to meet all FDEP requirements in the foreseeable future.

SECTION 4

EXHIBITS

Exhibit 1	Location Map
Exhibit 2	Process Flow Diagram
Exhibit 3	Site Plan



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USEPPA ISLAND WWTP
LOCATION MAP
PROJ#25-0259

EXHIBIT
1

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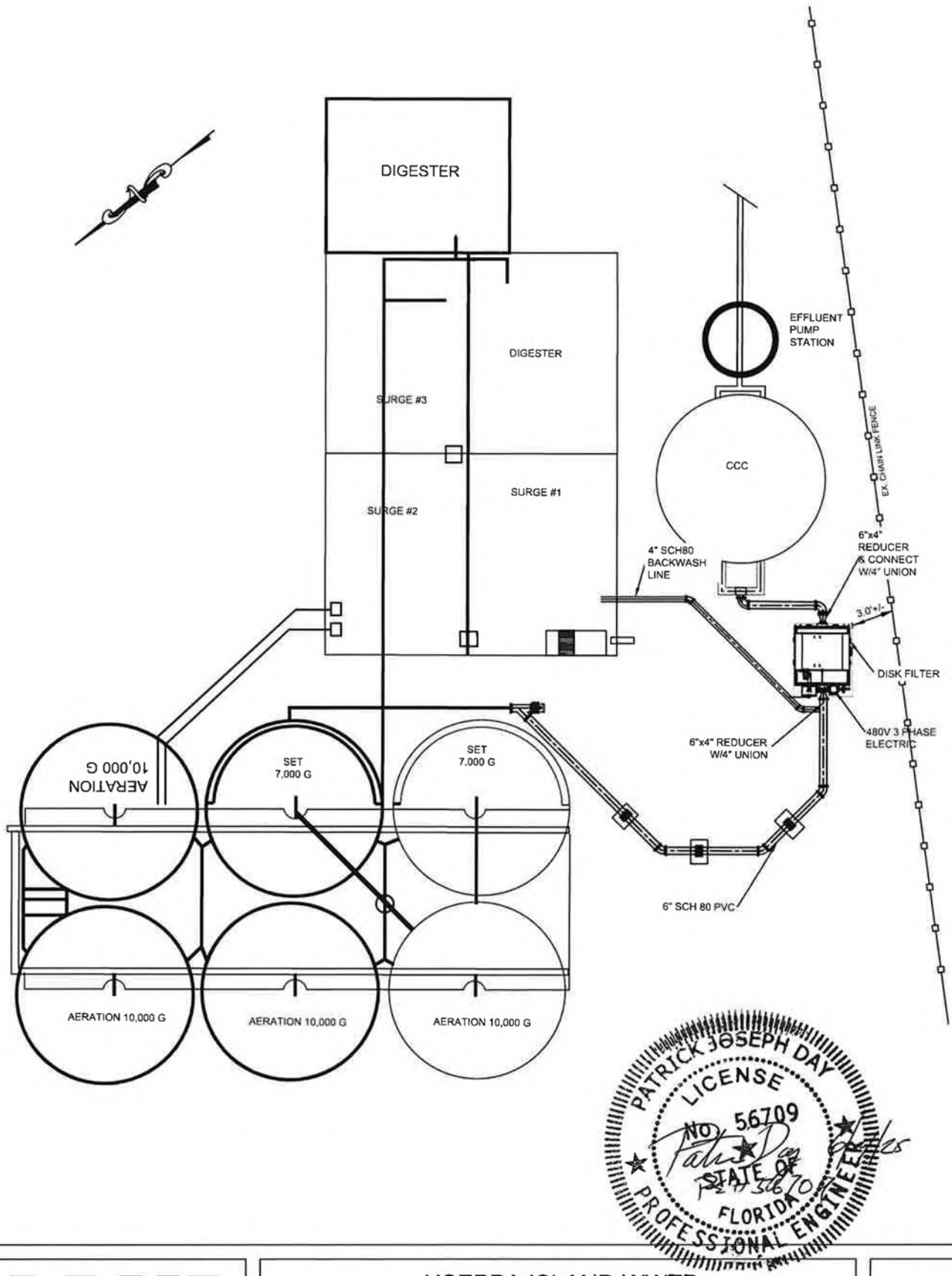

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USEPPA ISLAND WWTP
SITE PLAN
PROJ#25-0259

EXHIBIT 2

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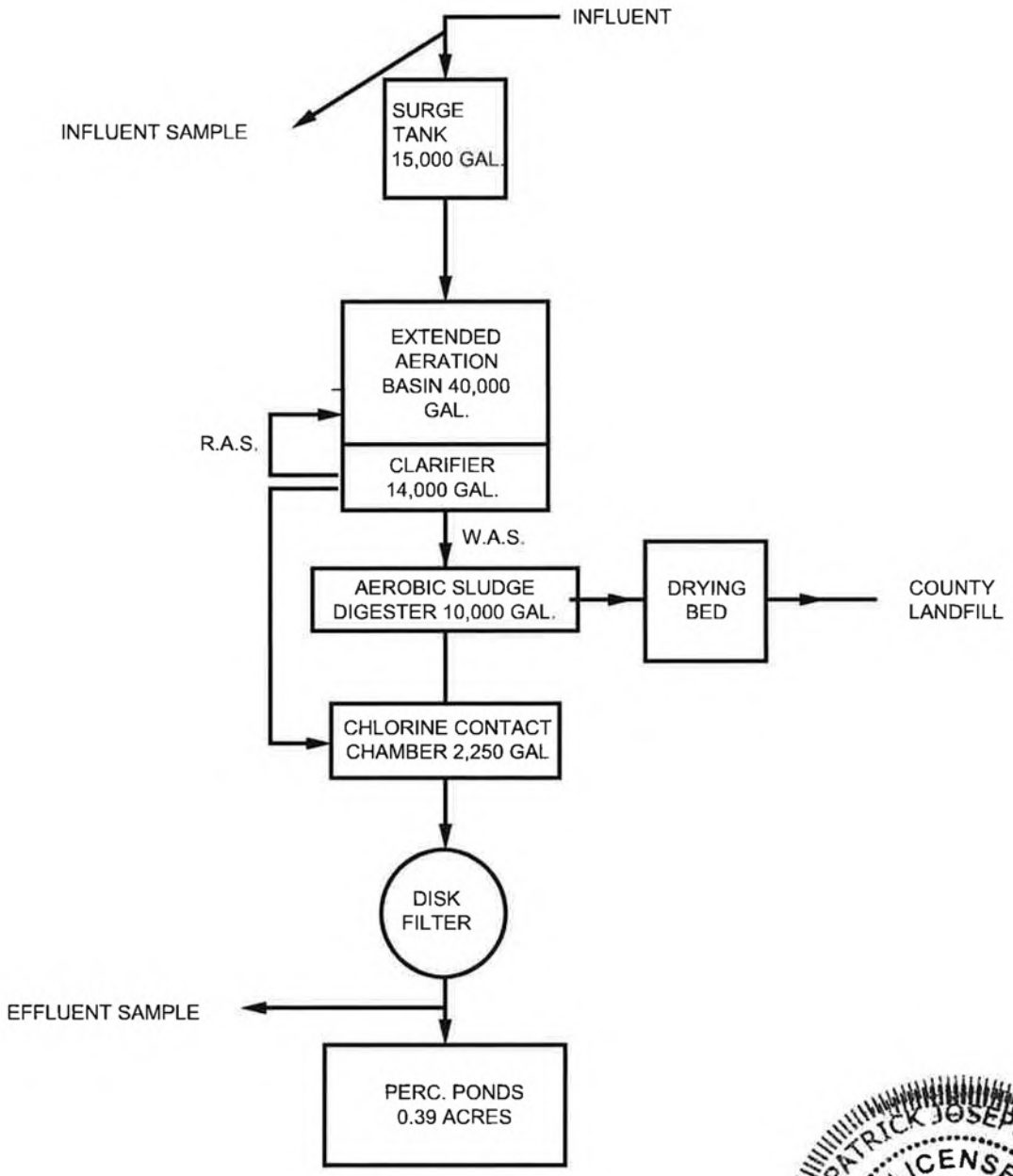

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USEPPA ISLAND WWTP
PROCESS FLOW DIAGRAM
PROJ#19-0751.000

EXHIBIT 3

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SECTION 5

ENGINEERING DATA

Useppa Island WWTP

Date	Eff BOD5 (mg/l)	Inf BOD5 (mg/l)	Eff TSS (mg/l)	Inf TSS (mg/l)	N (mg/l)	Max Day Flow (MGD)	Flow (MGD)	TMADF (MGD)	AADF (MGD)	Max Month (MGD)	Peak 3month (MGD)
Jan-15	3	204	25	103	3.32		0.0137				
Feb-15	5	313	15.6	248	4.33		0.0119				
Mar-15	ANC	ANC	9.7	ANC	0.63		0.0129	0.0128			
Apr-15	3	266	40.8	284	3.44		0.0103	0.0117			
May-15	2	368	29.1	81.2	2.93		0.0115	0.0116			
Jun-15	1	314	5.4	113	6.07		0.0089	0.0102			
Sep-15	3	252	10	16	0.74		0.0119	0.0122			
Oct-15	2	240	3.3	104	6.63		0.0128	0.0125			
Nov-15	2	147	2.4	48	7.1		0.012	0.0132			
Dec-15	5	380	1.7	208	1.66		0.0126	0.0135			
Jan-16	2	310	14.4	183	8.76		0.0151	0.0148			
Feb-16	2	219	3.5	139	2.56		0.0129	0.0139			
Mar-16	2	257	2.9	116	0.41		0.0165	0.0132			
Apr-16	2	255	1.3	100	2.35		0.0124	0.0114			
May-16	2	78	4.6	22	2.13		0.0108	0.0107			
Jun-16	4	101	4.3	42.8	3.13		0.0111	0.0106			
Jul-16	2	178	0.6	39.5	2.19		0.0102	0.0110			
Aug-16	2	84	0.9	25.5	3.52		0.0105	0.0107			
Sep-16	2	43	0.9	22.2	3.19		0.0124	0.0115			
Oct-16	2	95	2.4	31.5	8.73		0.0093	0.0125			
Nov-16	2	76	1.1	125	4.08		0.0127	0.0140			
Dec-16	2	120	5.4	77	6.26		0.0155	0.0132	0.0119	0.0155	0.0148
Jan-17	4	115	3.7	51.9	0.53		0.0139	0.0126			
Feb-17	2	310	1.1	149	5.72		0.0103	0.0124			
Mar-17	2	240	1	109	2.72		0.0135	0.0121			
Apr-17	2	227	2	130	1.75		0.0135	0.0119			
May-17	2	220	4.5	160	0.18		0.0093	0.0115			
Jun-17	2	120	2.6	81	2		0.013	0.0127			
Jul-17	2	64	1.1	59	4.7		0.0121	0.0109			
Aug-17	25.6	39	170	120	11		0.0129	0.0108			
Sep-17	2	190	6.5	5	15		0.0077	0.0106			
Oct-17	2	16	1.3	7	12.3		0.0117	0.0120			
Nov-17	2	155	2.2	71	3.43		0.0124	0.0118			
Dec-17	2	137	0.7	100	4.62		0.0119	0.0120	0.0116	0.0148	0.0127
Jan-18	2	369	18.5	73	3.32		0.0111	0.0129			
Feb-18	2	146	1.9	156	0.551		0.0129	0.0141			
Mar-18	2	79	1.9	70.7	1.9		0.0148	0.0147			
Apr-18	2	136	2.7	77	3.7		0.0147	0.0126			
May-18	3	131	3.8	74	2.31		0.0146	0.0109			
Jun-18	2	145	5.8	134	0.75		0.0085	0.0088			
Jul-18	2	183	1.9	122	1.26		0.0096	0.0090			
Aug-18	2	66	1.1	51	8.48		0.0083	0.0084			
Sep-18	2	92	1.8	36.1	3.96		0.0091	0.0090			
Oct-18	2	36	1.6	37	5.92		0.0078	0.0101			
Nov-18	2	72	2.6	64.4	14.2		0.0101	0.0116			
Dec-18	2	115	7.5	128	4.86		0.0125	0.0130	0.0108	0.015	0.0147
Jan-19	2	246	8.5	167	5.63		0.0122	0.0138			
Feb-19	2	79	1.5	202	3.57		0.0143	0.0141			
Mar-19	4	75	5.1	84	2.92		0.015	0.0123			
Apr-19	2	138	1.6	197	1.16		0.013	0.0107			
May-19	2	134	0.9	128	1.15		0.009	0.0100			

Useppa Island WWTP

Date	Eff BOD5 (mg/l)	Inf BOD5 (mg/l)	Eff TSS (mg/l)	Inf TSS (mg/l)	N (mg/l)	Max Day Flow (MGD)	Flow (MGD)	TMADF (MGD)	AADF (MGD)	Max Month (MGD)	Peak 3month (MGD)
Jun-19	2	57	0.7	80	5.08		0.01	0.0127			
Jul-19	2	45	2.7	76	2.52		0.011	0.0120			
Aug-19	2	49	7.6	36	5.11		0.017	0.0133			
Sep-19	1	121	1	59	2.67		0.008	0.0127			
Oct-19	2	30	4.1	37	6		0.015	0.0153			
Nov-19	2	98	3.2	57	1.03		0.015	0.0147			
Dec-19	2	87	5.6	92	2.49		0.016	0.0137	0.0127	0.017	0.0153
Jan-20	3	ANC	6.7	ANC	4.62		0.013	0.0123			
Feb-20	2	72	3.2	309	2.03		0.012	0.0107			
Mar-20	2	198	3.5	238	6.17		0.012	0.0110			
Apr-20	2	109	3.4	734	0.99		0.008	0.0130			
May-20	2	100	3.2	71	1.09		0.013	0.0147			
Jun-20	2	81	1.4	154	4.23		0.018	0.0150			
Jul-20	2	48	1	75	4.75		0.013	0.0137			
Aug-20	2	35	2.6	62.1	8.62		0.014	0.0143			
Sep-20	2	120	3	32.5	6.35		0.014	0.0157			
Oct-20	2	48	0.6	32	9.37		0.015	0.0167			
Nov-20	2	45	1.7	57	3.88		0.018	0.0170			
Dec-20	2	40	6.5	118	1.89		0.017	0.0163	0.0147	0.02	0.0170
Jan-21	2		11.2	128	7.24		0.016	0.0173			
Feb-21	2	109	1.3	96	5		0.016	0.0187			
Mar-21	2	46	1.3	71	1.63		0.02	0.0180			
Apr-21	2.03	103	1.2	30	0.1		0.02	0.0160			
May-21	3.33	140	1	115	2.04		0.014	0.0143			
Jun-21	2	185	2	88	2.1		0.014	0.0147			
Jul-21	2	146	4.2	31	6.49		0.015	0.0153			
Aug-21	2	160	0.8	25	9.54		0.015	0.0143			
Sep-21	2	77	1.2	31.3	3.04		0.016	0.0143			
Oct-21	2	115	2.6	51	4.84		0.012	0.0150			
Nov-21	5	116	2.2	44	6.2		0.015	0.0170			
Dec-21	6	119	3	59	7.76		0.018	0.0180	0.0157	0.02	0.0187
Jan-22	4	165	10.3	95	4.54		0.018	0.0177			
Feb-22	5	157	10.3	736	14.4		0.018	0.0163			
Mar-22	6	197	2.4	141	1.39		0.017	0.0147			
Apr-22	2	106	8.4	146	13.6		0.014	0.0133			
May-22	4	85	5.2	89.3	21.1		0.013	0.0123			
Jun-22	2	60	0.9	55.7	2		0.013	0.0117			
Jul-22	1	93	1.1	94	1.39		0.011	0.0127			
Aug-22	2	74	0.6	90	1.04		0.011	0.0110			
Sep-22	2	106	1	34	0.58		0.016	0.0113			
Oct-22							0.006	0.0107			
Nov-22	2	77	1.1	25	1.46		0.012	0.0127			
Dec-22	4	155	2.2	57	1.7		0.014	0.0123	0.0123	0.016	0.0177
Jan-23	6	124	2.6	79	0.86		0.012	0.0113			
Feb-23	2	95	1.5	52.9	6.31		0.011	0.0113			
Mar-23	2	192	3.6	75	3.69		0.011	0.0117			
Apr-23	3	120	2	96	2.79		0.012	0.0113			

Useppa Island WWTP

Date	Eff BOD5 (mg/l)	Inf BOD5 (mg/l)	Eff TSS (mg/l)	Inf TSS (mg/l)	N (mg/l)	Max Day Flow (MGD)	Flow (MGD)	TMADF (MGD)	AADF (MGD)	Max Month (MGD)	Peak 3month (MGD)
May-23	3	206	3	54.9	2.55		0.012	0.0107			
Jun-23	2	106	5.5	32	2		0.01	0.0100			
Jul-23	2	81	3.1	29	0.15		0.01	0.0107			
Aug-23	2	163	1.2	46	1.16		0.01	0.0107			
Sep-23	2	71	1.2	23	13.6		0.012	0.0117			
Oct-23	2	66	1.6	27	5.18		0.01	0.0140			
Nov-23	2	76	2.4	54	8.19		0.013	0.0153			
Dec-23	2	129	8.9	75	4.06		0.019	0.0150	0.0121	0.019	0.0153
Jan-24	2	115	4.6	67	1.08		0.014	0.0130			
Feb-24	5	203	1.2	149	2.3		0.012	0.0127			
Mar-24	7	139	1.8	113	0.21		0.013	0.0127			
Apr-24	7	118	1.3	130	0.04		0.013	0.0123			
May-24	2	214	1.4	78.8	0.04		0.012	0.0127			
Jun-24	9	171	2	92	0.03		0.012	0.0157			
Jul-24	5	206	1	40	0.88		0.014	0.0173			
Aug-24	4	48	1.4	19	4.61		0.021	0.0150			
Sep-24	2	121	1	31	1.37		0.017	0.0110			
Oct-24	2	228	2.3	48.1	4.94		0.007	0.0083			
Nov-24	9	106	5.8	22.6	18.9		0.009	0.0090			
Dec-24	2	104	1	60	2.89		0.009	0.0090	0.0124	0.021	0.0173
Jan-25	2	133	1	69.7	2.03		0.009	0.0090			
							AVG	AX TMAI	Max MADF		
Past year avg	4.667	149.250	1.767	71.100	3.187		0.012	0.0173	0.0124	0.0210	0.0173
3 year Avg.	3.371	127.000	2.731	86.629	4.243		0.012	0.0173	0.0124	0.0210	0.0177
5 year Avg.	2.989	117.621	2.847	97.947	4.380		0.014	0.0187	0.0157	0.0210	0.0187

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Alexis A. Lambert
Secretary

MEMO TO FILE

April 7, 2025

Useppa Island WWTP
Facility ID No.: FLA014494
Lee County

Subject: Sanitary Sewer Overflow/Unauthorized Discharge

The Department acknowledges that Useppa Island WWTP has reported a Sanitary Sewer overflow/Unauthorized Discharge of 15 gallons of raw wastewater during the Month of January, 2025. The Department acknowledges receipt of the necessary information related to the spill. The Department is not initiating formal enforcement proceedings at this time; however, this memorandum does not preclude the referenced spill(s) from further action in the future in accordance with Sections 403.121, 403.131, 403.141 and 403.161, Florida Statutes.

Jackson Verley
Environmental Consultant
South District

Attachment 4-1
Communication Date 04/07/25

FLORIDA DEPARTMENT OF Environmental Protection

South District
Post Office Box 2549
Fort Myers, FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Alexis A. Lambert
Secretary

February 5, 2025

Timothy Fitzsimmons, President
Useppa Island Utility Co.
PO Box 640
Bokeelia, FL 33922-0640
tfitz@comcast.net

Re: Warning Letter
Useppa Island WWTP
Facility ID No: FLA014494
Lee County – DW

Dear Mr. Fitzsimmons:

A Compliance Evaluation Inspection and a Sanitary Sewer Overflow Preventive Inspection were conducted for your facility on **January 6, 2025**. During these inspections, possible violations of Chapter 403, Florida Statutes, and Chapters 62-160, 62-520, 62-600, 62-604, 62-610, 62-620 and 62-640 of the Florida Administrative Code, were observed.

During these inspections, Department personnel noted the following:

- The Facility did not have a generator run log and a map of its collection system.
- A review of the discharge monitoring reports (DMRs) revealed deficiencies.
- The Facility failed to timely submit an Abnormal Event Report required by its permit.
- The Facility submitted the DMR for the RO Concentrate in August 2024 instead of the DMR for the wastewater plant.
- There were leaking cracks noted on the corner of the surge tank.
- Clarifier #2 was tilted and caused cracking and slanting of the concrete walkway above the aeration basins and clarifiers.
- The visual alarm was not functioning at the lift station by 312 Useppa Is.
- The security fence around the facility was not complete.
- The Facility's percolation ponds did not have complete fences providing adequate access control.
- The Facility's biosolids hauling history was unclear.
- A review of the Groundwater DMRs revealed exceedances.
- The groundwater monitoring wells did not meet DEP requirements.

Violations of Florida Statutes or administrative rules may result in liability for damages and restoration, and the judicial imposition of civil penalties, pursuant to Sections 403.121 and 403.161, Florida Statutes.

Attachment 4-1
Communication Date 02/05/25

Please contact **Alex McSurley at 239-344-5679 or Alexandria.McSurley@FloridaDEP.gov** within **15 days** of your receipt of this Warning Letter to arrange a meeting to discuss this matter. The Department is interested in receiving any facts you may have that will assist in determining whether any violations have occurred. Any document submittals can be made to our email mailbox at **SD-WWinspect@FloridaDEP.gov** or may be mailed to the above address. You may bring anyone with you to the meeting that you feel could help resolve this matter.

Please be advised that this Warning Letter is part of an agency investigation, preliminary to agency action in accordance with Section 120.57(5), Florida Statutes. We look forward to your cooperation in completing the investigation and resolving this matter.

Sincerely,

Elizabeth A. Sweigert
Director of District Management
South District Office
Florida Department of Environmental Protection

Enclosure: Inspection Report

ec: William Edwards (wjedwards@uswatercorp.net)
US Water (wastewater@uswatercorp.net)
Lina Quintero (lquintero@uswatercorp.net)
Natalie Harvey (nharvey@uswatercorp.net)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

WASTEWATER COMPLIANCE INSPECTION REPORT

Facility Details

Facility Name	Useppa Island WWTP			**WAFR ID**	FLA014494		
Physical Address	708 Useppa Is			**City, State, Zip**	Captiva, FL 33924		
County	Lee			**Facility Phone #**	239-283-1061		
Permit Issued:	8/21/2020			**Permit Expiration:**	8/20/2025		
Facility Type	Domestic Wastewater			**Is the Facility NPDES (Y/N)**	Yes		
Latitude	**Degrees °**	26	**Minutes ‘**	39	**Seconds “**	43.6898	
Longitude	**Degrees °**	-82	**Minutes ‘**	12	**Seconds “**	43.7503	

Inspection Details

Inspection Type	**Entry Date**	**Exit Date**
CEI	1/6/2025	1/6/2025
	Entry Time (HH:MM AM/PM)	**Exit Time (HH:MM AM/PM)**
SSOP	7:30 AM	11:00 AM

Samples Taken (Y/N)	No	**RQ#**	N/A	**QA Conducted (Y/N)**	No

Name(s) and Title of Field Representatives(s)	**Operator Certification**	**Email**	**Phone Number**
William Edwards	Class C WW - 0023930	wjedwards@uswatercorp.net	863-558-2327

Name(s) and address of Permittee / Designated Rep.	**Title**	**Email**	**Phone Number**
Timothy Fitzsimmons PO Box 640 Bokeelia, FL 33922-0640	President	Tfitz5@comcast.net	239-283-1061

Inspector Information

Name(s) and Signature(s) of Inspectors(s)	**District Office/Phone Number**	**Date**
Alex McSurley	SD / 239-344-5679	1/16/2025
Name and Signature of Reviewer	**District Office/Phone Number**	**Date**
Landon Reigelman	SD / 239-344-5633	2/5/2025

Facility Compliance Eval Areas

***IC** = In Compliance; **MC** = Minor Out of Compliance; **NC** = Out of Compliance; **SC** = Significant Out of Compliance; **NA** = Not Applicable; **NE** = Not Evaluated*

Significant Non-Compliance Criteria Should be Reviewed when Out of Compliance Ratings Are Given in Areas Marked by a “”*

Overall Compliance Determination	Significant Out of Compliance						
NC	*Permit	IC	Laboratory	NC	Facility Site Review	NC	*Effluent Quality
IC	*Compliance Schedules	IC	Sampling	IC	Flow Measurement	NC	*Effluent Disposal
NC	*Records & Reports	NC	Biosolids	SC	*Operation & Maintenance	SC	*Groundwater
NC	SSO Survey	NE	Other	NA	Nutrient Management Plan	NA	Access Control
NA	Site Restrictions & Setbacks	NA	Odor/Nuisance	NA	Site Monitoring	NA	MLPW Disposal
NA	Manure Solids						

Clear Report | **Hide/Unhide Placeholders** | **Generate Blank Rows (for field paper setup)** | **Generate Deficiency & Observation Rows** | **Finish Inspection Report Form**

Single Event Violations ("*" SNC SEVs)

Check for Yes	Evaluation Area	Description	Finding Description	Finding ID
☐	Permit	Effluent Violations - Unapproved Bypass	Wastewater was diverted from a portion of the treatment process without department approval.	UNBY
☐	*Permit	Permit Violations - Discharge Without a Valid Permit	The facility was operating without a permit or with an expired permit.	UPHI
☐	Permit	Permit Violations - Failure to Submit Timely Permit Renewal Application	The permittee failed to submit an application to renew the existing permit at least 180 days prior to expiration.	PFSA
☐	Laboratory	Management Practice Violations - Laboratory Not Certified	The laboratory was not certified by the National Environmental Laboratory Accreditation Conference (NELAC).	LNCE
☐	Sampling	Monitoring Violations - Analysis not Conducted	The facility failed to collect and/or analyze samples as required by permit or enforcement action.	ANCV
☐	Sampling	Monitoring Violations - Failure to Monitor for Toxicity Requirements	The facility failed to collect and/or analyze routine or follow-up toxicity samples.	FTOX
☐	Records and Reports	Management Practice Violations - Failure to Develop Adequate SPCC Plan	The facility failed to develop or maintain their Spill Prevention Control and Countermeasures (SPCC) plan.	FSPC
☒	Records and Reports	Management Practice Violations - Failure to Maintain Records	The facility failed to maintain records for the required retention period.	FMRR
☒	Records and Reports	Reporting Violations - Failure to Notify	The permittee failed to notify the department of any event or activity that requires notification as required by permit or rule.	RSWP
☒	Records and Reports	Reporting Violations - Failure to Submit DMRs	The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner.	FDMR
☒	Records and Reports	Reporting Violations - Failure to submit required report (non-DMR, non-pretreatment)	The facility failed to submit any report required by rule, permit, enforcement action or inspection activity except for DMRs.	FRPT
☐	Facility Site Review	Management Practice Violations - Improper Land Application (non-503, non-CAFO)	The land application system was not being maintained.	LASN
☐	Flow Measurement	Monitoring Violations - No Flow Measurement Device	The facility failed to install a flow measurement device, an approved flow measurement device, or a working flow measurement device.	NOFL
☐	Operation and Maintenance	Management Practice Violations - Improper Operation and Maintenance	The facility failed to follow their operation and maintenance plan/manual.	IONM
☐	Operation and Maintenance	Management Practice Violations - Inflow/Infiltration (I/I)	The facility had an inflow and infiltration problem causing collection system issues and/or operational issues.	ININ
☐	Operation and Maintenance	Management Practice Violations - No Licensed/Certified Operator	The facility was being operated without a certified operator or by an operator that is not licensed for the size of plant.	ONCO
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute toxicity has been documented through follow-up tests.	EATX
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent chronic toxicity has been documented through follow-up tests.	ECTX
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute or chronic toxicity has been documented in the effluent through the use of routine and follow-up tests.	ETOX
☐	Effluent Quality	Effluent Violations - Narrative Effluent Violation	The facility violated a permit or enforcement narrative effluent limit.	XNEV
☐	Effluent Quality	Effluent Violations - Reported Fish Kill	The facility had a discharge of wastewater that resulted in a fish kill.	XFSH
☐	Sanitary Sewer Overflow Survey	WW SSO - Discharge to Waters	A sewage spill from any components of a collection/transmission system or from a treatment plant reached surface waters including stormwater conveyance system or drainage ditch.	SSO1
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to Maintain Records or Meet Record Keeping Requirements	The facility failed to keep routine documentation and reporting records of spills, and/or operation and maintenance activities on the collection/transmission system.	SSO2
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to monitor	The facility failed to collect and/or analyze bacteriological samples for sewage spills that reached surface waters.	SSO3
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to report violation that may endanger public health 122.41(l)(7)	The facility failed to report a sewage spill within 24 hours of discovery.	SSO4
☒	Sanitary Sewer Overflow Survey	WW SSO - Improper Operation and Maintenance	The facility failed to perform routine preventative maintenance to keep the collection/transmission system in good working order.	SSO5
☒	Sanitary Sewer Overflow Survey	WW SSO - Overflow to Dry Land	A sewage spill from any part of a collection/transmission system or treatment plant that did not make it to surface waters, i.e., stormwater collection system, drainage ditch, stream, pond, or lake.	SSO6

Permit

Compliance Rating	Out of Compliance
Does this section apply to the facility?	(●) **Yes** ( ) **No**

Questions	
*Is the permit current?	**Yes**
Is a copy of the permit available onsite?	**Yes**
Is the facility operated in accordance with the permit?	**Yes**
*Was the facility constructed or modified with an appropriate or valid permit issued by the Department?	**Yes**
Has the facility submitted the permit renewal application 180 days prior to the expiration date?	**N/A**
If the permittee for the facility has changed did the department receive notification of this change?	**N/A**
If the permit is accompanied by a Consent Order or Administrative Order, are they abiding by the conditions of the order?	**N/A**
Is wastewater from a portion of the treatment process diverted with Department approval?	**N/A**
*Is the facility discharging to waters of the state with an appropriate FDEP permit?	**Yes**
*Was the facility free from unpermitted discharge, bypass, collection system, or residuals with a high potential for water quality or health impacts?	**No**
Is the facility free from any Permit violation not listed above that needs to be addressed?	**Yes**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "⍰"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:

*Was the facility free from unpermitted discharge, bypass, collection system, or residuals with a high potential for water quality or health impacts? [403.161(1)(b) F.S., 62-620.300 F.A.C., 62-604.130 F.A.C., 62-640.400 F.A.C.]	Deficiency: (Narrative) At the time of the inspection, there was a severe leak at the headworks of the plant. Water was escaping through a hole in the influent pipe, as well as through a deteriorated section of caulking around the base of the metal bar screen containment. Please refer to photos #33-34 in the Appendix.
	Corrective Action(s): (Narrative) Following the inspection, the Facility submitted photos, on January 9, 2025, demonstrating both areas contributing to the leak had been repaired. No further action is required. Corrective Action Correspondence: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357975.1]&[profile=Discovery_Compliance] Abnormal Event Report was submitted on January 15, 2025: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1365209.1]&[profile=Discovery_Compliance]

Observations:

Department records indicate that the current operating permit will expire on August 20, 2025. F.A.C. Rule 62-620.335 (1) states that a permittee shall submit an application to renew the existing permit at least 180 days before the expiration date of the existing permit. Timely and sufficient submittal of the renewal application and permit processing is important (and in your best interest) as it automatically extends the expiration date on the existing permit until the Department takes final action on the renewal application. A tardy application could result in non-compliance. Your renewal application and permit processing fee must be submitted no later than February 21, 2025.

Compliance Schedule

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	

Questions	
If the facility has a compliance schedule in a permit, Administrative Order or Enforcement Action, are they in compliance with the schedule?	**Yes**
*Are the Compliance Date(s), Construction Milestone(s), Enforcement Order Schedule(s) or Final Compliance Date started/completed within 90 days of the due date?	**Yes**
Has the facility completed construction and submitted a Notification of Completion of Construction for Wastewater Facilities or Activities (Form 62-620.910 (12)), if required?	**Yes**
Has the Notification of Availability of Record Drawings and Final Operation and Maintenance Manuals (Form 62-620.910 (13)) been submitted as required?	**N/A**
If the facility is under a Toxicity Corrective Action Plan, are they in compliance with the plan?	**N/A**
Is the facility free from any Compliance Schedule violation not listed above that needs to be addressed?	**N/A**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Observations:

A Permit Revision was issued on July 22, 2022 for the following modifications:

The following paragraph is added to the Wastewater treatment description on page 1:
The permittee is authorized to replace the existing sand filter with a new SuperDrum™ Filtration System, Model DF TDD-0802 disc filter. The new unit's dimensions are 5'-0 11/16" L x 3'-11" W x 4'-1 13/16" H. The specifications for this unit include a 5'-0"x 4'-0" filter slab, 0.8 m diameter filter drum, 10 µm filter pore size, a filter media consisting of Polyester Filter FRP Frame, a 4" inlet and outlet, and a peak design flow rate of 0.02 MGD.

Condition VI.4 has been added to read:
4. The disc filter shall not be put into operation until a notification of completion has been sent to the department for review.
[62-620.630 (2)]

Record Drawing for the New Filter submitted on November 6, 2023:
https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1238865.1]&[profile=Permitting_Authorization]
Notification of Completion of Construction For Wastewater Facilities or Activities Form submitted on November 3, 2023:
https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1238862.1]&[profile=Permitting_Authorization]
Disc Filter Installation Letter submitted on October 30, 2023:
https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1237393.1]&[profile=Discovery_Compliance]

Laboratory

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	

Questions	
Is there a current copy of the laboratory certification onsite?	**Yes**
If the facility has an onsite laboratory does it have a Florida Department of Health Environmental Laboratory Certification Program certification?	**N/A**
Facility DOH Certification #	N/A **N/A**
Contract Lab Name and DOH Certification #	Eurofins Orlando – E83018 **Yes**
Does the onsite laboratory use sample analysis methods prescribed in 40 CFR part 136 or a test method that has gone through the EPA alternative method approval process?	**N/A**
Does the facility have standard operating procedures that follow the methods set in 62-620.10 (18) F.A.C. including 40 CFR Part 136; including required instrumentation, glassware cleaning, reagent/standard use, and troubleshooting procedures?	**N/A**
Does the facility have a QA/QC program with a written QA/QC manual as required by 40 CFR 122.41 that is up to date and available for review?	**N/A**
Does the facility follow the procedures set in the QA/QC manual; including instrument calibration/maintenance, checks on standard solutions, sample analysis precision/accuracy limits on a prescribed bases and QC samples (duplicate, spiked, blank in at least 10%)?	**N/A**
Is the detailed record complete and available for review for each set of analyses performed including the order of calibration, QA/QC, bracketing, and samples analyzed?	**N/A**
Does the facility have QA/QC records on the reagent preparation, instrument calibration/maintenance, incubator temperature and purchase of laboratory supplies?	**N/A**
Does the facility's laboratory documentation of the sample results use qualifier codes when sample QA/QC fall outside acceptable precision and accuracy limits set in the QA/QC manual?	**N/A**
Does the facility's laboratory take and record corrective actions or trouble shooting steps when data falls out of the precision and accuracy limits?	**N/A**
Are records of standard(s) and reagent(s) preparation maintained at the laboratory?	**N/A**
Is the laboratory maintaining adequate records for reagent preparation(s)?	**N/A**
Does the laboratory have a system for uniformly recording, correcting, processing and reporting data; including formulas, significant figures, rounding rules, units, cross-checking calculations?	**N/A**
Is the facility's laboratory adequate for analyzing samples; including pure water, clean bench space for instrument use/storage free of contamination, necessary equipment, vibration free area, ventilation, humidity and temperature control?	**N/A**
Does the Laboratory meet NELAC and EPA standards including; dry and clean sample storage locations, sample custodian(s) to ensure upon receipt of samples, proper sample storage, preservation and custody documentation?	**N/A**
Does the facility use appropriate standards that are prepared in volumetric glassware, checked against reliable primary standards, labeled properly, stored in clean containers, and discarded when expired or degraded?	**N/A**
Does the facility's laboratory analyst(s) demonstrate competency and appropriate training; including ability to follow procedures, ability to meet precision and accuracy limits, knowledge of equipment and analytical methods.	**N/A**
If the facility test requires temperature measurement, is there a thermometer present that is routinely calibrated against NIST thermometer within calibration date range?	**N/A**
Is the sample refrigerator temperature correct to meet the preservation requirements for the samples stored within?	**N/A**
Is the facility free from any Laboratory violation not listed above that needs to be addressed?	**Yes**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "**"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Observations:
The Facility's contract laboratory certification will expire on June 30, 2025.

Sampling

Compliance Rating	In Compliance
Does this section apply to the facility?	(•) Yes ( ) No

Questions	
In facility logbooks or other documentation, are the daily records appropriately recorded, including composite sampler or other temperatures, and daily calibration of meters.	**Yes**
Does the facility maintain records of their daily calibration of their pH meter, Chlorine meter, Dissolved Oxygen meter?	**Yes**
Does the facility maintain records of their daily checks of their in-line meter(s) with their field meter(s)?	**N/A**
Do field sheets document that the collection and analysis of field tests were analyzed within the 15-minute holding time.	**N/A**
Are meters calibrated and sample analysis conducted at the facility done in accordance with DEP SOP and NELAC guidelines? (Calibration frequency and sample bracketing for pH, Total Residual Chlorine (TRC), Turbidity, DO)	**Yes**
Are all the primary and secondary standards used to calibrate and verify meters, used prior to expiration dates and verified against primary standards appropriate for pH, TRC, Turbidity, DO?	**Yes**
Are the inline meters reading within established limits compared to the bench meters? (TRC ≤ 20%, Turbidity ≤ 20%, pH 0.2 SU)	**N/A**
Were safe access points for obtaining representative influent/effluent samples available?	**Yes**
Are influent sampling points put prior to internal facility return lines including supernatant, filter backwash and return activated sludge (RAS)?	**Yes**
Are samples being collected and analyzed as required by the permit or enforcement action; including location, type (grab/composite), time, and frequency?	**Yes**
Are samples being collected in the proper containers, preserved and analyzed in appropriate hold times in accordance with 40 CFR Part 136, Table II?	**Yes**
If the facility has a composite sampler with cooling system at the influent/effluent sampling location is there a thermometer present in the sampler that is annually checked against NIST thermometers?	**N/A**
Is composite sampling being conducted appropriately; including purging, sampling velocity at least 2fps, clean tubing, individual sample volume of at least 100 mL, sample storage of <6°C preservation, hold times and representative samples?	**N/A**
Did the facility have their Chain of Custody records?	**Yes**
If sampling was conducted and observed during the inspection, did the sampling follow DEP SOP requirements?	**N/A**
Did the facility collect and/or analyze routine or follow-up toxicity samples as required by permit or enforcement action?	**N/A**
Is the facility free from any Sampling violation not listed above that needs to be addressed?	**Yes**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Observations:
Please refer to Table A in the Appendix for a list of the standards, buffers and reagents used at the facility.

Records and Reports

Compliance Rating	Out of Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Are the entries in the operator logbook clear, concise, informative and relevant?	**Yes**				
Was copy of the current O&M manual available at the time of the inspection?	**Yes**				
Is there a current operator license?	**Yes**				
Is there a current RPZ certification?	**Yes**				
Is there a copy of the current Operating Protocol for Part 3 Reuse?	**N/A**				
Does the facility have and maintain their Spill Prevention Control and Counter measurement (SPCC) Plan?	**N/A**				
Are all required documents and reports available at the plant well organized and complete?	**No**				
Does the facility maintain the records onsite for the required retention period?	**No**				
Discharge Monitoring Reports (DMRs) Review Period	12/1/2023 – 12/31/2024 **Yes**				
Are the discharge monitoring reports completed properly?	**No**				
Are the DMRs submitted on the proper form?	**Yes**				
Is an authorized representative signing the DMRs?	**Yes**				
Has the permittee submitted an annual Reclaimed Water and/or Effluent Analysis Report?	**N/A**				
Does the facility submit their monitoring results for Giardia and Cryptosporidium in a timely manner?	**N/A**				
A review of the last toxicity test did not reveal any deficiencies?	**N/A**				
Has the facility submitted all report(s) during the review period that are required by rule, permit, enforcement action or inspection activity, other than DMRs?	**No**				
*Has the facility timely submitted DMRs as required by rule, permit, or enforcement action? (If either reports are >30 days late meets SNC criteria)	**No**				
Has the facility submitted all final compliance schedule reports as required by rule, permit, or enforcement action?	**N/A**				
Has the permittee notified the Department of any event or activity that requires notification as required by permit or rule?	**No**				
*Are records or reports free from falsified data?	**Yes**				
Is the facility free from any Records and Reports violation not listed above that needs to be addressed?	**Yes**				

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:

Are all required documents and reports available at the plant well organized and complete? [62-4.160 F.A.C., 62-160.240 F.A.C., 62-160.340 F.A.C., 62-620.350 F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the following documents were not provided: • Generator Run Log • Collection System Operation and Maintenance Manual (O&M) • A Copy of the most recent Groundwater Monitoring Well Laboratory
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the Facility has implemented a generator run log. Following the inspection on January 14, 2025, the facility submitted a copy of the Collection System O&M. On January 19 and January 22, 2025, the facility submitted a copy of the most

	recent Groundwater Monitoring Well Laboratory Report. No further action is required for these items, but the generator run log must be provided. Corrective Action Correspondence for Collection System O&M: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357996.1]&[profile=Discovery_Compliance] Corrective Action Correspondence for December 2024 Groundwater Monitoring Wells Laboratory Report: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1360371.1]&[profile=Discovery_Compliance] https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1360770.1]&[profile=Discovery_Compliance]
The facility failed to maintain records for the required retention period. [62-620.350 (2) F.A.C., FMRR]	Deficiency: (Narrative) At the time of the inspection, the following documents were not provided: • Generator Run Log • Collection System Operation and Maintenance Manual (O&M) • A Copy of the most recent Groundwater Monitoring Well Laboratory
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the Facility has implemented a generator run log. Following the inspection on January 14, 2025, the facility submitted a copy of the Collection System O&M. On January 19 and January 22, 2025, the facility submitted a copy of the most recent Groundwater Monitoring Well Laboratory Report. No further action is required for these items, but the generator run log must be provided. Corrective Action Correspondence for Collection System O&M: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357996.1]&[profile=Discovery_Compliance] Corrective Action Correspondence for December 2024 Groundwater Monitoring Wells Laboratory Report: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1360371.1]&[profile=Discovery_Compliance] https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1360770.1]&[profile=Discovery_Compliance]
Are the discharge monitoring reports completed properly? [403.161(1)(b) F.S., 62-600.680 F.A.C.]	Deficiency: (Narrative) A review of the DMRs revealed deficiencies. Please refer to Table C in the Appendix for additional details.
	Corrective Action(s): (Narrative) Please correct and resubmit the DMRs with noted transcription and reporting errors.
The facility failed to submit any report required by rule, permit, enforcement action or inspection activity except for DMRs. [62-610.870 (3) F.A.C., 62-610.865 (11) F.A.C., 62-600.405	Deficiency: (Narrative) At the time of the inspection, there was a severe leak at the headworks of the plant. Water was escaping through a hole in the influent pipe, as well as through a deteriorated section of caulking around the base of the metal bar screen containment. The Abnormal Event Report for this spill was not received within five days of the incident as required.
	Corrective Action(s): (Narrative) The Abnormal Event Report for this incident was received on January 15, 2025, nine days after the spill occurred. Please ensure that, going forward, any abnormal event is reported to the Department within 24 hours, and the written report is submitted within five days.

F.A.C., 403.161(1)(b) F.S., FRPT]	Abnormal Event Report was submitted on January 15, 2025: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1365209.1]&[profile=Discovery_Compliance]
The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner. [403.161(1)(b)) F.S., 62-600.680 F.A.C., 62-620.610 (18)(a) F.A.C., FDMR]	Deficiency: (Narrative) A review of the DMRs revealed that the Part B form submitted for August 2024 was for the wrong facility. The Part B form for the RO Concentrate Disposal Facility was submitted for the wastewater treatment plant by mistake. Please see Table G in the Appendix.
	Corrective Action(s): (Narrative) Please correct and resubmit the Part B form for August 2024.
The permittee failed to notify the department of any event or activity that requires notification as required by permit or rule. [403.161(1)(b) F.S., 62-4.130 F.A.C., RSWP]	Deficiency: (Narrative) At the time of the inspection, there was a severe leak at the headworks of the plant. Water was escaping through a hole in the influent pipe, as well as through a deteriorated section of caulking around the base of the metal bar screen containment. The Abnormal Event Report for this spill was not received within five days of the incident as required.
	Corrective Action(s): (Narrative) The Abnormal Event Report for this incident was received on January 15, 2025, nine days after the spill occurred. Please ensure that, going forward, any abnormal event is reported to the Department within 24 hours, and the written report is submitted within five days. Abnormal Event Report was submitted on January 15, 2025: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1365209.1]&[profile=Discovery_Compliance]
Observations:	
Please refer to Table B in the Appendix for details regarding Operator's licenses.	

Facility Site Review

Compliance Rating	Out of Compliance			
Does this section apply to the facility?	◉	**Yes**	○	**No**
Questions				
The headworks was free from excessive corrosion.	**Yes**			
The headwork is free from evidence of recent overflows.	**No**			
Is the odor control system operational at the headworks?	**N/A**			
Is the comminutor operational at the headworks?	**N/A**			
Is the grit separator operational at the headworks?	**N/A**			
Is the bar screen cleaned on a routine basis?	**Yes**			
Is the mechanical bar screen functioning as intended?	**N/A**			
Are screenings and grit being collected from the headworks in suitable containers?	**Yes**			
Rags, grit and/or screening are being disposed of properly.	**Yes**			
Are screenings and grit from the headworks being disposed at a Class I Landfill?	**Yes**			
Are records of the disposal of the screenings and grit collected at the headworks available?	**N/A**			
The leachate from the screening dumpster(s) is piped to the headworks and not onto the ground.	**N/A**			
Is the clarifier free from solids discharging over the weir(s)?	**Yes**			
Is the clarifier free from excessive sand and/or grit accumulation?	**Yes**			

Is the clarifier free from excessive scum, algae and/or trash overflowing the weir?	**Yes**
Does the skimmer appear to be functional in the clarifier?	**Yes**
Is the sludge collector and pump functional in the clarifier?	**Yes**
Are the clarifier weir(s) level?	**Yes**
Is the clarifier free from short circuiting with loss over the weir?	**Yes**
Are the aeration basins diffusers free from clogs and providing adequate mixing?	**Yes**
Was the time clock or manual controls for the aeration system operational at the time of the inspection?	**Yes**
Is the RAS line properly located?	**Yes**
The RAS line was free from excessive splashing that could cause solids to be discharged outside the tank.	**Yes**
The mixed liquor (MLSS) in the oxidation ditch was appropriately colored with no black coloring.	**N/A**
Is even distribution of air observed in the aeration basin?	**Yes**
Are the air line(s) to the aeration basin(s) free from leaks?	**Yes**
The brushes and paddles in the oxidation ditch were all in good working order.	**N/A**
Is the velocity in the oxidation ditch sufficient to prevent settling of solids?	**N/A**
Are dual blower motors present as required by rule?	**Yes**
Are the blower motors equipped with belt guards?	**Yes**
The blower motors are free from excessive noise.	**Yes**
Are all the blower motors present and operational at the time of the inspection?	**Yes**
Are spare parts and a second standby blower motors stored onsite?	**Yes**
Is the electrical box wiring for the blower motors adequately protected?	**Yes**
Were the tank contents in the aerobic digester(s) well mixed?	**Yes**
Are the digester(s) free from excessive odors and/or foaming?	**Yes**
Is the digester at the appropriate operational capacity?	**Yes**
Are there two functioning pumps in the surge tank(s)?	**Yes**
What was the biomass color of the trickling filter at the time of the inspection?	N/A **N/A**
Is trickling filter media free from excessive ponding?	**N/A**
Are center columns and distribution arms of the trickling filter free from leaks?	**N/A**
Are the distribution arm orifices free from clogs, trash and/or scum resulting in uneven distribution of flow on the trickling filter media?	**N/A**
Is the RBC free from black biomass indicating solids and/or BOD loading?	**N/A**
Is the RBC free from white biomass indicating the presence of bacteria, which feed on sulfur compounds?	**N/A**
Is the RBC free from excessive grinding/whining noise(s) from the motor, drive shaft, and bearings?	**N/A**
Are all RBC rotating disks and/or paddles present and in good working?	**N/A**
Is the RBC unit drive shaft free from excessive vibration?	**N/A**
Are all the aerators in the lagoon operational at the time of the inspection?	**N/A**
Is the base of the lagoon free from lateral seepage at the time of the inspection?	**N/A**
Does the treatment lagoon have adequate freeboard space?	**N/A**
Is the treatment lagoon properly secured to prevent unauthorized access?	**N/A**
Is the treatment lagoon free from excessive foaming?	**N/A**
Are the treatment lagoon berms properly stabilized?	**N/A**
Is the Chlorine Contact Chamber (CCC) effluent clear and free from scum, solids accumulation and debris?	**Yes**
Are the baffles in the CCC functioning as intended?	**Yes**
Does the Chlorine injection point provide optimal mixing to occur in the CCC?	**Yes**

Is the CCC Chlorine pump operational, providing adequate Chlorine supply for disinfection and at the permitted location?	**Yes**
Is the Chlorine storage area protected from the elements?	**Yes**
Is the alarm indicator for the Chlorine system operational?	**N/A**
Is the Chlorine supply covered in frost indicating an issue with the system?	**N/A**
Is the fan inside the Chlorine room operational?	**N/A**
Are the Chlorine scales operational?	**N/A**
Is an operational Self-Contained Breathing Apparatus (SCBA) available for the Chlorine room?	**N/A**
Are the Chlorine gas cylinders properly secured?	**N/A**
Is a fresh supply of ammonia available to test for leaks in the gas chlorination system?	**N/A**
Do the UV ballast control boxes have adequate ventilation?	**N/A**
Does the plant staff have access to UV protective eyeglasses?	**N/A**
Is the facility maintaining adequate records of UV lamp operating hours?	**N/A**
Are the UV lamps and ballast being cleaned in accordance with the manufacturer's recommendation?	**N/A**
Does the facility have an adequate inventory of spare parts for the UV system?	**N/A**
Is the facility conducting routine performance checks on the UV system?	**N/A**
Is the UV intensity monitoring equipment operational?	**N/A**
Is the stilling well free from a thick layer of sludge and/or trash?	**Yes**
Is the Chlorine contact chamber providing a minimum contact time of 15 minutes?	**Yes**
Chlorine and SO2 cylinders marked with empty/full tags?	**N/A**
Is the automatic SO2 feed operational within de-chlorination process?	**N/A**
Is the SO2 system free from frost within de-chlorination process?	**N/A**
Are the bisulfite (SO2) gas cylinders properly secured for de-chlorination?	**N/A**
Was there adequate ventilation in the SO2 room?	**N/A**
Is the filter media free from solids that could cause plugging and/or overflow?	**Yes**
Is the land application system being maintained?	**Yes**
If an injection well was plugged or abandoned, was it completed appropriately with DEP approval?	**N/A**
If a well was constructed, was it permitted prior to beginning construction and constructed as required by permit?	**N/A**
Is the injection well Operation and Maintenance done satisfactorily?	**N/A**
Is there adequate access to all monitoring locations?	**Yes**
Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks?	**No**
Are the facility grounds clean and well maintained?	**Yes**
Is the required signage adequate?	**Yes**
The facility was free from odors emanating from the facility.	**Yes**
The facility was free from excessive noise which could be heard beyond the boundaries of the facility.	**Yes**
Is the facility providing safety measures at all times including adequate lighting?	**No**
The facility is disposing of sludge appropriately, with no sludge being disposed of on the facility grounds.	**Yes**
Was an alternative power source available at the facility?	**Yes**
Is the onsite generator tested under load on a monthly basis?	**Yes**
Are records available for the testing of the generator?	**No**
Is the area around the lift station(s) maintained?	**Yes**
Are there warning signs with emergency contact information on and/or around the lift station(s)?	**Yes**
Does the facility have a fence around their lift station(s)?	**N/A**
Is the gate around the lift station and the cover to the lift station locked?	**Yes**

Is the cover to the lift station(s) free from safety hazards?	**Yes**
Are there two functioning pumps that alternate?	**Yes**
Is the electrical panel in good working order and free from needed repair and/or replacement?	**Yes**
Was the collection system or lift station free from offsite objectionable odors?	**Yes**
The lift station visual and audio alarm operating satisfactory?	**No**
Are the potable water supply lines and the facility free from cross connections?	**Yes**
Is an RPZ in place and free of leaks on all potable water supply lines?	**Yes**
Is there a record of testing available on the RPZ?	**Yes**
Is the facility free from any Facility Site Review violation not listed above that needs to be addressed?	**No**

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Deficiencies & Corrective Actions:

The headwork is free from evidence of recent overflows. [62-600.410 F.A.C., 62-620.300 (5) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, there was a severe leak at the headworks of the plant. Water was escaping through a hole in the influent pipe, as well as through a deteriorated section of caulking around the base of the metal bar screen containment. Please refer to photos # 33-34 in the Appendix.
	Corrective Action(s): (Narrative) Following the inspection, the Facility submitted photos, on January 9, 2025, demonstrating both areas contributing to the leak had been repaired. No further action is required. Corrective Action Correspondence: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357975.1]&[profile=Discovery_Compliance] Abnormal Event Report was submitted on January 15, 2025: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1365209.1]&[profile=Discovery_Compliance]
Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks? [62-600.410 F.A.C., 62-620.300 (5) F.A.C., 62-620.610 (7) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that the corner of the surge tank below the bar screen was cracked and leaking.
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the cracks on the surge tank have been repaired.
Is the facility providing safety measures at all times including adequate lighting? [62-600.410 F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that Clarifier #2 had tilted. The cause of the tilt was unclear; however, the tilt has caused the concrete walkway on top of the clarifiers and aeration basins to crack and be slightly slanted above Clarifier #2. It also poses the risk that further tilting may lead to tank collapse. Clarifier #2 is currently offline due to this issue and contains only rainwater.
	Corrective Action(s): (Narrative) Please provide the Department with the Facility's plans to repair Clarifier # 2 and the concrete walkway about it. Include the anticipated timeline to complete this project and return Clarifier #2 to service.
Are records available for the testing of the generator? [62-600.300 (4) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the Facility did not maintain a log to document generator run times.
	Corrective Action(s): (Narrative)

	Please submit documentation to the Department demonstrating that the Facility has implemented a generator run log.
The lift station visual and audio alarm operating satisfactory? [62-604.500 (3) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the visual alarm was not functioning at the lift station next to 312 Useppa Is.
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the visual alarm on this lift station has been repaired.
Is the facility free from any Facility Site Review violation not listed above that needs to be addressed? [See Deficiency Narrative for Specific Rule Violated]	Deficiency: (Narrative) At the time of the inspection, the security fence surrounding the facility was incomplete. Facility fencing originally suffered damage, as a result of Hurricane Ian, and is currently in the process of being replaced. Due to the need to complete certain other projects pertaining to the drinking water infrastructure first, the fence repairs/replacement is not yet complete. [Rule 62-600.400 (2)(b), F.A.C.]
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing the Facility's plans to replace the security fence. Please include the anticipated timeframe for this project.
Observations:	
The Facility's RPZ certification will expire on 2/9/2025. The Facility's blowers don't have traditional belt guards, but are housed in a small shed that serves this purpose.	

Flow Measurement

Compliance Rating	In Compliance
Does this section apply to the facility?	(•) **Yes** ( ) **No**
Questions	
Is there easy access to flow meter?	**Yes**
Is the flow meter in the correct location?	**Yes**
Is the flow measuring device installed properly?	**Yes**
Is the flow meter calibrated at least annually and is it current?	**Yes**
When was the flow meter last calibrated?	5/24/2024 **Yes**
Is the flow measurement device operating within +/- 10% of the actual flow?	**Yes**
Is the flow meter operating properly at the time of the inspection?	**Yes**
The chart recorder and/or totalizer for the flow meter was operational at the time of the inspection.	**N/A**
The elapsed time meters on the lift station pumps were functioning.	**Yes**
The flow entering the convergence section of the Parshall Flume was free of excessive turbulence.	**N/A**
Is the facility free from any Flow Measurement violation not listed above that needs to be addressed?	**Yes**

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- *Questions with "N/A" responses do not apply to the facility*

Observations:

No additional observations or deficiencies were noted.

Operations and Maintenance

Compliance Rating	Significant Out of Compliance
Does this section apply to the facility?	(•) **Yes** ( ) **No**

Questions	
Does the facility have adequate plant staffing?	**Yes**
Is a certified operator operating the wastewater treatment facility with the appropriate license level for the size of the plant?	**Yes**
Is the operator performing treatment plant operation and maintenance duties in a responsible and professional manner?	**Yes**
Is the plant O&M log maintained in a hard-bound book with consecutive page numbering, or another approved format?	**Yes**
Does the facility have an O&M manual, and does the facility's O&M manual reflect the current configuration of the facility?	**Yes**
*Is the facility operated in accordance with the O&M Manual? (If there is a high potential for water quality or health impacts meets SNC criteria)	**Yes**
Is the facility maintaining a log that documents routine equipment maintenance?	**Yes**
Is the plant free of any treatment components that are in disrepair that would provide for unsafe operation?	**No**
Is the facility without an inflow and infiltration problem which would cause collection system and/or operational issues?	**Yes**
*Does the facility replace malfunctioning equipment, which can result in a high potential for water supply quality or health impacts?	**No**
Dike berms appeared to be in satisfactory condition.	**N/A**
Handrails/catwalks/ladders were in good working order providing for safe conditions.	**No**
The liner(s) in the containment pond(s) appeared to be functioning as intended.	**N/A**
The plant operator is fulfilling the minimum site requirements as required by the Permit.	**N/A**
Preventative maintenance is being performed in the accordance with the manufacturer's recommendations.	**Yes**
The facility maintains an adequate spare parts inventory.	**Yes**
Swales were being maintained.	**N/A**
Is the facility free from any Operations and Maintenance violation not listed above that needs to be addressed?	**Yes**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:

Is the plant free of any treatment components that are in disrepair that would provide for unsafe operation? [62-600.410 F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that Clarifier #2 had tilted. The cause of the tilt was unclear; however, the tilt has caused the concrete walkway on top of the clarifiers and aeration basins to crack and be slightly slanted above Clarifier #2. It also poses the risk that further tilting may lead to tank collapse. Clarifier #2 is currently offline due to this issue and contains only rainwater.
	Corrective Action(s): (Narrative) Please provide the Department with the Facility's plans to repair Clarifier # 2 and the concrete walkway about it. Include the anticipated timeline to complete this project and return Clarifier #2 to service.
*Does the facility replace malfunctioning equipment, which can	Deficiency: (Narrative) At the time of the inspection, it was noted that Clarifier #2 had tilted. The cause of the tilt was unclear; however, the tilt has caused the concrete walkway on top of the clarifiers and

result in a high potential for water supply quality or health impacts? [62-600.410 (3) F.A.C., 62-620.300 (5) F.A.C.]	aeration basins to crack and be slightly slanted above Clarifier #2. It also poses the risk that further tilting may lead to tank collapse. Clarifier #2 is currently offline due to this issue and contains only rainwater.
	Corrective Action(s): (Narrative) Please provide the Department with the Facility's plans to repair Clarifier # 2 and the concrete walkway about it. Include the anticipated timeline to complete this project and return Clarifier #2 to service.
Handrails/catwalks/ladders were in good working order providing for safe conditions. [62-600.410 (3) F.A.C., 62-620.300 (5) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that Clarifier #2 had tilted. The cause of the tilt was unclear; however, the tilt has caused the concrete walkway on top of the clarifiers and aeration basins to crack and be slightly slanted above Clarifier #2. It also poses the risk that further tilting may lead to tank collapse. Clarifier #2 is currently offline due to this issue and contains only rainwater.
	Corrective Action(s): (Narrative) Please provide the Department with the Facility's plans to repair Clarifier # 2 and the concrete walkway about it. Include the anticipated timeline to complete this project and return Clarifier #2 to service.
Observations:	
No additional observations or deficiencies were noted.	

Effluent Quality

Compliance Rating	Out of Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
DMR review period:	8/1/2022 – 12/31/2024 **Yes**				
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Please refer to Table D in the Appendix. **No**				
A review of the inspection sampling results revealed the following effluent exceedance(s).	N/A **N/A**				
*Did the effluent limits exceed the Technical Review Criteria less than two times in six months?	**N/A**				
*Are the effluent limits without exceedances four out of six months (chronic criteria)?	**Yes**				
*Did the Total Residual Chlorine levels meet disinfection limits? (If below required minimum 10% or more of the time in a rolling 6-month period, meets SNC criteria)	**Yes**				
Was the facility free of a discharge of wastewater that resulted in a fish kill?	**Yes**				
*Is persistent acute toxicity documented through follow-up tests?	**N/A**				
*Is persistent chronic toxicity documented through follow-up tests?	**N/A**				
*Is persistent acute or chronic toxicity documented in the effluent through the use of routine and follow-up tests?	**N/A**				
Does the facility meet the permit or enforcement narrative effluent limitation(s)? (Non-DMR visible sheen defined as iridescence present so as to cause taste or odor, or otherwise interfere with the beneficial use of the receiving water)	**Yes**				
Is the effluent free from excessive (suspended solids, foam, grease, scum) in the discharge stream?	**Yes**				
*Was the facility free from any other violation with a high potential for water quality or health impacts?	**Yes**				

Is the facility free from any Effluent Quality violation not listed above that needs to be addressed?	**Yes**
Department Sampling Results Comments: Sampling was not conducted by Department personnel.	
• *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"* • *Questions with "No" responses indicate deficiencies* *Questions with "N/A" responses do not apply to the facility*	
Deficiencies & Corrective Actions:	
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Deficiency: (Narrative) A review of the DMR revealed exceedances. Please refer to Table D in the Appendix for additional details. [Rules 62-600 and 62-610, F.A.C.]
	Corrective Action(s): (Narrative) The Facility provided comments for each exceedance on the DMR and also collected additional samples. Follow-up sampling indicated that effluent had returned to permitted effluent limitations. No further action is needed at this time.
Observations:	
At the time of the inspection, the Total Residual Chlorine was >2.2 mg/L as measured with DEP meter #1.	

Effluent Disposal

Compliance Rating	Out of Compliance
Does this section apply to the facility?	(•) **Yes** ( ) **No**
Questions	
Are discharge location(s) as per permit?	**Yes**
What type of reuse is the facility approved for?	Part IV Rapid Infiltration Basins. **N/A**
Has a cross-connection control program been implemented within the areas where reclaimed water is provided for use (Part III, VII)?	**N/A**
Is all reclaimed water piping and equipment color-coded Pantone purple (522C)?	**N/A**
Hose bibbs met access restrictions and other requirements.	**N/A**
Reclaimed water valves and outlets were appropriately tagged and /or labeled.	**N/A**
Are advisory signs posted in English and Spanish in areas where non-potable Public Access Reuse water is being applied (Part III, VII)?	**N/A**
Is the reclaimed water retained on the application site?	**N/A**
No significant ponding was observed on the reclaimed water application site.	**N/A**
There was no aerosol mist leaving the boundaries of the land application?	**N/A**
There was no evidence of solids loss in the treatment process or from the plant?	**Yes**
The RIBs and/or percolation ponds were free from excessive vegetation and sludge?	**Yes**
The percolation ponds were free from accumulated sludge.	**Yes**
Does the percolation ponds have at least 3 ft of freeboard?	**Yes**
The absorption field was free from excessive vegetation.	**N/A**
Do the reclaimed water storage ponds have adequate freeboard?	**N/A**
Are RIBs well maintained and free from excessive vegetation?	**Yes**
There was no evidence of a bypass or failure at the effluent storage and/or disposal site(s)?	**Yes**
Are all effluent disposal areas such as RIBs, ponds, and sprayfields being loaded and rested per permit conditions?	**Yes**
The disposal pond berms were free from excessive growth or vegetation.	**Yes**

There was no evidence of a bypass or failure from the storage ponds observed during the inspection.	**N/A**
No unauthorized discharge to waters of the state was observed during the inspection.	**Yes**
Are the sprinklers functioning as intended for the absorption field(s) or sprayfield(s)?	**N/A**
The facility is meeting the minimum setback distances.	**Yes**
Does the facility maintain a supply of spare parts for the absorption field(s) or sprayfield(s)?	**N/A**
The effluent disposal and/or storage area was free from sinkholes.	**Yes**
Are the sprayfields free from grazing dairy cattle?	**N/A**
The sprayfield was free from ponding.	**N/A**
The sprayfield was free from excessive vegetation.	**N/A**
Edible food crops were being properly irrigated with reclaimed water.	**N/A**
What cover crop and/or vegetation is planted on the reclaimed water area(s)?	N/A **N/A**
*The disposal system was being operated as designed with a low potential for water quality or health impacts.	**Yes**
*There was no unauthorized operation or modification of the disposal system.	**Yes**
Fencing around the effluent disposal site for access control was complete and in good repair.	**No**
There were no dead animals observed in the discharge stream.	**Yes**
Is the facility free from any Effluent Disposal violation not listed above that needs to be addressed?	**Yes**

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Deficiencies & Corrective Actions:

Fencing around the effluent disposal site for access control was complete and in good repair. [62-610.518 (10) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, one of the percolation ponds was not fenced. The fence for the other percolation pond did not completely enclose the pond.
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that fencing has been provided to completely enclose both rapid infiltration basins.

Observations:

Although there was not adequate fencing around the percolation ponds, advisory signage was provided.

Biosolids

Compliance Rating	Out of Compliance
Does this section apply to the facility?	◉ **Yes** ○ **No**

Questions	
Does the facility's method of biosolids use or disposal match what is allowed in the facility permit (i.e., landfill, land application, distribution and marketing, transfer to another facility, biofuel/bioenergy)?	**Yes**
Does the permittee keep records of biosolids quantities for five years, as applicable (quantities generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled?	**No**
Are biosolids quantities reported on the facility RMP-Q DMR?	**Yes**
Are the biosolids quantities reported on the RMP - Q DMRs correct and accurate?	**N/A**

The facility's treatment, management, transportation, use, land application, or disposal of biosolids does not result in objectionable odors, i.e., does not result in a violation of the odor prohibition in subsection 62-296.320 (2).	**Yes**
If there is an objectionable odor, please describe the odors characteristics, frequency, duration, and migration, etc.	N/A **N/A**
Is the storage of biosolids or other solids at this facility in accordance with the Facility Biosolids Storage Plan?	**N/A**
Does the treatment facility ensure no biosolids are spilled from or tracked off the treatment facility property by the hauling vehicle?	**N/A**
The biosolids for this facility are classified as_____: (AA, A, and/or B)	N/A **N/A**
Does the class of biosolids produced for beneficial use match the authorized class in the facility permit (Class AA, A, or B)?	**N/A**
Does the facility use the biosolids pathogen reduction alternative option identified in the permit?	**N/A**
Are all the operational and process parameters monitored to demonstrate compliance for pathogen reduction?	**N/A**
Do the biosolids meet the treatment requirements for pathogen reduction option used?	**N/A**
Does the facility use the biosolids vector attraction reduction option identified in the permit?	**N/A**
Are all the operational and process parameters monitored to demonstrate compliance for vector attraction reduction?	**N/A**
Do the biosolids satisfactorily meet the treatment requirements for vector attraction reduction?	**N/A**
If the Specific Oxygen Uptake Rate (SOUR) test is used for vector attraction reduction, is it conducted within 15 minutes of sample collection by a certified laboratory or under the direction of an operator certified in accordance with Chapter 62-602, F.A.C?	**N/A**
Does treatment of biosolids or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements take place at the permitted facility (e.g., not in the tank of a hauling vehicle)?	**N/A**
Are the biosolids monitored at the frequency required by the permit?	**N/A**
Are the biosolids monitoring results reported on the facility DMR (RMP-AA, RMP-A, or RMP-B)?	**N/A**
Are the biosolids monitored for all the required parameters for the class of biosolids?	**N/A**
Do the Class AA, A, or B biosolids comply with the ceiling pollutant limits?	**N/A**
Are the correct analysis methods used for biosolids?	**N/A**
Is a certified laboratory used for the analysis of the biosolids?	**N/A**
Are all biosolids samples representative and taken after final treatment of the biosolids but before land application or distribution and marketing, unless otherwise approved?	**N/A**
Are all biosolids samples taken at the location specified in the facility permit?	**N/A**
Are the correct sample types properly taken for the type of biosolids (POTW Sludge Sampling Manual)?	**N/A**
Are the Class AA biosolids monitored monthly?	**N/A**
Do the Class AA biosolids meet the Class AA parameter limits?	**N/A**
Are Class AA biosolids that are stored for more than 45 days re-sampled for fecal coliform or Salmonella sp. at the frequency specified in the permit, if required?	**N/A**
For distribution and marketing, does the facility have a fertilizer license, sell or given-away to someone with a fertilizer license, or is enrolled in the US Composting Council's Seal to Testing Assurance program (USCC STA program does not apply in the Lake Okeechobee, St. Lucie River, and Caloosahatchee River watersheds)?	**N/A**
If the facility discovered that distributed and marketed biosolids did not meet Class AA standards, did the facility notify, within 24 hours, the Department and all persons to whom they delivered or distributed and marketed the Class AA biosolids?	**N/A**

Does the facility make available to users by product labels or other means the following information - fertilizer label or equivalent information; name and address of the facility; statement that the biosolids meet subsection 62-640.700 (5), F.A.C.; recommend application rates; and recommendations for storage (including the more than one dry ton/seven-day provision)?	**N/A**
Are all the sites where biosolids are land applied listed on the Treatment Facility Biosolids Plan form (DEP Form 62-640.219 (2)(a))?	**N/A**
If a permitted site not listed in the Treatment Facility Biosolids Plan was used, did the permittee notify DEP at least 24 hours prior to land application at the site and submit a revised form within 30 days after using the site?	**N/A**
Did the facility only used permitted sites - i.e., no unpermitted sites were used for land application (i.e., the site did not have a valid DEP permit)?	**N/A**
Does the permittee maintain hauling records for shipments to land application sites and do they contain the required information?	**N/A**
Does the permittee provide a copy of the hauling records to the biosolids site manager, were records free of any discrepancies regarding the quantities delivered, and any discrepancies were reported to DEP within 24 hours of discovery?	**N/A**
Did all biosolids sent to sites meet pathogen reduction, vector attraction reduction, and pollutant limits?	**N/A**
If biosolids not meeting standards were sent to a site, did the permittee notify DEP, the site manager, the site permittee within 24 hours of discovery?	**N/A**
Does the permittee maintain copies for each site used of the Biosolids Application Site Annual Summary forms received from the site permittees indefinitely?	**N/A**
Has the permittee submitted Treatment Facility Biosolids Annual Summary reports to DEP by February 19 each year?	**N/A**
Was the information in the Treatment Facility Biosolids Annual Summary accurate?	**N/A**
Is any incineration or use of biosolids as a biofuel or for bioenergy in accordance with DEP's air regulations and RCRA?	**N/A**
Does the permittee keep the required hauling records to track transport of biosolids between facilities?	**No**
If the facility receives biosolids from a source facility, did the permittee report any discrepancies in the quantities of biosolids to DEP within 24 hours of discovery?	**N/A**
If the facility is a source facility and sends biosolids to another facility, does the permittee provide a copy of their hauling records for each shipment to the receiving facility?	**N/A**
If the facility receives biosolids from a source facility, does the receiving facility permit allow receipt of biosolids from other facilities?	**N/A**
Does the facility have copies of the required written agreement(s) between the receiving and source facility?	**N/A**
Did the permittee (source or receiving facility) submit all new written agreements to DEP within 30 days before transporting biosolids (unless approval given otherwise)?	**N/A**
Is operator staffing requirements met?	**N/A**
Are the biosolids receiving and handling operations satisfactory?	**N/A**
Are grit and screenings, etc., from the headworks properly disposed of in a landfill?	**N/A**
Is the facility free from any Biosolids violation not listed above that needs to be addressed?	**Yes**

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Deficiencies & Corrective Actions:

Does the permittee keep records of biosolids quantities for	Deficiency: (Narrative) It is unclear if adequate records are kept for the Facility's biosolids quantities. At the time of the inspection, the Facility provided a copy of their Service Agreement with Waste Pro to

five years, as applicable (quantities generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled? [62-640.650 (4)(a) F.A.C.]	transfer biosolids to Hendry County. They did not have any hauling receipts to provide. Further review of the DMRs revealed that the Facility has not reported hauling any biosolids at any time in the past. Review of the Useppa Island Utilities Standard Operating Protocols indicates that biosolids, once dried, are bagged and stored in a disposal container until the container is full at which time it will be hauled. It also notes that this may only be necessary every few years. Records indicate, however, that biosolids have never been hauled.
	Corrective Action(s): (Narrative) Please submit an explanation to the Department indicating when biosolids were last hauled from the Useppa Island WWTP. Provide documentation of this to the Department for review. If biosolids have not been hauled, please provide documentation of how long they have been kept in the disposal container with photos of the disposal container to demonstrate its current capacity.
Does the permittee keep the required hauling records to track transport of biosolids between facilities? [62-640.880 (4) F.A.C.]	Deficiency: (Narrative) It is unclear if adequate records are kept for the Facility's biosolids quantities. At the time of the inspection, the Facility provided a copy of their Service Agreement with Waste Pro to transfer biosolids to Hendry County. They did not have any hauling receipts to provide. Further review of the DMRs revealed that the Facility has not reported hauling any biosolids at any time in the past. Review of the Useppa Island Utilities Standard Operating Protocols indicates that biosolids, once dried, are bagged and stored in a disposal container until the container is full at which time it will be hauled. It also notes that this may only be necessary every few years. Records indicate, however, that biosolids have never been hauled.
	Corrective Action(s): (Narrative) Please submit an explanation to the Department indicating when biosolids were last hauled from the Useppa Island WWTP. Provide documentation of this to the Department for review. If biosolids have not been hauled, please provide documentation of how long they have been kept in the disposal container with photos of the disposal container to demonstrate its current capacity.
Observations:	
Biosolids generated by this facility may be transferred to Lee County or disposed of in a Class I solid waste landfill. Transferring biosolids to an alternative biosolids treatment facility does not require a permit modification. However, use of an alternative biosolids treatment facility requires submittal of a copy of the agreement pursuant to Rule 62-640.880 (1)(c), F.A.C., along with a written notification to the Department at least 30 days before transport of the biosolids. *[62-620.320 (6), 62-640.880 (1)]* Updated Haulers Agreement link: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1365304.1]&[profile=Discovery_Compliance]	

Groundwater

Compliance Rating	Significant Out of Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
DMRs review period	7/1/2022 – 12/31/2024 **Yes**				

Are the groundwater monitoring results sent to the Department on Discharge Monitoring Report, Form 62-620.910 (10), F.A.C. and submitted by the DMR due date?	**Yes**
After a review of the Discharge Monitoring Reports, are the compliance well parameters meeting the groundwater standards in the time period reviewed (12 months or greater)?	**No**
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Please refer to Table E in the Appendix. **No**
Do the facilities purging logs on DEP Form FD 9000-24 indicate that purging was done properly; including sufficient volume, purge rate, depth to water, and stability criteria (pH, Temperature, Conductivity, Dissolved Oxygen, Turbidity)?	**Yes**
Is the groundwater monitoring report complete and accurate, including analysis method, laboratory method detection limits, static water level, purging logs, sample collection procedures and treatment?	**Yes**
Do the groundwater monitoring wells meet DEP requirements including; tamper-proof locks, unique well label(s), concrete well pad with protective bumpers not containing numerous cracks, and is free of clutter for sampling purposes?	**No**
If or when new well construction was completed did the facility plug and properly abandoned the existing well and submit Monitoring well completion Report, Form 62-520.900 (3) to DEP within 60 days?	**N/A**
If a monitoring well became damaged or inoperable, was maintenance conducted and notification sent to DEP within 2 days of discovery?	**N/A**
Is the well(s) that the facility is sampling at part of the approved groundwater monitoring plan?	**Yes**
Are the monitoring wells operable to the extent that sampling is possible?	**Yes**
Are groundwater samples being collected and analyzed as required by the permit or enforcement action; including location, well type, sample type (grab/composite), time, and frequency?	**Yes**
If sampling was observed were the sample collection activities being performed in accordance with DEP SOP FS 2200?	**N/A**
If sampling was observed, was equipment in satisfactory condition?	**N/A**
If sampling was not observed is the description of sample collection activities being performed in accordance with DEP SOP FS 2200?	**Yes**
Is the facility free from any Groundwater violation not listed above that needs to be addressed?	**Yes**

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Deficiencies & Corrective Actions:

After a review of the Discharge Monitoring Reports, are the compliance well parameters meeting the groundwater standards in the time period reviewed (12 months or greater)? [62-520.420 F.A.C.]	Deficiency: (Narrative) A review of the groundwater DMRs revealed exceedances. Please refer to Table E in the Appendix for additional details.
	Corrective Action(s): (Narrative) A review of historical documents revealed there may be some inconsistencies in the facility's groundwater monitoring plan. Please contact the Department to arrange a meeting to discuss the groundwater monitoring plan further.
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Deficiency: (Narrative) A review of the groundwater DMRs revealed exceedances. Please refer to Table E in the Appendix for additional details. [Rule 62-520.420, F.A.C.]
	Corrective Action(s): (Narrative)

	A review of historical documents revealed there may be some inconsistencies in the facility's groundwater monitoring plan. Please contact the Department to arrange a meeting to discuss the groundwater monitoring plan further.
Do the groundwater monitoring wells meet DEP requirements including; tamper-proof locks, unique well label(s), concrete well pad with protective bumpers not containing numerous cracks, and is free of clutter for sampling purposes? [62-520.600 (6)(e) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that the Facility's groundwater monitoring wells did not meet DEP requirements. Please refer to Table F in the Appendix for additional details.
	Corrective Action(s): (Narrative) Please provide documentation to the Department demonstrating that the groundwater monitoring well deficiencies noted in Table F in the appendix have been corrected.
Observations:	
No additional observations or deficiencies were noted.	

SSO Survey

Compliance Rating	Out of Compliance
Does this section apply to the facility?	(•) **Yes** ( ) **No**
Questions	
Does the facility have an Operation and Maintenance Manual for their collection system?	**No**
How often is the Operation and Maintenance Manual updated?	As needed. **Yes**
Does the O&M manual reflect the current collection system configuration?	**Yes**
Are procedures available for minimizing spills in either the Operation and Maintenance Manual or in a separate document?	**Yes**
Does the facility have a Sewer Overflow Response Plan/procedures for minimizing spills?	**Yes**
Did the facility collect and/or analyze bacteriological samples as outlined in their SORP?	**N/A**
Does the facility have a map of its collection system?	**No**
Are the SORP and collection system maps immediately available to SSO response staff, including during power failures?	**No**
Did the facility collect and/or analyze bacteriological samples for sewage spills that reached surface waters?	**N/A**
Does the facility perform routine preventative maintenance to keep the collection/transmission system in good working order?	**No**
Does the facility maintain a ready-to-use supply of equipment, tools and materials for responding to SSOs?	**Yes**
How many lift stations have permanent emergency back-up power generators?	N/A **N/A**
In the last 12 months, was the facility free from sewage spills or abnormal event from any part of a collection/transmission system or treatment plant that discharged to the ground or did not make it to surface waters, i.e., stormwater collection system, drainage ditch, stream, pond, or lake?	**No**
Does the facility report the spill(s) to the Department within 24 hours of discovery?	**Yes**

Does the facility follow up on spills?	**Yes**
Does the facility keep routine documentation and reporting records of spills, and/or operation and maintenance activities on the collection/transmission system(s)?	**Yes**
In the last 12 months, was the facility free from sewage spills or abnormal events from any components of a collection/transmission system or from a treatment plant that reached surface waters including stormwater conveyance system or drainage ditch?	**N/A**
Is the facility free from any SSO violation not listed above that needs to be addressed?	**Yes**

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- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:

Does the facility have an Operation and Maintenance Manual for their collection system? [62-604.500 (4) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the Facility did not have their Collection System Operation and Maintenance Manual (O&M).
	Corrective Action(s): (Narrative) Following the inspection, the facility submitted a copy of the Collection System O&M on to the Department on January 14, 2025. No further action is required at this time. Corrective Action Correspondence: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357996.1]&[profile=Discovery_Compliance]
Does the facility have a map of its collection system? [62-604.300 (5) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that the Facility did not have a map of their collection system.
	Corrective Action(s): (Narrative) Please provide documentation to the Department demonstrating that a map of the collection system has been provided.
Are the SORP and collection system maps immediately available to SSO response staff, including during power failures? [62-604.300 (5) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that the Facility did not have a map of their collection system
	Corrective Action(s): (Narrative) Please provide documentation to the Department demonstrating that a map of the collection system has been provided.
The facility failed to perform routine preventive maintenance to keep the collection/transmission system in good working order. [62-604.500 (2) F.A.C., 62-604.500 (3) F.A.C., SSO5]	Deficiency: (Narrative) At the time of the inspection, the visual alarm was not functioning at the lift station next to 312 Useppa Is.
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the visual alarm on this lift station has been repaired.
A sewage spill from any part of a collection/transmission system or treatment plant that did not make it to surface	Deficiency: (Narrative) At the time of the inspection, there was a severe leak at the headworks of the plant. Water was escaping through a hole in the influent pipe, as well as through a deteriorated section of caulking around the base of the metal bar screen containment. Please refer to photos # 33-34 in the Appendix.
	Corrective Action(s): (Narrative)

waters, i.e., stormwater collection system, drainage ditch, stream, pond, or lake. [62-604.130 (1) F.A.C., SSO6]	Following the inspection, the Facility submitted photos, on January 9, 2025, demonstrating both areas contributing to the leak had been repaired. Corrective Action Correspondence: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357975.1]&[profile=Discovery_Compliance] The Department acknowledges receipt of the necessary information related to the spill. The Department is not initiating formal enforcement proceedings at this time; however, this memorandum does not preclude the referenced spill from further action in the future in accordance with Sections 403.121, 403.131, 403.141 and 403.161, Florida Statutes. No further action is needed at this time.

Observations:

The Facility reported two spills within the past 12 months. Please refer to Table H of the appendix for additional details.

The Department has developed new guidance on how Sanitary Sewer Overflows (SSOs) are addressed statewide, which was implemented July 1, 2019. According to the guidance each SSO incident is evaluated and rated, and the appropriate document is filed/issued. Either a Memo-to-File, a Compliance Assistance Offer Letter, or Warning Letter is sent for each incident. A Memo-to-File was sent for the SSO that occurred on June 5, 2024. The most recent SSO will be addressed by this inspection report.

Memo-to-File 7/23/2024: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1309406.1]&[profile=Discovery_Compliance]

Other

Compliance Rating	Not Evaluated
Does this section apply to the facility?	(•) **Yes** ( ) **No**
Questions	
*Is the facility free from any violation not listed above, or pattern of noncompliance, resulting in a high potential for water quality or health impacts *(Any violations considered significant by the Secretary, Deputy Secretary, Director of District Management, or the Division Director meet SNC criteria)*	**N/A**
Please describe any potential non-wastewater violations (i.e. Hazardous Waste, Stormwater, SLERP, Air and Storage Tanks) that were referred.	**N/A** **N/A**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Observations:

Not Evaluated.

Deficiencies Summary

Evaluation Area: Permit	
*Was the facility free from unpermitted discharge, bypass, collection system, or residuals with a high potential for water quality or health impacts? [403.161(1)(b) F.S., 62-620.300 F.A.C., 62-604.130 F.A.C., 62-640.400 F.A.C.]	Deficiency: (Narrative) At the time of the inspection, there was a severe leak at the headworks of the plant. Water was escaping through a hole in the influent pipe, as well as through a deteriorated section of caulking around the base of the metal bar screen containment. Please refer to photo # in the Appendix.
	Corrective Action(s): (Narrative) Following the inspection, the Facility submitted photos, on January 9, 2025, demonstrating both areas contributing to the leak had been repaired. No further action is required. Corrective Action Correspondence: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357975.1]&[profile=Discovery_Compliance] Abnormal Event Report was submitted on January 15, 2025: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1365209.1]&[profile=Discovery_Compliance]

Evaluation Area: Records and Reports	
Are all required documents and reports available at the plant well organized and complete? [62-4.160 F.A.C., 62-160.240 F.A.C., 62-160.340 F.A.C., 62-620.350 F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the following documents were not provided: • Generator Run Log • Collection System Operation and Maintenance Manual (O&M) • A Copy of the most recent Groundwater Monitoring Well Laboratory
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the Facility has implemented a generator run log. Following the inspection on January 14, 2025, the facility submitted a copy of the Collection System O&M. On January 19 and January 22, 2025, the facility submitted a copy of the most recent Groundwater Monitoring Well Laboratory Report. No further action is required for these items, but the generator run log must be provided. Corrective Action Correspondence for Collection System O&M: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357996.1]&[profile=Discovery_Compliance] Corrective Action Correspondence for December 2024 Groundwater Monitoring Wells Laboratory Report: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1360371.1]&[profile=Discovery_Compliance] https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1360770.1]&[profile=Discovery_Compliance]
The facility failed to maintain records for the required retention period. [62-620.350 (2) F.A.C., FMRR]	Deficiency: (Narrative) At the time of the inspection, the following documents were not provided: • Generator Run Log • Collection System Operation and Maintenance Manual (O&M) • A Copy of the most recent Groundwater Monitoring Well Laboratory
	Corrective Action(s): (Narrative)

	Please submit documentation to the Department demonstrating that the Facility has implemented a generator run log. Following the inspection on January 14, 2025, the facility submitted a copy of the Collection System O&M. On January 19 and January 22, 2025, the facility submitted a copy of the most recent Groundwater Monitoring Well Laboratory Report. No further action is required for these items, but the generator run log must be provided. Corrective Action Correspondence for Collection System O&M: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357996.1]&[profile=Discovery_Compliance] Corrective Action Correspondence for December 2024 Groundwater Monitoring Wells Laboratory Report: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1360371.1]&[profile=Discovery_Compliance] https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1360770.1]&[profile=Discovery_Compliance]
Are the discharge monitoring reports completed properly? [403.161(1)(b) F.S., 62-600.680 F.A.C.]	Deficiency: (Narrative) A review of the DMRs revealed deficiencies. Please refer to Table C in the Appendix for additional details.
	Corrective Action(s): (Narrative) Please correct and resubmit the DMRs with noted transcription and reporting errors.
The facility failed to submit any report required by rule, permit, enforcement action or inspection activity except for DMRs. [62-610.870 (3) F.A.C., 62-610.865 (11) F.A.C., 62-600.405 F.A.C., 403.161(1)(b) F.S., FRPT]	Deficiency: (Narrative) At the time of the inspection, there was a severe leak at the headworks of the plant. Water was escaping through a hole in the influent pipe, as well as through a deteriorated section of caulking around the base of the metal bar screen containment. The Abnormal Event Report for this spill was not received within five days of the incident as required.
	Corrective Action(s): (Narrative) The Abnormal Event Report for this incident was received on January 15, 2025, nine days after the spill occurred. Please ensure that, going forward, any abnormal event is reported to the Department within 24 hours, and the written report is submitted within five days. Abnormal Event Report was submitted on January 15, 2025: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1365209.1]&[profile=Discovery_Compliance]
The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner. [403.161(1)(b) F.S., 62-600.680 F.A.C., 62-620.610 (18)(a) F.A.C., FDMR]	Deficiency: (Narrative) A review of the DMRs revealed that the Part B form submitted for August 2024 was for the wrong facility. The Part B form for the RO Concentrate Disposal Facility was submitted for the wastewater treatment plant by mistake. Please see Table G in the Appendix.
	Corrective Action(s): (Narrative) Please correct and resubmit the Part B form for August 2024.
The permittee failed to notify the department of any event or activity that requires notification as required by permit or rule. [403.161(1)(b)	Deficiency: (Narrative) At the time of the inspection, there was a severe leak at the headworks of the plant. Water was escaping through a hole in the influent pipe, as well as through a deteriorated section of caulking around the base of the metal bar screen containment. The Abnormal Event Report for this spill was not received within five days of the incident as required.
	Corrective Action(s): (Narrative)

F.S., 62-4.130 F.A.C., RSWP]	The Abnormal Event Report for this incident was received on January 15, 2025, nine days after the spill occurred. Please ensure that, going forward, any abnormal event is reported to the Department within 24 hours, and the written report is submitted within five days. Abnormal Event Report was submitted on January 15, 2025: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1365209.1]&[profile=Discovery_Compliance]

Evaluation Area: Facility Site Review	
The headwork is free from evidence of recent overflows. [62-600.410 F.A.C., 62-620.300 (5) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, there was a severe leak at the headworks of the plant. Water was escaping through a hole in the influent pipe, as well as through a deteriorated section of caulking around the base of the metal bar screen containment. Please refer to photos # 33-34 in the Appendix.
	Corrective Action(s): (Narrative) Following the inspection, the Facility submitted photos, on January 9, 2025, demonstrating both areas contributing to the leak had been repaired. No further action is required. Corrective Action Correspondence: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357975.1]&[profile=Discovery_Compliance] Abnormal Event Report was submitted on January 15, 2025: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1365209.1]&[profile=Discovery_Compliance]
Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks? [62-600.410 F.A.C., 62-620.300 (5) F.A.C., 62-620.610 (7) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that the corner of the surge tank below the bar screen was cracked and leaking.
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the cracks on the surge tank have been repaired.
Is the facility providing safety measures at all times including adequate lighting? [62-600.410 F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that Clarifier #2 had tilted. The cause of the tilt was unclear; however, the tilt has caused the concrete walkway on top of the clarifiers and aeration basins to crack and be slightly slanted above Clarifier #2. It also poses the risk that further tilting may lead to tank collapse. Clarifier #2 is currently offline due to this issue and contains only rainwater.
	Corrective Action(s): (Narrative) Please provide the Department with the Facility's plans to repair Clarifier # 2 and the concrete walkway about it. Include the anticipated timeline to complete this project and return Clarifier #2 to service.
Are records available for the testing of the generator? [62-600.300 (4) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the Facility did not maintain a log to document generator run times.
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the Facility has implemented a generator run log.
The lift station visual and audio alarm operating satisfactory? [62-604.500 (3) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the visual alarm was not functioning at the lift station next to 312 Useppa Is.
	Corrective Action(s): (Narrative)

	Please submit documentation to the Department demonstrating that the visual alarm on this lift station has been repaired.
Is the facility free from any Facility Site Review violation not listed above that needs to be addressed? [See Deficiency Narrative for Specific Rule Violated]	Deficiency: (Narrative) At the time of the inspection, the security fence surrounding the facility was incomplete. Facility fencing originally suffered damage, as a result of Hurricane Ian, and is currently in the process of being replaced. Due to the need to complete certain other projects pertaining to the drinking water infrastructure first, the fence repairs/replacement is not yet complete. [62-600.400 (2)(b) F.A.C.]
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing the Facility's plans to replace the security fence. Please include the anticipated timeframe for this project.

Evaluation Area: Operations and Maintenance	
Is the plant free of any treatment components that are in disrepair that would provide for unsafe operation? [62-600.410 F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that Clarifier #2 had tilted. The cause of the tilt was unclear; however, the tilt has caused the concrete walkway on top of the clarifiers and aeration basins to crack and be slightly slanted above Clarifier #2. It also poses the risk that further tilting may lead to tank collapse. Clarifier #2 is currently offline due to this issue and contains only rainwater.
	Corrective Action(s): (Narrative) Please provide the Department with the Facility's plans to repair Clarifier # 2 and the concrete walkway about it. Include the anticipated timeline to complete this project and return Clarifier #2 to service.
*Does the facility replace malfunctioning equipment, which can result in a high potential for water supply quality or health impacts? [62-600.410 (3) F.A.C., 62-620.300 (5) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that Clarifier #2 had tilted. The cause of the tilt was unclear; however, the tilt has caused the concrete walkway on top of the clarifiers and aeration basins to crack and be slightly slanted above Clarifier #2. It also poses the risk that further tilting may lead to tank collapse. Clarifier #2 is currently offline due to this issue and contains only rainwater.
	Corrective Action(s): (Narrative) Please provide the Department with the Facility's plans to repair Clarifier # 2 and the concrete walkway about it. Include the anticipated timeline to complete this project and return Clarifier #2 to service.
Handrails/catwalks/ladders were in good working order providing for safe conditions. [62-600.410 (3) F.A.C., 62-620.300 (5) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that Clarifier #2 had tilted. The cause of the tilt was unclear; however, the tilt has caused the concrete walkway on top of the clarifiers and aeration basins to crack and be slightly slanted above Clarifier #2. It also poses the risk that further tilting may lead to tank collapse. Clarifier #2 is currently offline due to this issue and contains only rainwater.
	Corrective Action(s): (Narrative) Please provide the Department with the Facility's plans to repair Clarifier # 2 and the concrete walkway about it. Include the anticipated timeline to complete this project and return Clarifier #2 to service.

Evaluation Area: Effluent Quality	
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Deficiency: (Narrative) A review of the DMR revealed exceedances. Please refer to Table D in the Appendix for additional details. [Rules 62-600 and 62-610, F.A.C.]
	Corrective Action(s): (Narrative)

	The Facility provided comments for each exceedance on the DMR and also collected additional samples. Follow-up sampling indicated that effluent had returned to permitted effluent limitations. No further action is needed at this time.

Evaluation Area: Effluent Disposal	
Fencing around the effluent disposal site for access control was complete and in good repair. [62-610.518 (10) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, one of the percolation ponds was not fenced. The fence for the other percolation pond did not completely enclose the pond.
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that fencing has been provided to completely enclose both rapid infiltration basins.

Evaluation Area: Biosolids	
Does the permittee keep records of biosolids quantities for five years, as applicable (quantities generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled? [62-640.650(4)(a) F.A.C.]	Deficiency: (Narrative) It is unclear if adequate records are kept for the Facility's biosolids quantities. At the time of the inspection, the Facility provided a copy of their Service Agreement with Waste Pro to transfer biosolids to Hendry County. They did not have any hauling receipts to provide. Further review of the DMRs revealed that the Facility has not reported hauling any biosolids at any time in the past. Review of the Useppa Island Utilities Standard Operating Protocols indicates that biosolids, once dried, are bagged and stored in a disposal container until the container is full at which time it will be hauled. It also notes that this may only be necessary every few years. Records, indicate, however, that biosolids have never been hauled.
	Corrective Action(s): (Narrative) Please submit an explanation to the Department indicating when biosolids were last hauled from the Useppa Island WWTP. Provide documentation of this to the Department for review. If biosolids have not been hauled, please provide documentation of how long they have been kept in the disposal container with photos of the disposal container to demonstrate its current capacity.
Does the permittee keep the required hauling records to track transport of biosolids between facilities? [62-640.880 (4) F.A.C.]	Deficiency: (Narrative) It is unclear if adequate records are kept for the Facility's biosolids quantities. At the time of the inspection, the Facility provided a copy of their Service Agreement with Waste Pro to transfer biosolids to Hendry County. They did not have any hauling receipts to provide. Further review of the DMRs revealed that the Facility has not reported hauling any biosolids at any time in the past. Review of the Useppa Island Utilities Standard Operating Protocols indicates that biosolids, once dried, are bagged and stored in a disposal container until the container is full at which time it will be hauled. It also notes that this may only be necessary every few years. Records indicate, however, that biosolids have never been hauled.
	Corrective Action(s): (Narrative) Please submit an explanation to the Department indicating when biosolids were last hauled from the Useppa Island WWTP. Provide documentation of this to the Department for review. If biosolids have not been hauled, please provide documentation of how long they have been kept in the disposal container with photos of the disposal container to demonstrate its current capacity.

Evaluation Area: Groundwater	
	Deficiency: (Narrative)

After a review of the Discharge Monitoring Reports, are the compliance well parameters meeting the groundwater standards in the time period reviewed (12 months or greater)? [62-520.420 F.A.C.]	A review of the groundwater DMRs revealed exceedances. Please refer to Table E in the Appendix for additional details.
	Corrective Action(s): (Narrative) A review of historical documents revealed there may be some inconsistencies in the facility's groundwater monitoring plan. Please contact the Department to arrange a meeting to discuss the groundwater monitoring plan further.
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Deficiency: (Narrative) A review of the groundwater DMRs revealed exceedances. Please refer to Table E in the Appendix for additional details. [Rule 62-520.420, F.A.C.]
	Corrective Action(s): (Narrative) A review of historical documents revealed there may be some inconsistencies in the facility's groundwater monitoring plan. Please contact the Department to arrange a meeting to discuss the groundwater monitoring plan further.
Do the groundwater monitoring wells meet DEP requirements including; tamper-proof locks, unique well label(s), concrete well pad with protective bumpers not containing numerous cracks, and is free of clutter for sampling purposes? [62-520.600 (6)(e) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that the Facility's groundwater monitoring wells did not meet DEP requirements. Please refer to Table F in the Appendix for additional details.
	Corrective Action(s): (Narrative) Please provide documentation to the Department demonstrating that the groundwater monitoring well deficiencies noted in Table F in the appendix have been corrected.

Evaluation Area: SSO Survey	
Does the facility have an Operation and Maintenance Manual for their collection system? [62-604.500 (4) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the Facility did not have their Collection System Operation and Maintenance Manual (O&M).
	Corrective Action(s): (Narrative) Following the inspection, the facility submitted a copy of the Collection System O&M on to the Department on January 14, 2025. No further action is required at this time. Corrective Action Correspondence: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357996.1]&[profile=Discovery_Compliance]
Does the facility have a map of its collection system? [62-604.300 (5) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, it was noted that the Facility did not have a map of their collection system.
	Corrective Action(s): (Narrative) Please provide documentation to the Department demonstrating that a map of the collection system has been provided.
	Deficiency: (Narrative)

Are the SORP and collection system maps immediately available to SSO response staff, including during power failures? [62-604.300 (5) F.A.C.]	At the time of the inspection, it was noted that the Facility did not have a map of their collection system.
	Corrective Action(s): (Narrative) Please provide documentation to the Department demonstrating that a map of the collection system has been provided.
The facility failed to perform routine preventive maintenance to keep the collection/transmission system in good working order. [62-604.500 (2) F.A.C., 62-604.500 (3) F.A.C., SSO5]	Deficiency: (Narrative) At the time of the inspection, the visual alarm was not functioning at the lift station next to 312 Useppa Is.
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the visual alarm on this lift station has been repaired.
A sewage spill from any part of a collection/transmission system or treatment plant that did not make it to surface waters, i.e., stormwater collection system, drainage ditch, stream, pond, or lake. [62-604.130 (1) F.A.C., SSO6]	Deficiency: (Narrative) At the time of the inspection, there was a severe leak at the headworks of the plant. Water was escaping through a hole in the influent pipe, as well as through a deteriorated section of caulking around the base of the metal bar screen containment. Please refer to photos # 33-34 in the Appendix.
	Corrective Action(s): (Narrative) Following the inspection, the Facility submitted photos, on January 9, 2025, demonstrating both areas contributing to the leak had been repaired. Corrective Action Correspondence: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1357975.1]&[profile=Discovery_Compliance] The Department acknowledges receipt of the necessary information related to the spill. The Department is not initiating formal enforcement proceedings at this time; however, this memorandum does not preclude the referenced spill from further action in the future in accordance with Sections 403.121, 403.131, 403.141 and 403.161, Florida Statutes. No further action is needed at this time.

Inspection Appendix for Useppa Island WWTP (FLA014494)

Table A – Buffer, Reagent, and Standard Lot Numbers and Expiration Dates

Standard/Buffer	Lot No.	Expiration Date
Chlorine Secondary Standards	A2013	January 2025
Chlorine Total DPD	A3262	September 2028
pH 4.00 s.u.	CC800325	April 3, 2026
pH 7.00 s.u.	CC798877	March 19, 2026
pH 10.00 s.u.	CC798907	March 13, 2026

Table B – Operator Names and License Numbers

Operator Name	License Class and Number	Expiration Date
William Edwards	Class C WW - 0023930	4/30/2025

Table C – Discharge Monitoring Report Deficiencies
12/01/2023– 12/31/2024

Monitoring Period	DMR (R-001) Deficiencies
December 2024	A review of the DMR revealed the following transcription errors: • The monthly maximum for Total Nitrogen, Nitrate was reported as 1.89 mg/L. A review of Part B revealed the correct value was 2.89 mg/L.
October 2024	A review of the DMR revealed the following transcription errors: • The monthly maximum for Fecal Coliform was reported as <1 #/100mL. A review of Part B revealed the correct value was <2 #/100mL.
August 2024	The Part B form for the Useppa Island RO Concentrate Disposal Facility (FLA146102) was mistakenly submitted for the Useppa Island WWTP (FLA014494). The Part B form for the WWTP was missing.
July 2024	A review of the DMR revealed the following transcription errors: • The monthly minimum for pH was reported as 7 s.u. A review of Part B revealed the correct value was 7.2 s.u.
May 2024	A review of the DMR revealed the following transcription errors: • The monthly maximum for Fecal Coliform was reported as <1 #/100mL. A review of Part B revealed the correct value was <2 #/100mL.
February 2024	A review of the DMR revealed the following reporting errors: • The annual average for BOD was reported as 1.8 mg/L. Because the laboratory MDL was "<2 mg/L", this result must be reported as "<2 mg/L".

Table D – Effluent Exceedances
8/01/2022– 12/31/2024

Date	Monitor-ing Location	Monitor-ing Group	Parameter	Parameter Description	Result	Limit	Units	Statistical Base	Explanation
11/30/2024	EFF-1	R-001	P 00530	Solids, Total Suspended	5.8	5.0	mg/L	MB - Maximum	The exact cause if the elevated TSS is unknown, a total of 12 effluent TSS samples were collected during the month of November, all of which returned results below the permitted limits. We will continue to monitor and report as required.
11/30/2024	EFF-1	R-001	P 00620	Nitrogen, Nitrate, Total (as N)	18.9	12.0	mg/L	MB - Maximum	The elevated Nitrate is believed to be attributed to excess blower run times. The operator utilizes field nitrate levels in the field making adjustments where available in an attempt to maintain effluent below permitted limits. The additional two nitrate samples collected during the month of November 2024 were

Inspection Appendix for Useppa Island WWTP (FLA014494)

									well below the permitted limit of 12.0 mg/L We will continue to monitor and report as required.
8/31/2024	FLW-01	R-001	P 50050	Flow	0.021	0.02	MGD	MK - Monthly Average	In review of the daily flows reported, the elevated values received are believed to have been attributed to rainfall received. We will continue to monitor and report as required.
2/29/2024	EFF-1	R-001	P 74055	Coliform, Fecal	20000	25.0	#/100 mL	MB - Maximum	The exact cause of the elevated fecal coliform result received on February 7, 2024 is unknown; the TRC at the time of sampling was a 1.1 mg/L A total of 13 fecal coliform were collected throughout the month of February, all additional samples yielded results of non-detectable.
12/31/2023	EFF-1	R-001	P 00530	Solids, Total Suspended	8.9	5.0	mg/L	MB - Maximum	During the month of December there were two effluent TSS exceedances (12/19 & 12/20) 8.9 & 6.4 mg/L respectively. All additional parameters collected on those dates were well below permitted limits. A total of 12 samples were collected during the month of December for Effluent TSS, all additional sample results yielded levels below the permitted limit of 5.0 mg/L. The exact cause of the elevated levels is unknown. We will continue to monitor and report as required.
9/30/2023	EFF-1	R-001	P 00620	Nitrogen, Nitrate, Total (as N)	13.6	12.0	mg/L	MB - Maximum	The elevated effluent nitrate result is believed to be attributed to blower operations. The operator utilizes field nitrate test kits to make process control adjustments in and attempt to maintain effluent nitrate levels below permitted limits. In review of nitrate results for the past 12 months, no effluent exceedances were noted. We will continue to monitor and report as required.
6/30/2023	EFF-1	R-001	P 00530	Solids, Total Suspended	5.5	5.0	mg/L	MB - Maximum	The samples collected on 06/22/2023 yielded a TSS value of 5.5 mg/L. All additional effluent parameters collected on the same date and time were below permitted limits. The TRC at the time of sample collection was a 5.2 mg/L. All additional fecal samples collected throughout the month of June yielded results well below the permitted limit of 5.0 mg /L We will continue to monitor and report as required
6/30/2023	EFF-1	R-001	P 74055	Coliform, Fecal	200	25.0	#/100 mL	MB - Maximum	The samples collected on 06/21/2023 yielded a fecal coliform value of 200 cts/100 mls. All additional effluent parameters

									collected on the same date and time were below permitted limits. The TRC at the time of sample collection was a 6.3 mg/L. All additional fecal samples collected throughout the month of June yielded results of non-detectable. We will continue to monitor and report as required.

Table E – Groundwater Exceedances
7/01/2022– 12/31/2024

Date	Monitoring Location	Parameter	Parameter Description	Result	Limit	Background Well MWB-1 Results	Units	Statistical Base	Explanation
12/31/2024	MWC-34080	P 00945	Sulfate, Total	263	250	31	mg/L	MB - Maximum	The cause of the Sulfate exceedance is unknown at this time. Operator will continue to monitor and report as required
12/31/2024	MWC-34080	P 00940	Chloride (as Cl)	1810	250	117	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for Chloride have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.
12/31/2024	MWC-34080	P 70295	Solids, Total Dissolved (TDS)	3700	500.0	460	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for TDS have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.
12/31/2024	MWC-34080	P 00978	Arsenic, Total Recoverable	82	10.0	4.4	ug/L	MB - Maximum	The cause of the Arsenic exceedance is unknown at this time. Operator will continue to monitor and report as required
9/30/2024	MWC-34080	P 00978	Arsenic, Total Recoverable	260	10.0	35	ug/L	MB - Maximum	None Provided
6/30/2024	MWC-34080	P 70295	Solids, Total Dissolved (TDS)	710	500.0	620	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for TDS have been historically high. All reject flow from RO plant is disposed of

Inspection Appendix for Useppa Island WWTP (FLA014494)

									through the permitted injection well, the drain field is not used.
6/30/2024	MWC-34080	P 74055	Coliform, Fecal	42	0.0	1	#/100mL	MB - Maximum	The cause of the Fecal exceedance is unknown at this time. Operator will continue to monitor and report as required.
3/31/2024	MWC-34080	P 70295	Solids, Total Dissolved (TDS)	660	500.0	380	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for TDS have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.
12/31/2023	MWC-34080	P 70295	Solids, Total Dissolved (TDS)	970	500.0	500	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for TDS have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.
12/31/2023	MWC-34080	P 00940	Chloride (as Cl)	335	250.0	206	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for Chloride have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.
9/30/2023	MWC-34080	P 70295	Solids, Total Dissolved (TDS)	710	500.0	460	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for TDS have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.
6/30/2023	MWC-34080	P 70295	Solids, Total Dissolved (TDS)	790	500.0	330	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for TDS have been historically high. All reject flow from RO plant is disposed of

Inspection Appendix for Useppa Island WWTP (FLA014494)

									through the permitted injection well, the drain field is not used.
6/30/2023	MWC-34080	P 00940	Chloride (as Cl)	295	250.0	134	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for Chloride have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.
3/31/2023	MWC-34080	P 70295	Solids, Total Dissolved (TDS)	890	500.0	480	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for TDS have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used
3/31/2023	MWC-34080	P 00940	Chloride (as Cl)	321	250.0	124	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for Chloride have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.
12/31/2023	MWC-34080	P 70295	Solids, Total Dissolved (TDS)	6300	500.0	1600	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for TDS have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.
12/31/2023	MWC-34080	P 00940	Chloride (as Cl)	3000	250.0	636	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for Chloride have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.

12/31/2022	MWC-34080	P 00945	Sulfate, Total	335	250.0	112	mg/L	MB - Maximum	In review of historical results the compliance well showed elevated sulfate levels not seen in the additional 2 wells. The exact cause is unknow. We will continue to monitor.
9/30/2022	MWC-34080	P 70295	Solids, Total Dissolved (TDS)	16000	500.0	340	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for TDS have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.
9/30/2022	MWC-34080	P 00940	Chloride (as Cl)	8360	250.0	114	mg/L	MB - Maximum	In review of historical results for the intermediate and compliance well back into 2016 results for Chloride have been historically high. All reject flow from RO plant is disposed of through the permitted injection well, the drain field is not used.

Table F – Groundwater Monitoring Well Deficiencies

Groundwater Monitoring Well Deficiencies		
Well Description	**Deficiencies**	**Status**
MWI - 52184	• The monitoring well did not have an above ground protective casing. • The Label on the Intermediate monitoring well does not match the monitoring well ID in the Facility's permit. This is likely due to the fact that this well is shared as a monitoring well for both the deep injection well, and the wastewater treatment plant. In this case, the well should be labeled with the appropriate well IDs for both of these permits.	Please submit documentation to the Department indicating how the Facility will provide a protective casing for the intermediate groundwater monitoring well and ensure that it meets the criteria of the Monitoring Well Design and Construction Guidance Manual. Also please submit documentation demonstrating that the well label has been updated to reflect the monitoring well ID in the permit.
MWB - 34079	• The lock for the monitoring well needed to be replaced. • The concrete pad was covered by soil and grass.	Please submit photos to the department demonstrating that the lock for this well has been replaced and that the concrete pad has been uncovered.
MWC - 34080	• The label was missing from this monitoring well.	Please submit documentation to the Department demonstrating that a label has been provided to

	• The monitoring well did not have a concrete pad.	identify this monitoring well according to the permit. Also, please submit documentation to the Department indicating how the Facility will provide a concrete pad for the compliance groundwater monitoring well and ensure that it meets the criteria of the Monitoring Well Design and Construction Guidance Manual.

Table G – Late or Missing DMRs
12/01/2023– 11/30/2024

Monitoring Period	Date Due	Date Received	Days Late
August 2024	9/28/2024	N/A (See Note)	>30
Note: DMR Part B for Useppa Island RO Concentrate Disposal Facility (FLA146102) accidentally submitted instead of DMR Part B for Useppa Island WWTP (FLA014494).			

Table H – Sanitary Sewer Overflows
12/01/2023– 11/30/2024

LOCATION	SWO Nu.	DATE DISCHARGE OCCURRED	DATE DISCHARGE REPORTED	SPILL VOL (GAL)	SPILL VOL RECOVERED (GAL)	SPILL CHARAC-TERISTIC	CAUSE	AREA AFFECTED	CLEAN-UP
828 Useppa Island	N/A	6/5/2024	6/5/2024	800	400	Partially Treated	Break in Line	GROUND	Repair; lime

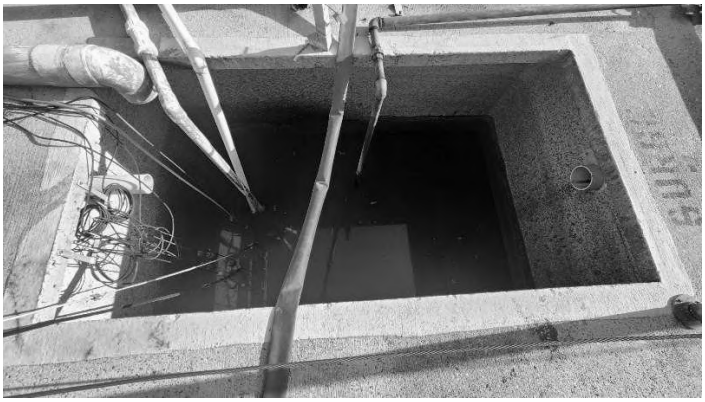
Useppa Island WWTP (FLA014494)
Photos by Alex McSurley on 1/6/2024

I certify that these photos represent the true on-site conditions observed and have not been altered in any way.

Alex McSurley

1. Influent Bar Screen

2. Surge Tank #1



3. Surge Tank #2

4. Aeration Basin #1

5. Aeration Basin #2

6. Aeration Basin #3

I certify that these photos represent the true on-site conditions observed and have not been altered in any way.

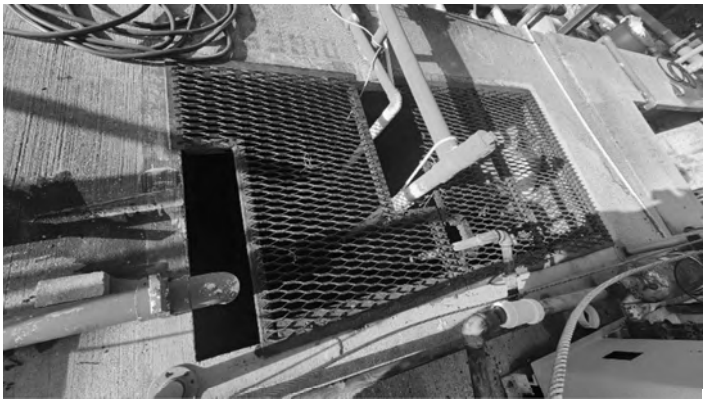
Alex McSurley

7. Aeration Basin #4

8. Clarifier #1

9. Disk Filters

10. Chlorine Contact Chamber

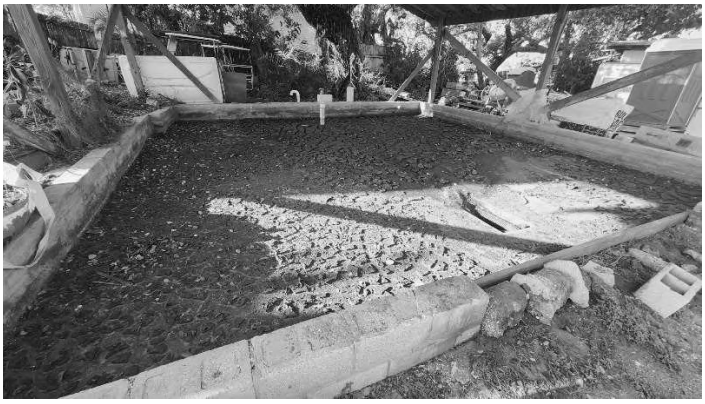


11. Digester

12. Digester

I certify that these photos represent the true on-site conditions observed and have not been altered in any way.

Alex McSurley



13. Sludge Drying Bed

14. Effluent Transfer Station

15. Percolation Pond #2

16. Percolation Pond #2

17. Percolation Pond #1

18. Disposal Area Signage

I certify that these photos represent the true on-site conditions observed and have not been altered in any way.

Alex McSurley

19. Lift Station Wet Well

20. Emergency Contact Signage

21. Lift Station Wet Well

22. Emergency Contact Signage

Useppa Island WWTP (FLA014494)
Photos by Alex McSurley on 1/6/2024

I certify that these photos represent the true on-site conditions observed and have not been altered in any way.

Alex McSurley

23. MWI – 52184

24. MWB - 34079

25. MWB – 34079 Interior

26. MWC - 34080

I certify that these photos represent the true on-site conditions observed and have not been altered in any way.

Alex McSurley

27. MWC – 34080 Interior

28. RPZ

29. Generator

30. Flow Meter

31. Clarifier #2 (Tilted)

32. Blowers

I certify that these photos represent the true on-site conditions observed and have not been altered in any way.

Alex McSurley

33. Hole in caulking at base of Bar Screen

34. Cracking/Leaking on Surge Tank #1

WASTEWATER
SIGNIFICANT NONCOMPLIANCE (SNC) DOCUMENTATION

Facility:	Useppa Island WWTP			**Inspection Date:**	1/6/2025
Inspector:	Alex McSurley	**Permit No:**	FLA014494	**Permitted Capacity:**	0.045 MGD

1. Permit

☐ Operating without a valid wastewater permit
☐ Unpermitted discharge with a high potential for water quality of health impacts
☐ Unauthorized bypass with a high potential for water quality or health impacts
☐ Unpermitted collection system with a high potential for water quality of health impacts
☐ Unauthorized substantial plant modification placed into service
☐ Unauthorized residuals or sludge disposal with a high potential for water quality of health impacts

2. Compliance Schedule

☐ Start Construction milestone exceeded by 90 days or more
☐ End construction milestone exceeded by 90 days or more
☐ Attainment of final compliance milestone exceeded by 90 days or more
☐ Failure to meet any other enforcement order or compliance schedule milestones by 90 days or more

3. Records and Reports

☐ Surface Water Discharge Monitoring Report (DMR) late by 30 or more days
☐ Land-Application Effluent Discharge Monitoring Reports – 2 or more non-submittals in 6 mo. window
☐ Falsification of any record or report
☐ Compliance schedule report or final compliance report late by 30 or more days
☐ Pretreatment reports late by 30 or more days

4. Operation and Maintenance

☐ Improper operation resulting in a high potential for water quality or health impacts
☒ Failure to perform maintenance resulting in a high potential for water quality or health impacts
☐ Missing equipment resulting in a high potential for water quality or health impacts
☐ Failure to replace malfunctioning equipment resulting in a high potential for water quality or health impacts

5. Effluent

☐ Limit exceeded by TRC 2 out of 6 months (TRC Violation)
☐ Limit exceeded 4 out of 6 months (chronic effluent violation)
☐ Total Residual Chlorine for Disinfection below minimum 10% or more of the time in a rolling 6 month period
☐ Persistent acute toxicity through follow up tests
☐ Persistent chronic toxicity through follow up tests
☐ Pollutant passthrough with a high potential for water quality or health impacts (pretreatment)
☐ Any other violation with a high potential for water quality or health impacts

6. Effluent Disposal Method

☐ Operation of unauthorized disposal system
☐ Disposal system failure with a high potential for water quality or health impacts
☐ Failure to operate disposal system as designed with a high potential for water quality or health impacts
☐ Unauthorized modification of disposal system placed into service

7. Other Violations

☒ Any violation not listed above, or pattern of noncompliance, resulting in a high potential for water quality or health impacts – (Comments or Details supporting SNC finding must be provided.)

Comments/Details:

Multiple Groundwater exceedances from July 2022 – September 2024 for TDS and Chloride.

☐ Failure to implement pretreatment program or enforce indirect users where industrial contributions cause effluent limit or disposal violations
☐ Any violation considered Significant by Secretary, Deputy Secretary, Director of District Management, or the Division Director

Attachment 4-1
Communication Date 02/05/25

Cavanaugh, Tristan T.

From: William Edwards Sr. <wjedwards@uswatercorp.net>
Sent: Wednesday, January 22, 2025 8:41 PM
To: McSurley, Alexandria
Subject: Re: Useppa wastewater plant corrected deficiencies
Attachments: Rpt_2412638_Final_v1.pdf

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Alex,
my apologies. If you need anything else let me know.

From: McSurley, Alexandria <Alexandria.McSurley@FloridaDEP.gov>
Sent: Wednesday, January 22, 2025 10:16:27 AM
To: William Edwards Sr.
Subject: RE: Useppa wastewater plant corrected deficiencies

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi William,

Thank you for the updates. Unfortunately, the groundwater lab reports that I need are the ones for the quarterly sampling that is reported on the Part D DMR for the WWTP. These appear to be the monitoring well results associated with the UIC permit. I have linked the most recent Part D submission below for reference. For the inspection report, I would need to review the documents for the sampling event on 12/18/24.

Quarter 4, 2024 (October – December) Part D DMR:
https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1360371.1]&[profile=Discovery_Compliance]

Please submit the lab reports for this sampling event.

If you have any questions, please let me know.

Thank you,

Attachment 4-1
Communication Date 01/22/25

ex McSurley
vironmental Specialist III
uth District
rida Department of Environmental Protection
95 Victoria Avenue, Suite 364
t Myers, FL 33901
exandria.McSurley@FloridaDEP.gov
in: 239-344-5600
ice: 239-344-5679

From: William Edwards Sr. <wjedwards@uswatercorp.net>
Sent: Sunday, January 19, 2025 5:44 PM
To: McSurley, Alexandria <Alexandria.McSurley@FloridaDEP.gov>
Subject: Re: Useppa wastewater plant corrected deficiencies

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

*For the month of November

*As far as the perimeter fence around the Utility department as soon as piping has been laid for the new ground storage tank Useppa will be putting in a new fence. Date has not been confirmed yet.

From: McSurley, Alexandria <Alexandria.McSurley@FloridaDEP.gov>
Sent: Tuesday, January 14, 2025 10:22:13 AM
To: William Edwards Sr.
Subject: RE: Useppa wastewater plant corrected deficiencies

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.
Hi William,

Sorry to email again so quickly. I also wanted to mention that the leak that occurred from the influent pipe and bar screen during the inspection should be reported as an SSO and an Abnormal Event Report (AER) will need to be submitted for it. Please submit the AER as soon as possible.

Thank you,

ex McSurley
vironmental Specialist III
uth District
rida Department of Environmental Protection
95 Victoria Avenue, Suite 364
t Myers, FL 33901
exandria.McSurley@FloridaDEP.gov
in: 239-344-5600
ice: 239-344-5679

From: McSurley, Alexandria
Sent: Tuesday, January 14, 2025 9:48 AM
To: William Edwards Sr. <wjedwards@uswatercorp.net>
Subject: RE: Useppa wastewater plant corrected deficiencies

Hi William,

Thank you for the continued updates. I will make sure they are reflected in the report.

I just finished up my DMR review for the WWTP and wanted to share my findings with you now so that you can resubmit corrections as time allows. There were a few transcription errors, but the main thing I wanted to make you aware of is that the DMR Part B submitted for the WWTP for August 2024 is actually the Part B for the RO concentrate disposal. I have copied my DMR review table below for your review.

Table C – Discharge Monitoring Report Deficiencies
12/01/2023– 11/30/2024

Monitoring Period	DMR (R-001) Deficiencies
October 2024	A review of the DMR revealed the following transcription errors: • The monthly maximum for Fecal Coliform was reported as <1 #/100mL. A review of Part B revealed correct value was <2 #/100mL.
August 2024	The Part B form for the Useppa Island RO Concentrate Disposal Facility (FLA146102) was mistakenly submitt for the Useppa Island WWTP (FLA014494). The Part B form for the WWTP was missing.
July 2024	A review of the DMR revealed the following transcription errors: • The monthly minimum for pH was reported as 7 s.u. A review of Part B revealed the correct value w 7.2 s.u.
May 2024	A review of the DMR revealed the following transcription errors: • The monthly maximum for Fecal Coliform was reported as <1 #/100mL. A review of Part B revealed correct value was <2 #/100mL.
February 2024	A review of the DMR revealed the following reporting errors: • The annual average for BOD was reported as 1.8 mg/L. Because the laboratory MDL was "<2 mg/L' this result must be reported as "<2 mg/L".

If you have any questions, please let me know.

Thank you,

ex McSurley
vironmental Specialist III
uth District
rida Department of Environmental Protection
95 Victoria Avenue, Suite 364
t Myers, FL 33901
xandria.McSurley@FloridaDEP.gov
in: 239-344-5600
ice: 239-344-5679

From: William Edwards Sr. <wjedwards@uswatercorp.net>
Sent: Tuesday, January 14, 2025 9:40 AM
To: McSurley, Alexandria <Alexandria.McSurley@FloridaDEP.gov>
Cc: Selina Makofsky <smakofsky@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>
Subject: Re: Useppa wastewater plant corrected deficiencies

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

*collection/transmission system O&M

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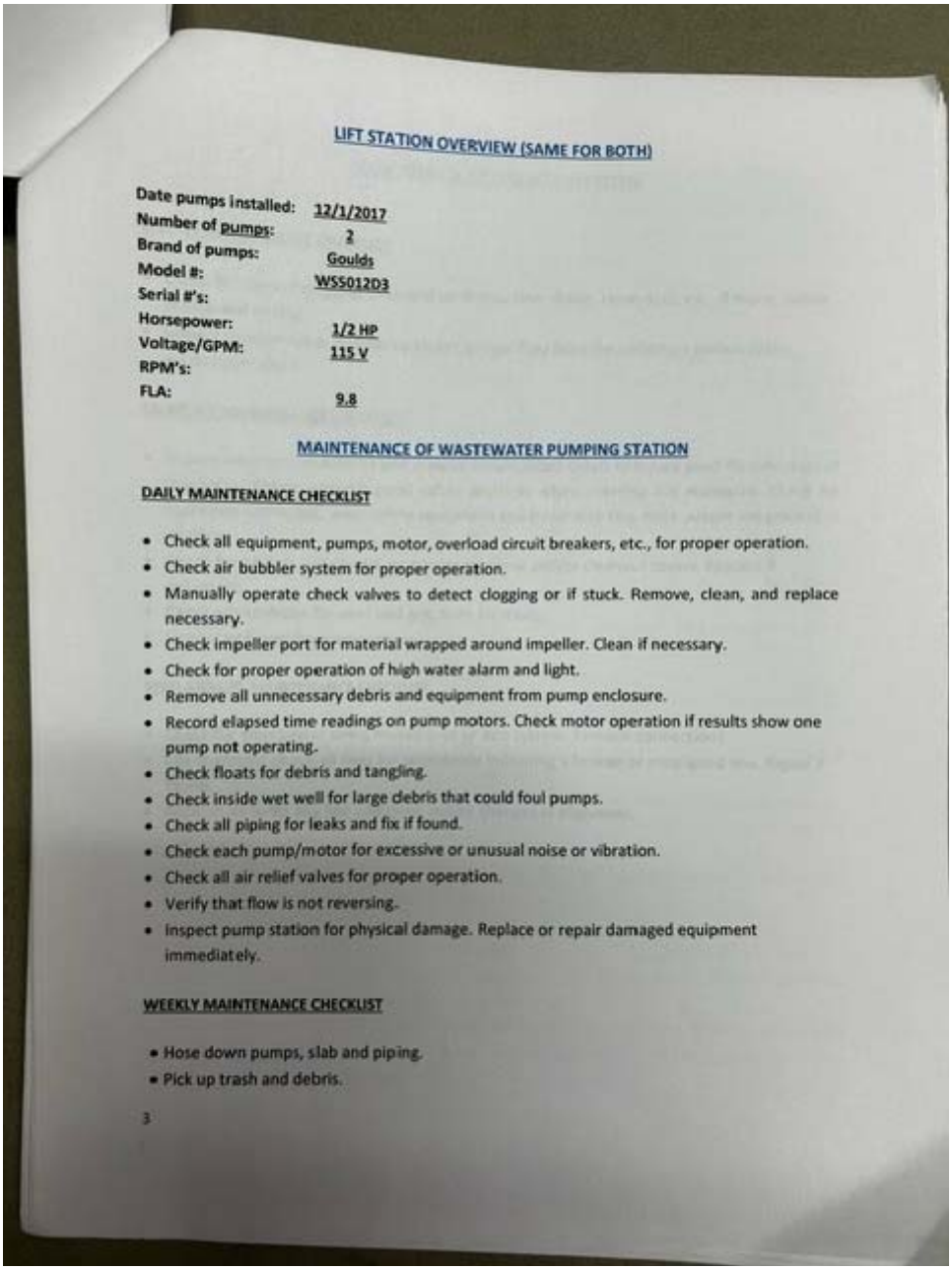


LIFT STATION OVERVIEW (SAME FOR BOTH)

Date pumps installed:	12/1/2017
Number of pumps:	2
Brand of pumps:	Goulds
Model #:	WSS012D3
Serial #'s:	
Horsepower:	1/2 HP
Voltage/GPM:	115 V
RPM's:	
FLA:	9.8

MAINTENANCE OF WASTEWATER PUMPING STATION

DAILY MAINTENANCE CHECKLIST

- Check all equipment, pumps, motor, overload circuit breakers, etc., for proper operation.
- Check air bubbler system for proper operation.
- Manually operate check valves to detect clogging or if stuck. Remove, clean, and replace necessary.
- Check impeller port for material wrapped around impeller. Clean if necessary.
- Check for proper operation of high water alarm and light.
- Remove all unnecessary debris and equipment from pump enclosure.
- Record elapsed time readings on pump motors. Check motor operation if results show one pump not operating.
- Check floats for debris and tangling.
- Check inside wet well for large debris that could foul pumps.
- Check all piping for leaks and fix if found.
- Check each pump/motor for excessive or unusual noise or vibration.
- Check all air relief valves for proper operation.
- Verify that flow is not reversing.
- Inspect pump station for physical damage. Replace or repair damaged equipment immediately.

WEEKLY MAINTENANCE CHECKLIST

- Hose down pumps, slab and piping.
- Pick up trash and debris.

3

MAINTENANCE OF COLLECTION SYSTEM

WEEKLY MAINTENANCE CHECKLIST

- Check for signs of clogging - stopped up drains, slow drains, clean-outs, etc. If found, isolate source and unclog.
- Inspect sewage pump stations to ensure proper flow from the collection system to the wastewater plant

MONTHLY MAINTENANCE CHECKLIST

- Inspect interior of manholes and remove accumulated debris to insure good flow through all manholes. Always observe good safety practices when entering live manholes. Check for hydrogen sulfide gas, wear safety equipment and make sure two more people are present at all times.
- Check for broken, misaligned, or missing manhole and/or cleanout covers. Replace if necessary.
- Check all manholes for sand and grit. Note locations.
- Inspect and exercise sewer valves.

SEMI-ANNUAL MAINTENANCE CHECKLIST

- Check for stormwater being routed over or into system. Remove connections.
- Check ground above all lines for subsidence indicating a broken or misaligned line. Repair if found.
- Note on as-builts any line additions and/or changes in alignment.

4

- **STATIC HEAD:** is the difference between the lowest liquid level necessary at the source and the highest liquid level in the discharge line.
- **TOTAL DYNAMIC HEAD (TDH):** is the total static head plus all losses incurred by the movement of the liquid the piping system.

OPERATION OF LIFT STATION PANEL

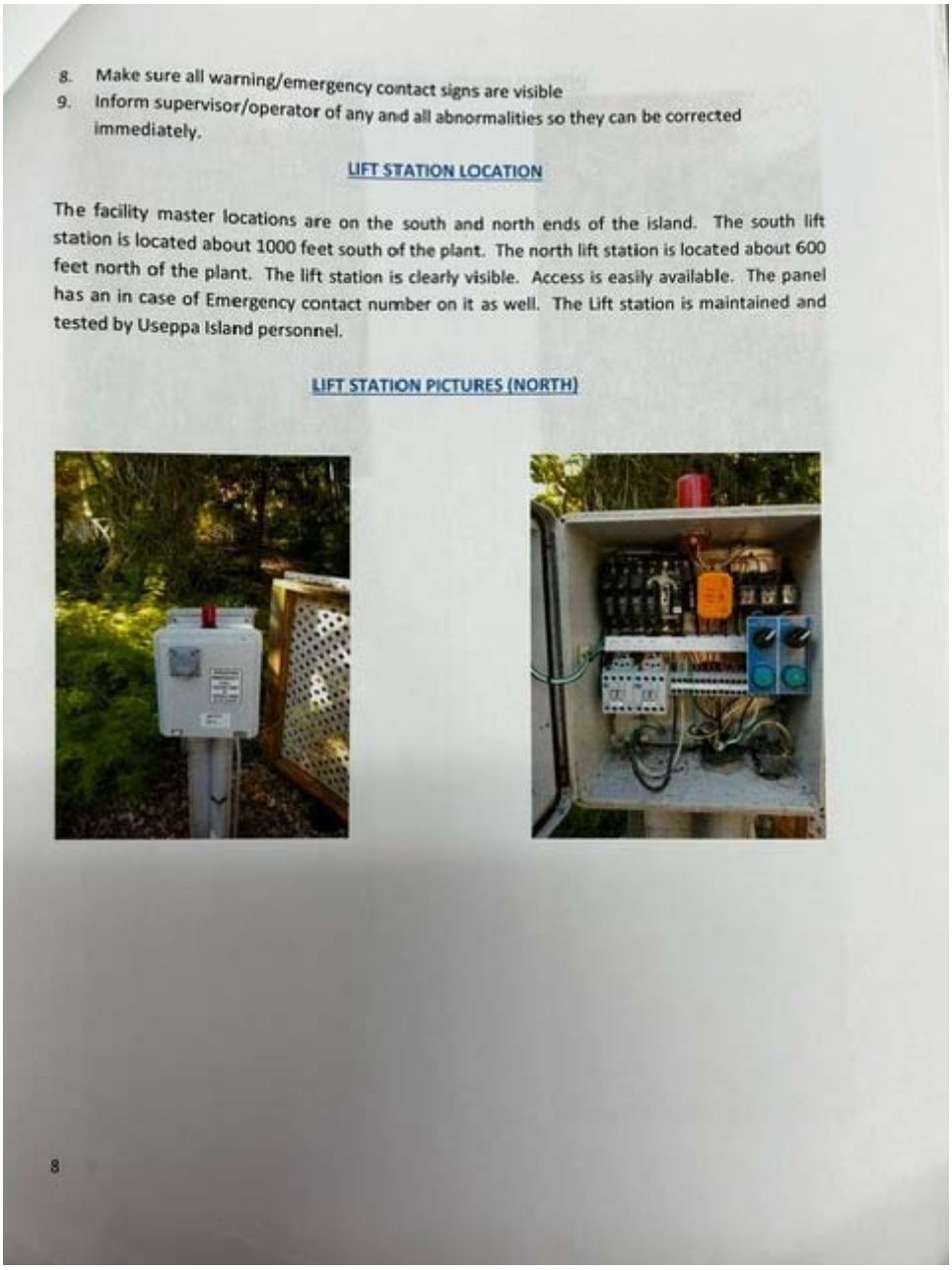
The facility has twenty two Lift Station locations. There are 2 master lift station locations. The remainder of the lift stations pump into these master stations and are maintained by Useppa Island personnel. The panels are equipped with one 40A breaker, two 20A pump breakers and a 10A control breaker. The lift stations are supplied with an emergency generator back up connection with a 40A breaker. The station is checked daily by Useppa Island personnel for proper function and reads. The panel has HOA switches for the pumps as well as Elapsed Time Meters (ETM's). There is no toggle switch to test the alarm so the high level float must be lifted in order to test the alarm. In order to test the alarm/warning light the high level float is pulled to verify that they are in working order. The lowest float is the on/off float which turns power on to the panel. The second float is the lead pump float. This float will actually turn on the first pump that is designated by the alternating switch. The third float is the lag float. This float will turn on the second float in case the lead pump cannot keep up with flows or if the first pump does not operate properly. The fourth float activates the high level audible and visual alarm to notify someone of a problem within the wet well or pumps. Once the pumps pump down below the first float the pump(s) will shut off and the alternator will switch pumps for the next cycle. There is also an alarm silence button inside of the lift station panel to silence the alarm.

OVERFLOWS/MAINTENANCE

There is a SSO response plan that is located at the main treatment facility that describes what to do in case of a spill/overflow/emergency. Please refer to this manual for the proper response and plan.

Maintenance should be performed as follows:

1. Test HOA switches weekly
2. Test audible/visual alarm weekly
3. Perform weekly amp draws on the pumps
4. Station should be checked and cleaned as needed
5. Test all breakers monthly
6. Record ETM's daily
7. Verify all lids and doors are locked and secured as needed



8. Make sure all warning/emergency contact signs are visible
9. Inform supervisor/operator of any and all abnormalities so they can be corrected immediately.

LIFT STATION LOCATION

The facility master locations are on the south and north ends of the island. The south lift station is located about 1000 feet south of the plant. The north lift station is located about 600 feet north of the plant. The lift station is clearly visible. Access is easily available. The panel has an in case of Emergency contact number on it as well. The Lift station is maintained and tested by Useppa Island personnel.

LIFT STATION PICTURES (NORTH)

8

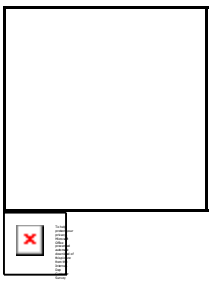
Sent from my iPhone

On Jan 9, 2025, at 20:36, William Edwards Sr. <wjedwards@uswatercorp.net> wrote:

Alexandria,
Thank you for meeting with me during the inspection. Below are some of the deficiencies found during the inspection that have since been corrected:
*bar screen leaking
*hole at top of influent pipe

If better photos are needed please let me know.
Thank you
<image0.jpeg>
<image1.jpeg>

<image2.jpeg>



Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

December 30, 2024

Useppa Utilities
PO Box 640
Bokeelia, FL 33922
TEL: 1-239-283-6078
FAX:

RE: Useppa - Qtly GW MW Order No.: 2412638

Dear :

Sanders Laboratories, Inc received 3 sample(s) on 12/18/2024 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of $50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
SL 001= Nokomis Certificate # E84380 1050 Endeavor Court Nokomis Fl 34275. SL002= Fort Myers Certificate # E85457 10090 Bavaria Road Fort Myers Fl 33913

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: **2412638**
Date: **12/30/2024**

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value. Lab QC not in range.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

S: Final DO reading is less than 1 mg/l and the difference between initial and final DO is not at least 2 mg/l or if seed dilutions have wide variance per mL seed (30%).

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: MF: Too many colonies were present for accurate counting. MPN: All wells were positive. Results maybe higher than reported.

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Environmental Testing Services

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Analytical Report

(continuous)

WO#: **2412638**

Date Reported: **12/30/2024**

CLIENT: Useppa Utilities
Project: Useppa - Qtly GW MW

Lab Order: 2412638

Lab ID: 2412638-001
Client Sample ID: MWI-52184/UI-3

Collection Date: 12/18/2024 8:59:00 AM
Matrix: GROUND WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM					**SM9222D**		Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	12/18/2024 16:00
NITROGEN, NITRATE + NITRITE					**EPA 353.2**		Analyst: **PS** Labcode **SL001**
Nitrogen, Nitrate-Nitrite	0.03	0.01	0.04	I	mg/L	1	12/20/2024 11:20
NITROGEN, NITRITE					**SM4500NO2-B**		Analyst: **BP** Labcode **SL002**
Nitrogen, Nitrite	0.0100	0.0100	0.0400	I	mg/L	1	12/19/2024 15:31
CHLORIDE					**SM4500CL- E**		Analyst: **EH** Labcode **SL001**
Chloride	2,930	2.00	8.00		mg/L	1	12/24/2024 10:49
SULFATE					**ASTM-D516-90**		Analyst: **EH** Labcode **SL001**
Sulfate	281	2.00	8.00		mg/L	1	12/24/2024 10:47
TOTAL DISSOLVED SOLIDS					**SM2540C**		Analyst: **LG** Labcode **SL002**
Total Dissolved Solids (Residue, Filterable)	6,100	20	20		mg/L	1	12/18/2024 17:00
FIELD PARAMETERS							Analyst: Labcode **SL002**
Conductivity, EPA 120.1	9122	1.0	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	2.23	0.10	0.10		mg/L		
pH,EPA 150.1	7.43	0.01	0.01		S.U.		
Temperature, EPA 170.1	27.0	0.1	0.1		deg C		
Turbidity, EPA 180.1	1.89	0.01	0.01		NTU		
Water Level	7.90	0.01	0.01		feet		

Qualifiers:

H	Holding times for preparation or analysis exceeded
PL	Permit Limit
U	Samples with CalcVal < MDL
X	Value exceeds Maximum Contaminant Level.
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(continuous)

WO#: **2412638**

Date Reported: **12/30/2024**

CLIENT: Useppa Utilities
Project: Useppa - Qtly GW MW

Lab Order: 2412638

Lab ID: 2412638-002
Client Sample ID: MWB-34079/UI-1

Collection Date: 12/18/2024 8:35:00 AM
Matrix: GROUND WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM					**SM9222D**		Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	12/18/2024 16:00
NITROGEN, NITRATE + NITRITE					**EPA 353.2**		Analyst: **PS** Labcode **SL001**
Nitrogen, Nitrate-Nitrite	0.18	0.01	0.04		mg/L	1	12/20/2024 11:20
NITROGEN, NITRITE					**SM4500NO2-B**		Analyst: **BP** Labcode **SL002**
Nitrogen, Nitrite	0.0200	0.0100	0.0400	I	mg/L	1	12/19/2024 15:31
CHLORIDE					**SM4500CL- E**		Analyst: **EH** Labcode **SL001**
Chloride	117	2.00	8.00		mg/L	1	12/24/2024 10:09
SULFATE					**ASTM-D516-90**		Analyst: **EH** Labcode **SL001**
Sulfate	31.0	2.00	8.00		mg/L	1	12/24/2024 9:57
TOTAL DISSOLVED SOLIDS					**SM2540C**		Analyst: **LG** Labcode **SL002**
Total Dissolved Solids (Residue, Filterable)	460	20	20		mg/L	1	12/18/2024 17:00
FIELD PARAMETERS							Analyst: Labcode **SL002**
Conductivity, EPA 120.1	735	1.0	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	4.08	0.10	0.10		mg/L		
pH,EPA 150.1	6.88	0.01	0.01		S.U.		
Temperature, EPA 170.1	25.6	0.1	0.1		deg C		
Turbidity, EPA 180.1	2.13	0.01	0.01		NTU		
Water Level	11.4	0.01	0.01		feet		

Qualifiers:

H	Holding times for preparation or analysis exceeded
PL	Permit Limit
U	Samples with CalcVal < MDL
X	Value exceeds Maximum Contaminant Level.
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(continuous)

WO#: **2412638**

Date Reported: **12/30/2024**

CLIENT: Useppa Utilities
Project: Useppa - Qtly GW MW

Lab Order: 2412638

Lab ID: 2412638-003
Client Sample ID: MWC-34080/UI-2

Collection Date: 12/18/2024 8:12:00 AM
Matrix: GROUND WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM					**SM9222D**		Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	12/18/2024 16:00
NITROGEN, NITRATE + NITRITE					**EPA 353.2**		Analyst: **PS** Labcode **SL001**
Nitrogen, Nitrate-Nitrite	0.59	0.01	0.04		mg/L	1	12/20/2024 11:20
NITROGEN, NITRITE					**SM4500NO2-B**		Analyst: **BP** Labcode **SL002**
Nitrogen, Nitrite	0.0700	0.0100	0.0400		mg/L	1	12/19/2024 15:31
CHLORIDE					**SM4500CL- E**		Analyst: **EH** Labcode **SL001**
Chloride	1,810	2.00	8.00		mg/L	1	12/24/2024 10:03
SULFATE					**ASTM-D516-90**		Analyst: **EH** Labcode **SL001**
Sulfate	263	2.00	8.00		mg/L	1	12/24/2024 10:01
TOTAL DISSOLVED SOLIDS					**SM2540C**		Analyst: **LG** Labcode **SL002**
Total Dissolved Solids (Residue, Filterable)	3,700	20	20		mg/L	1	12/18/2024 17:00
FIELD PARAMETERS							Analyst: Labcode **SL002**
Conductivity, EPA 120.1	6008	1.0	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	4.06	0.10	0.10		mg/L		
pH,EPA 150.1	7.32	0.01	0.01		S.U.		
Temperature, EPA 170.1	24.2	0.1	0.1		deg C		
Turbidity, EPA 180.1	5.36	0.01	0.01		NTU		
Water Level	4.90	0.01	0.01		feet		

Qualifiers:

H	Holding times for preparation or analysis exceeded
PL	Permit Limit
U	Samples with CalcVal < MDL
X	Value exceeds Maximum Contaminant Level.
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

Original

Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 3

2412638

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Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

Please Include Email Address of Report Recipient Whenever Possible!!!

SUBMITTING COMPANY: **Useppa Utilities**	REPORT TO:	BILL TO: P. O. #
PROJECT NAME: Useppa - Qtly GW MW / PROJECT #: Useppa - Qtly GW MW / QUOTE #:	COMPANY: **Useppa Utilities**	COMPANY: **Useppa Utilities**
SPECIAL INSTRUCTIONS / COMMENTS:	ADDRESS: **PO Box 640**	ADDRESS: **PO Box 640**
	CITY, STATE, ZIP: **Bokeelia, FL. 33922**	CITY, STATE, ZIP: **Bokeelia, FL. ZIP#33922**
Kit #	PHONE: **1-239-283-6078**	EMAIL (OR FAX IF NO EMAIL AVAILABLE):
SAMPLER'S PRINTED NAME:	SAMPLER'S SIGNATURE:	

Frac #	SAMPLE ID	Matrix	Bottle Type	Bottle Lot #	Chem Lot Exp	Date Sampled	Time Sampled	pH	GRAB "G" OR COMPOSITE "C"	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: Cl E Gal	FC FM	NO2 FM	NOX	SA	SO4 Gal	TDS FM	COMMENTS (Methanol Preserved Weights. HOT Sample Notation. Additional Sample Description etc.)
001A	MWI-52184/UI-3	Ground Water	250PL-NOP	8038004		12/18			G	1							√	
001B	MWI-52184/UI-3	Ground Water	250PL-NOP				0859				√					√		
001C	MWI-52184/UI-3	Ground Water	250PL-NOP										√					
001D	MWI-52184/UI-3	Ground Water	250 P HNO3	090224-2612											√			GW - 200.8 As, Cd, Cr, Pb w/ HNO3 pH<2
001E	MWI-52184/UI-3	Ground Water	MICRO	9197008								√						w/ Thio
001F	MWI-52184/UI-3	Ground Water	250PL-H2SO4	3-255-002										√				w/ H2SO4 pH<2
002A	MWB-34079/UI-1	Ground Water	250PL-NOP	8038006			0835										√	
002B	MWB-34079/UI-1	Ground Water	250PL-NOP								√					√		
002C	MWB-34079/UI-1	Ground Water	250PL-NOP										√					
002D	MWB-34079/UI-1	Ground Water	250 P HNO3	090224-2612											√			GW - 200.8 As, Cd, Cr, Pb w/ HNO3 pH<2
002E	MWB-34079/UI-1	Ground Water	MICRO	9197008								√						w/ Thio

Relinquished By:	Date: 12/18	Time: 1400	Received By: TMH	12/18/24	Date:	Time: 1400
Relinquished By:	Date:	Time:	Received By:		Date:	Time:
Relinquished By:	Date:	Time:	Received By:		Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples 5.4 °C Attempt to Cool ? Y
Comments:

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

PAGE: 2 OF: 3

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Kit #	PHONE: **1-239-283-6078**	EMAIL (OR FAX IF NO EMAIL AVAILABLE):
SAMPLER'S PRINTED NAME:	SAMPLER'S SIGNATURE:	

Frac #	SAMPLE ID	Matrix	Bottle Type	Bottle Lot #	Chem Lot Exp	Date Sampled	Time Sampled	pH	GRAB "G" OR COMPOSITE "C"	NUMBER OF CONTAINERS	Cl E Gal	FC FM	NO2 FM	NOX	SA	SO4 Gal	TDS FM	COMMENTS
002F	MWB-34079/UI-1	Ground Water	250PL-H2SO4	3-235-002		12/18	0835		G	1				√				w/ H2SO4 pitcz
003A	MWC-34080/UI-2	Ground Water	250PL-NOP	8038006			0812										√	
003B	MWC-34080/UI-2	Ground Water	250PL-NOP								√					√		
003C	MWC-34080/UI-2	Ground Water	250PL-NOP										√					
003D	MWC-34080/UI-2	Ground Water	250 P HN03	090224-2512											√			GW - 200.8 As, Cd, Cr, Pb w/ HNO3 pitcz
003E	MWC-34080/UI-2	Ground Water	MICRO	9197005								√						w/ Thio
003F	MWC-34080/UI-2	Ground Water	250PL-H2SO4	3-235-002										√				w/ H2SO4 pitcz

Relinquished By:	Date: 12/18	Time: 1400	Received By:	Date: 12/18/24	Time: 1400
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples 5.4 °C Attempt to Cool ? Y
Comments:

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

CHAIN OF CUSTODY RECORD

PAGE: 3 OF: 3

24126.38

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PROJECT NAME: Useppa - Qtly GW MW / PROJECT #: Useppa - Qtly GW MW / QUOTE #:	COMPANY: **Useppa Utilities**	COMPANY: **Useppa Utilities**
SPECIAL INSTRUCTIONS / COMMENTS:	ADDRESS: **PO Box 640**	ADDRESS: **PO Box 640**
	CITY, STATE, ZIP: **Bokeelia, FL. 33922**	CITY, STATE, ZIP: **Bokeelia, FL. ZIP#33922**
Kit #	PHONE: **1-239-283-6078**	EMAIL (OR FAX IF NO EMAIL AVAILABLE):
SAMPLER'S PRINTED NAME: Christian B	SAMPLER'S SIGNATURE:	

Frac #	SAMPLE ID	Matrix	Bottle Type	Bottle Lot #	Chem Lot Exp	Date Sampled	Time Sampled	pH	GRAB "G" OR COMPOSITE "C"	NUMBER OF CONTAINERS	Cl E Gal	FC FM	NO2 FM	NOX	SA	SO4 Gal	TDS FM	COMMENTS
																		Methanol Preserved Weights. HOT Sample Notation. Additional Sample Description etc.

Testcode to method definitions: ALK=A2320,APC=BAMCH23,APC PETRI=AOAC 990.12,APC/G=CCMEF 6.33/AOAC 966.23,APC/ML=CCFRA 2.1,APC/SWAB=AOAC 986.33,BOD=A5210B,BOD FM=A5210B,Ca Hard=EPA 215.2,CBOD=A5210B,CBOD FM=A5210B,CHLOROA=A10200H,CL- B DW=A4500-Cl-B,CL- E NP=A4500-Cl-E,CL- SOLID=FM_5-552,CL2=E330.5,Cl2 FM=E330.5,COLI PETRI=AOAC 991.14,COLOR=A2120B,Color FM=A2120B,COND=A2510B,COND FM=A2510B,EB=AOAC 2003.01,EB C=CMMEF 8.631,EC 0157=AOAC Cert #001101,EC J=AOAC 992.3,EC01572=AOAC 996.09,ECOLI=EC + MUG,Enterococcus=E1600,ENTEROLERT=Enterolert,F-=A4500-F-C,FC=A9222D,FC FM=A9222D,FC MPN=A9221E,FC MPN FM=A9221E,FC MUG=A9223B,FC MUG FM=A9223B,FC STREP=A9230C,FCMPN=A9221E,HARD=A2340C,HPC=A9215B,LEGA=Legiolert,LIST PCR=AOAC #090701,LISTERIA BR=RI030406,LMONO PCR=010802,MOLD=FDA/BAM Ch. 18,MOLD G RES=ASTM D3273,MOLD ID=McCrone,NH3=E350.1,NH3 Solid=E350.1,NH4=E350.1,NO2=E353.2,NO2 FM=A4500-NO2-B,NO3 SOLID=E353.2,NOX=E353.2,NOX Solid=E353.2,ODOR=A2150B,Odor FM=A2150B,OPHOS=A4500-P-E,Org N=E351.2,Org N Solid=E351.2,PH=A4500-H+-B,PH F=AOAC 981.12,pH FM=A4500-H+-B,pH Sludge=E9040C,PH SOLID=E9045D,SALM PCR=010803,SIO2=A4500-SiO2 C,SO4=ASTM-D516-90,STAPH=AOAC 2003.07,Strep=A9230C,SA- Subcontract PACE BCS ALS FRC Microbac Eurofins,TC MF=A9222B,TC MF FM=A9222B,TC MUG=A9223B,TC MUG FM=A9223B,TDS=A2540C,TDS FM=A2540C,TKN=E351.2,TKN Solid=E351.2,TN=E351.2,TN Solid=E351.2,TP=E365.4,TP Diss=E365.4,TP Solid=E365.4,TS=A2540B,TS %=A2540G,TSS=A2540D,TSS FM=A2540D,TURB=E180.1,TVSS=E160.4,Un NH3=E350.1,Y M=FDA/BAM 8th Ed.

Relinquished By:	Date: 12/18	Time: 1400	Received By:	Date: 12/18/24	Time: 1400
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples 5.4 °C Attempt to Cool ? Y

Comments:

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

Sanders Laboratories
Environmental Testing Services

DEP Form FD 9000-24:
SAMPLING LOG

SITE NAME: Keppel		SITE LOCATION: Gulfport	
WELL NO: MW1 5284/UI3	SAMPLE ID:		DATE: 12/18/24

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 4" 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.9	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13.10 feet – 7.90 feet) X 0.16 gallons/foot = 0.832 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VO... = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
9.5	9.5	0851	0859	4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH EPA 150.1 (standard units)	TEMP. EPA 170.1 (°C)	COND. EPA 120.1 (circle units) µmhos/cm or SAL ppt	DISSOLVED OXYGEN EPA 360.1 mg/L	TURBIDITY EPA 180.1 (NTUs)	COLOR (describe)	ODOR (describe)
Equipment Serial Numbers				6240	20A100 132	20A100 132	20A10013 2	20A100132	18051784		
					DUP		Blank:		Blank:		
							Dup:		Dup:		
0853	1.0	1.0	1/2	8.2	7.29	26.3	8743	2.57	3.02	Clear	Super
0855	|	2.0	|	8.3	7.40	26.8	9098	2.25	2.43	|	|
0857	|	3.0	|	8.4	7.41	27.0	9128	2.36	2.07	|	|
0859	|	4.0	|	8.4	7.43	27.0	9122	2.23	1.89	|	|

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0023; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Christian Bonilla	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0859	SAMPLING ENDED AT: 0909
PUMP OR TUBING DEPTH IN WELL (feet): 9.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y N X Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) X N	TUBING (Y) N X (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
5038006	3	HDPE	250mL	HCl			TDS, Cl, SO4, NO2	PP	SEE
0910224-2E121	1	|	|	HNO3	N/A	<2	SA, Pb, Cd, Cr	Pb	|
3-225-002	1			H2SO4	|	1	NOx	|	Purge rate
4197005	1	PP	1000mL	Alk. Cl2			Cl		

REMARKS:
PH Paper: 228323 10/1/26

MATERIAL CODES: AG = Amber Glass; CC = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: AFP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Peristaltic Pump Geotech S/N: 4116 Submersible Pump S/N:016549 Chlorine Meter : S/N: 1222013

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Sander Laboratories, Inc. North
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Nokomis, Fl
941-234-1000
FDOH #E84380

Sanders Laboratories Inc, South
10090 Bavaria Rd
Fort Myers, Fl
239-590-0337
FDOH #E84380

Sanders Laboratories
Environmental Testing Services

DEP Form FD 9000-24:
SAMPLING LOG

SITE NAME: USeppa 1		SITE LOCATION: Gardner	
WELL NO: MW B-340A/MW I	SAMPLE ID:		DATE: 12/18/24

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 3/8 (ID)	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 11.4	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.55 feet – 11.40 feet) X 0.16 gallons/foot = 0.504 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/fcot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
13	13	0821	0835	4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH EPA 150.1 (standard units)	TEMP. EPA 170.1 (°C)	COND. EPA 120.1 (circle units) µmhos/cm or SAL ppt	DISSOLVED OXYGEN EPA 360.1 mg/L	TURBIDITY EPA 180.1 (NTUs)	COLOR (describe)	ODOR (describe)
Equipment Serial Numbers				6240	20A100 132	20A100 132	20A10013 2	20A100132	18051784		
					DUP		Blank:		Blank:		
							Dup:		Dup:		
0829	1.0	1.0	½	11.6	7.06	25.2	882	3.57	2.99	Clear	Sulfur
0831	1	2.0	1	11.8	6.86	25.5	739	4.12	2.78	1	1
0833	1	3.0	1	11.8	6.86	25.6	738	4.01	2.55	1	1
0835	1	4.0	1	11.9	6.88	25.6	735	4.08	2.13		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.003; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Christian Bonilla	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0835	SAMPLING ENDED AT: 0845
PUMP OR TUBING DEPTH IN WELL (feet): 13	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y N X Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) X N	TUBING (Y) N X (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
P03006	3	HDPE	250mL	ICE			TDS, Cl, SO4, NO2	APP	SEE
0960324-2012	1	1	1	HNO3	NLA	<2	SM AS, Cd, Cr, Pb	1	Purge
3225-OUR	1	1	1	H2SO4	1	1	NOx		rate
4197LWT	1	PP	100mL	micro			Fc		

REMARKS:

PH Paper: 228323 10/1/26

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Peristaltic Pump Geotech S/N; 4116 Submersible Pump S/N:016549 Chlorine Meter : S/N: 1222013

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Fort Myers, Fl
239-590-0337
FDOH #E84380

Sanders Laboratories
Environmental Testing Services

DEP Form FD 9000-24:
SAMPLING LOG

SITE NAME: USEPA		SITE LOCATION: GW MW	
WELL NO: MWC 3080/UI 2	SAMPLE ID:		DATE: 12/18/24

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 4.9	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (8.10 feet − 4.90 feet) X 0.16 gallons/foot = 0.512 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.4	6.4	0804	0812	4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH EPA 150.1 (standard units)	TEMP. EPA 170.1 (°C)	COND. EPA 120.1 (circle units) µmhos/cm or SAL ppt	DISSOLVED OXYGEN EPA 360.1 mg/L	TURBIDITY EPA 180.1 (NTUs)	COLOR (describe)	ODOR (describe)
Equipment Serial Numbers				6240	20A100 132	20A100 132	20A10013 2	20A100132	18051784		
					DUP		Blank:		Blank:		
							Dup:		Dup:		
0806	1.0	1.0	1/2	5.1	7.34	23.5	5762	4.65	8.02	Clear	Sulfur
0808	1	2.0		5.3	7.36	24.2	6013	4.15	6.44		
0810		3.0		5.4	7.38	24.4	6002	4.11	5.87		
0812		4.0		5.4	7.32	24.2	6008	4.06	5.36		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Christian Bonilla	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0812	SAMPLING ENDED AT: 0822
PUMP OR TUBING DEPTH IN WELL (feet): 6.4	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y N X Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) X N	TUBING (Y) N X (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
5028080	3	HDPE	250mL	ICE			TDS, Cl, SO4, NO2	APP	SLEE
0224-2812	1	1	1	HNO3	N.A.	<2	SM AS, Cd, Cr, Pb		Purge
3-235-002	1	1	1	H2SO4	1	1	NOx		rate
4197007	1	PP	100mL	Unpres			Fe		

REMARKS:

PH Paper: 228323 10/1/26

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Peristaltic Pump Geotech S/N; 4116 Submersible Pump S/N:016549 Chlorine Meter : S/N: 1222013

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2) optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

December 23, 2024

Tami Bright
Sanders Laboratories, Inc.
10090 Bavaria Rd
Fort Myers, FL 33913

RE: Project: 2412638
Pace Project No.: 35926329

Dear Tami Bright:

Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bradley Smith

Brad Smith
brad.smith@pacelabs.com
(386) 672-5668
Project Manager

Enclosures

cc: Katie Strothman, Sanders
Katie Strothman*, Sanders Laboratories, Inc.

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Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: 2412638
Pace Project No.: 35926329

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
California Certification# 3096
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
DoD-ANAB #:ADE-3199
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Utah
Utah FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: 2412638
Pace Project No.: 35926329

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35926329001	**2412638-001**	Water	12/18/24 08:59	12/20/24 11:40
35926329002	**2412638-002**	Water	12/18/24 08:35	12/20/24 11:40
35926329003	**2412638-003**	Water	12/18/24 08:12	12/20/24 11:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2412638
Pace Project No.: 35926329

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35926329001	**2412638-001**	EPA 200.8	EAP	4	PASI-O
35926329002	**2412638-002**	EPA 200.8	EAP	4	PASI-O
35926329003	**2412638-003**	EPA 200.8	EAP	4	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: 2412638
Pace Project No.: 35926329

Sample: 2412638-001 **Lab ID: 35926329001** Collected: 12/18/24 08:59 Received: 12/20/24 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Arsenic	**0.00060 I**	mg/L	0.0010	0.00050	1	12/23/24 04:59	12/23/24 14:28	7440-38-2	
Cadmium	**0.000067 U**	mg/L	0.00010	0.000067	1	12/23/24 04:59	12/23/24 14:28	7440-43-9	
Chromium	**0.00050 U**	mg/L	0.0010	0.00050	1	12/23/24 04:59	12/23/24 14:28	7440-47-3	
Lead	**0.00022 U**	mg/L	0.0010	0.00022	1	12/23/24 04:59	12/23/24 14:28	7439-92-1	

Sample: 2412638-002 **Lab ID: 35926329002** Collected: 12/18/24 08:35 Received: 12/20/24 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Arsenic	**0.044**	mg/L	0.0010	0.00050	1	12/23/24 04:59	12/23/24 14:33	7440-38-2	
Cadmium	**0.000092 I**	mg/L	0.00010	0.000067	1	12/23/24 04:59	12/23/24 14:33	7440-43-9	
Chromium	**0.0015**	mg/L	0.0010	0.00050	1	12/23/24 04:59	12/23/24 14:33	7440-47-3	
Lead	**0.00022 U**	mg/L	0.0010	0.00022	1	12/23/24 04:59	12/23/24 14:33	7439-92-1	

Sample: 2412638-003 **Lab ID: 35926329003** Collected: 12/18/24 08:12 Received: 12/20/24 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Arsenic	**0.082**	mg/L	0.0010	0.00050	1	12/23/24 04:59	12/23/24 14:37	7440-38-2	
Cadmium	**0.00050**	mg/L	0.00010	0.000067	1	12/23/24 04:59	12/23/24 14:37	7440-43-9	
Chromium	**0.0059**	mg/L	0.0010	0.00050	1	12/23/24 04:59	12/23/24 14:37	7440-47-3	
Lead	**0.0024**	mg/L	0.0010	0.00022	1	12/23/24 04:59	12/23/24 14:37	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2412638
Pace Project No.: 35926329

QC Batch: 1065057
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35926329001, 35926329002, 35926329003

METHOD BLANK: 5851245 Matrix: Water
Associated Lab Samples: 35926329001, 35926329002, 35926329003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	0.00050 U	0.0010	0.00050	12/23/24 10:41	
Cadmium	mg/L	0.000067 U	0.00010	0.000067	12/23/24 10:41	
Chromium	mg/L	0.00050 U	0.0010	0.00050	12/23/24 10:41	
Lead	mg/L	0.00022 U	0.0010	0.00022	12/23/24 10:41	

LABORATORY CONTROL SAMPLE: 5851246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.05	0.050	99	85-115	
Cadmium	mg/L	0.005	0.0049	97	85-115	
Chromium	mg/L	0.05	0.051	102	85-115	
Lead	mg/L	0.05	0.048	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5851247 5851248

Parameter	Units	35925867001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	1.4 ug/L	0.05	0.05	0.052	0.051	102	99	70-130	3	20	
Cadmium	mg/L	2.2 ug/L	0.005	0.005	0.0072	0.0069	99	93	70-130	4	20	
Chromium	mg/L	23.9 ug/L	0.05	0.05	0.072	0.070	97	93	70-130	3	20	
Lead	mg/L	1.6 ug/L	0.05	0.05	0.049	0.048	95	93	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5851249 5851250

Parameter	Units	35926321001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0062	0.05	0.05	0.056	0.056	100	99	70-130	1	20	
Cadmium	mg/L	0.000067 U	0.005	0.005	0.0049	0.0051	99	102	70-130	3	20	
Chromium	mg/L	0.0016	0.05	0.05	0.052	0.051	101	99	70-130	2	20	
Lead	mg/L	0.00022 U	0.05	0.05	0.049	0.048	97	96	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(386)672-5668

QUALIFIERS

Project: 2412638
Pace Project No.: 35926329

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2412638
Pace Project No.: 35926329

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35926329001	**2412638-001**	EPA 200.8	1065057	EPA 200.8	1065084
35926329002	**2412638-002**	EPA 200.8	1065057	EPA 200.8	1065084
35926329003	**2412638-003**	EPA 200.8	1065057	EPA 200.8	1065084

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Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

Omega COCID 25144 | PAGE: 1 | OF: 1

WO# : 35926329

35926329

ADDRESS
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10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

SUB CONTRATOR: **Pace** COMPANY: **Pace Analytical**

ADDRESS: **8 East Tower Circle**

CITY, STATE, ZIP: **Ormond Beach, FL 32174**

PHONE: **(386) 676-4837** FAX: **(386) 673-4001** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2412638-001D	MWI-52184/UI-3	250 P HN03	Ground Water	12/18/2024 8:59:00 AM	1	GW - 200.8 As, Cd, Cr, Pb w/ HNO3
	See Attached						
2	2412638-002D	MWB-34079/UI-1	250 P HN03	Ground Water	12/18/2024 8:35:00 AM	1	GW - 200.8 As, Cd, Cr, Pb w/ HNO3
	See Attached						
3	2412638-003D	MWC-34080/UI-2	250 P HN03	Ground Water	12/18/2024 8:12:00 AM	1	GW - 200.8 As, Cd, Cr, Pb w/ HNO3
	See Attached						

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TMA	12/18/24	1740	FedEx		
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
			JRS Acme	12-20-24	1110
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples 1.6 °C Attempt to Cool ?

Comments:

Pace

Sample Condition Upon Receipt Form (SCUR)

WO# : 35926329

PM: BTS **Due Date: 12/30/24**

CLIENT: SANLAB

Project #

Project Manager:

Client:

Date and Initials of person:

Examining contents: BP

Verifying pH: _____

Thermometer Used: T414 Date: 12-20-24 Time: 1143 Initials: JRS

State of Origin: _____

☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 1.6	**(Visual)** -0.3	**(Correction Factor)** 1.6	**(Actual)**	☐Samples on ice, cooling process has begun.
Cooler #2 Temp.°C _____	**(Visual)** _____	**(Correction Factor)** _____	**(Actual)**	☐Samples on ice, cooling process has begun.
Cooler #3 Temp.°C _____	**(Visual)** _____	**(Correction Factor)** _____	**(Actual)**	☐Samples on ice, cooling process has begun.
Cooler #4 Temp.°C _____	**(Visual)** _____	**(Correction Factor)** _____	**(Actual)**	☐Samples on ice, cooling process has begun.
Cooler #5 Temp.°C _____	**(Visual)** _____	**(Correction Factor)** _____	**(Actual)**	☐Samples on ice, cooling process has begun.
Cooler #6 Temp.°C _____	**(Visual)** _____	**(Correction Factor)** _____	**(Actual)**	☐Samples on ice, cooling process has begun.
Recheck for OOT °C _____	**(Visual)** _____	**(Correction Factor)** _____	**(Actual)**	☐Samples on ice, cooling process has begun.

Courier: ☑Fed Ex ☐UPS ☐USPS ☐Client ☐Commercial ☐Pace ☐Other: **Time:** _____ **Initials:** _____

Shipping Method: ☐Standard Overnight ☐First Overnight ☑Priority Overnight ☐Ground ☐International Priority ☐Other: _____

Billing: ☑Recipient ☐Sender ☐Third Party ☐Credit Card ☐Unknown

Tracking # 8152 6450 1560

Custody Seal Present: ☐Yes ☑No **Seal properly placed and intact:** ☐Yes ☐No **Ice:** ☐Wet ☐Blue ☐Dry ☑None ☐Melted

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☑None ☐Other:

Samples shorted to lab: ☐Yes ☐No (If yes, complete the following)

Shorted Date: _____ **Shorted Time:** _____

Bottle Quantity / Type:

Chain of Custody:	**Present:** ☑Yes ☐No | **Filled Out:** ☑Yes ☐No ☐N/A | **Sampler Name:** ☑Yes ☐No ☐N/A			
	Relinquished To Pace: ☑Yes ☐No ☐N/A | **Sampling Date(s):** ☑Yes ☐No ☐N/A | **Sampling Time(s):** ☑Yes ☐No ☐N/A			
Samples Arrived within Hold Time.	☑Yes	☐No	☐N/A	Comments:
Rush Turnaround Requested on COC.	☐Yes	☑No	☐N/A	Comments:
Sufficient Volume.	☑Yes	☐No	☐N/A	Comments:
Correct Containers Used.	☑Yes	☐No	☐N/A	Comments:
Containers Intact.	☑Yes	☐No	☐N/A	Comments:
Sample Labels Match COC (Sample ID, Date/Time of Collection).	☑Yes	☐No	☐N/A	Comments:
All containers needing acid / base preservation have been checked.	☑Yes	☐No	☐N/A	**Preservation Information**
All containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☑Yes	☐No	☐N/A	**Preservative:** _____ **Lot / Trace:** _____ **Amount added (mL):** _____ **Date:** _____ **Time:** _____ **Initials:** _____
Headspace in Volatile Vials? (>6mm):	☐Yes	☐No	☑N/A	
Trip Blank Present:	☐Yes	☐No	☑N/A	

Comments / Resolutions (use back for additional comments):

Labeled by: JRS **Reviewed by:** STL **Delivered by:** STL

Cavanaugh, Tristan T.

From: William Edwards Sr. <wjedwards@uswatercorp.net>
Sent: Sunday, January 19, 2025 5:44 PM
To: McSurley, Alexandria
Subject: Re: Useppa wastewater plant corrected deficiencies
Attachments: IW Nov 2024.pdf; MW1MW2 Nov 2024.pdf; Useppa Labs 11-11-2024.pdf; Useppa Labs 11-18-2024.pdf; Useppa Labs 11-19-2024.pdf; Useppa Labs 11-25-2024.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

*For the month of November

*As far as the perimeter fence around the Utility department as soon as piping has been laid for the new ground storage tank Useppa will be putting in a new fence. Date has not been confirmed yet.

From: McSurley, Alexandria <Alexandria.McSurley@FloridaDEP.gov>
Sent: Tuesday, January 14, 2025 10:22:13 AM
To: William Edwards Sr.
Subject: RE: Useppa wastewater plant corrected deficiencies

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi William,

Sorry to email again so quickly. I also wanted to mention that the leak that occurred from the influent pipe and bar screen during the inspection should be reported as an SSO and an Abnormal Event Report (AER) will need to be submitted for it. Please submit the AER as soon as possible.

Thank you,

Alex McSurley
Environmental Specialist III
South District
Florida Department of Environmental Protection
2295 Victoria Avenue, Suite 364
Fort Myers, FL 33901
Alexandria.McSurley@FloridaDEP.gov
Main: 239-344-5600
Office: 239-344-5679

Attachment 4-1
Communication Date 01/19/25

FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor
Jeanette Nuñez
Lt. Governor
Shawn Hamilton
Secretary

Wastewater Abnormal Event 5 Day Report

This form is provided for your convenience only, in order to report the required information to Florida DEP. You may complete this form and email to the appropriate District office, as listed below.

Northwest District – NWD_WastewaterCompliance@floridadep.gov
Northeast District - DEP_NED@floridadep.gov
South District – SD-AbnormalEvents@floridadep.gov
Southeast District - SED.Wastewater@dep.state.fl.us
Southwest District - SWD_DW@floridadep.gov
Central District – DEP_CD@floridadep.gov

These incidents, and the corresponding Public Notice of Pollution, may also be reported through the DEP Business Portal. If it is preferred to submit these separately, the PNP may be submitted here. If the spill is greater than 1000 gallons, it MUST be reported to the State Watch Office at 1-800-320-0519 and a PNP MUST be submitted. All fields with an asterisk (*) must be completed as they are required by rule 62-620.610, F.A.C.

Responsible Party Information

*Facility Name: Useppa Island Utilities
*Permit Number: FLA014494
*Facility Type: Domestic
*County: Lee
*Reporter Name: William Edwards, operations/Selina Makofsky, compliance
*Reporter Phone: 866-753-8292
*Reporter Email: WasteWater@uswatercorp.net
*Reporter Address: 4939 Cross Bayou Boulevard, NPR FL
* Responsible Party Name: Useppa Island Utilities
*Responsible Party Address: PO Box 640, Bokeelia FL
*Responsible Party Phone: 239-283-1061
*Responsible Party Email: utilities@useppa.com

Who was contacted?

DEP	State Watch Office	Other
*Date and Time: 1/6/2025 9:00 AM	*Date and Time:	*Date and Time:
*Person Contacted: Florida Department of Environmental Protection	*Incident Number:	*Person Contacted:

Spill Information

*Spill Characteristic / Wastewater: Untreated
*Type Source: Force Main / Gravity Line
*Area affected: Ground

Attachment 4-1
Communication Date 01/15/25

*Date / Time Discharge Began: 1/6/2025 9:00:00 AM

*Amount Discharged (in gallons): 15

*AmountRecovered (in gallons): 0

*Date / Time Discharge Ceased: 1/6/2025 9:05:00 AM

*Physical Address:

*Latitude/Longitude:

* Malfunction/Cause: Break in Line

Effluent Limit Violations

- ☐ CL2 (mg/L)
- ☐ TSS (mg/L)
- ☐ Turbidity (NTU)
- ☐ NO3 (mg/L)
- ☐ OTHER
- ☐ Fecal Coliforms (CFU/100 ml)
- ☐ PH (SU)
- ☐ CBOD5 (mg/L)
- ☐ Abnormal Flow (MGD)

*Clean Up Status: Complete

***Clean up Actions:**

- ☐ Vacuumed/Pump Truck
- ☐ Applied Disinfectanc
- ☑ Applied Lime
- ☐ Applied HTH/chlorine
- ☐ Applied absorbents
- ☐ Washed down area
- ☐ Water samples/field measurements taken
- ☐ Raked and disposed of debris
- ☐ Signs posted
- ☐ Other

Sampling results / Field readings:

*Incident Description and Remedial Action Being Taken (include estimated time for completion)

During site inspection conducted on January 6, staff and DEP observed wastewater discharging out of an influent pipe and running onto the grassy ground below. Approximately 15 gallons in total was discharged. The discharge was due to a hole in the top of the line which overflowed when a high level of wastewater was in the pipe. The hole was immediately plugged/sealed.
By 10 am it was sealed and lime had been spread on the grounds. No material was recovered.

*Future Preventative Measures:

Operator will continue to monitor and report as required.

From: McSurley, Alexandria
Sent: Tuesday, January 14, 2025 9:48 AM
To: William Edwards Sr. <wjedwards@uswatercorp.net>
Subject: RE: Useppa wastewater plant corrected deficiencies

Hi William,

Thank you for the continued updates. I will make sure they are reflected in the report.

I just finished up my DMR review for the WWTP and wanted to share my findings with you now so that you can resubmit corrections as time allows. There were a few transcription errors, but the main thing I wanted to make you aware of is that the DMR Part B submitted for the WWTP for August 2024 is actually the Part B for the RO concentrate disposal. I have copied my DMR review table below for your review.

Table C – Discharge Monitoring Report Deficiencies
12/01/2023– 11/30/2024

Monitoring Period	DMR (R-001) Deficiencies
October 2024	A review of the DMR revealed the following transcription errors: • The monthly maximum for Fecal Coliform was reported as <1 #/100mL. A review of Part B revealed correct value was <2 #/100mL.
August 2024	The Part B form for the Useppa Island RO Concentrate Disposal Facility (FLA146102) was mistakenly submitted for the Useppa Island WWTP (FLA014494). The Part B form for the WWTP was missing.
July 2024	A review of the DMR revealed the following transcription errors: • The monthly minimum for pH was reported as 7 s.u. A review of Part B revealed the correct value w 7.2 s.u.
May 2024	A review of the DMR revealed the following transcription errors: • The monthly maximum for Fecal Coliform was reported as <1 #/100mL. A review of Part B revealed correct value was <2 #/100mL.
February 2024	A review of the DMR revealed the following reporting errors: • The annual average for BOD was reported as 1.8 mg/L. Because the laboratory MDL was "<2 mg/L' this result must be reported as "<2 mg/L".

If you have any questions, please let me know.

Thank you,

Alex McSurley
Environmental Specialist III
South District
Florida Department of Environmental Protection
2295 Victoria Avenue, Suite 364
Fort Myers, FL 33901
Alexandria.McSurley@FloridaDEP.gov
Main: 239-344-5600
Office: 239-344-5679

From: William Edwards Sr. <wjedwards@uswatercorp.net>
Sent: Tuesday, January 14, 2025 9:40 AM
To: McSurley, Alexandria <Alexandria.McSurley@FloridaDEP.gov>
Cc: Selina Makofsky <smakofsky@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>
Subject: Re: Useppa wastewater plant corrected deficiencies

Attachment 4-1
Communication Date 01/14/25

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

*collection/transmission system O&M

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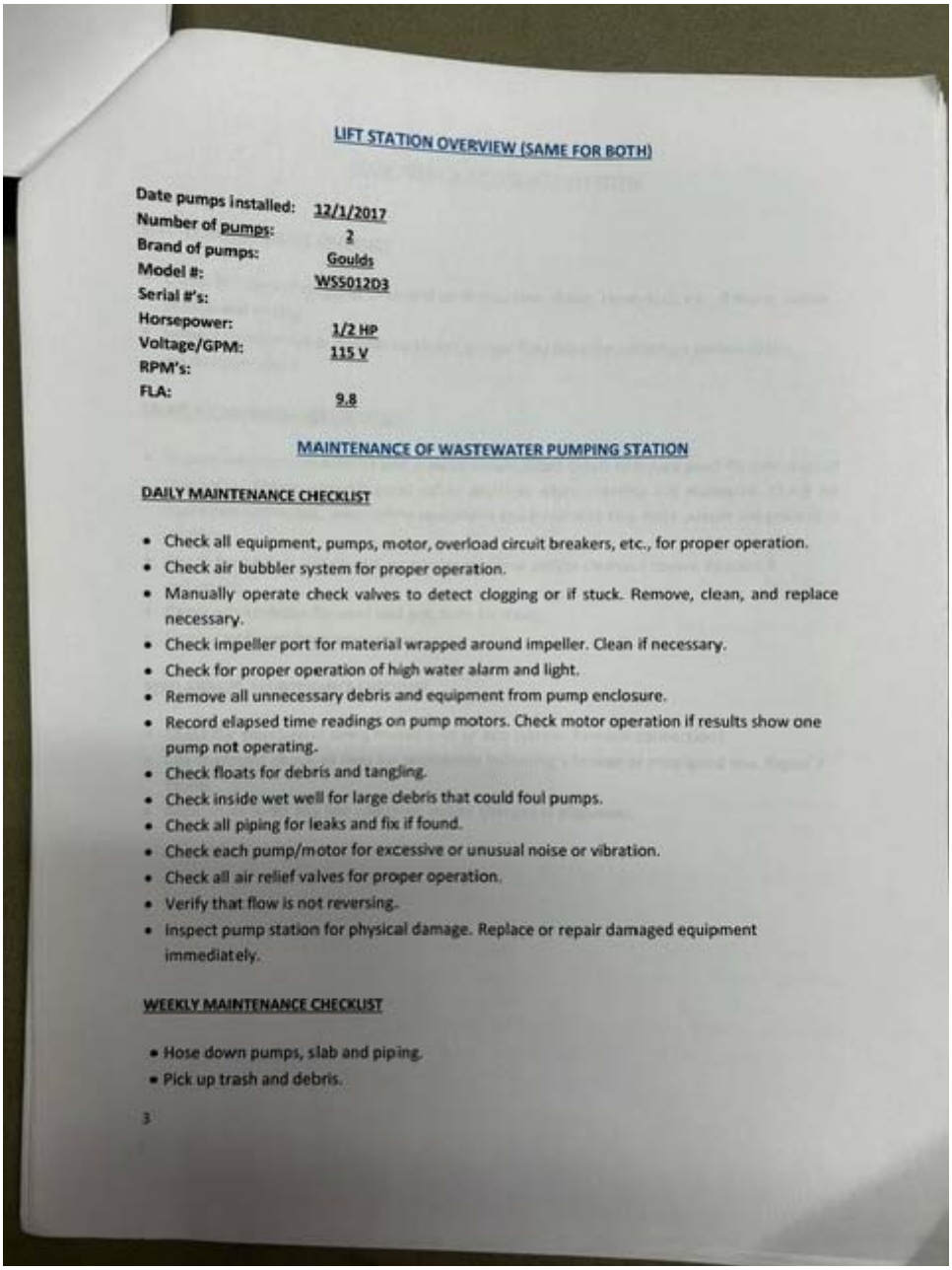


LIFT STATION OVERVIEW (SAME FOR BOTH)

Date pumps installed:	12/1/2017
Number of pumps:	2
Brand of pumps:	Goulds
Model #:	WSS012D3
Serial #'s:	
Horsepower:	1/2 HP
Voltage/GPM:	115 V
RPM's:	
FLA:	9.8

MAINTENANCE OF WASTEWATER PUMPING STATION

DAILY MAINTENANCE CHECKLIST

- Check all equipment, pumps, motor, overload circuit breakers, etc., for proper operation.
- Check air bubbler system for proper operation.
- Manually operate check valves to detect clogging or if stuck. Remove, clean, and replace necessary.
- Check impeller port for material wrapped around impeller. Clean if necessary.
- Check for proper operation of high water alarm and light.
- Remove all unnecessary debris and equipment from pump enclosure.
- Record elapsed time readings on pump motors. Check motor operation if results show one pump not operating.
- Check floats for debris and tangling.
- Check inside wet well for large debris that could foul pumps.
- Check all piping for leaks and fix if found.
- Check each pump/motor for excessive or unusual noise or vibration.
- Check all air relief valves for proper operation.
- Verify that flow is not reversing.
- Inspect pump station for physical damage. Replace or repair damaged equipment immediately.

WEEKLY MAINTENANCE CHECKLIST

- Hose down pumps, slab and piping.
- Pick up trash and debris.

3

MAINTENANCE OF COLLECTION SYSTEM

WEEKLY MAINTENANCE CHECKLIST

- Check for signs of clogging - stopped up drains, slow drains, clean-outs, etc. If found, isolate source and unclog.
- Inspect sewage pump stations to ensure proper flow from the collection system to the wastewater plant

MONTHLY MAINTENANCE CHECKLIST

- Inspect interior of manholes and remove accumulated debris to insure good flow through all manholes. Always observe good safety practices when entering live manholes. Check for hydrogen sulfide gas, wear safety equipment and make sure two more people are present at all times.
- Check for broken, misaligned, or missing manhole and/or cleanout covers. Replace if necessary.
- Check all manholes for sand and grit. Note locations.
- Inspect and exercise sewer valves.

SEMI-ANNUAL MAINTENANCE CHECKLIST

- Check for stormwater being routed over or into system. Remove connections.
- Check ground above all lines for subsidence indicating a broken or misaligned line. Repair if found.
- Note on as-builts any line additions and/or changes in alignment.

4

- **STATIC HEAD:** is the difference between the lowest liquid level necessary at the source and the highest liquid level in the discharge line.
- **TOTAL DYNAMIC HEAD (TDH):** is the total static head plus all losses incurred by the movement of the liquid the piping system.

OPERATION OF LIFT STATION PANEL

The facility has twenty two Lift Station locations. There are 2 master lift station locations. The remainder of the lift stations pump into these master stations and are maintained by Useppa Island personnel. The panels are equipped with one 40A breaker, two 20A pump breakers and a 10A control breaker. The lift stations are supplied with an emergency generator back up connection with a 40A breaker. The station is checked daily by Useppa Island personnel for proper function and reads. The panel has HOA switches for the pumps as well as Elapsed Time Meters (ETM's). There is no toggle switch to test the alarm so the high level float must be lifted in order to test the alarm. In order to test the alarm/warning light the high level float is pulled to verify that they are in working order. The lowest float is the on/off float which turns power on to the panel. The second float is the lead pump float. This float will actually turn on the first pump that is designated by the alternating switch. The third float is the lag float. This float will turn on the second float in case the lead pump cannot keep up with flows or if the first pump does not operate properly. The fourth float activates the high level audible and visual alarm to notify someone of a problem within the wet well or pumps. Once the pumps pump down below the first float the pump(s) will shut off and the alternator will switch pumps for the next cycle. There is also an alarm silence button inside of the lift station panel to silence the alarm.

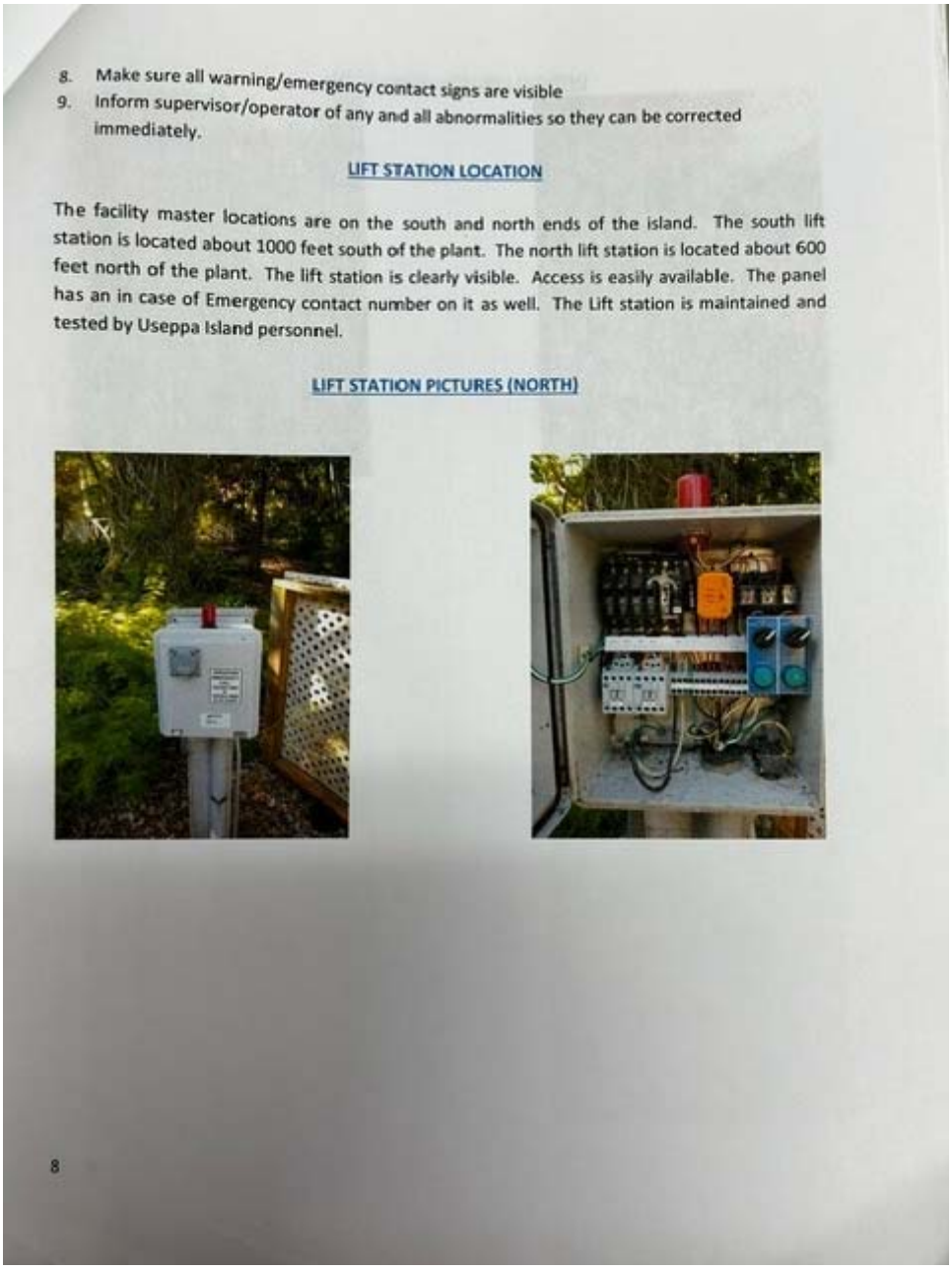
OVERFLOWS/MAINTENANCE

There is a SSO response plan that is located at the main treatment facility that describes what to do in case of a spill/overflow/emergency. Please refer to this manual for the proper response and plan.

Maintenance should be performed as follows:

1. Test HOA switches weekly
2. Test audible/visual alarm weekly
3. Perform weekly amp draws on the pumps
4. Station should be checked and cleaned as needed
5. Test all breakers monthly
6. Record ETM's daily
7. Verify all lids and doors are locked and secured as needed

7



8. Make sure all warning/emergency contact signs are visible
9. Inform supervisor/operator of any and all abnormalities so they can be corrected immediately.

LIFT STATION LOCATION

The facility master locations are on the south and north ends of the island. The south lift station is located about 1000 feet south of the plant. The north lift station is located about 600 feet north of the plant. The lift station is clearly visible. Access is easily available. The panel has an in case of Emergency contact number on it as well. The Lift station is maintained and tested by Useppa Island personnel.

LIFT STATION PICTURES (NORTH)

8

Sent from my iPhone

On Jan 9, 2025, at 20:36, William Edwards Sr. <wjedwards@uswatercorp.net> wrote:

Alexandria,
Thank you for meeting with me during the inspection. Below are some of the deficiencies found during the inspection that have since been corrected:
*bar screen leaking
*hole at top of influent pipe

If better photos are needed please let me know.
Thank you
<image0.jpeg>
<image1.jpeg>

<image2.jpeg>

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

November 26, 2024

Useppa Utilities
PO Box 640
Bokeelia, FL 33922
TEL: 1-239-283-6078
FAX:

RE: Useppa IW Monthly Order No.: 2411541

Dear :

Sanders Laboratories, Inc received 1 sample(s) on 11/19/2024 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of $50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
SL 001= Nokomis Certificate # E84380 1050 Endeavor Court Nokomis Fl 34275. SL002= Fort Myers Certificate # E85457 10090 Bavaria Road Fort Myers Fl 33913

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: **2411541**
Date: **11/26/2024**

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value. Lab QC not in range.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

S: Final DO reading is less than 1 mg/l and the difference between initial and final DO is not at least 2 mg/l or if seed dilutions have wide variance per mL seed (30%).

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: MF: Too many colonies were present for accurate counting. MPN: All wells were positive. Results maybe higher than reported.

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2411541**

Date Reported: **11/26/2024**

CLIENT: Useppa Utilities
Project: Useppa IW Monthly

Lab Order: 2411541

Lab ID: 2411541-001
Client Sample ID: IW-1

Collection Date: 11/19/2024 8:35:00 AM
Matrix: GROUND WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
CHLORIDE				**SM4500CL- E**			Analyst: **EH** Labcode **SL001**
Chloride	8,930	2.00	8.00		mg/L	1	11/25/2024 10:27
SPECIFIC CONDUCTANCE				**SM2510B**			Analyst: **PS** Labcode **SL001**
Specific Conductivity	30,600	2.00	2.00		µmhos/cm	1	11/21/2024 11:45
NOTES: Temperature 22.5 C							
SULFATE				**ASTM-D516-90**			Analyst: **EH** Labcode **SL001**
Sulfate	1,180	2.00	8.00		mg/L	1	11/25/2024 11:30
TOTAL DISSOLVED SOLIDS				**SM2540C**			Analyst: **LG** Labcode **SL002**
Total Dissolved Solids (Residue, Filterable)	15,000	20	20		mg/L	1	11/20/2024 10:26

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Original

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

2411 541

ADDRESS
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

Sanders Laboratories
Environmental Testing Services

Please Include Email Address of Report Recipient Whenever Possible!!!

SUBMITTING COMPANY: **Useppa Utilities**	REPORT TO:	BILL TO: P. O. #
PROJECT NAME: Useppa IW Monthly / PROJECT #: Useppa IW Monthly / QUOTE #	COMPANY: **Useppa Utilities**	COMPANY: **Useppa Utilities**
SPECIAL INSTRUCTIONS / COMMENTS:	ADDRESS: **PO Box 640**	ADDRESS: **PO Box 640**
	CITY, STATE, ZIP: **Bokeelia, FL. 33922**	CITY, STATE, ZIP: **Bokeelia, FL. ZIP#33922**
Kit # NOV 2024	PHONE: **1-239-283-6078**	EMAIL (OR FAX IF NO EMAIL AVAILABLE): WJedwards@uswatercorp.net
SAMPLER'S PRINTED NAME: W. Edwards (USwater)	SAMPLER'S SIGNATURE: W. Edwards	

Frac #	SAMPLE ID	Matrix	Bottle Type	Bottle Lot #	Chem Lot Exp	Date Sampled	Time Sampled	pH	GRAB "G" OR COMPOSITE "C"	NUMBER OF CONTAINERS	Cl E Gal	COND	SO4 Gal	TDS FM	COMMENTS
	Temp °C										ANALYTICAL PARAMETERS				Methanol Preserved Weights. HOT Sample Notation. Additional Sample Description etc.
001A	IW-1 2811	Ground Water	250PL-NOP			11-19-24	0835	7.18	G	1				√	3035002
001B	IW-1 2811	Ground Water	250PL-NOP			11-19-24	0835	7.18	G	1	√	√	√		3035002

Testcode to method definitions: ALK=A2320,APC=BAMCH23,APC PETRI=AOAC 990.12,APC/G=CCMEF 6.33/AOAC 966.23,APC/ML=CCFRA 2.1,APC/SWAB=AOAC 986.33,BOD=A5210B,BOD FM=A5210B,Ca Hard=EPA 215.2,CBOD=A5210B,CBOD FM=A5210B,CHLOROA=A10200H,CL- B DW=A4500-Cl-B,CL- E NP=A4500-Cl-E,CL- SOLID=FM_5-552,CL2=E330.5,Cl2 FM=E330.5,COLI PETRI=AOAC 991.14,COLOR=A2120B,Color FM=A2120B,COND=A2510B,COND FM=A2510B,EB=AOAC 2003.01,EB C=CMMEF 8.631,EC 0157=AOAC Cert #001101,EC J=AOAC 992.3,EC01572=AOAC 996.09,ECOLI=EC + MUG,Enterococcus=E1600,ENTEROLERT=Enterolert,F-=A4500-F-C,FC=A9222D,FC FM=A9222D,FC MPN=A9221E,FC MPN FM=A9221E,FC MUG=A9223B,FC MUG FM=A9223B,FC STREP=A9230C,FCMPN=A9221E,HARD=A2340C,HPC=A9215B,LEGA=Legiolert,LIST PCR=AOAC #090701,LISTERIA BR=RI030406;LMONO PCR=010802,MOLD=FDA/BAM Ch. 18,MOLD G RES=ASTM D3273,MOLD ID=McCrone,NH3=E350.1,NH3 Solid=E350.1,NH4=E350.1,NO2=E353.2,NO2 FM=A4500-NO2-B,NO3 SOLID=E353.2,NOX=E353.2,NOX Solid=E353.2,ODOR=A2150B,Odor FM=A2150B,OPHOS=A4500-P-E,Org N=E351.2,Org N Solid=E351.2,PH=A4500-H+-B,PH F=AOAC 981.12,pH FM=A4500-H+-B,pH Sludge=E9040C,PH SOLID=E9045D,SALM PCR=010803,SIO2=A4500-SiO2 C,SO4=ASTM-D516-90,STAPH=AOAC 2003.07,Strep=A9230C,SA- Subcontract PACE BCS ALS FRC Microbac Eurofins,TC MF=A9222B,TC MF FM=A9222B,TC MUG=A9223B,TC MUG FM=A9223B,TDS=A2540C,TDS FM=A2540C,TKN=E351.2,TKN Solid=E351.2,TN=E351.2,TN Solid=E351.2,TP=E365.4,TP Diss=E365.4,TP Solid=E365.4,TS=A2540B,TS %=A2540G,TSS=A2540D,TSS FM=A2540D,TURB=E180.1,TVSS=E160.4,Un NH3=E350.1,Y M=FDA/BAM 8th Ed.

Relinquished By: W. Edwards	Date: 11-19-24	Time: 0930	Received By: Currier	Date: 11-19-24	Time: 0930
Relinquished By: W. Edwards	Date: 11-19-24	Time: 1453	Received By: TMA	Date: 11/19/24	Time: 1453
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples 6.5 °C Attempt to Cool ? Y

Comments:

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

December 03, 2024

Useppa Utilities
PO Box 640
Bokeelia, FL 33922
TEL: 1-239-283-6078
FAX:

RE: Useppa-Wkly MW1 MW2 Order No.: 2411711

Dear :

Sanders Laboratories, Inc received 2 sample(s) on 11/25/2024 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of $50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
SL 001= Nokomis Certificate # E84380 1050 Endeavor Court Nokomis Fl 34275. SL002= Fort Myers Certificate # E85457 10090 Bavaria Road Fort Myers Fl 33913

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: **2411711**
Date: **12/3/2024**

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value. Lab QC not in range.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

S: Final DO reading is less than 1 mg/l and the difference between initial and final DO is not at least 2 mg/l or if seed dilutions have wide variance per mL seed (30%).

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: MF: Too many colonies were present for accurate counting. MPN: All wells were positive. Results maybe higher than reported.

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2411711**

Date Reported: **12/3/2024**

CLIENT: Useppa Utilities
Project: Useppa-Wkly MW1 MW2

Lab Order: 2411711

Lab ID: 2411711-001
Client Sample ID: MW-1
Collection Date: 11/25/2024 9:41:00 AM
Matrix: GROUND WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
CHLORIDE				**SM4500CL- E**			Analyst: **EH** Labcode **SL001**
Chloride	8,420	2.00	8.00		mg/L	1	12/02/2024 11:03
SULFATE				**ASTM-D516-90**			Analyst: **EH** Labcode **SL001**
Sulfate	1,060	2.00	8.00		mg/L	1	12/02/2024 11:32
TOTAL DISSOLVED SOLIDS				**SM2540C**			Analyst: **LG** Labcode **SL002**
Total Dissolved Solids (Residue, Filterable)	14,000	20	20		mg/L	1	11/25/2024 17:00

Lab ID: 2411711-002
Client Sample ID: MW-2
Collection Date: 11/25/2024 9:11:00 AM
Matrix: GROUND WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
CHLORIDE				**SM4500CL- E**			Analyst: **EH** Labcode **SL001**
Chloride	2,560	2.00	8.00		mg/L	1	12/02/2024 11:35
SULFATE				**ASTM-D516-90**			Analyst: **EH** Labcode **SL001**
Sulfate	336	2.00	8.00		mg/L	1	12/02/2024 11:33
TOTAL DISSOLVED SOLIDS				**SM2540C**			Analyst: **LG** Labcode **SL002**
Total Dissolved Solids (Residue, Filterable)	5,100	20	20		mg/L	1	11/25/2024 17:00

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Original

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 2

2411 711

ADDRESS
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

Sanders Laboratories
Environmental Testing Services

Please Include Email Address of Report Recipient Whenever Possible!!!

SUBMITTING COMPANY: **Useppa Utilities**	REPORT TO: US Water	BILL TO: P. O. #
PROJECT NAME: Useppa-Wkly MW1 M / PROJECT #: Useppa - Weekly IW / M / QUOTE #:	COMPANY: **Useppa Utilities**	COMPANY: **Useppa Utilities**
SPECIAL INSTRUCTIONS / COMMENTS:	ADDRESS: **PO Box 640**	ADDRESS: **PO Box 640**
	CITY, STATE, ZIP: **Bokeelia, FL. 33922**	CITY, STATE, ZIP: **Bokeelia, FL. ZIP#33922**
Kit # Nov. 2024	PHONE: **1-239-283-6078**	EMAIL (OR FAX IF NO EMAIL AVAILABLE): wjedwards@uswater.com
SAMPLER'S PRINTED NAME: Wiz Edwards (USwater)	SAMPLER'S SIGNATURE: Wiz Edwards (USwater)	

Frac #	SAMPLE ID	Matrix	Bottle Type	Bottle Lot #	Chem Lot Exp	Date Sampled	Time Sampled	pH	GRAB "G" OR COMPOSITE "C"	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: Cl E Gal	SO4 Gal	TDS FM	COMMENTS: Methanol Preserved Weights HOT Sample Notation Additional Sample Description etc
	Temp °C													
001A	MW-1 24.2	Ground Water	250PL-NOP			11-25-24	0941	7.04	G	1			√	3235002
001B	MW-1 ↓	Ground Water	250PL-NOP			11-25-24	0941	7.04	G	1	√	√		3235002
002A	MW-2 24.5	Ground Water	250PL-NOP			11-25-24	0911	7.53	G	1			√	3235002
002B	MW-2 24.5	Ground Water	250PL-NOP			11-25-24	0911	7.53	G	1	√	√		3235002

Relinquished By: Wiz Edwards (USwater)	Date: 11-25-24	Time: 1350	Received By: TMT	Date: 11/25/24	Time: 1350	REPORT TRANSMITTAL DESIRED: ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		
Relinquished By	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
TAT: Standard	RUSH	Next BD ☐	2nd BD ☐	3rd BD ☐		Temp of samples 8.4 °C	Attempt to Cool ? Y
Note: RUSH requests will incur surcharges!						Comments	

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

CHAIN OF CUSTODY RECORD

PAGE: 2 OF: 2

2411 711

ADDRESS
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

Sanders Laboratories
Environmental Testing Services

Please Include Email Address of Report Recipient Whenever Possible!!!

SUBMITTING COMPANY: **Useppa Utilities**	REPORT TO: US Water	BILL TO: P. O. #
PROJECT NAME: Useppa-Wkly MW1 M / PROJECT #: Useppa - Weekly IW / M / QUOTE #:	COMPANY: **Useppa Utilities**	COMPANY: **Useppa Utilities**
SPECIAL INSTRUCTIONS / COMMENTS:	ADDRESS: **PO Box 640**	ADDRESS: **PO Box 640**
	CITY, STATE, ZIP: **Bokeelia, FL. 33922**	CITY, STATE, ZIP: **Bokeelia, FL. ZIP#33922**
Kit # Nov 2024	PHONE: **1-239-283-6078**	EMAIL (OR FAX IF NO EMAIL AVAILABLE): WJedwards@USwatercorp.net
SAMPLER'S PRINTED NAME: W. Edwards (USwater)	SAMPLER'S SIGNATURE: W. Edwards (USwater)	

Frac #	SAMPLE ID	Matrix	Bottle Type	Bottle Lot #	Chem Lot Exp	Date Sampled	Time Sampled	pH	GRAB "G" OR COMPOSITE "C"	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: Cl E Gal	SO4 Gal	TDS FM										COMMENTS
																							Methanol Preserved Weights. HOT Sample Notation. Additional Sample Description etc.

Testcode to method definitions: ALK=A2320,APC=BAMCH23,APC PETRI=AOAC 990.12,APC/G=CCMEF 6.33/AOAC 966.23,APC/ML=CCFRA 2.1,APC/SWAB=AOAC 986.33,BOD=A5210B,BOD FM=A5210B,Ca Hard=EPA 215.2,CBOD=A5210B,CBOD FM=A5210B,CHLOROA=A10200H,CL- B DW=A4500-Cl-B,CL- E NP=A4500-Cl-E,CL- SOLID=FM_5-552,CL2=E330.5,Cl2 FM=E330.5,COLI PETRI=AOAC 991.14,COLOR=A2120B,Color FM=A2120B,COND=A2510B,COND FM=A2510B,EB=AOAC 2003.01,EB C=CMMEF 8.631,EC 0157=AOAC Cert #001101,EC J=AOAC 992.3,EC01572=AOAC 996.09,ECOLI=EC + MUG,Enterococcus=E1600,ENTEROLERT=Enterolert,F-=A4500-F-C,FC=A9222D,FC FM=A9222D,FC MPN=A9221E,FC MPN FM=A9221E,FC MUG=A9223B,FC MUG FM=A9223B,FC STREP=A9230C,FCMPN=A9221E,HARD=A2340C,HPC=A9215B,LEGA=Legiolert,LIST PCR=AOAC #090701,LISTERIA BR=RI030406,LMONO PCR=010802,MOLD=FDA/BAM Ch. 18,MOLD G RES=ASTM D3273,MOLD ID=McCrone,NH3=E350.1,NH3 Solid=E350.1,NH4=E350.1,NO2=E353.2,NO2 FM=A4500-NO2-B,NO3 SOLID=E353.2,NOX=E353.2,NOX Solid=E353.2,ODOR=A2150B,Odor FM=A2150B,OPHOS=A4500-P-E,Org N=E351.2,Org N Solid=E351.2,PH=A4500-H+-B,PH F=AOAC 981.12,pH FM=A4500-H+-B,pH Sludge=E9040C,PH SOLID=E9045D,SALM PCR=010803,SIO2=A4500-SiO2 C,SO4=ASTM-D516-90,STAPH=AOAC 2003.07,Strep=A9230C,SA- Subcontract PACE BCS ALS FRC Microbac Eurofins,TC MF=A9222B,TC MF FM=A9222B,TC MUG=A9223B,TC MUG FM=A9223B,TDS=A2540C,TDS FM=A2540C,TKN=E351.2,TKN Solid=E351.2,TN=E351.2,TN Solid=E351.2,TP=E365.4,TP Diss=E365.4,TP Solid=E365.4,TS=A2540B,TS %=A2540G,TSS=A2540D,TSS FM=A2540D,TURB=E180.1,TVSS=E160.4,Un NH3=E350.1,Y M=FDA/BAM 8th Ed.

Relinquished By: W. Edwards	Date: 11-25-24	Time: 1350	Received By: TMK	Date: 11/25/24	Time: 1350
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples 8.4 °C Attempt to Cool ? Y
Comments:

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

U.S. Water Service Corporation

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: USEPA UTILITIES | SITE LOCATION: MW-1 | DATE: 11-25-24

WELL NO: MW-2 | SAMPLE ID: 29017

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 16 feet to 6 feet | STATIC DEPTH TO WATER (feet): 3.8 | PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (16.6 feet – 3.8 feet) x 0.16 gallons/foot = 2.05 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6' | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6' | PURGING INITIATED AT: 0925 | PURGING ENDED AT: 0939 | TOTAL VOLUME PURGED (gallons): 10.65

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
									N/A	N/A	N/A
0930	6.15	6.15	1/2	3.8	7.27	24.8	19751	1.26			
0933	1.5	7.65			7.25	24.7	19746	1.21			
0936	1.5	9.15			7.22	24.7	19747	1.17			
0939	1.5	10.65		3.8	7.22	24.8	19743	1.15			

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W. Edwards (USWater) | SAMPLER(S) SIGNATURE(S): W. Edwards (USWater) | SAMPLING INITIATED AT: 0939 | SAMPLING ENDED AT: 0941

PUMP OR TUBING DEPTH IN WELL (feet): 6' | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	2	PE	250mL	ICE		7.22	TDS, SO4 Cl-	APP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Peristaltic Pump Geotech S/N 4010 Submersible S/N 51350032

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2
optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 200

U.S. Water Services Corporation

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: USEPPA UTILITIES	SITE LOCATION: MW-2	
WELL NO: MW-2	SAMPLE ID: 29018	DATE: 11-25-2024

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): ¼	WELL SCREEN INTERVAL DEPTH: 8 feet to 9 feet	STATIC DEPTH TO WATER (feet): 4.4	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (8.9 feet – 4.4 feet) x 0.16 gallons/foot = 0.72 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6'	PURGING INITIATED AT: 0855	PURGING ENDED AT: 0909	TOTAL VOLUME PURGED (gallons): 6.66

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0900	2.16	2.16	½	4.4	7.50	25.1	8130	1.83	N/A	N/A	N/A
0903	1.5	3.66	1	↓	7.52	24.7	8133	1.77			
0906	1.5	5.16	1	↓	7.53	24.5	8132	1.79			
0909	1.5	6.66	1	4.3	7.53	24.5	8142	1.75			

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W. Edwards (USWater)	SAMPLER(S) SIGNATURE(S): W. Edwards (USWater)	SAMPLING INITIATED AT: 0909	SAMPLING ENDED AT: 0911
PUMP OR TUBING DEPTH IN WELL (feet): 6'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	2	PE	250mL	ICE		7.53	TDS, SO4	APP	
							Cl-		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Peristaltic Pump Geotech S/N 4010 Submersible S/N 51350032

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2 optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

November 18, 2024

Useppa Utilities
PO Box 640
Bokeelia, FL 33922
TEL: 1-239-283-6078
FAX:

RE: Useppa Daily WW Order No.: 2411280

Dear :

Sanders Laboratories, Inc received 6 sample(s) on 11/11/2024 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of $50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
SL 001= Nokomis Certificate # E84380 1050 Endeavor Court Nokomis Fl 34275. SL002= Fort Myers Certificate # E85457 10090 Bavaria Road Fort Myers Fl 33913

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: **2411280**
Date: **11/18/2024**

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value. Lab QC not in range.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

S: Final DO reading is less than 1 mg/l and the difference between initial and final DO is not at least 2 mg/l or if seed dilutions have wide variance per mL seed (30%).

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: MF: Too many colonies were present for accurate counting. MPN: All wells were positive. Results maybe higher than reported.

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2411280**

Date Reported: **11/18/2024**

CLIENT: Useppa Utilities
Project: Useppa Daily WW

Lab Order: 2411280

Lab ID: 2411280-001 **Collection Date:** 11/12/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS				**SM2540**			Analyst: **BP** Labcode **SL002**
Residue, Suspended Solids	1.1	1.0	1.0		mg/L	1	11/12/2024 12:00

Lab ID: 2411280-002 **Collection Date:** 11/12/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM				**SM9222D**			Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	11/12/2024 13:25

Lab ID: 2411280-003 **Collection Date:** 11/13/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM				**SM9222D**			Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	11/13/2024 13:22

Lab ID: 2411280-004 **Collection Date:** 11/13/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS				**SM2540**			Analyst: **BP** Labcode **SL002**
Residue, Suspended Solids	ND	1.0	1.0	U	mg/L	1	11/13/2024 12:08

Qualifiers:

H	Holding times for preparation or analysis exceeded
PL	Permit Limit
U	Samples with CalcVal < MDL
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

Original

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2411280**

Date Reported: **11/18/2024**

CLIENT: Useppa Utilities
Project: Useppa Daily WW

Lab Order: 2411280

Lab ID: 2411280-005
Client Sample ID: EFF-1

Collection Date: 11/14/2024 8:30:00 AM
Matrix: WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS					**SM2540**		Analyst: **BP** Labcode **SL002**
Residue, Suspended Solids	2.0	1.0	1.0		mg/L	1	11/14/2024 11:46

Lab ID: 2411280-006
Client Sample ID: EFF-1

Collection Date: 11/14/2024 8:30:00 AM
Matrix: WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM					**SM9222D**		Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	2.00	2.00	U	CFU/100ml	2	11/14/2024 12:59

Qualifiers:

H	Holding times for preparation or analysis exceeded
PL	Permit Limit
U	Samples with CalcVal < MDL
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

Sanders Laboratories

CHAIN OF CUSTODY RECORD

Workorder # (Lab Use Only): 2411280

Report To EMail: wiedwards@uswatercorp.net
Bill to EMail: Useppa Utilities
P.O. #:

Client ID:
Project Name: Useppa Island Utilities
Project Location: WWTP
Permit #/PWS ID: FLA#0144494
Requested Due Date:

Client: Useppa Utilities
Address: P.O. Box 140, Boca Grande FL 33921
Phone: 863-559-2327
Sampled By (PRINT): W. Edwards (USwater)
Sampler Signature: W. Edwards

Matrix	Sample Description	Sample Collection: Date	Time	Type G=grab C=comp.	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: TSS	Fecal Coliform	Sample ID #
WW	EFF-1	11-12-24	0830	G		1L	2066015	NA	N/A	N/A	1	X		1A
WW	EFF-1	11-12-24	0830	G		Flip Top	9FFT005	Thio	ST	1-27	1		X	2A

Kit Number: 1581
Comments:

Bottle Type Key Code	
PL	HDPE
UN	Unpreserved
GA	Glass Amber
V	Vial
Volume*	250,500,ml, 1L, 2L
Micro	F=Flip SD=Screw Cap

Preservative Key Code: HCL = H, HNO3= N, Na2S2O3 = ST or Thio, H2BO4 = B, NaOH = SH, NH4Cl = AC, Ascorbic Acid = AA

Okay to Run As Is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
WE	W. Edwards (USWater)	11-12-24	0930	Courier	11-12-24	0930
Samples On Ice: Yes / No		11-12-24	1140	FWA	11/12/24	1140
Temp. °C						

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

Sanders Laboratories

CHAIN OF CUSTODY RECORD

Workorder # (Lab Use Only): 2411280

Report To EMail: wiedwards@uswatercorp.net
Bill to EMail: Useppa Utilities
P.O. #:

Client ID:
Project Name: Useppa Island Utilities
Project Location: WWTP
Permit #/PWS ID: FLA#0144194
Requested Due Date:

Client: Useppa Utilities
Address: P.O. Box 640, Bokeelia FL 33922
Phone: 863-532-2327
Sampled By (PRINT): W. Edwards (US Water)
Sampler Signature: W. Edwards

Matrix	Sample Description	Sample Collection: Date	Time	Type G=grab C=comp.	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: Fecal Coliform	TSS	Lab Use Only: Sample ID #
WW	EFF-1	11-13-24	0830	G		Flip Top	9157905	Thio	ST	01-27	1	X		3A
WW	EFF-1	11-13-24	0830	G		2L	2066019	N/A	N/A	N/A	1	X		4A

Kit Number: 75871
Comments:

Bottle Type Key Code	
PL	HDPE
UN	Unpreserved
GA	Glass Amber
V	Vial
Volume=	250,500,In mL. 1L 2L
Micro	P= Flip SD= Screw Cap

Preservative Key Code: HCL = H, HNO3= N, Na2S2O3 = ST or Thio, H2SO4 = S, NaOH = SH, NH4Cl = AC, Ascorbic Acid = AA

Okay to Run As is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
We	W. Edwards	11-13-24	0930	Courier	11-13-24	0930
Samples On Ice: Yes / No		11-13-24	1130	TMK	11/13/24	1130
4.6						
Temp. °C						

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

Sanders Laboratories

CHAIN OF CUSTODY RECORD

Workorder # (Lab Use Only): 2411280

Client: Useppa Utilities
Address: P.O. Box 640, Boca Grande FL 33921
Phone: 813-559-2327
Sampled By (PRINT): W. Edwards (USwater)
Sampler Signature: W. Edwards

Report To EMail: wjedwards@uswatercorp.net
Bill to EMail: useppa utilities
P.O. #:

Client ID:
Project Name: useppa utilities
Project Location: WWTP
Permit #/PWS ID: FLA #0144994
Requested Due Date:

Matrix	Sample Description	Sample Collection: Date	Time	Type G=grab C=comp.	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: TSS	Hexal Silicon	Sample ID #
WW	EFF-1	11-14-24	0830	G		1L	206619	N/A	N/A	N/A	1	X		5A
WW	EFF-1	11-14-24	0830	G		919705	rinse TSP	this	ST	9-27	1		X	6A

Kit Number: 7561

Comments:

Bottle Type Key Code	
PL	HDPE
UN	Unpreserved
GA	Glass Amber
V	Vial
Volume=	250,500,In mL, 1L,2L
Micro	P= Flip SC= Screw Cap

Preservative Key Code: HCL = H, HNO3 = N, Na2S2O3 = ST or Thio, H2SO4 = S, NaOH = SH, NH4Cl = AC, Ascorbic Acid = AA

Okay to Run As Is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
WE	W. Edwards	11-14-24	0930	Currier	11-14-24	0930
Samples On Ice: Yes / No	By Lx	11-14-24	1040	TMF	11/14/24	1040
Y / N						
Temp. °C						

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

November 25, 2024

Useppa Utilities
PO Box 640
Bokeelia, FL 33922
TEL: 1-239-283-6078
FAX:

RE: Useppa Daily WW Order No.: 2411474

Dear :

Sanders Laboratories, Inc received 4 sample(s) on 11/18/2024 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of $50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
SL 001= Nokomis Certificate # E84380 1050 Endeavor Court Nokomis Fl 34275. SL002= Fort Myers Certificate # E85457 10090 Bavaria Road Fort Myers Fl 33913

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: **2411474**
Date: **11/25/2024**

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value. Lab QC not in range.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

S: Final DO reading is less than 1 mg/l and the difference between initial and final DO is not at least 2 mg/l or if seed dilutions have wide variance per mL seed (30%).

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: MF: Too many colonies were present for accurate counting. MPN: All wells were positive. Results maybe higher than reported.

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2411474**

Date Reported: **11/25/2024**

CLIENT: Useppa Utilities
Project: Useppa Daily WW

Lab Order: 2411474

Lab ID: 2411474-001 **Collection Date:** 11/20/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS					**SM2540**		Analyst: **BP** Labcode **SL002**
Residue, Suspended Solids	ND	1.0	1.0	U	mg/L	1	11/20/2024 11:54

Lab ID: 2411474-002 **Collection Date:** 11/20/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM					**SM9222D**		Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	11/20/2024 13:21

Lab ID: 2411474-003 **Collection Date:** 11/21/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS					**SM2540**		Analyst: **BP** Labcode **SL002**
Residue, Suspended Solids	5.8	1.0	1.0		mg/L	1	11/21/2024 11:56

Lab ID: 2411474-004 **Collection Date:** 11/21/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM					**SM9222D**		Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	11/21/2024 13:21

Qualifiers:

H	Holding times for preparation or analysis exceeded
PL	Permit Limit
U	Samples with CalcVal < MDL
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

Sanders Laboratories

CHAIN OF CUSTODY RECORD

Workorder # (Lab Use Only): 2411474

Report To EMail: wjedwards@vswatercorp.net
Bill to EMail: Useppa Utilities
P.O. #:

Client ID:
Project Name: Useppa Island Utilities
Project Location: WWTP
Permit #/PWS ID: FLA#014494
Requested Due Date:

Client: Useppa Utilities
Address: P.O. Box 640, Boca Grande, Fl. 33922
Phone: 863-339-2327

Sampled By (PRINT): W. Edwards (VSWater)
Sampler Signature: W. Edwards

Matrix	Sample Description	Sample Collection: Date	Time	Type G=grab C=comp.	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: TSS	Fecal Coliform	(Lab Use Only) Sample ID #
WW	EFF-1	11-20-24	0830	G		1L	2066019	N/A	N/A	N/A	1	X		1A
WW	EFF-1	11-20-24	0830	G		Flip Top	A19000	Thio	ST	01-27	1		X	2A

Hit Number: 7581

Comments:

Bottle Type Key Code		Preservative Key Code:	Okay to Run As is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
PL	HDPE	HCL = H, HNO3 = N, NaOH = ST or Thio, H2SO4 = S, MeOH = SH, NH4Cl = AD, Ascorbic Acid = AA	WE	W. Edwards (VSWater)	11-20-24	0830	Currier	11-20-24	0930
UN	Unpreserved		Samples On Ice		11-20-24		TMF	11/20/24	1040
GA	Glass Amber		Yes / No						
V	Vial								
Volumes	250,500,In mL, 1L, 2L		Temp. °C						
Micro	P=Flip Top, S=Screw Cap								

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

1060 Endeavor Ct, Naples, FL 34109 (941)498-9109 fax(941)494-8774 E94360 10060 Bavaria Rd., Fort Myers, FL 33913 (239)590-0887 fax(239)590-0886 E86457

Sanders Laboratories

CHAIN OF CUSTODY RECORD

Workorder # (Lab Use Only): 2411474

Client: Useppa Utilities
Address: P.O. Box 640, Bokeelia FL 33922
Phone: 813-559-2338
Sampled By (PRINT): W. Edwards (USwater)
Sampler Signature: W. Edwards

Report To EMail: WJedwards@Uswatercorp.net
Bill to EMail: Useppa Utilities
P.O. #:

Client ID:
Project Name: Useppa Island Utilities
Project Location: WWTP
Permit #/PWS ID: FLA#014494
Requested Due Date:

Matrix	Sample Description	Sample Collection: Date	Time	Type G=grab C=comp	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: TSS	Fecal Coliform							(Lab Use Only) Sample ID #
WW	EFF-1	11-21-24	0830	G		1L	2066019	N/A	N/A	N/A	1	X								3A
WW	EFF-1	11-21-24	0830	G		Flip top	4199001	Thio	ST	01-27	1		X							4A

HR Number: 7551

Comments:

Bottle Type Key Code	
PL	HDPE
UN	Unpreserved
GA	Glass Amber
V	Vial
Volume=	250,500,1L ml, 1L
Micro	P=Flip Top=Screw Cap

Preservative Key Code: HCL = H, HNO3= N, Na2S2O3 = ST or Thio, H2SO4 = S, MeOH = SH, NH4Cl = AC, Ascorbic Acid = AA

Okay to Run As Is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
WE	W. Edwards (USwater)	11-21-24	0930	Carrier	11-21-24	0930
Samples On Ice: Yes / No		11-21-24	1045	TMA	11/21/24	1045
7.9						
Temp. °C						

By signing this Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

1060 Endeavor Ct, Nokomis, FL 34275 (941)488-9103 fax(941)484-6774 ES4280 10060 Bonita Rd., Fort Myers, FL 33913 (239)590-0337 fax(239)590-0338 ES4457

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

November 26, 2024

Useppa Utilities
PO Box 640
Bokeelia, FL 33922
TEL: 1-239-283-6078
FAX:

RE: Useppa Daily WW - WW Set Order No.: 2411540

Dear :

Sanders Laboratories, Inc received 3 sample(s) on 11/19/2024 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of $50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
SL 001= Nokomis Certificate # E84380 1050 Endeavor Court Nokomis Fl 34275. SL002= Fort Myers Certificate # E85457 10090 Bavaria Road Fort Myers Fl 33913

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: **2411540**
Date: **11/26/2024**

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value. Lab QC not in range.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

S: Final DO reading is less than 1 mg/l and the difference between initial and final DO is not at least 2 mg/l or if seed dilutions have wide variance per mL seed (30%).

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: MF: Too many colonies were present for accurate counting. MPN: All wells were positive. Results maybe higher than reported.

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2411540**

Date Reported: **11/26/2024**

CLIENT: Useppa Utilities **Lab Order:** 2411540
Project: Useppa Daily WW - WW Set

Lab ID: 2411540-001 **Collection Date:** 11/19/2024 8:15:00 AM
Client Sample ID: Influent **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
CARBONACEOUS BIOLOGICAL OXYGEN DEMAND					**SM5210**		Analyst: **LG** Labcode **SL002**
Carbonaceous BOD-5	106	2	2		mg/L	1	11/20/2024 16:00
TOTAL SUSPENDED SOLIDS					**SM2540**		Analyst: **BP** Labcode **SL002**
Residue, Suspended Solids	22.6	1.0	1.0		mg/L	1	11/19/2024 16:06

Lab ID: 2411540-002 **Collection Date:** 11/19/2024 8:10:00 AM
Client Sample ID: Effluent-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRATE + NITRITE					**EPA 353.2**		Analyst: **PS** Labcode **SL001**
Nitrogen, Nitrate	18.9	0.01	0.04		mg/L	1	11/21/2024 10:23
NITROGEN, NITRITE					**SM4500NO2-B**		Analyst: **BP** Labcode **SL002**
Nitrogen, Nitrite	ND	0.0100	0.0400	U	mg/L	1	11/19/2024 16:06
CARBONACEOUS BIOLOGICAL OXYGEN DEMAND					**SM5210**		Analyst: **LG** Labcode **SL002**
Carbonaceous BOD-5	9	2	2		mg/L	1	11/19/2024 16:00
TOTAL SUSPENDED SOLIDS					**SM2540**		Analyst: **BP** Labcode **SL002**
Residue, Suspended Solids	ND	1.0	1.0	U	mg/L	1	11/19/2024 16:06

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2411540**

Date Reported: **11/26/2024**

CLIENT: Useppa Utilities
Project: Useppa Daily WW - WW Set

Lab Order: 2411540

Lab ID: 2411540-003
Client Sample ID: Effluent-1

Collection Date: 11/19/2024 8:10:00 AM
Matrix: WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM					**SM9222D**		Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	11/19/2024 15:48

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Original

Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

Workorder # (Lab Use Only): 2411540

Client: Useppa Utilities
Address: P.O. Box 640, Boca Grande FL 33922
Phone: 863-558-2327
Sampled By (PRINT): W. Edwards (USwater)
Sampler Signature: W. Edwards

Report To EMail: wjedwards@uswatercorp.net
Bill to EMail: useppa utilities
P.O. #:

Client ID:
Project Name: useppa Island Utilities
Project Location: WWTP
Permit #/PWS ID: FLA#014494
Requested Due Date:

Matrix	Sample Description	Sample Collection Date	Time	Type G=grab C=comp.	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: cBOD5	TSS	NO2	NO3 / NOX	Fecal Coliform				(Lab Use Only) Sample ID #
WW	Influent CBOD	11-19-24	0815	G		250 ml PL	3235002	Ice	n/a	n/a	1	X								1 A
WW	Influent TSS	11-19-24	0815	G		250 ml PL	3235002	Ice	n/a	n/a	1		X							B
WW	Effluent - 1 CBOD	11-19-24	0810	G		500 ml PL	8038007	Ice	n/a	n/a	1	X								2 A
WW	Effluent - 1 TSS	11-19-24	0810	G		1L PL	2066019	Ice	n/a	n/a	1		X							B
WW	Effluent - 1 NO2	11-19-24	0810	G		250 ml PL	3235002	Ice	n/a	n/a	1			X						C
WW	Effluent - 1 NO3/NOX	11-19-24	0810	G	<2	250 ml PL	3235002	S	43050348	1/31/27	1				X					D
WW	Effluent - 1 Fecal Coliform	11-19-24	0810	G		Micro-F	9197005	ST	STT10001	1/1/27	1					X				3 A

Kit Number # 7230 WW
Comments:

Bottle Type Key Code		Preservative Key Code:	Okay to Run As Is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
PL	HDPE	HCL = H, HNO3= N, Na2S2O3 = ST or Thio H2SO4 = S, NaOH = SH, NH4Cl = AC, Ascorbic Acid = AA	We	W. Edwards (USwater)	11-19-24	0930	Currier	11-19-24	0930
UN	Unpreserved		Samples On Ice	W. Edwards (USwater)	11-19-24	1453	FMT	11/19/24	1453
GA	Glass Amber		Yes No						
V	Vial		6.5						
Volume=	250,500,in mL 1L 2L		Temp. °C						
Micro	F= Flip SC= Screw Cap								

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

1050 Endeavor Ct, Nokomis, FL 34275 (941)488-8103 fax:(941)484-6774 E84380 10090 Bavaria Rd., Fort Myers, FL 33913 (239)590-0337 fax:(239)590-0536 E85457

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

November 30, 2024

Useppa Utilities
PO Box 640
Bokeelia, FL 33922
TEL: 1-239-283-6078
FAX:

RE: Useppa Daily WW Order No.: 2411683

Dear :

Sanders Laboratories, Inc received 7 sample(s) on 11/25/2024 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of $50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
SL 001= Nokomis Certificate # E84380 1050 Endeavor Court Nokomis Fl 34275. SL002= Fort Myers Certificate # E85457 10090 Bavaria Road Fort Myers Fl 33913

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: **2411683**
Date: **11/30/2024**

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value. Lab QC not in range.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

S: Final DO reading is less than 1 mg/l and the difference between initial and final DO is not at least 2 mg/l or if seed dilutions have wide variance per mL seed (30%).

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: MF: Too many colonies were present for accurate counting. MPN: All wells were positive. Results maybe higher than reported.

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2411683**

Date Reported: **11/30/2024**

CLIENT: Useppa Utilities
Project: Useppa Daily WW

Lab Order: 2411683

Lab ID: 2411683-001 **Collection Date:** 11/25/2024 10:25:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS					**SM2540**		Analyst: **BP** Labcode **SL002**
Residue, Suspended Solids	1.6	1.0	1.0		mg/L	1	11/25/2024 15:00

Lab ID: 2411683-002 **Collection Date:** 11/25/2024 10:25:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM					**SM9222D**		Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	11/25/2024 16:16

Lab ID: 2411683-003 **Collection Date:** 11/25/2024 10:25:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRATE + NITRITE					**EPA 353.2**		Analyst: **PS** Labcode **SL001**
Nitrogen, Nitrate	3.06	0.01	0.04		mg/L	1	11/29/2024 11:17
NITROGEN, NITRITE					**SM4500NO2-B**		Analyst: **BP** Labcode **SL002**
Nitrogen, Nitrite	ND	0.0100	0.0400	U	mg/L	1	11/26/2024 15:11

Lab ID: 2411683-004 **Collection Date:** 11/26/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS					**SM2540**		Analyst: **BP** Labcode **SL002**
Residue, Suspended Solids	ND	1.0	1.0	U	mg/L	1	11/26/2024 12:01

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Original

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2411683**

Date Reported: **11/30/2024**

CLIENT: Useppa Utilities
Project: Useppa Daily WW

Lab Order: 2411683

Lab ID: 2411683-005 **Collection Date:** 11/26/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM				**SM9222D**			Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	11/26/2024 12:58

Lab ID: 2411683-006 **Collection Date:** 11/27/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS				**SM2540**			Analyst: **BP** Labcode **SL002**
Residue, Suspended Solids	2.4	1.0	1.0		mg/L	1	11/27/2024 11:52

Lab ID: 2411683-007 **Collection Date:** 11/27/2024 8:30:00 AM
Client Sample ID: EFF-1 **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM				**SM9222D**			Analyst: **DH** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00	U	CFU/100ml	1	11/27/2024 13:26

Qualifiers:

H	Holding times for preparation or analysis exceeded
PL	Permit Limit
U	Samples with CalcVal < MDL
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

Original

CHAIN OF CUSTODY RECORD

Sanders Laboratories

Workorder # (Lab Use Only): 24116B3

Client: Useppa Utilities
Address: P.O. Box 640, Boke Rio FL 33922
Phone: 813-332-2337
Sampled By (Print): W. Edwards (Uswater)
Sampler Signature: W. Edwards

Report To EMail: W.edwards@Uswatercorp.net
Bill to EMail: Useppa Utilities
P.O. #:

Client ID:
Project Name: Useppa Island Utilities
Project Location: WWTP
Permit #/PWS ID: FLA#0144194
Requested Due Date:

Matrix	Sample Description	Sample Collection: Date	Time	Type G=grab C=comp.	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: TSS	Analysis: Total Coliform	Analysis: NOx	(Lab Use Only) Sample ID #
WW	EFF-1	11-25-24	1025	G		1L	2006019	N/A	N/A	N/A	1	X			1A
WW	EFF-1	11-25-24	1025	G		Flip Top	4190001	H2SO4	ST	01-27	1		X		2A
WW	EFF-1	11-25-24	1025	G		250ML PL	3235002	N/A	N/A	N/A	1			X	3A
WW	EFF-1	11-25-24	1025	G	<2	250 mL	3235002	S	H2S04	1-31-25	1			X	VB

Nit Number: 7521

Comments:

Bottle Type Key Code		Preservative Key Code:	Okay to Run As Is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
PL	HDPE	HCL = H, HNO3 = N, NaOH = ST or TSS, H2SO4 = S, NaOH = SH, NH4OI = AO, Ascorbic Acid = AA	WW	W. Edwards (Uswater)	11-25-24	1350	[illegible]	11/25/24	1350
UN	Unpreserved		Samples On Ice						
GA	Glass Amber		Yes / No						
V	Vial		7.3						
Volume	250,500,1L, 2.5L		Temp. °C						
Micro	PL=Flip Top, Brown Cap								

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

1060 Endeavor Ct, Nokomis, FL 34275 (941)488-9109 fax(941)484-8774 EB4360 10060 Bavaria Rd., Fort Myers, FL 33913 (239)590-0337 fax(239)590-0338 EB4457

Sanders Laboratories

CHAIN OF CUSTODY RECORD

Workorder # (Lab Use Only): 2411683

Client: Useppa Utilities
Address: P.O. Box 140, Boca Grande FL 33921
Phone: 813-333-2337

Report To EMail: wjedwards@uswatercorp.net
Bill to EMail: Useppa Utilities
P.O. #:

Client ID:
Project Name: Useppa Island Utilities
Project Location: WWTP
Permit #/PWS ID: FLA#014494
Requested Due Date:

Sampled By (PRINT): W. Edwards (USwater)
Sampler Signature: W. Edwards

Matrix	Sample Description	Sample Collection: Date	Time	Type G=grab C=comp.	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: FSS	Fecal Coliform	(Lab Use Only) Sample ID #
WW	EFF-1	11-26-24	0830	G		1L	2061019	N/A	N/A	N/A	1	X		4A
WW	EFF-1	11-26-24	0830	G		Flip Top	4190001	Thio	ST	01-27	1		X	5A

HR Number: 1581

Comments:

Bottle Type Key Code		Preservative Key Code:	Okay to Run As Is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
PL	HDPE	HCL = H, HNO3 = N, NaOH = ST or Thio, H2SO4 = S, NaOH + ZN, NH4Cl = AC, Ascorbic Acid = AA	WE	W. Edwards (USwater)	11-26-24	0930	Courier	11/26/24	0930
UN	Unpreserved		Samples on Ice: Yes / No		11-26-24	1200	[illegible]	11/26/24	1200
GA	Glass Amber								
V	Vial								
Volume	250,500,1L,2L		1.3						
Micro	P=Poly BC=Bacti Cup		Temp. °C						

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

1060 Endeavor Ct, Nokomis, FL 34275 (941)488-8103 fax(941)484-8774 EB4360 10060 Bavaria Rd., Fort Myers, FL 33913 (239)590-0337 fax(239)590-0338 EB64157

Sanders Laboratories

CHAIN OF CUSTODY RECORD

Workorder # (Lab Use Only): 2411685

Client: Useppa Utilities
Address: P.O. Box 640, Boca Grande FL 33922
Phone: 863-533-2327

Report To EMail: wjedwards@uswatercorp.net
Bill to EMail: Useppa Utilities
P.O. #:

Client ID:
Project Name: Useppa Island Utilities
Project Location: WWTP
Permit #/PWS ID: FL0001494
Requested Due Date:

Sampled By (PRINT): W. Edwards (Uswater)
Sampler Signature: W. Edwards

Matrix	Sample Description	Sample Collection: Date	Time	Type G=grab C=comp.	pH (Lab use only)	Bottle Type	Bottle Lot #	Preservative	Chem ID	Chem Exp	# Bottles	Analysis: Fecal Coliform	(Lab Use Only) Sample ID #
WW	EFF-1	11-27-24	0830	G		250ml Plastic	ZL	N/A	N/A	N/A	1	X	6A
WW	EFF-1	11-27-24	0830	G		40ml Glass	Flip Top	Thio	ST	1-27	1	X	7A

HR Number: 7581
Comments:

Bottle Type Key Code		Preservative Key Code:	Okay to Run As Is...	Relinquished Signature & Affiliation	Date	Time	Accepted Signature	Date	Time
PL	HDPE	HCL = H, HNO3 = N, Na2S2O3 = ST or Thio, H2SO4 = S, NaOH = SH, NH4Cl = AC, Ascorbic Acid = AA	We	W. Edwards (Uswater)	11-27-24	0930	Currier	11-27-24	0930
UN	Unpreserved		Samples On Ice: Yes / No	Byc	11-27-24	1080	MAH	11/27/24	1030
GA	Glass Amber								
V	Vial		4.3						
Volume	250,500,1L or 2L		Temp. °C						
Micro	P=Flip Top=Screw Cap								

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

1060 Endeavor Ct, Nokomis, FL 34275 (941)488-8103 fax(941)484-8774 EB4380 10040 Bavaria Rd., Fort Myers, FL 33913 (239)590-0337 fax(239)590-0338 EB4857

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

MEMO TO FILE

July 23, 2024

Useppa Island
Facility ID# FLA014494
Lee County

Subject: Sanitary Sewer Overflow/Unauthorized Discharge

The Department acknowledges that Useppa Island has reported Sanitary Sewer overflow/Unauthorized Discharge of 800 gallons of partially treated wastewater during June, 2024. The Department acknowledges receipt of the necessary information related to the spill. The Department is not initiating formal enforcement proceedings at this time; however, this memorandum does not preclude the referenced spill from further action in the future in accordance with Sections 403.121, 403.131, 403.141 and 403.161, Florida Statutes.

Lucianne Blair
Environmental Consultant
South District

Attachment 4-1
Communication Date 07/23/24

FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Interim Secretary

Wastewater Abnormal Event 5 Day Report

This form is provided for your convenience only, in order to report the required information to Florida DEP. You may complete this form and email to the appropriate District office, as listed below.

Northwest District –NWD_WastewaterCompliance@floridadep.gov
Northeast District - DEP_NED@floridadep.gov
Southwest District - SWD_DW@floridadep.gov
Southeast District - SED.Wastewater@dep.state.fl.us
South District – SD-AbnormalEvents@floridadep.gov
Central District – DEP_CD@floridadep.gov

These incidents, and the corresponding Public Notice of Pollution, may also be reported through the DEP Business Portal. If it is preferred to submit these separately, the PNP may be submitted here. If the spill is greater than 1000 gallons, it MUST be reported to the **State Watch Office** at 1-800-320-0519 and a PNP MUST be submitted. All fields with an asterisk (*) must be completed as they are required by rule 62-620.610, F.A.C.

Responsible Party Information

*Facility Name:	Useppa Island Utilities
*Permit Number:	FLA014494
*Facility Type:	Domestic
*County:	Lee
*Reporter Name:	Melisa Rotteveel, US Water Services
*Reporter Phone:	8667538292
*Reporter Email:	mrotteveel@uswatercorp.net
*Reporter Address:	4939 Cross Bayou Boulevard, NPR FL 34652
*Responsible Party Name:	Useppa Island Utilities
*Responsible Party Address:	8115 Main Street, Bokeelia FL
*Responsible Party Phone:	239-283-1061
*Responsible Party Email:	utilities@useppa.com

Who was contacted?

DEP

*Date and Time: 6/5/2024 20:20

*Person contacted: SD WW Section

State Watch Office

*Date and Time:

*Incident Number:

Other

*Date and Time:

*Person contacted:

Spill Information

*Spill Characteristic / Wastewater: Partially treated

*Type Source: Clarifier

*Area affected: Ground

Attachment 4-1
Communication Date 06/25/24

*Date / Time Discharge Began: 6/5/2024 08:00

*Amount Discharged (in gallons): 800.00

*Amount Recovered (in gallons): 400.00

*Date / Time Discharge Ceased: 6/5/2024 08:15

*Physical Address: 828 Useppa Is, Captiva, FL 33924

*Latitude/Longitude: 26°39'43.4"N 82°12'44.3"W

*Malfunction/Cause: Break in Line

Effluent Limit Violations

- ☐ CL_2 (mg/L)
- ☐ TSS (mg/L)
- ☐ Turbidity (NTU)
- ☐ NO_3 (mg/L)
- ☐ Other
- ☐ Fecal Coliforms (CFU/100 mL)
- ☐ pH (SU)
- ☐ CBOD5 (mg/L)
- ☐ Abnormal Flow (MGD)

*Clean Up Status: Complete

***Clean Up Actions:**

- ☐ Vacuumed/Pump Truck
- ☐ Applied Disinfectanct
- ☐ Applied Lime
- ☐ Applied HTH/chlorine
- ☐ Applied absorbents
- ☐ Washed down area
- ☐ Water samples/field measurements taken
- ☐ Raked and disposed of debris
- ☐ Signs posted
- ☐ Other

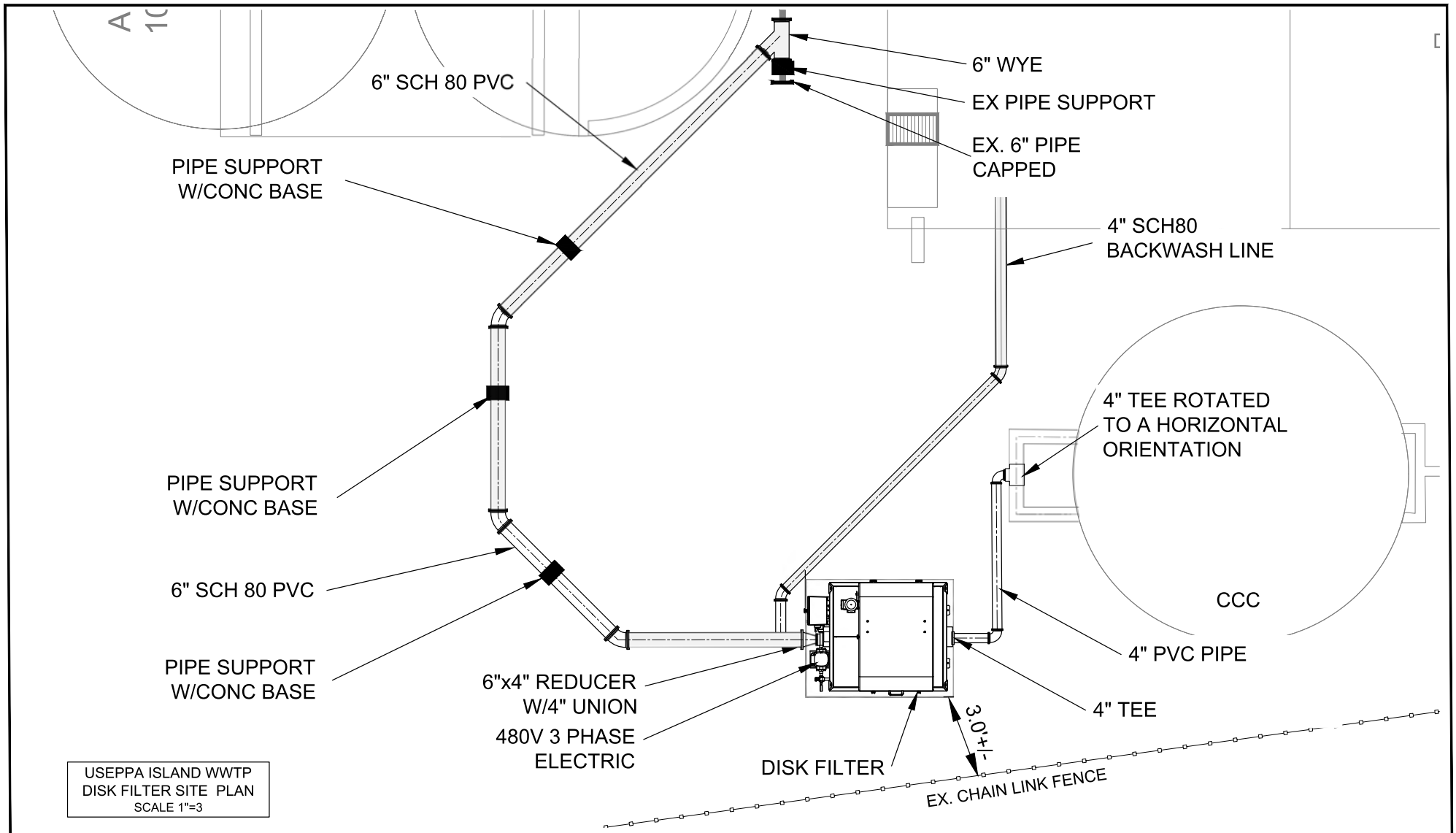
Sampling results / Field readings:

***Incident Description and Remedial Action Being Taken** (Include estimated time for completion):

Upon arrival to the facility to perform operational visit, the operator found RAS line broken and partially treated solids discharging on top of the aeration bay tanks and onto the adjacent grounds. Operator was able to shut down the facility blowers and the discharge ceased immediately (by 8:15 am)

***Future Preventative Measures:**

The RAS line was repaired and the return re-established. Standing solids were cleared from the top of the aeration tank tops. The affected area of the grounds were limed and cleaned. We will continue to monitor and report as required



Attachment 4-1
Communication Date 11/06/23

NOTIFICATION OF COMPLETION OF CONSTRUCTION FOR WASTEWATER FACILITIES OR ACTIVITIES

1. Instructions

a. In accordance with Rule 62-620.410, F.A.C., this form must be submitted to the Department's appropriate district office or approved local program prior to placing a newly constructed facility or modified portion of an existing facility into operation for any purpose other than testing for leaks and equipment operation.
b. Each applicable item must be completed in full. Where attached sheets or other technical documentation are used in lieu of the blank spaces provided, indicate appropriate cross-references in the spaces.
c. Three (3) copies of this notification with supporting documentation shall be submitted with this form.
d. All information is to be typed or printed in ink. Dates are to be entered in MM/DD/YR format.

2. Facility Information

a. Permit Number FLA014494 b. Facility Identification Number FLA014494-006-DW3P

c. Project/Facility Name Useppa Island Wastewater Treatment Facility

d. Contact Name: JR Hiller
Number and Street JR Hiller
City/State/Zip Code Bokeelia, FL 33122
Telephone (239) 283-6078

3. Description of Facilities to be Placed into Operation:

Install disc filter

4. Description of Substantial Deviations from the Permit, Approved Preliminary Design Report, and Application Materials:

Dicharge pipe is now 4-inches instead of 6-inches

5. Implementation Dates

a. Actual Date Construction Began	7/11/23
b. Scheduled Date to Place Facilities into Operation	10/25/23
c. Scheduled Date to Attain Operational Level	10/25/23
d. Scheduled Date to Submit DEP Form 62-620.910(13)[1]	11/3/23

[1]In accordance with Rule 62-620.410, F.A.C., DEP Form 62-620.910(13) Notification of Availability of Record Drawings and Final Operation and Maintenance Manuals must be submitted within six month after the facilities are placed into operation.

DEP Form 62-620.910(12)
Effective October 23, 2000

Attachment 4-1
Communication Date 11/03/23

6. Certifications

a. Applicant or Authorized Representative

I certify that the statements made in this notification and all attachments are true, correct and complete to the best of my knowledge and belief. I agree to operate and maintain these facilities in such a manner as to comply with the provisions of Chapter 403, F.S., Chapter 62-620, F.A.C., and all other applicable rules of the Department.

(Signature of Applicant or Authorized Representative[2]) 11/03/23 (Date)

Name (Please Type) JR Hiller Company Name Useppa Island Club
Title Service Director Company Address P.O. Box 640
Phone (239) 283-6078 City/State/Zip Code Bokeelia, FL 33122
Email (optional) jrhillier@useppa.com

b. Applicant or Authorized Representative (For Domestic Wastewater Facilities Only)

I certify that an appropriate draft operation and maintenance manual for these domestic wastewater facilities, which has been examined by a professional engineer as certified below, is available and located at Utility Office and can be submitted upon request.

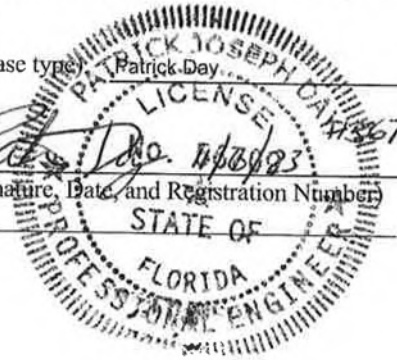
(Signature of Applicant or Authorized Representative[2]) 11/03/23 (Date)

Name (Please Type) JR Hiller Company Name Useppa Island Club
Title Service Director Company Address P.O. Box 640
Phone (239) 283-6078 City/State/Zip Code Bokeelia, FL 33122
Email (optional) jrhillier@useppa.com

c. Professional Engineer Registered in Florida

I certify that the facilities listed above have been completed to the point where the facilities are functionally complete. I further certify that construction on these facilities has proceeded substantially in accordance with the permit and the approved preliminary design report and application materials, or that deviations noted above will not prevent the system from functioning in compliance with all applicable statutes of the State of Florida and rules of the Department when properly operated and maintained. These determinations have been based upon on-site observation of construction, scheduled and conducted by me or by a project representative under my direct supervision, for the purpose of determining if the work proceeded in compliance with the permit and the approved preliminary design report and application materials.

Company Name: DRMP Name (please type): Patrick Day
Company Address: 1404 Dean St., Suite 101
City/State/Zip Code Fort Myers, FL 33901
Phone Number: 239 206-5444
Email (optional): pday@drmp.com



(Seal, Signature, Date, and Registration Number)

[2]If signed by the authorized representative, attach a letter of authorization.

d. Professional Engineer Registered in Florida (For Domestic Wastewater Facilities Only)

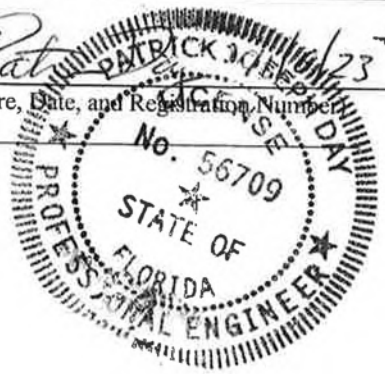
I certify that the draft operation and maintenance manual for these domestic wastewater facilities has been prepared or examined by me or by individual(s) under my direct supervision and that there is reasonable assurance, in my professional judgement, that the facilities, when properly operated and maintained in accordance with this manual, will comply with all applicable statutes of the State of Florida and rules of the Department.

Company Name: DRMP, Inc
Company Address: 1404 Dean St. Ste 101
City/State/Zip Code Fort Myers, FL 33901
Phone Number: 239-206-5444
Email (optional): pday@drmp.com

Name (please type) Patrick Day

Pat 6/23 #56709

(Seal, Signature, Date, and Registration Number)



NOTIFICATION OF AVAILABILITY OF RECORD DRAWINGS AND FINAL OPERATION AND MAINTENANCE MANUALS

1. Instructions

a. In accordance with Rule 62-620.410, F.A.C., this form must be submitted to the appropriate Department district office or approved local program within six months after placing a newly constructed facility or modified portion of an existing facility into operation.
b. Each applicable item must be completed in full. Where attached sheets or other technical documentation are used in lieu of the blank spaces provided, indicate appropriate cross-references in the spaces.
c. Three (3) copies of this notification with supporting documentation shall be submitted with this form.
d. All information is to be typed or printed in ink. Dates are to be entered in MM/DD/YR format.

2. Facility Information

a. Permit Number: FLA014494

b. Project/Facility Name: Useppa Island Wastewater Treatment Facility

c. Facility Identification Number: FLA014494-006-DW3P

d. Contact Name: JR Hiller
Number and Street: JR Hiller
City/State/Zip Code: Bokeelia, FL 33122
Telephone: (239) 283-6078

3. Description of facilities for which Record Drawings, and for domestic wastewater facilities final Operation and Maintenance Manuals, are available

Install disc filter

4. Description of substantial deviations from the permit, approved Preliminary Design Report, and application materials

None.

DEP Form 62-620.910(13)
Effective October 23, 2000

5. Certifications

a. Applicant or Authorized Representative

I certify that the statements made in this notification and all attachments are true, correct and complete to the best of my knowledge and belief. I agree to operate and maintain these facilities in such a manner as to comply with the provisions of Chapter 403, F.S., and all applicable rules of the Department. A copy of the record drawings or other plans, as applicable, showing the newly constructed facilities or modified portion of the existing facilities, as applicable, is available at _____.

_____ 11/03/23
Signature of Applicant or Authorized Representative[1] Date

Name (Please Type) JR Hiller Company Name Useppa Island Club
Title Service Director Company Address P.O. Box 640
Phone (239) 283-6078 City/State/Zip Code Bokeelia, FL 33122
Email (optional): jrhillier@useppa.com

b. Applicant or Authorized Representative (For Domestic Wastewater Facilities Only)

I certify that an appropriate final operation and maintenance manual for these domestic wastewater facilities, which has been examined by a professional engineer as certified below, is available and located at Utility Office and can be submitted upon request.

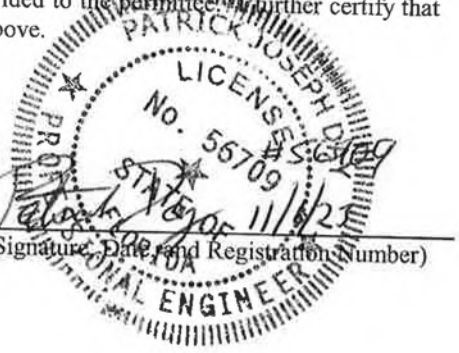
_____ 11/03/23
Signature of Applicant or Authorized Representative[1] Date

Name (Please Type) JR Hiller Company Name Useppa Island Club
Title Service Director Company Address P.O. Box 640
Phone (239) 283-6078 City/State/Zip Code Bokeelia, FL 33122
Email (optional): jrhillier@useppa.com

c. Professional Engineer Registered in Florida

I certify that record drawings for the facilities have been reviewed by me or by individual(s) under my direct supervision for completeness and adequacy, and have been provided to the permittee. I further certify that the record drawings identify those substantial deviations noted above.

Name (please type): Patrick Day
Company Name: DRMP
Company Address: 1404 Dean St., Suite 101
City/State/Zip Code: Fort Myers, FL 33901
Phone Number 239 206-5444
Email (optional): pday@drmp.com



_____
(Seal, Signature, Date and Registration Number)

[1] If signed by the authorized representative, attach a letter of authorization.

d. Professional Engineer Registered in Florida (For Domestic Wastewater Facilities Only)

I certify that the final operation and maintenance manual for these domestic wastewater facilities has been prepared or examined by me or by individual(s) under my direct supervision and that there is reasonable assurance, in my professional judgement, that the facilities, when properly operated and maintained in accordance with this manual, will comply with all applicable statutes of the State of Florida and rules of the Department.

Name (please type): Patrick Day
Company Name: DRMP
Company Address: 1404 Dean St., Suite 101
City/State/Zip Code: Fort Myers, FL 33901
Phone Number 239 206-5444

Email (optional): pday@drmp.com

(Seal, Signature, Date and Registration Number)

From: Patrick Day
To: Moon, Nolin; Newburg, Deanna
Cc: Reigelman, Landon
Subject: RE: Useppa Disc filter installation
Date: Monday, October 30, 2023 4:46:46 PM
Attachments: image022.png
image023.png
image024.png
image025.png
image026.png
image033.png
image034.png
image035.png
image036.png
image037.png
image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
image009.png
image010.png
image011.png

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

The samples attached to the email are from before and after and there are pictures on the bottom.

DRMP

Patrick Day, PE, BCEE
Office Manager/Utility Profit Center Manager
Main: 239.206.5093 | Direct: 239.206.5093 | Cell: 239.357.7194
PDay@drmp.com

DRMP, Inc.
1404 Dean Street Suite 101, Ft. Myers, FL 33901

Patrick Day, PE, BCEE
Utility Profit Center Manager
Civil Services
Main: 239.206.5093 | Direct: 239.206.5444 | Cell: 239.357.7194
pday@drmp.com

4235 South Stream Boulevard, Suite 150, Charlotte, NC 28217

Attachment 4-1
Communication Date 10/30/23

From: Moon, Nolin <Nolin.Moon@FloridaDEP.gov>
Sent: Monday, October 30, 2023 4:32 PM
To: Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>
Cc: Reigelman, Landon <Landon.Reigelman@FloridaDEP.gov>; Patrick Day <Pday@drmp.com>
Subject: FW: Useppa Disc filter installation

Here you go.

From: Patrick Day <PDay@drmp.com>
Sent: Monday, October 30, 2023 4:26 PM
To: Moon, Nolin <Nolin.Moon@FloridaDEP.gov>
Subject: FW: Useppa Disc filter installation

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Nolin,

I tried to send this to Nicole and it got bounced back. The new filter at Useppa WWTP was a permit requirement and is working wonderfully.

Thanks,

DRMP
Patrick Day, PE, BCEE
Office Manager/Utility Profit Center Manager
Main: 239.206.5093 | Direct: 239.206.5093 | Cell: 239.357.7194
PDay@drmp.com

DRMP, Inc.
1404 Dean Street Suite 101, Ft. Myers, FL 33901

Patrick Day, PE, BCEE
Utility Profit Center Manager
Civil Services
Main: 239.206.5093 | Direct: 239.206.5444 | Cell: 239.357.7194
pday@drmp.com

4235 South Stream Boulevard, Suite 150, Charlotte, NC 28217

From: Patrick Day <PDay@drmp.com>
Sent: Monday, October 30, 2023 1:07 PM
To: 'Nicole.Devine@FloridaDEP.gov' <Nicole.Devine@FloridaDEP.gov>
Subject: Useppa Disc filter installation

Nicole,

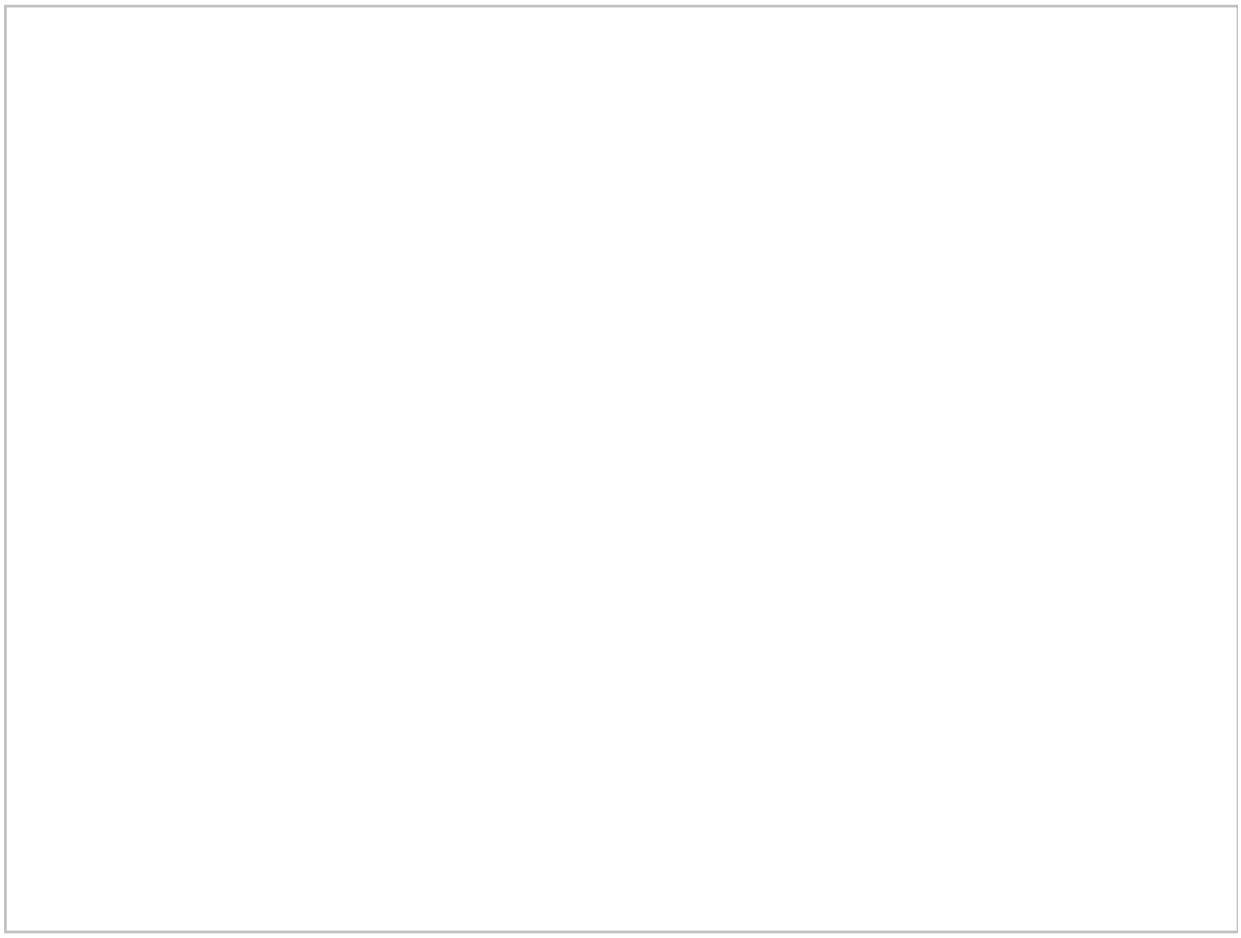
The Useppa disc filter was installed (see pictures below) and then tested in early October. I have attached samples results before and after installation and the results are very good. Please let me know if any other documentation is needed to close out the minor modification.

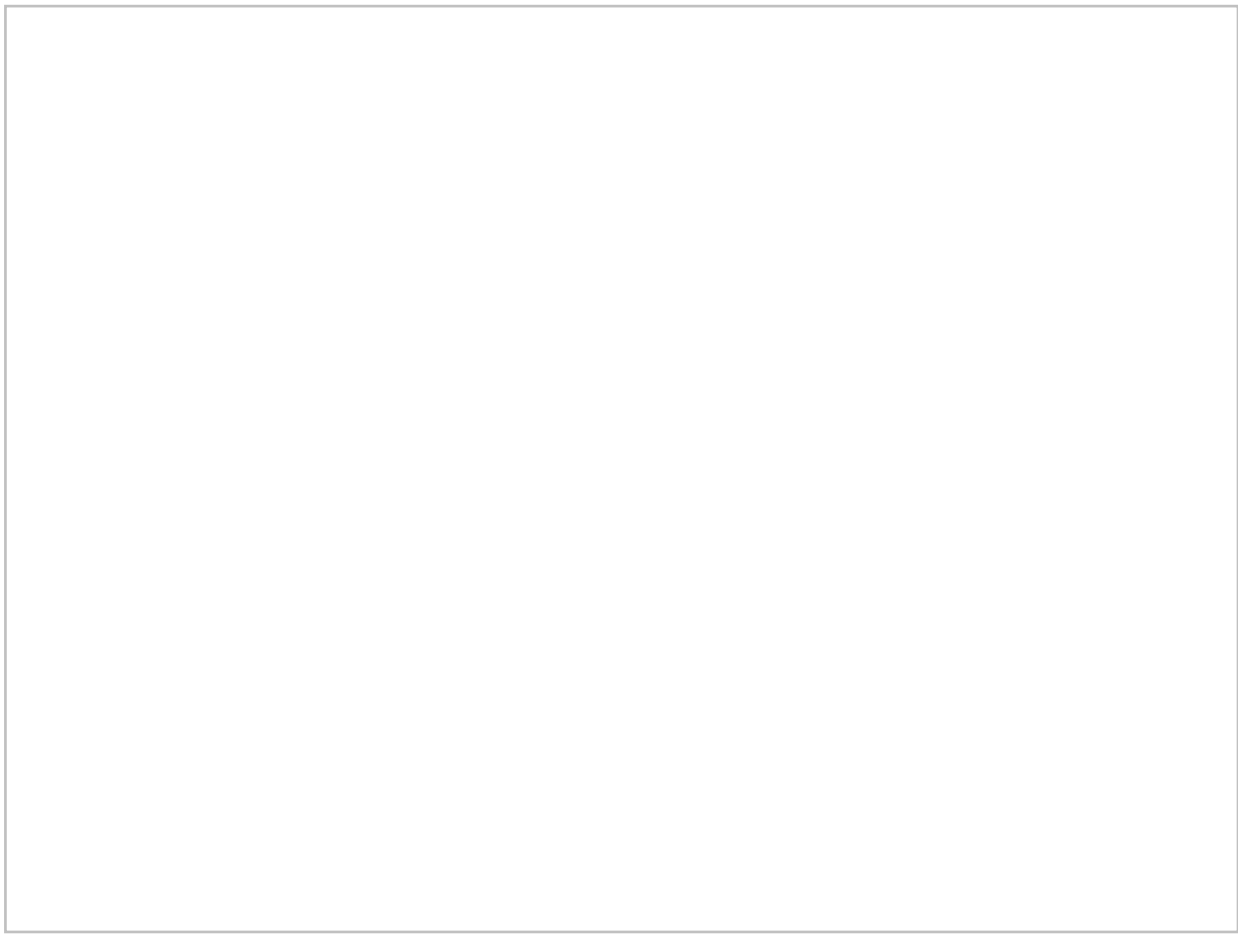
Thanks,

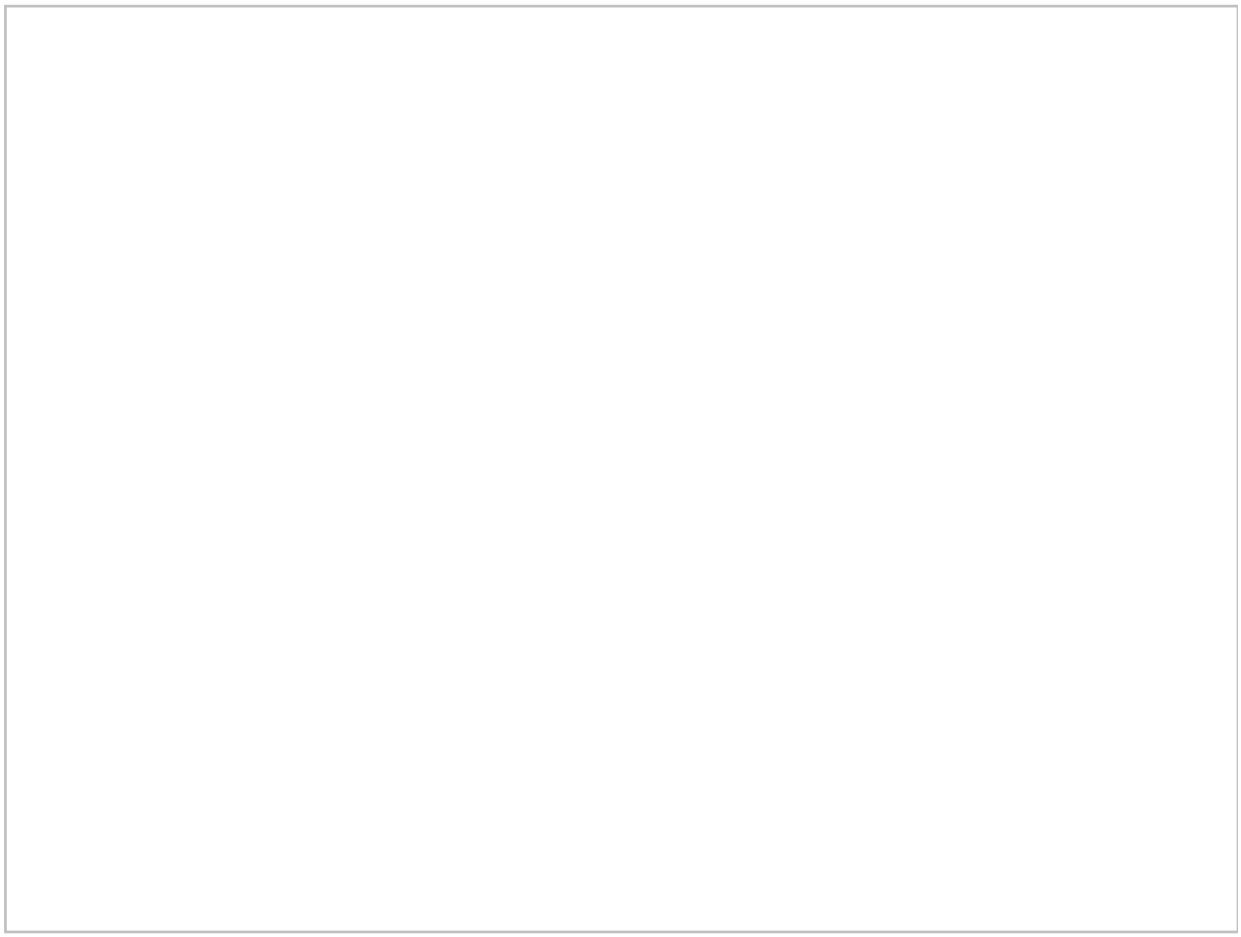
DRMP

Patrick Day, PE, BCEE
Office Manager/Utility Profit Center Manager
Main: 239.206.5093 | Direct: 239.206.5093 | Cell: 239.357.7194
PDay@drmp.com

DRMP, Inc.
1404 Dean Street Suite 101, Ft. Myers, FL 33901







Patrick Day, PE, BCEE
Utility Profit Center Manager
Civil Services
Main: 239.206.5093 | Direct: 239.206.5444 | Cell: 239.357.7194
pday@drmp.com

4235 South Stream Boulevard, Suite 150, Charlotte, NC 28217

Dep Customer Survey

Blair, Lucy

From: Selina Makofsky <smakofsky@uswatercorp.net>
Sent: Friday, September 15, 2023 4:52 PM
To: SD-AbnormalEvents
Cc: Jonathan Schmidt; William Edwards Sr.; service@useppa.com; utilities@useppa.com; Natalie Harvey; Lina Quintero; William Adams; Melisa Rotteveel
Subject: RE: Useppa Island Utilities - FLA014494 - County (Lee)

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

UPDATE:

As noted in the original report, the filters were cleaned out and returned to service on 8/31/23. The CCC was cleaned out on 9/8/23.
The plant has returned to normal operations.

If you need further information at this time, please let me know.
Thank you.

Selina J. Makofsky
Florida Compliance - Assistant Manager
U.S. Water Services Corporation
4939 Cross Bayou Boulevard
New Port Richey, FL 34652
Office (866) 753-8292 Ext. 229
Cell (727) 836-0048
smakofsky@uswatercorp.net
After hours emergency reporting: 1-866-753-8292

From: Selina Makofsky
Sent: Thursday, August 31, 2023 6:45 PM
To: 'sd-abnormalevents@dep.state.fl.us' <sd-abnormalevents@dep.state.fl.us>
Cc: Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; 'service@useppa.com' <service@useppa.com>; 'utilities@useppa.com' <utilities@useppa.com>; Natalie Harvey <nharvey@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>; William Adams <wadams@uswatercorp.net>; Melisa Rotteveel <mrotteveel@uswatercorp.net>
Subject: Useppa Island Utilities - FLA014494 - County (Lee)

Attached please find an Useppa Island Utilities abnormal event report for your records.

If you have any questions ,please do not hesitate to ask.

Selina J. Makofsky
Florida Compliance - Assistant Manager
U.S. Water Services Corporation
4939 Cross Bayou Boulevard

Attachment 4-1
Communication Date 09/15/23

New Port Richey, FL 34652
Office (866) 753-8292 Ext. 229
Cell (727) 836-0048
smakofsky@uswatercorp.net
After hours emergency reporting: 1-866-753-8292

WWTP MALFUNCTION / ABNORMAL EVENT REPORT

Please note for accordance with the Florida Administrative Code (F.A.C.) Rules. This form is provided for your convenience only. You may complete this form and email to Keith.Kleinmann@dep.state.fl.us. If spill is greater than 1000 gallons you MUST call State Watch Office at 1-800-320-0519. All items with an asterisk (*) are requirements by rule that must be completed.

*Facility Name: Useppa Island Utility		*County: Lee	
*Permit Number: FLA014494		Method Of Contact: Email	
*Reporter Name: Jonathan Schmidt/Selina Makofsky		*Responsible Party: Useppa Island Utilities	
*Reporter Address: 4939 Cross Bayou Boulevard, NPR FL		*Responsible Party Address: Useppa Island, FL	
*Reporter Phone: 866-753-8292		*Responsible Party Phone:	
*DEP: ☒	*Date: 8/31/23	*Time: 6:30	*Person contacted: FDEP Ft. Myers
*State Watch Office: ☐	*Date:	*Time:	Incident Number:
*Other: ☐	*Date:	*Time:	Person contacted:

Spill Information

*Spill Characteristic	*Source		*Area Affected
☐ Raw wastewater	☐ Lift station # ____	☐ Surge Tank	☐ Storm Water
☐ Partially Treated	☐ Line Break	☐ Aeration Tank	☐ Surface Water/ ____
☐ Treated	☐ Filter	☐ Clarifier	☐ Ground
☐ Reuse/Reclaimed	☐ Disposal System	☐ Digester	☐ Containment area
☐ Other ____	☐ Other ____	☐ Other ____	☐ Other/ ____

*Date / Time Discharge Occurred: ____

*Amount of discharge (1) N/A___ total gallons OR (2) _____ gallons per hour for _____ hours.

*Amount recovered 0_____gallons

*Ongoing: ☐ * Ceased: ☐

*Physical location/ address/ other reference: Useppa Island WWTP

* Malfunction/Cause

☐ Power Outage	☐ RAS Line	Weather
☐ Pump Failure	☐ Leak	☐ Lightning
☐ Disinfection System Failure	☐ Switch/Timer Failure	☒ Heavy Rainfall
☐ Clarifier Failure	☐ Filtration System Problem	☐ High Winds
☐ Filter Bypass	☒ Clog or blockage	☐ Tropical Storm: ____
☐ Blower Failure	☐ Line Break	☒ Hurricane: Idalia
☐ Outside Contractor ____	☒ Other increased hydraulics	☐ Other: ____

* Explain: Upon performing operational visit at approximately 0800 am, the operator found that due to the impacts of Hurricane Idalia, excessive rainfall resulted in hydraulic overloading of the plant and multiple lift stations. No access to the island was available for 2 days (8/29 & 8/30) so visits and sampling were missed. At the time of the 8/31 visit, all systems were operational however the filters were clogged resulting in solids loss from the filters through to the CCC. Several lift stations were underwater.
No samples were collected due to the poor effluent quality.

* Effluent Limit Violations

☐ Cl_2 ____ mg/L	☐ Turbidity ____ NTU	☐ pH ____ SU
☐ TSS ____ mg/L	☐ NO_3 ____ mg/L	☐ $CBOD_5$ ____ mg/L
☐ Other ____	☐ fecal coliforms ____ CFU/100ml	☐ Abnormal Flow ____ MGD

* Corrective / Remedial Action Being Taken

☐ Auxiliary Power System On-Line	☐ Back-Up On-Line	☒ Notified Local Authorities
☐ Disinfect with lime	☐ Samples Taken (if surface waters impacted)	☐ Notified State Watch Office
☐ Bypass	☐ Restore Power	☐ Notified Permittee/Owner
☐ Contained On-site	☐ Replace Equipment/Supplies	☐ Line Repaired
☒ Other clean	☐ VAC Truck/Destination: ____	☐ Signs Posted Near Affected Waters

* Remedial Action Being Taken / Estimated Time for Completion of Repairs: The filters were being cleaned today (8/31/23) and the CCC will be cleaned out over the next few days. We anticipate that once the water levels receed and the hydraulic overload stops, operations should return to to normal within a week.

Revised 1/13

Attachment 4-1
Communication Date 08/31/23

From:	Selina Makofsky
To:	South District PWS; Devine, Nicole
Cc:	utilities@useppa.com; William Edwards Sr.; Jonathan Schmidt; utilities@useppa.com; service@useppa.com; Melisa Rotteveel; Lina Quintero; William Adams
Subject:	Useppa Island Utilities FLA014494
Date:	Tuesday, June 20, 2023 4:38:44 PM
Attachments:	image001.png

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hello

The planned work on the sand filters at Useppa WWTF has begun sooner than anticipated. The wastewater flow is bypassing the sand filters and discharging directly into the CCC to allow for work on the filters.

We do not anticipate a decline in effluent quality. Operator will continue to monitor and report as required.
The work should be completed by Friday.

Selina J. Makofsky
Florida Compliance - Assistant Manager
U.S. Water Services Corporation
4939 Cross Bayou Boulevard
New Port Richey, FL 34652
Office (866) 753-8292 Ext. 229
Cell (727) 836-0048
smakofsky@uswatercorp.net
After hours emergency reporting: 1-866-753-8292

Attachment 4-1
Communication Date 06/20/23

Solutions for Business

WASTE PRO

Service Agreement

☒ TEMPORARY ☐ PERMANENT 185003 - ____

A. CUSTOMER SITE INFORMATION

Site Name: USeppa Island Utilites
Service Address: 1200 Maria Dr
City/State: St James City Zip Code: 33956
Email: wiedwards@usutilities.com Telephone: 863-458-2327
Effective Date: 4/20/23 Account #: 04895
Service Area: SJC Salesperson: Chiagnanti
Contact Name: William Edwards
Fax: Mobile:

B. BILLING INFORMATION

Billing Name: Same on account
Billing Address:
City/State: Zip Code:
Email: Telephone:
P.O. # Required? Y / N NO
Billing Cycle: Customer Payment:
Contact Name:
Fax: Mobile:

C. NEW SCHEDULE OF SERVICE

Qty	Service Type	Material	Size	Freq.	Compact Y/N	Locks	Wheels	Gates	Rate	Schedule
1	RO	Study	20yd	1/c	NO				$700.00 Month Haul	S M T W T F S
1	Liner								$450.00 Month Haul	S M T W T F S

OLD SCHEDULE OF SERVICE

									Month Haul	S M T W T F S
									Month Haul	S M T W T F S

D. ADDITIONAL FEES

Lockbar: Casters:
Delivery: ~~$290.00~~ 250.00 Relocate: ~~$150.00~~ 250
Franchise Fee:
Disposal Per Ton: 85.00 per ton
Additional Yardage Fee: Extra Pickup:
Roll off box not active after 5 days. ~~$35.00~~ $10.00 per day service charge.
A fuel recovery and environmental compliance cost recovery charge, calculated as a percentage of the Charge(s), will be included on your invoice. Full
Roll-Off container will have a per pull charge and a minimum of 2.5 tons disposal charge.
Dry Run Fee: 250

"LOCATION STAMP HERE"

Other Instructions: This Goes to Hendry CO - they need to be called and notified.
Special Service:

THE UNDERSIGNED INDIVIDUAL SIGNING THIS AGREEMENT ON BEHALF OF THE CUSTOMER ACKNOWLEDGES THAT HE/SHE HAS READ AND UNDERSTANDS THE TERMS AND CONDITIONS OF THIS AGREEMENT, ON THE REVERSE SIDE, AND THAT HE/SHE HAS THE AUTHORITY TO SIGN ON BEHALF OF THE CUSTOMER.

X William F. Gay — 4-20-23
Customer Signature — Date
X William F. Gay
Print Name

Chelsey Magnanti 4/19/23
Waste Pro Representative — Date
Chelsey
Print Name

TERMS & CONDITIONS ON THE REVERSE

____ WP/Manager Initials

ORIGINAL

Attachment 4-1
Communication Date 04/20/23

From: Selina Makofsky
To: Devine, Nicole; Starrach, Gabriele; Reid, Robert B; Chang, Louise
Cc: Jonathan Schmidt; Lina Quintero; jrhiller@useppa.com; Melisa Rotteveel
Subject: Useppa WWTP (FLA014494) WL Meeting Notes
Date: Friday, March 17, 2023 4:15:57 PM
Attachments: image002.png

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hello Nicole

I wanted to provide a response to you based on your WL meeting notes from our meeting on January 12. I believe the two items below are the only outstanding issues.

1 - The facility did not sample in accordance with the frequency outlined in their permit. Please submit documentation to the Department detailing how the facility will ensure that Total Nitrogen, Nitrate samples are collected in accordance with the frequency outlined in the permit.

> **Response:** We have adjusted our sampling for the NO2/NO3; on the operator's sampling calendar he has made note to collect the samples every other week.

2 - The facility has multiple groundwater exceedances. Please submit an estimated timeline to the Department to correct this deficiency, or a more detailed plan of action, with tentative dates, to address this deficiency.

> **Response:** Staff was informed that the geologist had looked at the wells however we have not received any report of their findings. They should be able to provide that information.

If you need additional information from us, please let me know.

Thank you – have a great weekend.

Selina J. Makofsky
Florida Compliance - Assistant Manager
U.S. Water Services Corporation
4939 Cross Bayou Boulevard
New Port Richey, FL 34652
Office (866) 753-8292 Ext. 229
Cell (727) 836-0048
smakofsky@uswatercorp.net

Attachment 4-1
Communication Date 03/17/23

From: Selina Makofsky <smakofsky@uswatercorp.net>
Sent: Friday, February 10, 2023 11:06 AM
To: Devine, Nicole <Nicole.Devine@FloridaDEP.gov>; Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>; Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>; Chang, Louise <Louise.Chang@floridadep.gov>
Cc: Jonathan Schmidt <jschmidt@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>; jrhiller@useppa.com; Melisa Rotteveel <mrotteveel@uswatercorp.net>
Subject: RE: Useppa WWTP (FLA014494) WL Meeting Notes

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hello Nicole

We received the letter and are working on the remaining items that you noted.
Please note that we are currently short staffed and finalizing reporting for this month. What is the timeline to have the information to you?

Thank you for your consideration.

Selina J. Makofsky
Florida Compliance - Assistant Manager
U.S. Water Services Corporation
4939 Cross Bayou Boulevard
New Port Richey, FL 34652
Office (866) 753-8292 Ext. 229
Cell (727) 836-0048
smakofsky@uswatercorp.net

From: Devine, Nicole <Nicole.Devine@FloridaDEP.gov>
Sent: Tuesday, February 7, 2023 9:17 AM
To: Jonathan Schmidt <jschmidt@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>; Selina Makofsky <smakofsky@uswatercorp.net>; Melisa Rotteveel <mrotteveel@uswatercorp.net>; jrhiller@useppa.com
Cc: Chang, Louise <Louise.Chang@floridadep.gov>; Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>; Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Subject: Useppa WWTP (FLA014494) WL Meeting Notes

*****This is an outside sender please be aware of the contents and do not

follow links or download files from outside senders*****

Good Morning,

Linked below are the Warning Letter Meeting Notes for the WL Meeting held on 1/12/2023. Please review the notes and provide any outstanding corrective action documentation to the Department. If more time is needed to adequately address the deficiencies noted, please submit a time extension request to the Department for review.

WL Meeting Notes: https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1166060.1]&[profile=Enforcement_Legal]

Thanks,

FL-DEP-LOGO

Nicole Devine
Environmental Specialist II
2295 Victoria Avenue, Suite 364
Fort Myers, FL 33901
Main: (239) 344-5675
Office: (239) 344-5600

Dep Customer Survey

Dep Customer Survey

From:	Selina Makofsky
To:	Devine, Nicole
Cc:	Jonathan Schmidt; Lina Quintero; Melisa Rotteveel; JR Hillier; service@useppa.com; utilities@useppa.com
Subject:	Useppa Response FLA 014494
Date:	Thursday, January 26, 2023 6:43:58 PM
Attachments:	image001.png Rpt_2204070_Final_v2.pdf us water 2.docx Useppa Island Utilities standard Operating Protocol.docx CamScanner 01-26-2023 15.24.pdf us water 3.docx CamScanner 01-26-2023 14.42.pdf CL2 Field Sheet rev 12.2022.pdf pH Field Sheets rev 12.2022.pdf USEPPA Island WWTP WL 10.30.22 response.pdf

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This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hello

Attached please find our response to the Useppa warning letter with supporting documentation.

Please let us know if you need further information at this time.

Thank you.

Selina J. Makofsky
Florida Compliance - Assistant Manager
U.S. Water Services Corporation
4939 Cross Bayou Boulevard
New Port Richey, FL 34652
Office (866) 753-8292 Ext. 229
Cell (727) 836-0048
smakofsky@uswatercorp.net

Attachment 4-1
Communication Date 01/26/23

January 26, 2023

To: Florida Department of Environmental Protection
South District Office
PO Box 2549
Fort Myers, Florida 33902

Re: Warning Letter
Useppa Island WWTP FLA014494
Lee County – DW

Dear Ms. Devine:

The purpose of this letter is to respond and address the issues set forth in the warning letter dated October 31, 2022, based on the compliance evaluation inspection conducted June 24, 2022. We have reviewed the items of concern.

Please find the following response attached.

Sincerely,

Selina J. Makofsky
Florida Compliance - Assistant Manager
US Water Services Corporation
(866) 753-8292 Ext. 229
(727) 836-0048 (cell)
smakofsky@uswatercorp.net
Att: supporting documentation

LABORATORY

DEFICIENCY: The Chain of Custody (COC) for the samples collected on April 7, 2022 indicate that the TSS sample was conducted at EFF-01. However, the laboratory report indicates that the sample was collected at "LAST AIR BAY MLSS.

Corrective action: *Please submit documentation to the Department describing the discrepancy and how the facility will ensure that all future sampling events and records/reports are done in accordance with DEP SOPs.*

> **Response**: The lab has corrected the report to show that this was EFF-1 and not Last Air Bay. See attached lab report.

DEFICIENCY: The Calibration/Verification log for the Chlorine meter for June 2022 did not include an indication of whether calibrations/verifications passed.

Corrective action: *Please submit documentation to the Department showing that the Calibration/Verification log for the Chlorine meter includes all required information.*

> **Response:** New chlorine and pH meter logs are being used; see attached copies.

DEFICIENCY: A review of the DMRs showed that the facility did not sample for Total Nitrogen, Nitrate in accordance with the frequency outlined in their permit, every two (2) weeks..... Additionally, please refer to the attached appendix (Appendix C) for more details on the three missed sampling events for Oil and Grease, CBOD (INF-01), and TSS (INF-01).

Corrective action: *Please submit documentation to the Department detailing how the facility will ensure that all samples are collected in accordance with the frequency outlined in the permit. Additionally, please include documentation detailing the cause of missed Total Nitrogen, Nitrate samples.*

Please submit documentation to the Department detailing the cause of the three missed sampling events for Oil and Grease, CBOD (INF-01), and TSS (INF-01).

> **Response**: As per our discussion on January 12, 2023, and subsequent discussions on January 18, 2023, we request further details and information on the determination of the violation concerning sampling frequency. The permit states "biweekly, every 2 weeks". We believe we have met those requirements and all samples have been collected.
>
> Please note that explanations for missing the influent CBOD, TSS and Oil and Grease samples were provided in the original DMRs submitted in 2020. All were inadvertent errors.

DEFICIENCY: The Chain of Custody (COC) for April 2022 does not include the following: Name, address and contact information of the sampler; signature of the person doing the sampling; permit ID and facility information; the number of bottles collected and/or the total number of sample and facility information; the number of bottles collected and/or the total number of sample required field parameters; matrix sampled; and the temperature of the samples at the time of relinquishing. Also, the samples collected on April 6, 2022 do not have a legible time relinquished. The samples collected on April 7, 2022 and April 12 - 14, 2022 have the time relinquished crossed out with a single line but the corrections are not signed or dated.
Additionally, the Nitrate-Nitrite samples collected on April 6, 2022 and April 21, 2022 do not appear to be preserved properly, nor is the pH recorded to indicate preservation. Also, the fecal sample collected on April 6, 2022 does not indicate if the sample was preserved. The fecal samples collected on April 12, 20-22, April 20, 2022, and April 21, 2022 indicate that Sulfuric Acid was used to preserve the samples.

Corrective action*: Please submit documentation to the Department detailing how the facility will ensure that all sampling events and records/reports meet DEP SOPs. Additionally, please submit documentation detailing how the facility ensure that all samples are preserved properly.*

Response: As mentioned in our discussion on January 12, 2023, the COC for the April 2022 sample was accidentally lost during the boat ride transferring the samples from the island to the mainland. The information was verbally provided to the laboratory. Staff will ensure that all papers are secure prior to the boat trip.

We will ensure that all corrections to the COCs include a line, initials, and date.

In reference to the preservation, we discussed the procedure/method with our laboratory. Please note that we believe that the sampling procedures for the Nitrate-Nitrite are correct and our understanding from our contract laboratory was that the collection and preservation protocol was acceptable. Attached please find a letter from the current lab manager on this topic.

In addition, we have reviewed SOP FS 1006, attached, and highlighted the areas we believe substantiate our claims. Table FS 1000-4 includes the preservation techniques that are in the DEP SOP. Since the lab is able to run the samples within a 48 hour window, our interpretation is that we are not required to preserve either Nitrate or Nitrite. While the table notes a Nitrate-Nitrite analysis that should be preserved, it is our belief that we are not required to run it that way.

We would like further clarification on the SOP and the acceptable methodology. Moving forward, however, the laboratory has agreed to provide us with 2 bottles for separate collection of the Nitrate and Nitrite samples.

RECORDS AND REPORTS

DEFICIENCY: Please see the attached Appendix B for more details on the transcription and calculation errors found during the DMR review.....

Corrective action: *Please re-submit the DMRs to the Department with all corrections made. If there are any questions on the specific deficiencies outlined in Appendix B, please contact the Department to schedule a meeting to review the DMRs.*

Response: Please note that the DMRs are submitted through the EZDMR portal system which acknowledges receipt with a date stamp. We researched the three noted and confirmed that all were date stamped as received (see below).

October 2020 – submitted November 12, 2020
January 2022 – submitted February 24, 2022
February 2022 – submitted March 28, 2022

DEFICIENCY: Please see the attached appendix (Appendix C) for more details on the late and/or missing. DMRs
Corrective action: *Please submit the missing DMRs to the Department.*

Response: See note above concerning the missing/late DMRs. Those DMRs that have the incorrect monitoring period, transcription errors, and missing data will be revised and resubmitted. In the future we will ensure the correct rounding and significant figures will be used for reporting.

We are awaiting further direction from your office with regards to the correct flow calculation; we will correct those DMRS once the errors in our calculations are determined.

FACILITY SITE REVIEW

DEFICIENCY: At the time of the inspection, the exterior wall of the surge tank was compromised, and rebar was exposed.

Corrective action: *Please submit documentation to the Department detailing how the facility will ensure the exterior tank wall of the surge tank no longer has exposed rebar.*

Response: The surge tank wall has been repaired; see photo below.

EFFLUENT QUALITY

DEFICIENCY: Please refer to the attached appendix (Appendix D) for a more detailed list of the effluent exceedences found during the DMR review.

Corrective action*: Please submit documentation to the Department detailing how the facility will ensure compliance with the permitted effluent limitations.*

Response: As noted on the DMRs, we research all exceedances at the time they are discovered to investigate the cause. We have noted when we do not know the exact cause and operational issues (such as aeration levels) when we are aware of possible reasons. We resample when we are notified of the results early in the month. We will continue to monitor and report as required.

DEFICIENCY: Please refer to the attached appendix (Appendix D) for a more detailed list of the effluent exceedances found during the DMR review.

Corrective action: *Please submit documentation to the Department detailing how the facility will ensure compliance with the permitted effluent limitations. Specifically, please include documentation detailing how the facility will ensure they no longer exceed the TSS and Total Nitrogen, Nitrate limit.*

Response: As noted on the DMRs, we research all exceedances at the time they are discovered to investigate the cause. We have noted when we do not know the exact

cause and operational issues (such as aeration levels) when we are aware of possible causes. We resample when we are notified of the results early in the month. We will continue to monitor and report as required.

BIOSOLIDS

DEFICIENCY: A review of the DMRs from August 1, 2019 to July 31, 2022 revealed that the facility has not recorded any biosolids (landfilled or transferred) onto DMR Part A for the monitoring group RMP-Q.

Corrective action: *Please submit documentation to the Department detailing why the facility has not hauled in over 35 months or provide documentation including any hauling records. If the facility has hauled in the last five (5) years, please re-submit the DMRs to reflect this.*

Response: As discussed in the January 12, 2023 warning letter call, solids are hauled off the island on an as-needed basis. As solids are scraped out of the drying bed, they are stored, bagged and placed in a dumpster. Due to the high cost of removing a partial dumpster, the solids are stored until it is cost efficient to haul the material off the island.

Please see attached SOP.

GROUNDWATER

DEFICIENCY: Please see the attached appendix (Appendix E) for a more detailed list of groundwater exceedances found during the DMR review.

Corrective action*: Please submit documentation to the Department detailing how the facility will ensure all permitted limitations are met.*

Response: In our discussions of January 12, 2023, your staff noted concerns about the exceedences, background levels in the groundwater wells, and their current locations.

The facility has been in contact with an engineer for the purpose of examining the current groundwater monitoring plan as well as evaluating all site information. Due to the need to fully analyze all available data, we currently do not know the timeline for completion.
Once final, we will provide the department with the report and any proposed recommendations to the permit and/or the monitoring plans.
We will coordinate with your office regarding any permitting modifications as needed.

DEFICIENCY: Please see the attached appendix (Appendix E) for a more detailed list of groundwater exceedances found during the DMR review.

Corrective action: *Please submit documentation to the Department detailing how the facility will ensure all permitted limitations are met.*

Response: See above response.

DEFICIENCY: A review of the Purging Log and Chain of Custody (COC) for the groundwater samples collected on February 15, 2022 did not include the following information: Sample flow rate in the appropriate units (mL/min), unique ID for sampling equipment; and expiration date of preservative(s) used. Additionally, the well screened interval and total depth were the same.

Corrective action: *Please submit documentation to the Department detailing how the facility will ensure all sampling events meet DEP SOPs.*

Response: We discussed the above concerns with the contract laboratory that performs the sample collection and analysis for us. We believe that all pertinent information is included on the COC.

We have attached the DEP approved COC form with areas highlighting the required information and notes regarding our interpretation of the requirements/requested information.

Our understanding is that flow rates are not required for all sampling events; the flow rate should be changed only if it is required for a sample specific reason (i.e. VOC samples). In addition, we have attached a letter from the accredited lab referencing well screen and total well depth for your review.

We would be happy to further discuss this violation considering the above information.

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

April 26, 2022

Useppa Utilities
PO Box 640
Bokeelia, FL 33922
TEL: 1-239-283-6078
FAX:

RE: Useppa Daily WW Order No.: 2204070

Dear :

Sanders Laboratories, Inc received 8 sample(s) on 4/4/2022 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of $50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
SL 001= Nokomis Certificate # E84380 1050 Endeavor Court Nokomis Fl 34275. SL002= Fort Myers Certificate # E85457 10090 Bavaria Road Fort Myers Fl 33913

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: **2204070**
Date: **4/26/2022**

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value. Lab QC not in range.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: Too many colonies were present for accurate counting.

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2204070**

Date Reported: **4/26/2022**

CLIENT: Useppa Utilities
Project: Useppa Daily WW

Lab Order: 2204070

Lab ID: 2204070-001 **Collection Date:** 4/5/2022 8:30:00 AM
Client Sample ID: EFF **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS				**A2540D**			Analyst: **SG** Labcode **SL002**
Residue, Suspended Solids	ND	0.6	0.6		mg/L	1	04/05/2022 13:35

Lab ID: 2204070-002 **Collection Date:** 4/5/2022 8:30:00 AM
Client Sample ID: EFF **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM				**A9222D**			Analyst: **KS** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00		CFU/100ml	1	04/05/2022 13:01

Lab ID: 2204070-003 **Collection Date:** 4/6/2022 8:15:00 AM
Client Sample ID: INF **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
CARBONACEOUS BIOLOGICAL OXYGEN DEMAND				**A5210B**			Analyst: **GC** Labcode **SL001**
Carbonaceous BOD-5	106	2	2		mg/L	1	04/07/2022 11:05
TOTAL SUSPENDED SOLIDS				**A2540D**			Analyst: **SG** Labcode **SL002**
Residue, Suspended Solids	146	0.6	0.6		mg/L	1	04/06/2022 13:20

Qualifiers:

C	Value is below Minimum Compound Limit.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	PL	Permit Limit
Q	Calculated Lab Limit greater than Client Requested limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2204070**

Date Reported: **4/26/2022**

CLIENT: Useppa Utilities **Lab Order:** 2204070
Project: Useppa Daily WW

Lab ID: 2204070-004 **Collection Date:** 4/6/2022 8:19:00 AM
Client Sample ID: EFF **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRITE					**E353.2**		Analyst: **PS** Labcode **SL001**
Nitrogen, Nitrite	ND	0.0100	0.0400		mg/L	1	04/06/2022 17:14
NITROGEN, NITRATE + NITRITE					**E353.2**		Analyst: **GC** Labcode **SL001**
Nitrogen, Nitrate	11.0	0.01	0.04		mg/L	1	04/11/2022 14:35
CARBONACEOUS BIOLOGICAL OXYGEN DEMAND					**A5210B**		Analyst: **GC** Labcode **SL001**
Carbonaceous BOD-5	2	2	2		mg/L	1	04/07/2022 11:05
TOTAL SUSPENDED SOLIDS					**A2540D**		Analyst: **SG** Labcode **SL002**
Residue, Suspended Solids	1.6	0.6	0.6		mg/L	1	04/06/2022 17:13

Lab ID: 2204070-005 **Collection Date:** 4/6/2022 8:28:00 AM
Client Sample ID: EFF **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM					**A9222D**		Analyst: **MJ** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00		CFU/100ml	1	04/06/2022 12:57

Lab ID: 2204070-006 **Collection Date:** 4/6/2022 8:10:00 AM
Client Sample ID: LAST AIR BAY MLSS **Matrix:** WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS					**A2540D**		Analyst: **SG** Labcode **SL002**
Residue, Suspended Solids	5,550	0.6	0.6		mg/L	1	04/06/2022 13:20

Qualifiers:

C	Value is below Minimum Compound Limit.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	PL	Permit Limit
Q	Calculated Lab Limit greater than Client Requested limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2204070**

Date Reported: **4/26/2022**

CLIENT: Useppa Utilities
Project: Useppa Daily WW

Lab Order: 2204070

Lab ID: 2204070-007
Client Sample ID: EFF

Collection Date: 4/7/2022 8:30:00 AM
Matrix: WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM				**A9222D**			Analyst: **KS** Labcode **SL002**
Coliform, Fecal	ND	1.00	1.00		CFU/100ml	1	04/07/2022 12:00

Lab ID: 2204070-008
Client Sample ID: Effluent

Collection Date: 4/7/2022 8:30:00 AM
Matrix: WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS				**A2540D**			Analyst: **MM** Labcode **SL002**
Residue, Suspended Solids	ND	0.6	0.6		mg/L	1	04/11/2022 11:39

Qualifiers:				
	C	Value is below Minimum Compound Limit.	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	PL	Permit Limit
	Q	Calculated Lab Limit greater than Client Requested limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	U	Samples with CalcVal < MDL

Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 2204 070

Client: USEPPA
Address:
Phone:
Fax:

Email:
Report To:
Bill to:
P.O. #:

Project Name: 3X WEEKLY
Project Location:
Permit #:
Kit #: 5340
Requested Due Date:

Preservative: HCL = H, HNO_3= N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Sampled By (PRINT)
Sampler Signature

Matrix	Sample Description	Sample Date	Sample Time	Sample Type	Preservatives pH	Preservatives Ice	Preservatives ST	TSS	FC FM	Sample ID # (Lab Use Only)
WW	EFF	5-Apr	8:30			X		X		1A
	EFF	5-Apr	8:30			X	X		X	2A

Analysis Requested

Bottle Lot #	Chem ID	Exp Date	Comments	
				Okay to Run As Is... Client Initial:
			Temp °C ↓	Samples On Ice
			4.6	(Yes) No

Relinquished By/Affiliation	Date	Time	Accepted By/Affiliation	Date	Time
	4/5	1130		4/5	1130

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

1050 Endeavor Ct, Nokomis, FL 34275-3623 (941) 488-8103 fax(941) 484-6774 10090 Bavaria Rd., Fort Myers, FL 33913 (239) 590-0337 fax (239) 590-0536

om

Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 2204070

Report To: US Water
Email: jschmidt@uswatercorp.net
Bill to:
P.O. #

Project Name: Useppa Utility Company
Project Location: Useppa WWTP
Customer Type: Wastewater
Kit #: FLA# 01449 45340
Requested Due Date:

Client: Useppa Utilities Company
Address: P.O. Box 640, Boketia, FL 33922
Phone: 239-209-7343
Fax: N/A

Preservative: HCL = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Sampled By (PRINT): W. Edwards (US water)
Sampler Signature: W. Edwards

Matrix	Sample Description	Sample Date	Sample Time	Sample Type	Preservatives pH	Preservatives Ice	Analysis Requested TSS/CBOD	TSS	CBOD	NO_2+NO_3 fecal	MLSS	Sample ID # (Lab Use Only)
WW	Influent-01 TSS/CBOD	04-06-22	0815	G		X	X					3A
WW	Effluent-01 TSS	04-06-22	0819	G		X		X				4A
WW	Effluent-01 CBOD	04-06-22	0819	G		X			X			3B
WW	Effluent-01 NO_2, NO_3	04-06-22	0825	G		X				X		4C
WW	Effluent-01 fecal	04-06-22	0828	G		X					X	5A
WW	Last air bay MLSS	04-06-22	0810	G		X						6A

NO_3 = 4.16 mg/L

Bottle Lot #	Okay to Run As Is... Client Initial:	Relinquished By/Affiliation	Date	Time	Accepted By/Affiliation	Date	Time
	MP	W. Edwards	04-06-22	1000		4/6	1100

Samples On Ice: Yes / No
4.3

Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 2204 070

Client: Useppa Utilities
Address: P.O. Box 640
Bokeelia FL 33922
Phone: 239-209-7343
Fax:

Email: jschmidt@uswatercorp.net
Report To: U.S. Water
Bill to:
P.O. #
Preservative: HCL = H, HNO_3= N, $Na_2S_2O_3$ = ST
H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: Useppa Island Utilities
Project Location: WWTP FLA# 014494
Customer Type: 3x/Week
Kit #: 5340
Requested Due Date:

Sampled By (PRINT): W. Edwards (US water)
Sampler Signature: W. Edwards

Matrix	Sample Description	Sample Date	Sample Time	Sample Type	Preservatives pH	Preservatives Ice	Preservatives S	Analysis Requested: Fecal Coliform	Analysis Requested: TSS	Sample ID # (Lab Use Only)
WW	EFF-01	04-07-22	0830	G		X	X	X		7A
WW	EFF-01	04-07-22	0830	G		X			X	8A

Bottle Lot #	Relinquished By/Affiliation	Date	Time	Accepted By/Affiliation	Date	Time
	W. Edwards U.S. Water	04-07-22	0900		4/7	1130
			1130			

Okay to Run As Is
Client Initial: MP
Samples On Ice: Yes / No
7.9°

Analyses will be ran by the test method on our scope. Our scope can be found https://sanderslabs.net/nelap-doh-accreditation. Methods not on scope will be subcontracted to Pace Analytical or other approved vendor.

1050 Endeavor Ct, Nokomis, FL 34275-3623 (941) 488-8103 fax(941) 484-6774 10090 Bavaria Rd, Fort Myers, FL 33913 (239) 590-0927 fax (239) 590-0586

Sanders Laboratories, Inc.
Environmental & Food Analyses

1/23/2023

To Whom It May Concern:

RE:NO2/NO3/NOX

It has come to attention that the way we preserve NO2/NO3 is no longer accepted by state so we will be converting to two bottles for all NO3 analyses so we can have unpreserved NO2 and H2SO4 preserved bottle for the NOX. We have requested additional bottles for this transition from our container provider. This should alleviate future issue please allow some time to transition.

Regards,

Katie Strothman
Laboratory Director/ QCM
Sanders Laboratories, Inc.
10090 Bavaria Rd
Ft Myers, FL 33913
941-915-7447 C
239-590-0337 O

pH Calibration Log

Instrument Serial # _____ **Month / Year**_____ **Operator / License#** _____
Print name

4.00 s.u. Lot/Expiration _____ **7.00 s.u. Lot/Expiration**_____ **10.00 s.u. Lot/Expiration** _____

Date	Time	Standard 7.00 s.u.		Standard 4.00 s.u.		Standard 10.00 s.u.		Post calibration using 7.00 s.u. buffer must be within		Operator
		Initial	Final	Initial	Final	Initial	Final	6.8 to 7.2 s.u. range to pass	Pass or Fail	Initials
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
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27										
28										
29										
30										
31										

Maintenance / Cleaning activities (&date):_____

Corrective actions taken (&date):_____

Chlorine Verification Log

Operator/license#_____
print name

Standards Lot No:_____ Month/Year:_____

Expiration Date:_____ Instrument Serial No:_____

		Blank	Standard 1	Standard 2	Standard 3	Operator
	from gel stds	mg/L	+/- mg/L	+/- mg/L	+/- mg/L	Initials
Date	Time	0.00 mg/L	mg/L	mg/L	mg/L	
1						
2						
3						
4						
5						
6						
7						
8						
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10						
11						
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31						

Maintenance / Cleaning activities (& date):_____

Corrective actions taken (& date):_____

Useppa Island Utilities standard Operating Protocol (SOP) for biosolids reporting

This SOP is to provide all information and direction to the Island, operational staff as well reporting requirements for biosolids reporting. The Island does not have regular biosolids hauling, but instead utilize a drying bed process for the removal of all biosolids from the facility. The Island does not haul on a regular schedule and only will transfer solids off the island every few years. This document is designed to provide all personnel involved in the biosolids removal and reporting process.

1. During normal operation the facility is wasted to either 2 of the 3 digesters located at the facility. Normal wasting occurs based off plant conditions into one of these 2 digesters.
2. Once one of the 2 digesters is full then a decant process will start. The operator will turn off all the air to the digester that is to be decanted for at least 24 hours. Once all the solids have settled then the operator will start the process of decanting.
3. In order to decant the operator will lower the submersible pump into the digester to pump off the supernate to the surge tanks to be re-processed through the plant.
4. After the supernate has been removed the operator will turn on the air to the digester for at least 2 days.
5. After the digester has been aired back up it is not time to start the transfer process.
6. The operator will now transfer the thickened sludge from the digester to the thickening/wasting digester.
7. The operator will again put in a submersible pump in order to transfer the thickened sludge to the 3rd and final digester.
8. The operator will run air through this digester for at least 48 hours to ensure there is a good mix throughout. Once this is done the operator will shut off the air for 24 hours.
9. The operator will now observe the digester and remove any supernate that may be present to ensure the sludge will be thickened.
10. Once this is done the operator will turn the drying bed valve on and the plug in the pump to operate the transfer pump to send the sludge to the drying bed.
11. The operator will maintain a close watch and only fill the drying bed to half volume.
12. Once sludge has been transferred the operator will turn off the transfer pump as well as close the transfer valve.
13. After the sludge has been applied to the drying the operator will monitor and observe the process for about 1 week to ensure the sludge is draining and starting the drying process.

14. Once the operator has observed proper drying he/she will then place fans arouns the bed to help in the drying process. The operator will also periodically move the sludge around in the bed to ensure proper drying.
15. Once the sludge has been properly dried out it is time for transfer to the waste/transfer bags.
16. The operator will then shovel the dried sludge to the appropriate bags. The operator will make not of approximately how much of the bag has been filled and note in the log book as well as the log sheet for the wastewater facility.
17. This process can take up to a month or more depending on the seasons.
18. Once a full transfer bag is full the operator will also not this in the log as well as the log sheet for the facility.
19. The operator will remain in contact wil Island personnel about the status of the transfer bags and the quanity of solids that are on site.
20. Once there are enough bags to fill a container provided by the disposal company the operator will then contact the lab for appropriate sample containers for disposal.
21. The operator will request a metals kit and then once the samples have been collected and reported he/she will then send to the hauling company.
22. Once this is done the Island personnel will then schedule the container to transfer the solids by barge. They will load said container and then transfer back to the mainland for removal and landfill disposal.
23. The operator will also send a copy of the 503 metals test to the main office. This test will also include a dry solids percentage that they will then use to calculate the solids removed from the plant
24. The main office will make not of the dry solids on that months DMR report and then also make a note stating that the previous time frame hauled sludge will be added to the previous DMR's repots as an average for the previous timeframe since the last time sludge was hauled.

This is an SOP that was designed to aid in the reporting complications that have arisen from hauling sludge/dry solids from the island. Hopefully this will provide clarification for all personnel involved and will be edited/updated as needed based off of the evaluation of the process.

Sanders Laboratories, Inc.
Environmental & Food Analyses

1/26/2023

To Whom It May Concern:

RE: Useppa GW Logs 2202530

The well screen is not very applicable since it is not provided on permit and this is a superficial well and it is not part of the purge calculation or purge requirements. Our field technician was writing Total Well depth in both sections. I have spoken to them about leaving blank if it is not known from now on. Sanders Labs already follows the required procedure in FS2200 Page 8 section 2.3

1. Stabilization Measurement Frequency

1.1 Begin to record stabilization measurements after pumping the minimum volume as prescribed in options 2.3 – 2.5 below. Every attempt must be made to match the pumping rate with the recharge rate of the well before evaluating the purging criteria.

1.2 If the well screened interval is not known, use option 2.3, below.

1.3 Wells with Fully Submerged Screen and Pump or Intake Tubing Placed at the Top of the Water Column (conventional purge): Purge until the water level has stabilized (well recovery rate equals the purge rate), then purge a minimum of one (1) well volume prior to collecting measurements of the stabilization parameters. Allow at least one quarter (1/4) well volume to purge between subsequent measurements.

Therefore, we will stop writing any values in that section- but procedure for unknown well screen is already being followed therefore no data was affected.

Regards,

Katie Strothman
Laboratory Director/ QCM
Sanders Laboratories, Inc.
10090 Bavaria Rd
Ft Myers, FL 33913
941-915-7447 C

239-590-0337 O

FS 1006 *Preservation, Holding Times and Container Types*

1. Preserve all samples according to the requirements specified in Tables FS 1000-4 through FS 1000-11.

1.1. The information listed in the above-referenced tables supersedes any preservation techniques, holding time or container type that might be discussed in individual analytical methods.

1.2. If samples are collected only for total phosphorus and are not for NPDES compliance, thermal preservation (ice) is not required if the sample containers are pre-preserved with acid.

2. The preservation procedures in the referenced tables specify immediate preservation. "Immediate" is defined as "within 15 minutes of sample collection." Perform all preservation on-site (in the field).

2.1. Preservation is not required if samples can be transported back to the laboratory within 15 minutes of collecting the sample and

2.1.1. The laboratory begins sample analysis within the 15-minute window and documents the exact time the analysis began, or

2.1.2. The laboratory adds the appropriate preservatives (including thermal preservation) within 15 minutes of sample collection and documents the exact time that the preservation was done.

3. PRESERVING COMPOSITE WATER SAMPLES

3.1. If the sample preservation requires thermal preservation (e.g., <6°C), the samples must be cooled to the specified temperature.

3.1.1. Manually collected samples to be composited must be refrigerated at a temperature equal to or less than the required temperature.

3.1.2. Automatic samplers must be able to maintain the required temperature by packed ice or refrigeration.

3.2. When chemical preservation is also required, begin the preservation process within 15 minutes of the last collected sample.

3.3. Holding Times for Automatic Samplers:

3.3.1. If the collection period is 24 hours or less, the holding time begins at the last scheduled sample collection;

3.3.2. If the collection period exceeds 24 hours, the holding time begins with the time that the first sample is collected.

4. PH ADJUSTED PRESERVATION - Check the pH of pH-adjusted samples according to these frequencies:

4.1. During the first sampling event at a particular site, check **all** samples (e.g. each groundwater monitoring well, surface water location, or influent/effluent sampling location) that are pH-adjusted except volatile organics.

4.2. During subsequent visits to a particular site, check **at least one** sample per parameter group that must be pH-adjusted.

4.2.1. If samples are routinely collected from the same sample location, a pH check is not required each time samples are collected. If the frequency of sample collection at a specified location is greater than once per month (i.e., weekly or daily), check the pH of **at least one sample** per parameter group (except volatile organics) according to the following schedule:

4.2.1.1. Weekly sampling: 1 pH check per month

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Table FS 1000-4
40 CFR Part 136 TABLE II: Required Containers, Preservation Techniques, and Holding Times*
Applicable to **all** Non-Potable Water Samples (includes wastewater, surface water, and groundwater)

Test	Parameter No./Name (refers to parameter number on Tables IA,B, C, D,E, F, G & H as noted)	Container[1]	Preservation[2, 3]	Maximum holding time[4]
Table IB Metals[7]	3, 5–8, 12, 13, 19, 20, 22, 26, 29, 30, 32–34, 36, 37, 45, 47, 51, 52, 58–60, 62, 63, 70–72, 74, 75. Metals, except boron, chromium VI, and mercury.	P, FP, G	HNO_3 to pH<2, or at least 24 hours prior to analysis[19]	6 months
Table IB Inorganic	38. Nitrate	P, FP, G	Cool, ≤6 °C[18]	48 hours
Table IB Inorganic	39. Nitrate-nitrite	P, FP, G	Cool, ≤6 °C[18], H_2SO_4 to pH<2	28 days
Table IB Inorganic	40. Nitrite	P, FP, G	Cool, ≤6 °C[18]	48 hours
Table IB Inorganic	41. Oil and grease	G	Cool, ≤6 °C[18], HCl or H2SO4 to pH<2	28 days
Table IB Inorganic	42. Organic Carbon	P, FP, G	Cool, ≤6 °C[18]HCl, H_2SO_4, or H_3PO_4 to pH<2.	28 days
Table IB Inorganic	44. Orthophosphate	P, FP, G	Cool, ≤6 °C[18], [24]	Filter within 15 minutes; Analyze within 48 hours
Table IB Inorganic	46. Oxygen, Dissolved Probe	G, Bottle and top	None required	Analyze within 15 minutes
Table IB Inorganic	47. Winkler	G, Bottle and top	Fix on site and store in dark	8 hours
Table IB Inorganic	48. Phenols	G	Cool, ≤6 °C[18], H_2SO_4 to pH<2	28 days
Table IB Inorganic	49. Phosphorous (elemental)	G	Cool, ≤6 °C[18]	48 hours
Table IB Inorganic	50. Phosphorous, total	P, FP, G	Cool, ≤6 °C[18], H_2SO_4 to pH<2	28 days
Table IB Inorganic	53. Residue, total	P, FP, G	Cool, ≤6 °C[18]	7 days
Table IB Inorganic	54. Residue, Filterable	P, FP, G	Cool, ≤6 °C[18]	7 days
Table IB Inorganic	55. Residue, Nonfilterable (TSS)	P, FP, G	Cool, ≤6 °C[18]	7 days
Table IB Inorganic	56. Residue, Settleable	P, FP, G	Cool, ≤6 °C[18]	48 hours
Table IB Inorganic	57. Residue, Volatile	P, FP, G	Cool, ≤6 °C[18]	7 days
Table IB Inorganic	61. Silica	P or Quartz	Cool, ≤6 °C[18]	28 days
Table IB Inorganic	64. Specific conductance	P, FP, G	Cool, ≤6 °C[18]	28 days
Table IB Inorganic	65. Sulfate	P, FP, G	Cool, ≤6 °C[18]	28 days
Table IB Inorganic	66. Sulfide	P, FP, G	Cool, ≤6 °C[18], add zinc acetate plus sodium hydroxide to pH>9	7 days
Table IB Inorganic	67. Sulfite	P, FP, G	None required	Analyze within 15 minutes

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* COMMON ON ALL DEP APPROVED FORMS SUBMITTED BY ACCREDITED LABS ON YOUR FORM ALL INFO IS CLEARLY LISTED *

DEP-SOP-001/01

Sanders Laboratories

DEP Form FD 9000-24: SAMPLING LOG

ACTUAL LEVELS - STATIC LEVELS

SITE NAME: Uspoa	SITE LOCATION: OTH NW		
WELL NO: MWI-52184/MW-3	SAMPLE ID:	DATE: 12/22/22	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4in-TB 3/8OD	WELL SCREEN INTERVAL DEPTH: 7 feet 20 feet	STATIC DEPTH TO WATER (feet): 4.50	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (7.90 feet – 4.50 feet) X 0.16 gallons/foot = 0.54 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

THESE SHOULD NOT CHANGE SHOWS PROPER WELL RECHARGE WHILE PURGING

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6½	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6½	PURGING INITIATED AT: 09:53	PURGING ENDED AT: 10:01	TOTAL VOLUME PURGED (gallons): 4

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH EPA 150.1 (standard units)	TEMP. EPA 170.1 (°C)	COND. EPA 120.1 (circle units) µmhos/cm or SAL ppt	DISSOLVED OXYGEN EPA 360.1 mg/L	TURBIDITY EPA 180.1 (NTUs)	COLOR (describe)	ODOR (describe)
Equipment Serial Numbers				6602	13E10301 5	13E10301 5	13E103015	13E103015	20012585		
					DUP		Blank:		Blank:		
							Dup:		Dup:		
09:55	1.00	1.00	½gpm	4.90	7.45	24.5	1,782	3.16	8.33	clear	sulfur
09:57	"	2.00	"	"	7.38	24.6	1,721	2.26	7.87	"	"
09:59	"	3.00	"	5.00	7.35	24.5	1,718	2.31	5.59	"	"
10:01	"	4.00	"	5.00	7.36	24.5	1,719	2.35	5.46	"	"

ALL NUMBERS FOR EQUIP

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; (4" = 0.0026); 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Govanus	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:01	SAMPLING ENDED AT: 10:05
PUMP OR TUBING DEPTH IN WELL (feet): 6½	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y N X Filtration Equipment Type:	FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP Y X N	TUBING Y N X (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
[illegible]06	3	HDPE	250ml	Ice			TDS, Cl, SO4, NO3	APP	Less than purge rate
[illegible]06	1	"	1	HNO3	added 0.5ml	<2	As, Cd, Cr, Pb		
MWC	1	PP	100ml	THIO			FC		

NOT REQUIRED TO CHANGE UNLESS SPECIFIC SAMPLE

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Peristaltic Pump Geotach S/N: 5105 Submersible Pump S/N: 002917 Chlorine Meter Hach: S/N: 1808E364895

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEPT. CAN DO CONVERSION

AGAIN NOT REQUIRED

Sanders Laboratories Inc, South
10090 Bavaria Rd
Fort Myers, Fl
FDOH #E85457

NELAP ACCREDITED TNI LABORATORY

DEP Form FD 9000-24

Form #: FF/04 Approved by: KS 7/11/2018

HNO3 #13766/51184 X 12/8/23

EXP DATES / LOT'S

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INTEROFFICE MEMORANDUM **South District**

To: File

Through: Louise Chang, Environmental Manager

From: Nicole Devine, CAP Inspector

Date: February 7, 2023

Subject: Useppa Island WWTP
Facility ID No.: FLA014494
WL Meeting Notes

Date of Meeting: January 12, 2023

In Attendance: Nicole Devine (DEP); Gabriele Starrach (DEP); Robert Reid (DEP); Louise Chang (DEP) Lucy Blair (DEP); Deanna Newburg (DEP)l Gary Maier (DEP); Melisa Rotteveel (US Water); Jonathan Schmidt (US Water); Selina Makofsky (US Water); William Edwards (US Water); William Days (Useppa) Joe Tell (Useppa)

A compliance meeting was held with Useppa Island WWTP on January 12, 2023, based on the Compliance Evaluation Inspection that found the facility to be out of compliance. The non-compliance issues documented in the inspection report were addressed during the meeting.

A formal response relative to the meeting was due January 26, 2023. Corrective Actions taken by Useppa Island WWTP since the June 24, 2022, inspection, and January 12, 2023 WL Meeting are listed below and include notes from the meeting and the Department's response.

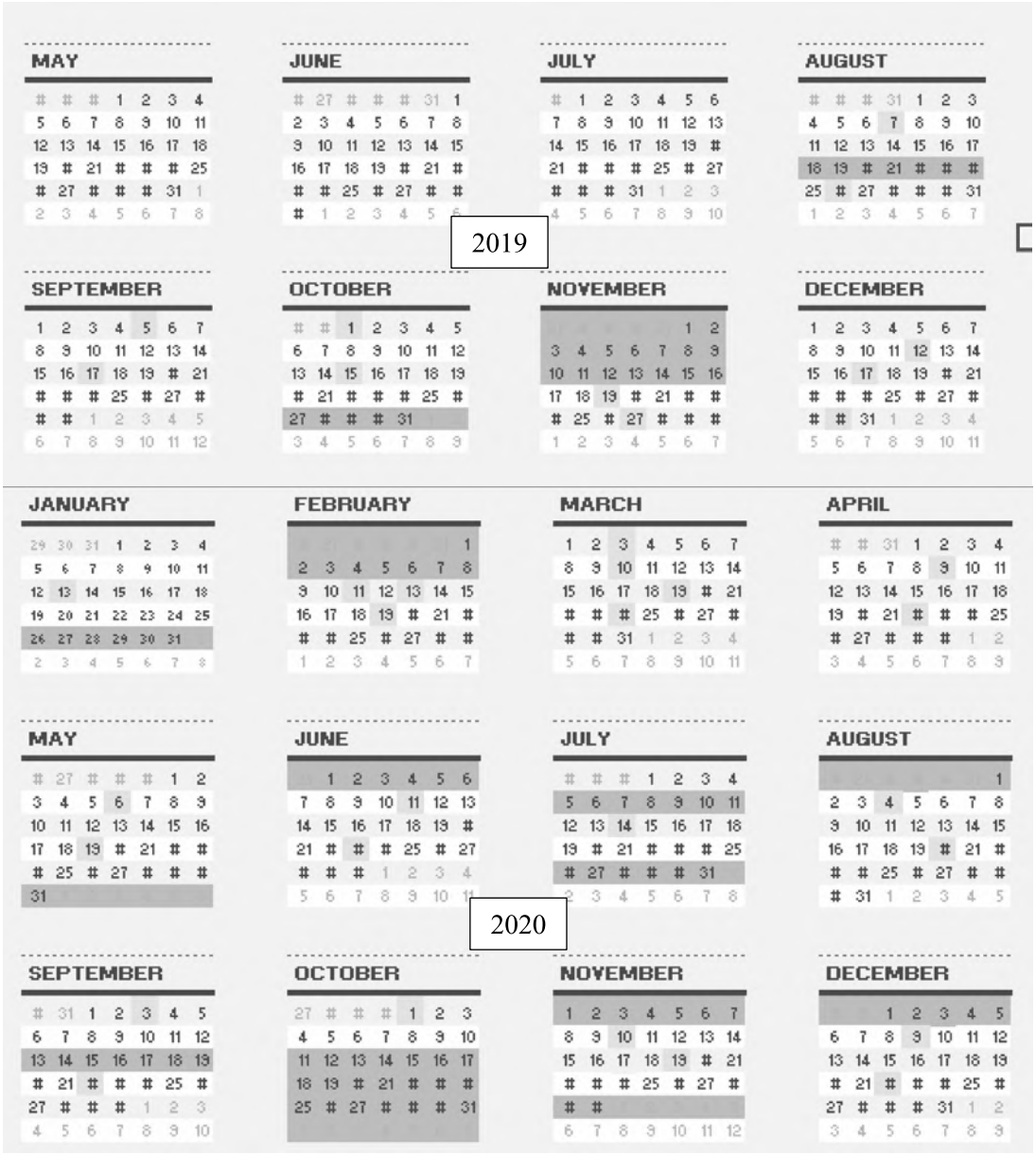
- **The Laboratory Report had a sample location transcribed incorrectly**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which included documentation describing and correcting the mislabeled sample location. No further action required at this time.

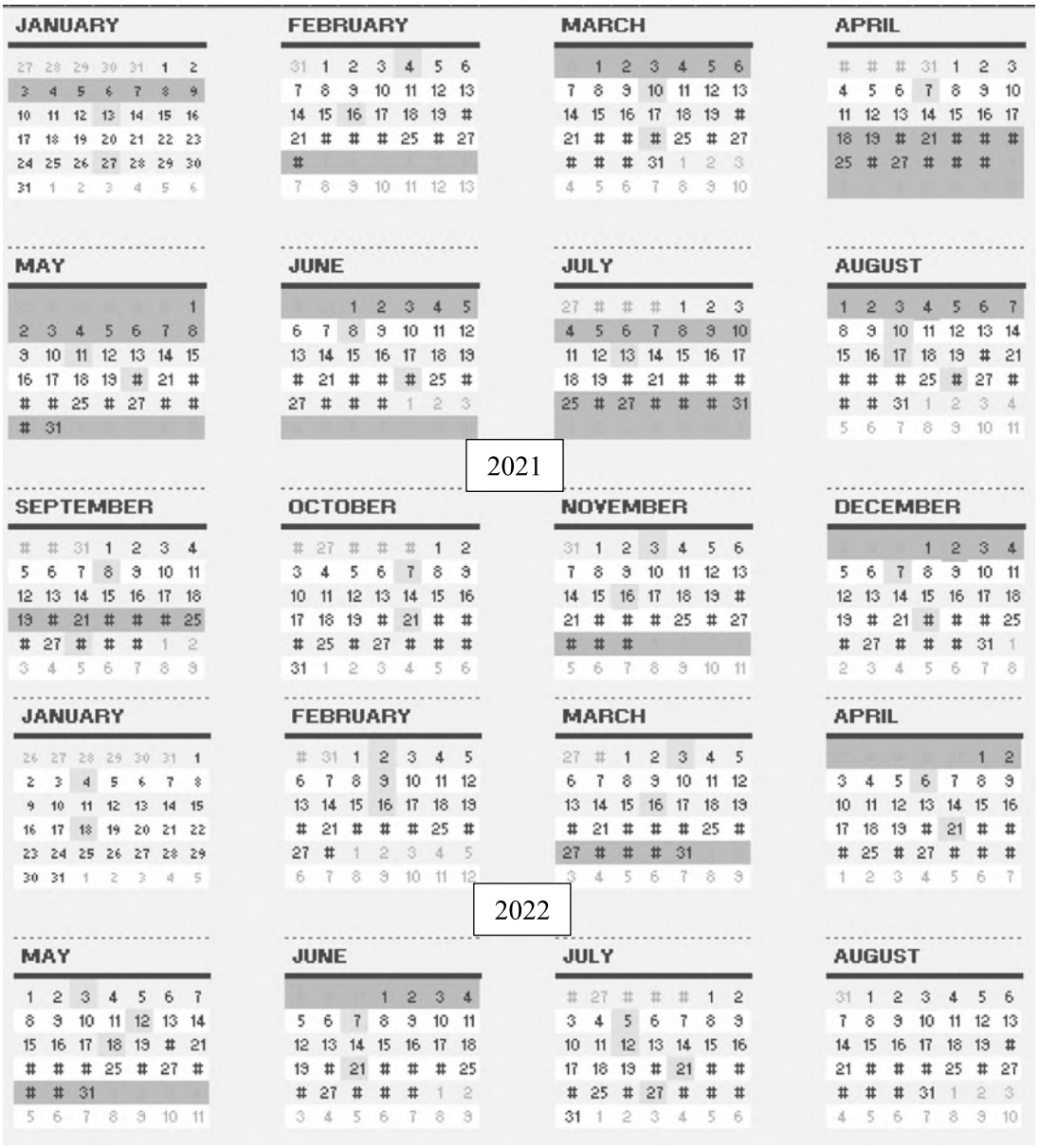
- **The Calibration/Verification Log(s) for the chlorine meter was not complete**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which included an updated Calibration/Verification Log. However, the Calibration/Verification Log for the chlorine meter does not include indication of whether calibrations/verifications passed and/or failed.

  Please submit an updated Calibration/Verification Log for the chlorine meter to include indication of whether calibrations/verifications passed and/or failed.

Attachment 4-1
Communication Date 01/12/23

- **The facility did not sample in accordance with the frequency outlined in their permit**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which included additional information on the missed CBOD, TSS, and Oil and Grease samples. Additionally, the facility requested clarification on the determination of the violation concerning the sampling frequency for Total Nitrogen, Nitrate. Please see the table below for more details on the occurrences that the facility did not sample in accordance with the frequency outlined in their permit for Total Nitrogen, Nitrate. The yellow highlighted dates are the day(s) the facility reports a Total Nitrogen, Nitrate sample was taken in accordance with what was reported on DMR Part B. The orange highlighted dates are days where a subsequent sample should have been taken based off the sample frequency outlined in the permit.





Please submit documentation to the Department detailing how the facility will ensure that Total Nitrogen, Nitrate samples are collected in accordance with the frequency outlined in the permit.

- **The facility's Chain of Custody was incomplete**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which included documentation detailing the steps the facility will take to ensure that all required information is on and/or linked to the Chain of Custody. Additionally, the contract laboratory provided documentation detailing that from this point forward they will have two bottles for Nitrate/Nitrate/Nitrate-Nitrite sampling to ensure proper preservation of Nitrate-Nitrite samples, while keeping the individual Nitrate and/or Nitrite sample unpreserved in accordance with DEP SOP FS Table 1000-4. The facility requested clarification on the preservation requirements for Nitrate-Nitrite samples. Please see the information below.

In accordance with DEP SOP FS Table 1000-4, Nitrate-Nitrite samples must be preserved with H_2SO_4 and placed on ice within 15 minutes of sample collection (FS 1006.2). These samples then can be run within 28 days. If the sample is collected and transported to the laboratory within 15 minutes, then preservation is not required. However, based off the facility's COC(s) this would be impossible, therefore the samples must be preserved properly. Individual Nitrate or Nitrite samples only require ice as a preservative and be run within 48 hours. If further clarification is needed on this topic, please contact the Department to schedule a meeting. No further action is required at this time.

- **The DMRs have multiple transcription errors**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which included the re-submitted DMRs. Please see the table below for the remaining DMR transcription and/or calculation error(s) found during the review.

Monitoring Period	R-001 DMR Deficiencies
OCT-21	-pH EFF-01 (PARM Code 00400 1) maximum value transcribed incorrectly from DMR Part B
SEP-21	-TSS EFF-01 (PARM Code 00530 1) maximum value recorded incorrectly from DMR Part B – DMR Part B reports "1.20 mg/L" on 9/28/2021 while DMR Part A reports a maximum of "0.80 mg/L"

Please re-submit the DMRs noted above to the Department with all corrections made. If there are any questions on the errors noted above, please contact the Department to schedule a meeting.

- **The facility submitted DMR Part B with an incorrect monitoring period**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which included re-submitted DMR Part B(s). No further action required at this time.

- **At the time of the inspection, the exterior tank wall of the surge tank had exposed rebar**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which included photos showing that the exterior wall of the surge tank has been repaired. No further action required at this time.

- **The facility had multiple effluent exceedances**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which referenced the comments made on DMR Part A when there was an exceedance. The facility plans to continue to monitor the effluent and make adjustments as needed. No further action required at this time.

- **At the time of the inspection, it was unclear if the facility maintained records of their biosolids hauling slips**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which included the facility's SOP on biosolids hauling procedures. Department personnel are reviewing this document and will reach out with any comments and/or questions if needed. No further action is required at this time.

- **The facility has multiple groundwater exceedances**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which included a tentative plan of action to address these exceedances. At the time of the response

submittal, the facility was not sure of a timeline to complete this task but had begun discussions with an engineer to start researching the potential causes of the exceedances and the effectiveness of the current groundwater monitoring plan. If appropriate the facility plans to submit a permit modification for the groundwater monitoring plan.

Please submit an estimated timeline to the Department to correct this deficiency, or a more detailed plan of action, with tentative dates, to address this deficiency.

- **The Purging Log and Groundwater Chain of Custody was incomplete**
  The facility has since submitted the formal WL Response to the Department on 1/26/2023, which includes a request for clarification on the purging log requirements. Department personnel are reviewing the provided documents and questions and will reach out with any comments, questions, or guidance.

Formal WL Response:
https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1163197.1]&[profile=Enforcement_Legal]

FLORIDA DEPARTMENT OF
Environmental Protection

South District
Post Office Box 2549
Fort Myers, FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

October 31, 2022

Timothy Fitzsimmons, President
PO Box 640
Bokeelia, FL 33922
Email: tfitz5@comcast.net

Re: Warning Letter
Useppa Island WWTP
FLA014494
Lee County – DW

Dear Mr. Fitzsimmons:

A Compliance Evaluation Inspection and a Sanitary Sewer Overflow Preventative Inspection was conducted for your facility on June 24, 2022 under the authority of Section 403.061, Florida Statutes (F.S.). During these inspections, possible violations of Chapters 62-160, 62-520, 62-600, 62-620, and 62-640 of the Florida Administrative Code (F.A.C.), were observed.

During the inspections, Department personnel noted the following:

- The Laboratory Report had a sample location transcribed incorrectly.
- The Calibration/Verification Log for the Chlorine meter was not complete.
- The facility did not sample in accordance with the frequency outlined in their permit.
- The facility's Chain of Custody was incomplete.
- The DMRs have multiple transcription errors.
- The facility submitted DMR Part B with an incorrect monitoring period.
- At the time of the inspection, the exterior tank wall of the surge tank had exposed rebar.
- The facility has multiple effluent exceedances.
- At the time of the inspection, it was unclear if the facility-maintained records of their biosolids hauling slips.
- The facility has multiple groundwater exceedances.
- The Purging Log and Groundwater Chain of Custody was incomplete.

Attachment 4-1
Communication Date 10/31/22

Violations of Florida Statutes or administrative rules may result in liability for damages and restoration, and the judicial imposition of civil penalties, pursuant to Sections 403.121, Florida Statutes.

Since the inspection referenced above, Useppa Island was impacted significantly by Hurricane Ian, including the WWTP. It is the Department's understanding that representatives of the Useppa Island WWTP have been in contact with FRWA and DEP South District staff about the status of the WWTP. Please continue to reach out to the Department and/or FRWA for assistance in recovery as needed.

Please contact Nicole Devine, at (239) 344-5675, within **15 days** of receipt of this Warning Letter to arrange a meeting to discuss this matter. The Department is interested in receiving any facts you may have that will assist in determining whether any violations have occurred. Any document submittals can be made to our email mailbox at SD-WWinspect@FloridaDEP.gov or may be mailed to the above address. You may bring anyone with you to the meeting that you feel could help resolve this matter.

Please be advised that this Warning Letter is part of an agency investigation, preliminary to agency action in accordance with Section 120.57(5), Florida Statutes. We look forward to your cooperation in completing the investigation and resolving this matter.

Sincerely,

Jennifer L. Carpenter
Acting Director of District Management
South District Office
Florida Department of Environmental Protection

Enclosure: Inspection Report

ec: JR Hiller, Service Director (via e-mail: jrhiller@useppa.com)
Jonathan Schmidt, US Water (via e-mail: jschmidt@uswatercorp.net)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

WASTEWATER COMPLIANCE INSPECTION REPORT

Facility Details

Facility Name	Useppa Island WWTP			**WAFR ID**	FLA014494		
Physical Address	NA			**City, State, Zip**	Bokeelia, FL 33922		
County	Lee			**Facility Phone #**	(239) 283-1061		
Permit Issued:	8/21/2020			**Permit Expiration:**	8/20/2025		
Facility Type	Domestic Wastewater			**Is the Facility NPDES (Y/N)**	No		
Latitude	**Degrees °**	26	**Minutes ‘**	39	**Seconds “**	43.6898	
Longitude	**Degrees °**	-82	**Minutes ‘**	12	**Seconds “**	43.7503	

Inspection Details

Inspection Type	**Entry Date**	**Exit Date**	
CEI	6/24/2022	6/24/2022	
	Entry Time (HH:MM AM/PM)	**Exit Time (HH:MM AM/PM)**	
SSOP	8:00 AM	11:00 AM	
Sampling Taken (Y/N) No	**RQ#** NA	**QA Conducted (Y/N)**	Yes
Name(s) and Title of Field Representatives(s)	**Operator Certification**	**Email**	**Phone Number**
Jonathan Schmidt William Edwards	NA Class C - 0023930	jschmidt@uswatercorp.net NA	(239) 209-7343
Name(s) and address of Permittee / Designated Rep.	**Title**	**Email**	**Phone Number**
Timothy Fitzsimmons PO Box 640 Bokeelia, Fl 33922	President	Tfitz5@comcast.net	(239) 283-1061

Inspector Information

Name(s) and Signature(s) of Inspectors(s)	**District Office/Phone Number**	**Date**
Nicole Devine *Nicole Devine*	SD / (239) 344-5675	9/14/2022
Name and Signature of Reviewer	**District Office/Phone Number**	**Date**
Deanna Newburg *Deanna Newburg*	SD / (239) 344-5677	10/23/2022

Facility Compliance Eval Areas

***IC** = In Compliance; **MC** = Minor Out of Compliance; **NC** = Out of Compliance; **SC** = Significant Out of Compliance; **NA** = Not Applicable; **NE** = Not Evaluated*

Significant Non-Compliance Criteria Should be Reviewed when Out of Compliance Ratings Are Given in Areas Marked by a “”*

Overall Compliance Determination	Significant Out of Compliance						
NC	*Permit	NC	Laboratory	NC	Facility Site Review	SC	*Effluent Quality
NA	*Compliance Schedules	SC	Sampling	IC	Flow Measurement	IC	*Effluent Disposal
SC	*Records & Reports	NC	Biosolids	IC	*Operation & Maintenance	SC	*Groundwater
IC	SSO Survey	NA	Other	NA	Nutrient Management Plan	NA	Access Control
NA	Site Restrictions & Setbacks	NA	Odor/Nuisance	NA	Site Monitoring	NA	MLPW Disposal
NA	Manure Solids						

Clear Report | **Hide/Unhide Placeholders** | **Generate Blank Rows (for field paper setup)** | **Generate Deficiency & Observation Rows** | **Finish Inspection Report Form**

Single Event Violations ("*" SNC SEVs)

Check for Yes	Evaluation Area	Description	Finding Description	Finding ID
☐	Permit	Effluent Violations - Unapproved Bypass	Wastewater was diverted from a portion of the treatment process without department approval.	UNBY
☐	*Permit	Permit Violations - Discharge Without a Valid Permit	The facility was operating without a permit or with an expired permit.	UPHI
☐	Permit	Permit Violations - Failure to Submit Timely Permit Renewal Application	The permittee failed to submit an application to renew the existing permit at least 180 days prior to expiration.	PFSA
☐	Laboratory	Management Practice Violations - Laboratory Not Certified	The laboratory was not certified by the National Environmental Laboratory Accreditation Conference (NELAC).	LNCE
☒	Sampling	Monitoring Violations - Analysis not Conducted	The facility failed to collect and/or analyze samples as required by permit or enforcement action.	ANCV
☐	Sampling	Monitoring Violations - Failure to Monitor for Toxicity Requirements	The facility failed to collect and/or analyze routine or follow-up toxicity samples.	FTOX
☐	Records and Reports	Management Practice Violations - Failure to Develop Adequate SPCC Plan	The facility failed to develop or maintain their Spill Prevention Control and Countermeasures (SPCC) plan.	FSPC
☐	Records and Reports	Management Practice Violations - Failure to Maintain Records	The facility failed to maintain records for the required retention period.	FMRR
☐	Records and Reports	Reporting Violations - Failure to Notify	The permittee failed to notify the department of any event or activity that requires notification as required by permit or rule.	RSWP
☒	Records and Reports	Reporting Violations - Failure to Submit DMRs	The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner.	FDMR
☐	Records and Reports	Reporting Violations - Failure to submit required report (non-DMR, non-pretreatment)	The facility failed to submit any report required by rule, permit, enforcement action or inspection activity except for DMRs.	FRPT
☐	Facility Site Review	Management Practice Violations - Improper Land Application (non-503, non-CAFO)	The land application system was not being maintained.	LASN
☐	Flow Measurement	Monitoring Violations - No Flow Measurement Device	The facility failed to install a flow measurement device, an approved flow measurement device, or a working flow measurement device.	NOFL
☐	Operation and Maintenance	Management Practice Violations - Improper Operation and Maintenance	The facility failed to follow their operation and maintenance plan/manual.	IONM
☐	Operation and Maintenance	Management Practice Violations - Inflow/Infiltration (I/I)	The facility had an inflow and infiltration problem causing collection system issues and/or operational issues.	ININ
☐	Operation and Maintenance	Management Practice Violations - No Licensed/Certified Operator	The facility was being operated without a certified operator or by an operator that is not licensed for the size of plant.	ONCO
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute toxicity has been documented through follow-up tests.	EATX
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent chronic toxicity has been documented through follow-up tests.	ECTX
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute or chronic toxicity has been documented in the effluent through the use of routine and follow-up tests.	ETOX
☐	Effluent Quality	Effluent Violations - Narrative Effluent Violation	The facility violated a permit or enforcement narrative effluent limit.	XNEV
☐	Effluent Quality	Effluent Violations - Reported Fish Kill	The facility had a discharge of wastewater that resulted in a fish kill.	XFSH
☐	Sanitary Sewer Overflow Survey	WW SSO - Discharge to Waters	A sewage spill from any components of a collection/transmission system or from a treatment plant reached surface waters including stormwater conveyance system or drainage ditch.	SSO1
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to Maintain Records or Meet Record Keeping Requirements	The facility failed to keep routine documentation and reporting records of spills, and/or operation and maintenance activities on the collection/transmission system.	SSO2
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to monitor	The facility failed to collect and/or analyze bacteriological samples for sewage spills that reached surface waters.	SSO3
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to report violation that may endanger public health 122.41(l)(7)	The facility failed to report a sewage spill within 24 hours of discovery.	SSO4
☐	Sanitary Sewer Overflow Survey	WW SSO - Improper Operation and Maintenance	The facility failed to perform routine preventative maintenance to keep the collection/transmission system in good working order.	SSO5
☐	Sanitary Sewer Overflow Survey	WW SSO - Overflow to Dry Land	A sewage spill from any part of a collection/transmission system or treatment plant that did not make it to surface waters, i.e., stormwater collection system, drainage ditch, stream, pond, or lake.	SSO6

Permit

Compliance Rating	Out of Compliance
Does this section apply to the facility?	(•) **Yes** ( ) **No**

Questions	
*Is the permit current?	**Yes**
Is a copy of the permit available onsite?	**Yes**
Is the facility operated in accordance with the permit?	**Yes**
*Was the facility constructed or modified with an appropriate or valid permit issued by the Department?	**Yes**
Has the facility submitted the permit renewal application 180 days prior to the expiration date?	**N/A**
If the permittee for the facility has changed did the department receive notification of this change?	**N/A**
If the permit is accompanied by a Consent Order or Administrative Order are, they abiding by the conditions of the order?	**N/A**
Is wastewater from a portion of the treatment process diverted with Department approval?	**N/A**
*Is the facility discharging to waters of the state with an appropriate FDEP permit?	**N/A**
*Was the facility free from unpermitted discharge, bypass, collection system, or residuals with a high potential for water quality or health impacts?	**Yes**
Is the facility free from any Permit violation not listed above that needs to be addressed?	**No**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "**"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:

Is the facility free from any Permit violation not listed above that needs to be addressed? [See Deficiency Narrative for Specific Rule Violated]	Deficiency: (Narrative) At the time of the inspection, Department staff were notified that the facility had planned to modify their filters, but a permit modification was not submitted to the Department for approval.
	Corrective Action(s): (Narrative) The facility has since submitted a permit modification to the Department on July 8, 2022, and the Department has approved the modification on July 22, 2022. Per the conditions in the permit, the disc filter(s) shall not be put into operation until a notification of completions has been sent to the Department for review. No further action required at this time.

Observations:

Department records indicate that the current operating permit will expire on August 29, 2025. F.A.C. Rule 62-620.335(1) states that a permittee shall submit an application to renew the existing permit at least 180 days before the expiration date of the existing permit. Timely and sufficient submittal of the renewal application and permit processing is important (and in your best interest) as it automatically extends the expiration date on the existing permit until the Department takes final action on the renewal application. A tardy application could result in non-compliance. Your renewal application and permit processing fee must be submitted no later than March 2, 2025.

Compliance Schedule

Compliance Rating	Not Applicable
Does this section apply to the facility?	( ) **Yes** (•) **No**

Questions	
If the facility has a compliance schedule in a permit, Administrative Order or Enforcement Action are they in compliance with the schedule?	**N/A**

*Are the Compliance Date(s), Construction Milestone(s), Enforcement Order Schedule(s) or Final Compliance Date started/completed within 90 days of the due date?	**N/A**
Has the facility completed construction and submitted a Notification of Completion of Construction for Wastewater Facilities or Activities (Form 62-620.910(12)), if required?	**N/A**
Has the Notification of Availability of Record Drawings and Final Operation and Maintenance Manuals (Form 62-620.910(13)) been submitted as required?	**N/A**
If the facility is under a Toxicity Corrective Action Plan, are they in compliance with the plan?	**N/A**
Is the facility free from any Compliance Schedule violation not listed above that needs to be addressed?	**N/A**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Observations:

No additional comments and/or deficiencies.

Laboratory

Compliance Rating	Out of Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Is there a current copy of the laboratory certification onsite?	**N/A**				
If the facility has an onsite laboratory does it have a Florida Department of Health Environmental Laboratory Certification Program certification?	**N/A**				
Facility DOH Certification #	**N/A**				
Contract Lab Name and DOH Certification #	Sanders Laboratories Inc (South) E85457 **Yes**				
Does the onsite laboratory use sample analysis methods prescribed in 40 CFR part 136 or a test method that has gone through the EPA alternative method approval process?	**N/A**				
Does the facility have standard operating procedures that follow the methods set in 62-620.10(18) F.A.C. including 40 CFR Part 136; including required instrumentation, glassware cleaning, reagent/standard use, and troubleshooting procedures?	**N/A**				
Does the facility have a QA/QC program with a written QA/QC manual as required by 40 CFR 122.41 that is up to date and available for review?	**N/A**				
Does the facility follow the procedures set in the QA/QC manual; including instrument calibration/maintenance, checks on standard solutions, sample analysis precision/accuracy limits on a prescribed bases and QC samples (duplicate, spiked, blank in at least 10%)?	**N/A**				
Is the detailed record complete and available for review for each set of analyses performed including the order of calibration, QA/QC, bracketing, and samples analyzed?	**N/A**				
Does the facility have QA/QC records on the reagent preparation, instrument calibration/maintenance, incubator temperature and purchase of laboratory supplies?	**N/A**				
Does the facility's laboratory documentation of the sample results use qualifier codes when sample QA/QC fall outside acceptable precision and accuracy limits set in the QA/QC manual?	**N/A**				
Does the facility's laboratory take and record corrective actions or trouble shooting steps when data falls out of the precision and accuracy limits?	**N/A**				
Are records of standard(s) and reagent(s) preparation maintained at the laboratory?	**N/A**				
Is the laboratory maintaining adequate records for reagent preparation(s)?	**N/A**				

Does the laboratory have a system for uniformly recording, correcting, processing and reporting data; including formulas, significant figures, rounding rules, units, cross-checking calculations?	**N/A**
Is the facility's laboratory adequate for analyzing samples; including pure water, clean bench space for instrument use/storage free of contamination, necessary equipment, vibration free area, ventilation, humidity and temperature control?	**N/A**
Does the Laboratory meet NELAC and EPA standards including; dry and clean sample storage locations, sample custodian(s) to ensure upon receipt of samples, proper sample storage, preservation and custody documentation?	**N/A**
Does the facility use appropriate standards that are prepared in volumetric glassware, checked against reliable primary standards, labeled properly, stored in clean containers, and discarded when expired or degraded?	**N/A**
Does the facility's laboratory analyst(s) demonstrate competency and appropriate training; including ability to follow procedures, ability to meet precision and accuracy limits, knowledge of equipment and analytical methods.	**N/A**
If the facility test requires temperature measurement, is there a thermometer present that is routinely calibrated against NIST thermometer within calibration date range?	**N/A**
Is the sample refrigerator temperature correct to meet the preservation requirements for the samples stored within?	**N/A**
Is the facility free from any Laboratory violation not listed above that needs to be addressed?	**No**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "**"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:

Is the facility free from any Laboratory violation not listed above that needs to be addressed? [See Deficiency Narrative for Specific Rule Violated]	Deficiency: (Narrative) The Chain of Custody (COC) for the samples collected on April 7, 2022 indicate that the TSS sample was conducted at EFF-01. However, the laboratory report indicates that the sample was collected at "LAST AIR BAY MLSS." Permit/Rule Reference: F.A.C. Rule 62-620.610(18)(e) states that field activities. Including onsite tests and sample collection, shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in F.A.C. Chapter 62-160. The full list of DEP SOPs is available online at: https://floridadep.gov/dear/quality-assurance/content/dep-sops.
	Corrective Action(s): (Narrative) Please submit documentation to the Department describing the discrepancy and how the facility will ensure that all future sampling events and records/reports are done in accordance with DEP SOPs.

Quality Assurance Evaluation: Lab Report QA Audit Checklist

A Quality Assurance Audit of the Laboratory Report(s) for April 2022 revealed deficiencies. Please refer to the relevant deficiencies above for additional details and corrective actions.

Observations:

No additional comments and/or deficiencies.

Sampling

Compliance Rating	Significant Out of Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					

In facility logbooks or other documentation, are the daily records appropriately recorded, including composite sampler or other temperatures, and daily calibration of meters.	**Yes**
Does the facility maintain records of their daily calibration of their pH meter, chlorine meter, dissolved oxygen meter?	**Yes**
Does the facility maintain records of their daily checks of their in-line meter(s) with their field meter(s)?	**N/A**
Do field sheets document that the collection and analysis of field tests were analyzed within the 15-minute holding time.	**Yes**
Are meters calibrated and sample analysis conducted at the facility done in accordance with DEP SOP and NELAC guidelines? (calibration frequency and sample bracketing for pH, total residual chlorine (TRC), turbidity, DO)	**No**
Are all the primary and secondary standards used to calibrate and verify meters, used prior to expiration dates and verified against primary standards appropriate for pH, TRC, turbidity, DO?	**Yes**
Are the inline meters reading within established limits compared to the bench meters? (TRC ≤ 20%, Turbidity ≤ 20%, pH 0.2 SU)	**N/A**
Were safe access points for obtaining representative influent/effluent samples available?	**Yes**
Are influent sampling points put prior to internal facility return lines including supernatant, filter backwash and return activated sludge (RAS)?	**Yes**
Are samples being collected and analyzed as required by the permit or enforcement action; including location, type (grab/composite), time, and frequency?	**No**
Are samples being collected in the proper containers, preserved and analyzed in appropriate hold times in accordance with 40 CFR Part 136, Table II?	**No**
If the facility has a composite sampler with cooling system at the influent/effluent sampling location is there a thermometer present in the sampler that is annually checked against NIST thermometers?	**N/A**
Is composite sampling being conducted appropriately; including purging, sampling velocity at least 2fps, clean tubing, individual sample volume of at least 100 mL, sample storage of <6°C preservation, hold times and representative samples?	**N/A**
Did the facility have their Chain of Custody records?	**Yes**
If sampling was conducted and observed during the inspection did the sampling follow DEP SOP requirements?	**N/A**
Did the facility collect and/or analyze routine or follow-up toxicity samples as required by permit or enforcement action?	**N/A**
Is the facility free from any Sampling violation not listed above that needs to be addressed?	**Yes**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "**"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:

Are meters calibrated and sample analysis conducted at the facility done in accordance with DEP SOP and NELAC guidelines? (calibration frequency and sample bracketing for pH, total residual chlorine (TRC), turbidity, DO)[62-160.210(1) F.A.C., 62-	Deficiency: (Narrative) The calibration/verification log for the chlorine meter for June 2022 did not include an indication of whether calibrations/verifications passed.
	Corrective Action(s): (Narrative) Please submit documentation to the Department showing that the calibration/verification log for the chlorine meter includes all required information.

160.800(1)(a) F.A.C., DEP SOP FT 1000]	
The facility failed to collect and/or analyze samples as required by permit or enforcement action. [62-600.650(1) F.A.C., 62-620.610(18) F.A.C., 62-160.210(1) F.A.C., 62-600.660(1) F.A.C., DEP SOP FS 2400, ANCV]	Deficiency: (Narrative) A review of the DMRs showed that the facility did not sample for Total Nitrogen, Nitrate in accordance with the frequency outlined in their permit, every two (2) weeks, during June 2022, April 2022, March 2022, December 2021, November 2021, July 2021, June 2021, April 2021, March 2021, January 2021, December 2020, September 2020, August 2020, July 2020, June 2020, April 2020, January 2020, December 2019, November 2019, October 2019, and August 2019. Additionally, please refer to the attached appendix (Appendix C) for more details on the three missed sampling events for Oil and Grease, CBOD (INF-01), and TSS (INF-01).
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure that all samples are collected in accordance with the frequency outlined in the permit. Additionally, please include documentation detailing the cause of missed Total Nitrogen, Nitrate samples. Please submit documentation to the Department detailing the cause of the three missed sampling events for Oil and Grease, CBOD (INF-01), and TSS (INF-01).
Are samples being collected in the proper containers, preserved and analyzed in appropriate hold times in accordance with 40 CFR Part 136, Table II? [62-160.210(1) F.A.C., 62-160.800(1)(a) F.A.C., 62-620.610(18) F.A.C.]	Deficiency: (Narrative) The Chain of Custody (COC) for April 2022 does not include the following: Name, address and contact information of the sampler; signature of the person doing the sampling; permit ID and facility information; the number of bottles collected and/or the total number of sample containers collected; container types; lot numbers and expiration dates of preservative; required field parameters; matrix sampled; and the temperature of the samples at the time of relinquishing. Also, the samples collected on April 6, 2022 do not have a legible time relinquished. The samples collected on April 7, 2022 and April 12 - 14, 2022 have the time relinquished crossed out with a single line but the corrections are not signed or dated. Additionally, the Nitrate-Nitrite samples collected on April 6, 2022 and April 21, 2022 do not appear to be preserved properly, nor is the pH recorded to indicate preservation. Also, the fecal sample collected on April 6, 2022 does not indicate if the sample was preserved. The fecal samples collected on April 12, 2022, April 20, 2022, and April 21, 2022 indicate that sulfuric acid was used to preserve the samples.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure that all sampling events and records/reports meet DEP SOPs. Additionally, please submit documentation detailing how the facility ensure that all samples are preserved properly.
Quality Assurance Evaluation: Field Sheets and Chain of Custody & Sampling Calibration Verification Log QA Audit Checklists	
A Quality Assurance Audit of the Calibration/Verification Logs for chlorine (June 2022) revealed deficiencies. Please refer to the relevant deficiencies above for additional details and corrective A Quality Assurance Audit of the Calibration/Verification Logs for pH (June 2022) did not reveal any deficiencies. A Quality Assurance Audit of the Chain of Custody (COCs) for April 2022 revealed deficiencies. Please refer to the relevant deficiencies above for additional details and corrective actions. A Quality Assurance Audit of the Chain of Custody (COC) and Purging Log for February 2022 revealed deficiencies. Please refer to the relevant deficiencies outlined in the Groundwater Section for additional details and corrective actions.	

Observations:
DPD (Chlorine) Standard Lot # A2013 Expires 2/2024 pH 4.00 Lot # 1GC441 Expires 7/2023 pH 7.00 Lot # 2GC169 Expires 3/2024 pH 10.00 Lot # 2GC371 Expires 3/2024

Records and Reports

Compliance Rating	Significant Out of Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Are the entries in the operator logbook clear, concise, informative and relevant?	**Yes**				
Was copy of the current O&M manual available at the time of the inspection?	**Yes**				
Is there a current operator license?	**Yes**				
Is there a current RPZ certification?	**Yes**				
Is there a copy of the current Operating Protocol for Part 3 Reuse?	**N/A**				
Does the facility have and maintain their Spill Prevention Control and Counter measurement (SPCC) Plan?	**N/A**				
Are all required documents and reports available at the plant well organized and complete?	**Yes**				
Does the facility maintain the records onsite for the required retention period?	**Yes**				
Discharge Monitoring Reports (DMRs) Review Period	8/1/2019 to 7/31/2022 **Yes**				
Are the discharge monitoring reports completed properly?	**No**				
Are the DMRs submitted on the proper form?	**Yes**				
Is an authorized representative signing the DMRs?	**Yes**				
Has the permittee submitted an annual Reclaimed Water and/or Effluent Analysis Report?	**N/A**				
Does the facility submit their monitoring results for Giardia and Cryptosporidium in a timely manner?	**N/A**				
A review of the last toxicity test did not reveal any deficiencies?	**N/A**				
Has the facility submitted all report(s) during the review period that are required by rule, permit, enforcement action or inspection activity, other than DMRs?	**Yes**				
*Has the facility timely submitted DMRs as required by rule, permit, or enforcement action? (If either reports are >30 days late meets SNC criteria)	**No**				
Has the facility submitted all final compliance schedule reports as required by rule, permit, or enforcement action?	**Yes**				
Has the permittee notified the Department of any event or activity that requires notification as required by permit or rule?	**Yes**				
*Are records or reports free from falsified data?	**Yes**				
Is the facility free from any Records and Reports violation not listed above that needs to be addressed?	**Yes**				

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:	
	Deficiency: (Narrative)

Are the discharge monitoring reports completed properly? [403.161(1)(b) F.S., 62-600.680 F.A.C.]	Please see the attached appendix (Appendix B) for more details on the transcription and calculation errors found during the DMR review. Additionally, Total Nitrogen, Nitrate EFF-01 (PARM Code 00620) value was transcribed incorrectly from the laboratory report to DMR Part B; the sample collected on April 6, 2022 has a reported result of 11.0 but DMR Part B report < 0.01.
	Corrective Action(s): (Narrative) Please re-submit the DMRs to the Department with all corrections made. If there are any questions on the specific deficiencies outlined in Appendix B, please contact the Department to schedule a meeting to review the DMRs.
The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner. [403.161(1)(b) F.S., 62-600.680 F.A.C., 62-620.610(18)(a) F.A.C., FDMR]	Deficiency: (Narrative) Please see the attached appendix (Appendix C) for more details on the late and/or missing DMRs.
	Corrective Action(s): (Narrative) Please submit the missing DMRs to the Department.

Quality Assurance Evaluation: DMR Part A, DMR Part B and Groundwater DMR QA Audit Checklists
A Quality Assurance Audit of the DMRs (Part A and Part B) revealed deficiencies. Please refer to the relevant deficiencies above for additional details and corrective actions. A Quality Assurance Audit of the DMRs (Part D) did not reveal deficiencies.
Observations:
See Appendix A for Current Operator License information.

Facility Site Review

Compliance Rating	Out of Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
The headworks was free from excessive corrosion.	**Yes**				
The headwork is free from evidence of recent overflows.	**Yes**				
Is the odor control system operational at the headworks?	**N/A**				
Is the comminutor operational at the headworks?	**N/A**				
Is the grit separator operational at the headworks?	**N/A**				
Is the bar screen cleaned on a routine basis?	**Yes**				
Is the mechanical bar screen functioning as intended?	**N/A**				
Are screenings and grit being collected from the headworks in suitable containers?	**Yes**				
Rags, grit and/or screening are being disposed of properly.	**Yes**				
Are screenings and grit from the headworks being disposed at a Class I Landfill?	**Yes**				
Are records of the disposal of the screenings and grit collected at the headworks available?	**Yes**				
The leachate from the screening dumpster(s) is piped to the headworks and not onto the ground.	**N/A**				
Is the clarifier free from solids discharging over the weir(s)?	**Yes**				
Is the clarifier free from excessive sand and/or grit accumulation?	**Yes**				
Is the clarifier free from excessive scum, algae and/or trash overflowing the weir?	**Yes**				

Does the skimmer appear to be functional in the clarifier?	**Yes**
Is the sludge collector and pump functional in the clarifier?	**Yes**
Are the clarifier weir(s) level?	**Yes**
Is the clarifier free from short circuiting with loss over the weir?	**Yes**
Are the aeration basins diffusers free from clogs and providing adequate mixing?	**Yes**
Was the time clock or manual controls for the aeration system operational at the time of the inspection?	**Yes**
Is the RAS line properly located?	**Yes**
The RAS line was free from excessive splashing that could cause solids to be discharged outside the tank.	**Yes**
The mixed liquor (MLSS) in the oxidation ditch was appropriately colored with no black coloring.	**N/A**
Is even distribution of air observed in the aeration basin?	**Yes**
Are the air line(s) to the aeration basin(s) free from leaks?	**Yes**
The brushes and paddles in the oxidation ditch were all in good working order.	**N/A**
Is the velocity in the oxidation ditch sufficient to prevent settling of solids?	**N/A**
Are dual blower motors present as required by rule?	**Yes**
Are the blower motors equipped with belt guards?	**Yes**
The blower motors are free from excessive noise.	**Yes**
Are all the blower motors present and operational at the time of the inspection?	**Yes**
Are spare parts and a second standby blower motors stored onsite?	**Yes**
Is the electrical box wiring for the blower motors adequately protected?	**Yes**
Were the tank contents in the aerobic digester(s) well mixed?	**Yes**
Are the digester(s) free from excessive odors and/or foaming?	**Yes**
Is the digester at the appropriate operational capacity?	**Yes**
Are there two functioning pumps in the surge tank(s)?	**Yes**
What was the biomass color of the trickling filter at the time of the inspection?	**N/A**
Is trickling filter media free from excessive ponding?	**N/A**
Are center columns and distribution arms of the trickling filter free from leaks?	**N/A**
Are the distribution arm orifices free from clogs, trash and/or scum resulting in uneven distribution of flow on the trickling filter media?	**N/A**
Is the RBC free from black biomass indicating solids and/or BOD loading?	**N/A**
Is the RBC free from white biomass indicating the presence of bacteria, which feed on sulfur compounds?	**N/A**
Is the RBC free from excessive grinding/whining noise(s) from the motor, drive shaft, and bearings?	**N/A**
Are all RBC rotating disks and/or paddles present and in good working?	**N/A**
Is the RBC unit drive shaft free from excessive vibration?	**N/A**
Are all the aerators in the lagoon operational at the time of the inspection?	**N/A**
Is the base of the lagoon free from lateral seepage at the time of the inspection?	**N/A**
Does the treatment lagoon have adequate freeboard space?	**N/A**
Is the treatment lagoon properly secured to prevent unauthorized access?	**N/A**
Is the treatment lagoon free from excessive foaming?	**N/A**
Are the treatment lagoon berms properly stabilized?	**N/A**
Is the Chlorine Contact Chamber (CCC) effluent clear and free from scum, solids accumulation and debris?	**Yes**
Are the baffles in the CCC functioning as intended?	**Yes**
Does the chlorine injection point provide optimal mixing to occur in the CCC?	**Yes**

Is the CCC chlorine pump operational, providing adequate chlorine supply for disinfection and at the permitted location?	**Yes**
Is the chlorine storage area protected from the elements?	**N/A**
Is the alarm indicator for the chlorine system operational?	**N/A**
Is the chlorine supply covered in frost indicating an issue with the system?	**N/A**
Is the fan inside the chlorine room operational?	**N/A**
Are the chlorine scales operational?	**N/A**
Is an operational Self-Contained Breathing Apparatus (SCBA) available for the chlorine room?	**N/A**
Are the chlorine gas cylinders properly secured?	**N/A**
Is a fresh supply of ammonia available to test for leaks in the gas chlorination system?	**N/A**
Do the UV ballast control boxes have adequate ventilation?	**N/A**
Does the plant staff have access to UV protective eyeglasses?	**N/A**
Is the facility maintaining adequate records of UV lamp operating hours?	**N/A**
Are the UV lamps and ballast being cleaned in accordance with the manufacturer's recommendation?	**N/A**
Does the facility have an adequate inventory of spare parts for the UV system?	**N/A**
Is the facility conducting routine performance checks on the UV system?	**N/A**
Is the UV intensity monitoring equipment operational?	**N/A**
Is the stilling well free from a thick layer of sludge and/or trash?	**Yes**
Is the chlorine contact chamber providing a minimum contact time of 15 minutes?	**N/A**
Chlorine and SO2 cylinders marked with empty/full tags?	**N/A**
Is the automatic SO2 feed operational within de-chlorination process?	**N/A**
Is the SO2 system free from frost within de-chlorination process?	**N/A**
Are the bisulfite (SO2) gas cylinders properly secured for de-chlorination?	**N/A**
Was there adequate ventilation in the SO2 room?	**N/A**
Is the filter media free from solids that could cause plugging and/or overflow?	**Yes**
Is the land application system being maintained?	**Yes**
If an injection well was plugged or abandoned, was it completed appropriately with DEP approval?	**N/A**
If a well was constructed, was it permitted prior to beginning construction and constructed as required by permit?	**N/A**
Is the injection well Operation and Maintenance done satisfactorily?	**N/A**
Is there adequate access to all monitoring locations?	**Yes**
Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks?	**No**
Are the facility grounds clean and well maintained?	**Yes**
Is the required signage adequate?	**Yes**
The facility was free from odors emanating from the facility.	**Yes**
The facility was free from excessive noise which could be heard beyond the boundaries of the facility.	**Yes**
Is the facility providing safety measures at all times including adequate lighting?	**Yes**
The facility is disposing of sludge appropriately, with no sludge being disposed of on the facility grounds.	**Yes**
Was an alternative power source available at the facility?	**Yes**
Is the onsite generator tested under load on a monthly basis?	**Yes**
Are records available for the testing of the generator?	**Yes**
Is the area around the lift station(s) maintained?	**Yes**
Are there warning signs with emergency contact information on and/or around the lift station(s)?	**Yes**

Does the facility have a fence around their lift station(s)?	**Yes**
Is the gate around the lift station and the cover to the lift station locked?	**Yes**
Is the cover to the lift station(s) free from safety hazards?	**Yes**
Are there two functioning pumps that alternate?	**Yes**
Is the electrical panel in good working order and free from needed repair and/or replacement?	**Yes**
Was the collection system or lift station free from offsite objectionable odors?	**Yes**
The lift station visual and audio alarm operating satisfactory?	**Yes**
Are the potable water supply lines and the facility free from cross connections?	**N/A**
Is an RPZ in place and free of leaks on all potable water supply lines?	**N/A**
Is there a record of testing available on the RPZ?	**N/A**
Is the facility free from any Facility Site Review violation not listed above that needs to be addressed?	**Yes**

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- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:

Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks? [62-600.410 F.A.C., 62-620.300 (5) F.A.C., 62-620.610(7) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the exterior wall of the surge tank was compromised, and rebar was exposed.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure the exterior tank wall of the surge tank no longer has exposed rebar.

Observations:

No additional comments and/or deficiencies.

Flow Measurement

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	

Questions

Is there easy access to flow meter?	**Yes**
Is the flow meter in the correct location?	**Yes**
Is the flow measuring device installed properly?	**Yes**
Is the flow meter calibrated at least annually and is it current?	**Yes**
When was the flow meter last calibrated?	5/23/2022 **Yes**
Is the flow measurement device operating within +/- 10% of the actual flow?	**Yes**
Is the flow meter operating properly at the time of the inspection?	**Yes**
The chart recorder and/or totalizer for the flow meter was operational at the time of the inspection.	**N/A**
The elapsed time meters on the lift station pumps were functioning.	**N/A**
The flow entering the convergence section of the Parshall Flume was free of excessive turbulence.	**N/A**
Is the facility free from any Flow Measurement violation not listed above that needs to be addressed?	**N/A**

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• *Questions with "No" responses indicate deficiencies* • *Questions with "N/A" responses do not apply to the facility*
Observations:
No additional comments and/or deficiencies.

Operations and Maintenance

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Does the facility have adequate plant staffing?	**Yes**				
Is a certified operator operating the wastewater treatment facility with the appropriate license level for the size of the plant?	**Yes**				
Is the operator performing treatment plant operation and maintenance duties in a responsible and professional manner?	**Yes**				
Is the plant O&M log maintained in a hard-bound book with consecutive page numbering, or another approved format?	**Yes**				
Does the facility have an O&M manual, and does the facility's O&M manual reflect the current configuration of the facility?	**Yes**				
*Is the facility operated in accordance with the O & M Manual? (If there is a high potential for water quality or health impacts meets SNC criteria)	**Yes**				
Is the facility maintaining a log that documents routine equipment maintenance?	**Yes**				
Is the plant free of any treatment components that are in disrepair that would provide for unsafe operation?	**Yes**				
Is the facility without an inflow and infiltration problem which would cause collection system and/or operational issues?	**Yes**				
*Does the facility replace malfunctioning equipment, which can result in a high potential for water supply quality or health impacts?	**Yes**				
Dike berms appeared to be in satisfactory condition.	**N/A**				
Handrails/catwalks/ladders were in good working order providing for safe conditions.	**Yes**				
The liner(s) in the containment pond(s) appeared to be functioning as intended.	**N/A**				
The plant operator is fulfilling the minimum site requirements as required by the Permit.	**Yes**				
Preventative maintenance is being performed in the accordance with the manufacturer's recommendations.	**Yes**				
The facility maintains an adequate spare parts inventory.	**Yes**				
Swales were being maintained.	**N/A**				
Is the facility free from any Operations and Maintenance violation not listed above that needs to be addressed?	**Yes**				
• *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"* • *Questions with "No" responses indicate deficiencies* • *Questions with "N/A" responses do not apply to the facility*					
Observations:					
No additional comments and/or deficiencies.					

Effluent Quality

Compliance Rating	Significant Out of Compliance

Does this section apply to the facility?	◉ Yes	○ No	

Questions	
DMR review period:	8/1/2019 to 7/31/2022 **Yes**
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	See Appendix E **No**
*Did the effluent limits exceed the Technical Review Criteria less than two times in six months?	**N/A**
*Are the effluent limits without exceedances four out of six months (chronic criteria)?	**No**
*Did the total residual chlorine levels meet disinfection limits? (If below required minimum 10% or more of the time in a rolling 6-month period, meets SNC criteria)	**Yes**
Was the facility free of a discharge of wastewater that resulted in a fish kill?	**N/A**
*Is persistent acute toxicity documented through follow-up tests?	**N/A**
*Is persistent chronic toxicity documented through follow-up tests?	**N/A**
*Is persistent acute or chronic toxicity documented in the effluent through the use of routine and follow-up tests?	**N/A**
Does the facility meet the permit or enforcement narrative effluent limitation(s)? (Non-DMR visible sheen defined as iridescence present so as to cause taste or odor, or otherwise interfere with the beneficial use of the receiving water)	**Yes**
Is the effluent free from excessive (suspended solids, foam, grease, scum) in the discharge stream?	**Yes**
*Was the facility free from any other violation with a high potential for water quality or health impacts?	**Yes**
Is the facility free from any Effluent Quality violation not listed above that needs to be addressed?	**Yes**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:	
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Deficiency: (Narrative) Please refer to the attached appendix (Appendix D) for a more detailed list of the effluent exceedances found during the DMR review.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure compliance with the permitted effluent limitations.
*Are the effluent limits without exceedances four out of six months (chronic criteria)? [40 CFR Part 123.45]	Deficiency: (Narrative) Please refer to the attached appendix (Appendix D) for a more detailed list of the effluent exceedances found during the DMR review.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure compliance with the permitted effluent limitations. Specifically, please include documentation detailing how the facility will ensure they no longer exceed the TSS and Total Nitrogen, Nitrate limit.

Observations:
No additional comments and/or deficiencies.

Effluent Disposal

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Are discharge location(s) as per permit?	**Yes**				
What type of reuse is the facility approved for?	**N/A**				
Has a cross connection control program been implemented within the areas where reclaimed water is provided for use (Part III, VII)?	**N/A**				
Is all reclaimed water piping and equipment color-coded Pantone purple (522C)?	**N/A**				
Hose bibbs met access restrictions and other requirements.	**N/A**				
Reclaimed water valves and outlets were appropriately tagged and /or labeled.	**N/A**				
Are advisory signs posted in English and Spanish in areas where non-potable Public Access Reuse water is being applied (Part III, VII)?	**N/A**				
Is the reclaimed water retained on the application site?	**N/A**				
No significant ponding was observed on the reclaimed water application site.	**N/A**				
There was no aerosol mist leaving the boundaries of the land application?	**N/A**				
There was no evidence of solids loss in the treatment process or from the plant?	**N/A**				
The RIBs and/or percolation ponds were free from excessive vegetation and sludge?	**Yes**				
The percolation ponds were free from accumulated sludge.	**Yes**				
Does the percolation ponds have at least 3 ft of freeboard?	**Yes**				
The absorption field was free from excessive vegetation.	**N/A**				
Do the reclaimed water storage ponds have adequate freeboard?	**N/A**				
Are RIBs well maintained and free from excessive vegetation?	**Yes**				
There was no evidence of a bypass or failure at the effluent storage and/or disposal site(s)?	**Yes**				
Are all effluent disposal areas such as RIBs, ponds, and sprayfields being loaded and rested per permit conditions?	**Yes**				
The disposal pond berms were free from excessive growth or vegetation.	**N/A**				
There was no evidence of a bypass or failure from the storage ponds observed during the inspection.	**Yes**				
No unauthorized discharge to waters of the state was observed during the inspection.	**N/A**				
Are the sprinklers functioning as intended for the absorption field(s) or sprayfield(s)?	**N/A**				
The facility is meeting the minimum setback distances.	**Yes**				
Does the facility maintain a supply of spare parts for the absorption field(s) or sprayfield(s)?	**N/A**				
The effluent disposal and/or storage area was free from sinkholes.	**N/A**				
Are the sprayfields free from grazing dairy cattle?	**N/A**				
The sprayfield was free from ponding.	**N/A**				
The sprayfield was free from excessive vegetation.	**N/A**				
Edible food crops were being properly irrigated with reclaimed water.	**N/A**				
What cover crop and/or vegetation is planted on the reclaimed water area(s)?	**N/A**				
*The disposal system was being operated as designed with a low potential for water quality or health impacts.	**Yes**				
*There was no unauthorized operation or modification of the disposal system.	**Yes**				
Fencing around the effluent disposal site for access control was complete and in good repair.	**Yes**				
There were no dead animals observed in the discharge stream.	**Yes**				
Is the facility free from any Effluent Disposal violation not listed above that needs to be addressed?	**Yes**				

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- *Questions with "N/A" responses do not apply to the facility*

Observations:

No additional comments and/or deficiencies.

Biosolids

Compliance Rating	Out of Compliance
Does this section apply to the facility?	(•) **Yes** ( ) **No**

Questions	
Does the facility's method of biosolids use or disposal match what is allowed in the facility permit (i.e., landfill, land application, distribution and marketing, transfer to another facility, biofuel/bioenergy)?	**Yes**
Does the permittee keep records of biosolids quantities for five years, as applicable (quantities generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled?	**No**
Are biosolids quantities reported on the facility RMP-Q DMR?	**N/A**
Are the biosolids quantities reported on the RMP - Q DMRs correct and accurate?	**N/A**
The facility's treatment, management, transportation, use, land application, or disposal of biosolids does not result in objectionable odors, i.e., does not result in a violation of the odor prohibition in subsection 62-296.320(2)	**N/A**
If there is an objectionable odor, please describe the odors characteristics, frequency, duration, and migration, etc.	**N/A**
Is the storage of biosolids or other solids at this facility in accordance with the Facility Biosolids Storage Plan?	**N/A**
Does the treatment facility ensure no biosolids are spilled from or tracked off the treatment facility property by the hauling vehicle?	**N/A**
The biosolids for this facility are classified as_____: (AA, A, and/or B)	**N/A**
Does the class of biosolids produced for beneficial use match the authorized class in the facility permit (Class AA, A, or B)?	**N/A**
Does the facility use the biosolids pathogen reduction alternative option identified in the permit?	**N/A**
Are all the operational and process parameters monitored to demonstrate compliance for pathogen reduction?	**N/A**
Do the biosolids meet the treatment requirements for pathogen reduction option used?	**N/A**
Does the facility use the biosolids vector attraction reduction option identified in the permit?	**N/A**
Are all the operational and process parameters monitored to demonstrate compliance for vector attraction reduction?	**N/A**
Do the biosolids satisfactorily meet the treatment requirements for vector attraction reduction?	**N/A**
If the Specific Oxygen Uptake Rate (SOUR) test is used for vector attraction reduction, is it conducted within 15 minutes of sample collection by a certified laboratory or under the direction of an operator certified in accordance with Chapter 62-602, F.A.C?	**N/A**
Does treatment of biosolids or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements take place at the permitted facility (e.g., not in the tank of a hauling vehicle)?	**N/A**

Are the biosolids monitored at the frequency required by the permit?	**N/A**
Are the biosolids monitoring results reported on the facility DMR (RMP-AA, RMP-A, or RMP-B)?	**N/A**
Are the biosolids monitored for all the required parameters for the class of biosolids?	**N/A**
Do the Class AA, A, or B biosolids comply with the ceiling pollutant limits?	**N/A**
Are the correct analysis methods used for biosolids?	**N/A**
Is a certified laboratory used for the analysis of the biosolids?	**N/A**
Are all biosolids samples representative and taken after final treatment of the biosolids but before land application or distribution and marketing, unless otherwise approved?	**N/A**
Are all biosolids samples taken at the location specified in the facility permit?	**N/A**
Are the correct sample types properly taken for the type of biosolids (POTW Sludge Sampling Manual)?	**N/A**
Are the Class AA biosolids monitored monthly?	**N/A**
Do the Class AA biosolids meet the Class AA parameter limits?	**N/A**
Are Class AA biosolids that are stored for more than 45 days re-sampled for fecal coliform or Salmonella sp. at the frequency specified in the permit, if required?	**N/A**
For distribution and marketing, does the facility have a fertilizer license, sell or given-away to someone with a fertilizer license, or is enrolled in the US Composting Council's Seal to Testing Assurance program (USCC STA program does not apply in the Lake Okeechobee, St. Lucie River, and Caloosahatchee River watersheds)?	**N/A**
If the facility discovered that distributed and marketed biosolids did not meet Class AA standards, did the facility notify, within 24 hours, the Department and all persons to whom they delivered or distributed and marketed the Class AA biosolids?	**N/A**
Does the facility make available to users by product labels or other means the following information - fertilizer label or equivalent information; name and address of the facility; statement that the biosolids meet subsection 62-640.700(5), F.A.C.; recommend application rates; and, recommendations for storage (including the more than one dry ton/seven-day provision)?	**N/A**
Are all the sites where biosolids are land applied listed on the Treatment Facility Biosolids Plan form (DEP Form 62-640.219(2)(a))?	**N/A**
If a permitted site not listed in the Treatment Facility Biosolids Plan was used, did the permittee notify DEP at least 24 hours prior to land application at the site and submit a revised form within 30 days after using the site?	**N/A**
Did the facility only used permitted sites - i.e., no unpermitted sites were used for land application (i.e., the site did not have a valid DEP permit)?	**N/A**
Does the permittee maintain hauling records for shipments to land application sites and do they contain the required information?	**N/A**
Does the permittee provide a copy of the hauling records to the biosolids site manager, were records free of any discrepancies regarding the quantities delivered, and any discrepancies were reported to DEP within 24 hours of discovery?	**N/A**
Did all biosolids sent to sites meet pathogen reduction, vector attraction reduction, and pollutant limits?	**N/A**
If biosolids not meeting standards were sent to a site, did the permittee notify DEP, the site manager, the site permittee within 24 hours of discovery?	**N/A**
Does the permittee maintain copies for each site used of the Biosolids Application Site Annual Summary forms received from the site permittees indefinitely?	**N/A**
Has the permittee submitted Treatment Facility Biosolids Annual Summary reports to DEP by February 19 each year?	**N/A**
Was the information in the Treatment Facility Biosolids Annual Summary accurate?	**N/A**
Is any incineration or use of biosolids as a biofuel or for bioenergy in accordance with DEP's air regulations and RCRA?	**N/A**

Does the permittee keep the required hauling records to track transport of biosolids between facilities?	**N/A**
If the facility receives biosolids from a source facility, did the permittee report any discrepancies in the quantities of biosolids to DEP within 24 hours of discovery?	**N/A**
If the facility is a source facility and sends biosolids to another facility, does the permittee provide a copy of their hauling records for each shipment to the receiving facility?	**N/A**
If the facility receives biosolids from a source facility, does the receiving facility permit allow receipt of biosolids from other facilities?	**N/A**
Does the facility have copies of the required written agreement(s) between the receiving and source facility?	**N/A**
Did the permittee (source or receiving facility) submit all new written agreements to DEP within 30 days before transporting biosolids (unless approval given otherwise)?	**N/A**
Is operator staffing requirements met?	**N/A**
Are the biosolids receiving and handling operations satisfactory?	**N/A**
Are grit and screenings, etc., from the headworks properly disposed of in a landfill?	**N/A**
Is the facility free from any Biosolids violation not listed above that needs to be addressed?	**Yes**

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Deficiencies & Corrective Actions:

Does the permittee keep records of biosolids quantities for five years, as applicable (quantities generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled? [62-640.650(4)(a) F.A.C.]	Deficiency: (Narrative) A review of the DMRs from August 1, 2019 to July 31, 2022 revealed that the facility has not recorded any biosolids (landfilled or transferred) onto DMR Part A for the monitoring group RMP-Q.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing why the facility has not hauled in over 35 months or provide documentation including any hauling records. If the facility has hauled in the last five (5) years, please re-submit the DMRs to reflect this.

Observations:

No additional comments and/or deficiencies.

Groundwater

Compliance Rating	Significant Out of Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
DMRs review period	8/1/2019 to 7/31/2022 **Yes**				
Are the groundwater monitoring results sent to the Department on Discharge Monitoring Report, Form 62-620.910(10), F.A.C. and submitted by the DMR due date?	**Yes**				

After a review of the Discharge Monitoring Reports, are the compliance well parameters meeting the groundwater standards in the time period reviewed (12 months or greater)?	**No**
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	See Appendix **No**
Do the facilities purging logs on DEP Form FD 9000-24 indicate that purging was done properly; including sufficient volume, purge rate, depth to water, and stability criteria (pH, Temperature, Conductivity, Dissolved Oxygen, Turbidity)?	**Yes**
Is the groundwater monitoring report complete and accurate, including analysis method, laboratory method detection limits, static water level, purging logs, sample collection procedures and treatment?	**Yes**
Do the groundwater monitoring wells meet DEP requirements including; tamper-proof locks, unique well label(s), concrete well pad with protective bumpers not containing numerous cracks, and is free of clutter for sampling purposes?	**Yes**
If or when new well construction was completed did the facility plug and properly abandoned the existing well and submit Monitoring well completion Report, Form 62-520.900(3) to DEP within 60 days?	**N/A**
If a monitoring well became damaged or inoperable was maintenance conducted and notification sent to DEP within 2 days of discovery?	**N/A**
Is the well(s) that the facility is sampling at part of the approved groundwater monitoring plan?	**Yes**
Are the monitoring wells operable to the extent that sampling is possible?	**Yes**
Are groundwater samples being collected and analyzed as required by the permit or enforcement action; including location, well type, sample type (grab/composite), time, and frequency?	**Yes**
If sampling was observed were the sample collection activities being performed in accordance with DEP SOP FS 2200?	**N/A**
If sampling was observed was equipment in satisfactory condition?	**N/A**
If sampling was not observed is the description of sample collection activities being performed in accordance with DEP SOP FS 2200?	**No**
Is the facility free from any Groundwater violation not listed above that needs to be addressed?	**Yes**

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- *Questions with "N/A" responses do not apply to the facility*

Deficiencies & Corrective Actions:

After a review of the Discharge Monitoring Reports, are the compliance well parameters meeting the groundwater standards in the time period reviewed (12 months or greater)? [62-520.420 F.A.C.]	Deficiency: (Narrative) Please see the attached appendix (Appendix E) for a more detailed list of groundwater exceedances found during the DMR review.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure all permitted limitations are met.
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Deficiency: (Narrative) Please see the attached appendix (Appendix E) for a more detailed list of groundwater exceedances found during the DMR review.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure all permitted limitations are met.
	Deficiency: (Narrative)

If sampling was not observed is the description of sample collection activities being performed in accordance with DEP SOP FS 2200? [62-620.610(18)(e) F.A.C., 62-160 F.A.C.]	A review of the Purging Log and Chain of Custody (COC) for the groundwater samples collected on February 15, 2022 did not include the following information: Sample flow rate in the appropriate units (mL/min), unique ID for sampling equipment; and expiration date of preservative(s) used. Additionally, the well screened interval and total depth were the same.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure all sampling events meet DEP SOPs.
Observations:	
No additional comments and/or deficiencies.	

SSO Survey

Compliance Rating	In Compliance
Does this section apply to the facility?	◉ **Yes** ○ **No**
Questions	
Does the facility have an Operation and Maintenance Manual for their collection system?	**Yes**
How often is the Operation and Maintenance Manual updated?	As needed
Does the O&M manual reflect the current collection system configuration?	**Yes**
Are procedures available for minimizing spills in either the Operation and Maintenance Manual or in a separate document?	**Yes**
Does the facility have a Sewer Overflow Response Plan/procedures for minimizing spills?	**Yes**
Did the facility collect and/or analyze bacteriological samples as outlined in their SORP?	**N/A**
Does the facility have a map of its collection system?	**Yes**
Are the SORP and collection system maps immediately available to SSO response staff, including during power failures?	**Yes**
Did the facility collect and/or analyze bacteriological samples for sewage spills that reached surface waters?	**N/A**
Does the facility perform routine preventative maintenance to keep the collection/transmission system in good working order?	**Yes**
Does the facility maintain a ready-to-use supply of equipment, tools and materials for responding to SSOs?	**Yes**
How many lift stations have permanent emergency back-up power generators?	**N/A**
In the last 12 months, was the facility free from sewage spills or abnormal event from any part of a collection/transmission system or treatment plant that discharged to the ground or did not make it to surface waters, i.e., stormwater collection system, drainage ditch, stream, pond, or lake?	**Yes**
Does the facility report the spill(s) to the Department within 24 hours of discovery?	**Yes**
Does the facility follow up on spills?	**Yes**
Does the facility keep routine documentation and reporting records of spills, and/or operation and maintenance activities on the collection/transmission system(s)?	**Yes**
In the last 12 months, was the facility free from sewage spills or abnormal events from any components of a collection/transmission system or from a treatment plant that reached surface waters including stormwater conveyance system or drainage ditch?	**Yes**
Is the facility free from any SSO violation not listed above that needs to be addressed?	**Yes**

• *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"* • *Questions with "No" responses indicate deficiencies* • *Questions with "N/A" responses do not apply to the facility*
Observations:
No additional comments and/or deficiencies.

Other

Compliance Rating	Not Evaluated				
Does this section apply to the facility?	○	**Yes**	◉	**No**	
Questions					
*Is the facility free from any violation not listed above, or pattern of noncompliance, resulting in a high potential for water quality or health impacts *(Any violations considered significant by the Secretary, Deputy Secretary, Director of District Management, or the Division Director meet SNC criteria)*	**N/A**				
Please describe any potential Non-wastewater violations (i.e. hazardous waste, stormwater, SLERP, Air and Storage Tanks) that were referred.	**N/A**				
• *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"* • *Questions with "No" responses indicate deficiencies* • *Questions with "N/A" responses do not apply to the facility*					
Observations:					
Not Evaluated.					

Deficiencies Summary

Evaluation Area: Permit	
Is the facility free from any Permit violation not listed above that needs to be addressed? [See Deficiency Narrative for Specific Rule Violated]	Deficiency: (Narrative) At the time of the inspection, Department staff were notified that the facility had planned to modify their filters, but a permit modification was not submitted to the Department for approval.
	Corrective Action(s): (Narrative) The facility has since submitted a permit modification to the Department on July 8, 2022, and the Department has approved the modification on July 22, 2022. Per the conditions in the permit, the disc filter(s) shall not be put into operation until a notification of completions has been sent to the Department for review. No further action required at this time.

Evaluation Area: Laboratory	
Is the facility free from any Laboratory violation not listed above that needs to be addressed? [See Deficiency Narrative for Specific Rule Violated]	Deficiency: (Narrative) The Chain of Custody (COC) for the samples collected on April 7, 2022 indicate that the TSS sample was conducted at EFF-01. However, the laboratory report indicates that the sample was collected at “LAST AIR BAY MLSS." Permit/Rule Reference: F.A.C. Rule 62-620.610(18)(e) states that field activities. Including onsite tests and sample collection, shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in F.A.C. Chapter 62-160. The full list of DEP SOPs is available online at: https://floridadep.gov/dear/quality-assurance/content/dep-sops.
	Corrective Action(s): (Narrative) Please submit documentation to the Department describing the discrepancy and how the facility will ensure that all future sampling events and records/reports are done in accordance with DEP SOPs.

Evaluation Area: Sampling	
Are meters calibrated and sample analysis conducted at the facility done in accordance with DEP SOP and NELAC guidelines? (calibration frequency and sample bracketing for pH, total residual chlorine (TRC), turbidity, DO) [62-160.210(1) F.A.C., 62-160.800(1)(a) F.A.C., DEP SOP FT 1000]	Deficiency: (Narrative) The Calibration/Verification log for the Chlorine meter for June 2022 did not include an indication of whether calibrations/verifications passed.
	Corrective Action(s): (Narrative) Please submit documentation to the Department showing that the Calibration/Verification log for the Chlorine meter includes all required information.
The facility failed to collect and/or analyze samples as required by permit or enforcement action.	Deficiency: (Narrative) A review of the DMRs showed that the facility did not sample for Total Nitrogen, Nitrate in accordance with the frequency outlined in their permit, every two (2) weeks, during June 2022, April 2022, March 2022, December 2021, November 2021, July 2021, June 2021, April 2021, March 2021, January 2021, December 2020, September 2020, August 2020, July 2020,

[62-600.650(1) F.A.C., 62-620.610(18) F.A.C., 62-160.210(1) F.A.C., 62-600.660(1) F.A.C., DEP SOP FS 2400, ANCV]	June 2020, April 2020, January 2020, December 2019, November 2019, October 2019, and August 2019. Additionally, please refer to the attached appendix (Appendix C) for more details on the three missed sampling events for Oil and Grease, CBOD (INF-01), and TSS (INF-01).
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure that all samples are collected in accordance with the frequency outlined in the permit. Additionally, please include documentation detailing the cause of missed Total Nitrogen, Nitrate samples. Please submit documentation to the Department detailing the cause of the three missed sampling events for Oil and Grease, CBOD (INF-01), and TSS (INF-01).
Are samples being collected in the proper containers, preserved and analyzed in appropriate hold times in accordance with 40 CFR Part 136, Table II? [62-160.210(1) F.A.C., 62-160.800(1)(a) F.A.C., 62-620.610(18) F.A.C.]	Deficiency: (Narrative) The Chain of Custody (COC) for April 2022 does not include the following: Name, address and contact information of the sampler; signature of the person doing the sampling; permit ID and facility information; the number of bottles collected and/or the total number of sample containers collected; container types; lot numbers and expiration dates of preservative; required field parameters; matrix sampled; and the temperature of the samples at the time of relinquishing. Also, the samples collected on April 6, 2022 do not have a legible time relinquished. The samples collected on April 7, 2022 and April 12 - 14, 2022 have the time relinquished crossed out with a single line but the corrections are not signed or dated. Additionally, the Nitrate-Nitrite samples collected on April 6, 2022 and April 21, 2022 do not appear to be preserved properly, nor is the pH recorded to indicate preservation. Also, the Fecal sample collected on April 6, 2022 does not indicate if the sample was preserved. The Fecal samples collected on April 12, 2022, April 20, 2022, and April 21, 2022 indicate that Sulfuric Acid was used to preserve the samples.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure that all sampling events and records/reports meet DEP SOPs. Additionally, please submit documentation detailing how the facility ensure that all samples are preserved properly.

Evaluation Area: Records and Reports	
Are the discharge monitoring reports completed properly? [403.161(1)(b) F.S., 62-600.680 F.A.C.]	Deficiency: (Narrative) Please see the attached appendix (Appendix B) for more details on the transcription and calculation errors found during the DMR review. Additionally, Total Nitrogen, Nitrate EFF-01 (PARM Code 00620) value was transcribed incorrectly from the laboratory report to DMR Part B; the sample collected on April 6, 2022 has a reported result of 11.0 but DMR Part B report < 0.01.
	Corrective Action(s): (Narrative) Please re-submit the DMRs to the Department with all corrections made. If there are any questions on the specific deficiencies outlined in Appendix B, please contact the Department to schedule a meeting to review the DMRs.
The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner. [403.161(1)(b) F.S., 62-600.680 F.A.C., 62-	Deficiency: (Narrative) Please see the attached appendix (Appendix C) for more details on the late and/or missing DMRs.
	Corrective Action(s): (Narrative) Please submit the missing DMRs to the Department.

620.610(18)(a) F.A.C., FDMR]	

Evaluation Area: Facility Site Review	
Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks? [62-600.410 F.A.C., 62-620.300 (5) F.A.C., 62-620.610(7) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the exterior wall of the surge tank was compromised, and rebar was exposed.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure the exterior tank wall of the surge tank no longer has exposed rebar.

Evaluation Area: Effluent Quality	
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Deficiency: (Narrative) Please refer to the attached appendix (Appendix D) for a more detailed list of the effluent exceedances found during the DMR review.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure compliance with the permitted effluent limitations.
*Are the effluent limits without exceedances four out of six months (chronic criteria)? [40 CFR Part 123.45]	Deficiency: (Narrative) Please refer to the attached appendix (Appendix D) for a more detailed list of the effluent exceedances found during the DMR review.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure compliance with the permitted effluent limitations. Specifically, please include documentation detailing how the facility will ensure they no longer exceed the TSS and Total Nitrogen, Nitrate limit.

Evaluation Area: Biosolids	
Does the permittee keep records of biosolids quantities for five years, as applicable (quantities generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled? [62-640.650(4)(a) F.A.C.]	Deficiency: (Narrative) A review of the DMRs from August 1, 2019 to July 31, 2022 revealed that the facility has not recorded any biosolids (landfilled or transferred) onto DMR Part A for the monitoring group RMP-Q.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing why the facility has not hauled in over 35 months or provide documentation including any hauling records. If the facility has hauled in the last five (5) years, please re-submit the DMRs to reflect this.

Evaluation Area: Groundwater	
After a review of the Discharge Monitoring Reports, are the compliance well	Deficiency: (Narrative) Please see the attached appendix (Appendix E) for a more detailed list of groundwater exceedances found during the DMR review.
	Corrective Action(s): (Narrative)

parameters meeting the groundwater standards in the time period reviewed (12 months or greater)? [62-520.420 F.A.C.]	Please submit documentation to the Department detailing how the facility will ensure all permitted limitations are met.
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Deficiency: (Narrative) Please see the attached appendix (Appendix E) for a more detailed list of groundwater exceedances found during the DMR review.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure all permitted limitations are met.
If sampling was not observed is the description of sample collection activities being performed in accordance with DEP SOP FS 2200? [62-620.610(18)(e) F.A.C., 62-160 F.A.C.]	Deficiency: (Narrative) A review of the Purging Log and Chain of Custody (COC) for the groundwater samples collected on February 15, 2022 did not include the following information: Sample flow rate in the appropriate units (mL/min), unique ID for sampling equipment; and expiration date of preservative(s) used. Additionally, the well screened interval and total depth were the same.
	Corrective Action(s): (Narrative) Please submit documentation to the Department detailing how the facility will ensure all sampling events meet DEP SOPs.

Appendices in relation to the Compliance Evaluation Inspection on June 24, 2022

Appendix A – Current Operator License(s)

Name	Class	License Number	Issue Date	Expiration Date
William James Edwards	C	0023930	2/27/2021	4/30/2023

Appendix B – DMR Deficiencies

Date	Monitoring	Parameter	Description	Result	Limit	Units	Statistical Base	Explanation
10/31/2020	INF-1	P 00556	Oil and Grease	ANC	1.0	in/wk	ME - Minimum	Due to change in permit operator inadvertently missed sampling and will do so going forward
1/31/2020	INF-1	P 80082	BOD, Carbonaceous 5 day, 20C	ANC	Report	mg/L	MB - Maximum	Operator inadvertently missed sampling
1/31/2020	INF-1	P 00530	Solids, Total Suspended	ANC	Report	mg/L	MB - Maximum	Operator inadvertently missed sampling

Monitoring Period	R-001 DMR Deficiencies
JUL-22	-Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from SEP-2021, JAN-22 and FEB-22 -CBOD EFF-01 (PARM Code 80082 Y) annual cannot be reviewed due to missing data from SEP-2021, JAN-22 and FEB-22 -Percent Capacity (PARM Code 00180 P) calculated incorrectly -pH EFF-01 (PARM Code 00400 1) minimum value transcribed incorrectly from DMR Part B to DMR Part A
JUN-22	-Flow FLW-01 (PARM Code 50050 P) quarterly average rounded and/or calculated incorrectly -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from SEP-2021, JAN-22 and FEB-22 -CBOD EFF-01 (PARM Code 80082 Y) annual cannot be reviewed due to missing data from SEP-2021, JAN-22 and FEB-22 -Percent Capacity (PARM Code 00180 P) calculated incorrectly
MAY-22	-Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from SEP-2021, JAN-22 and FEB-22 -CBOD EFF-01 (PARM Code 80082 Y) annual cannot be reviewed due to missing data from SEP-2021, JAN-22 and FEB-22 -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 1 sig figs -Percent Capacity (PARM Code 00180 P) calculated incorrectly
APR-22	-Flow FLW-01 (PARM Code 50050 P) quarterly average cannot be reviewed due to missing data from FEB-22 -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from SEP-2021, JAN-22 and FEB-22 -CBOD EFF-01 (PARM Code 80082 Y) annual cannot be reviewed due to missing data from SEP-2021, JAN-22 and FEB-22 -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 2 sig figs while DMR Part A reports 1 sig figs

	-Percent Capacity (PARM Code 00180 P) cannot be reviewed due to missing data from FEB-22 -Total Nitrogen, Nitrate EFF-01 (PARM Code 00620) value transcribed incorrectly from the laboratory report to DMR Part B; the sample collected on 4/6/2022 has a reported result of 11.0 but DMR Part B report < 0.01
MAR-22	-Flow FLW-01 (PARM Code 50050 P) quarterly average cannot be reviewed due to missing data from JAN-22 and FEB-22 -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from SEP-2021, JAN-22 and FEB-22 -CBOD EFF-01 (PARM Code 80082 Y) annual cannot be reviewed due to missing data from SEP-2021, JAN-22 and FEB-22 -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 2 sig figs while DMR Part A reports 1 sig figs -Percent Capacity (PARM Code 00180 P) cannot be reviewed due to missing data from JAN-22 and FEB-22
FEB-22	-Cannot be review as submitted DMR Part B has the monitoring period January 2021
JAN-22	-Cannot be reviewed as submitted DMR Part B has the monitoring period January 2021
DEC-21	-Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from SEP-2021 -CBOD EFF-01 (PARM Code 80082 Y) annual cannot be reviewed due to missing data from SEP-2021 -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
NOV-21	-Flow FLW-01 (PARM Code 50050 P) quarterly average cannot be reviewed due to missing data from SEP-2021 -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from SEP-2021 -CBOD EFF-01 (PARM Code 80082 Y) annual cannot be reviewed due to missing data from SEP-2021 -Percent Capacity (PARM Code 00180 P) cannot be reviewed due to missing data from SEP-2021 -Total Nitrogen, Nitrate EFF-01 (PARM Code 00620 1) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
OCT-21	-Flow FLW-01 (PARM Code 50050 1) monthly average calculated and/or rounded incorrectly -Flow FLW-01 (PARM Code 50050 P) quarterly average cannot be reviewed due to missing data from SEP-2021 -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from SEP-2021 -CBOD EFF-01 (PARM Code 80082 Y) annual cannot be reviewed due to missing data from SEP-2021 -Percent Capacity (PARM Code 00180 P) cannot be reviewed due to missing data from SEP-2021 -pH EFF-01 (PARM Code 00400 1) maximum value transcribed incorrectly from DMR Part B -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs

SEP-21	-Cannot be reviewed as submitted DMR Part B is for a different facility
AUG-21	-Flow FLW-01 (PARM Code 50050 P) quarterly average incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 5 sig figs -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 Y) annual average cannot be reviewed due to missing data from OCT-2020 -TSS EFF-01 (PARM Code 00530 1) maximum incorrect amount of sig figs – DMR Part B reports 2 sig figs while DMR Part A reports 3 sig figs -Percent Capacity (PARM Code 00180 P) calculated incorrectly -pH EFF-01 (PARM Code 00400 1) maximum value transcribed incorrectly from DMR Part B -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
JUL-21	-Flow FLW-01 (PARM Code 50050 P) quarterly average incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 5 sig figs -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -Percent Capacity (PARM Code 00180 P) calculated incorrectly -Fecal Coliform EFF-01 (PARM Code 74055 1) maximum incorrect amount of sig figs – DMR Part B reports 2 sig figs while DMR Part A reports 3 sig figs -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
JUN-21	-Flow FLW-01 (PARM Code 50050 P) quarterly average incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 5 sig figs -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 Y) annual average cannot be reviewed due to missing data from OCT-2020 -Percent Capacity (PARM Code 00180 P) calculated incorrectly -Total Nitrogen, Nitrate EFF-01 (PARM Code 00620 1) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
MAY-21	-Flow FLW-01 (PARM Code 50050 P) quarterly average incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 5 sig figs -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 Y) annual average cannot be reviewed due to missing data from OCT-2020

	-TSS EFF-01 (PARM Code 00530 1) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -Percent Capacity (PARM Code 00180 P) calculated incorrectly -pH EFF-01 (PARM Code 00400 1) maximum value transcribed incorrectly from DMR Part B -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs
APR-21	-Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 Y) annual average cannot be reviewed due to missing data from OCT-2020 -TSS EFF-01 (PARM Code 00530 1) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
MAR-21	-Flow FLW-01 (PARM Code 50050 P) quarterly average incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 5 sig figs -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 Y) annual average cannot be reviewed due to missing data from OCT-2020 -Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
FEB-21	-Flow FLW-01 (PARM Code 50050 P) quarterly average incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 5 sig figs -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 Y) annual average cannot be reviewed due to missing data from OCT-2020 -Percent Capacity (PARM Code 00180 P) calculated incorrectly -Total Nitrogen, Nitrate EFF-01 (PARM Code 00620 1) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
JAN-21	-Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs

	-TSS EFF-01 (PARM Code 00530 1) maximum incorrect amount of sig figs – DMR Part B reports 2 sig figs while DMR Part A reports 3 sig figs -Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs
DEC-20	-Flow FLW-01 (PARM Code 50050 P) quarterly average cannot be reviewed due to missing data from OCT-2020 -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -Percent Capacity (PARM Code 00180 P) cannot be reviewed due to missing data from OCT-2020 -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs
NOV-20	-Flow FLW-01 (PARM Code 50050 P) quarterly average cannot be reviewed due to missing data from OCT-2020 -Flow FLW-01 (PARM Code 50050 Y) annual average cannot be reviewed due to missing data from OCT-2020 -CBOD EFF-01 (PARM Code 80082 Y) annual average cannot be reviewed due to missing data from OCT-2020 -Percent Capacity (PARM Code 00180 P) cannot be reviewed due to missing data from OCT-2020
OCT-20	-Cannot be reviewed as submitted DMR Part B has the monitoring period as September 2020
SEP-20	-Flow FLW-1 (PARM Code 50050 1) monthly average calculated and/or rounded incorrectly -Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD EFF-01 (PARM Code 80082 Y) annual average reported incorrectly – calculated values less than the MDL shall be reported with the "<" followed by the laboratory's MDL value -TSS EFF-01 (PARM Code 00530 1) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -Fecal Coliform EFF-01 (PARM Code 74055 1) maximum value transcribed incorrectly from DMR Part B -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs
AUG-20	-Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD EFF-01 (PARM Code 80082 Y) annual average reported incorrectly – calculated values less than the MDL shall be reported with the "<" followed by the laboratory's MDL value -pH EFF-01 (PARM Code 00400 1) minimum value transcribed incorrectly from DMR Part B -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -TSS INF-01 (PARM Code 00530 G) maximum value transcribed incorrectly from DMR Part B
JUL-20	-Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD EFF-01 (PARM Code 80082 Y) annual average reported incorrectly – calculated values less than the MDL shall be reported with the "<" followed by the laboratory's MDL value -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs

	-TSS EFF-01 (PARM Code 00530 1) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
JUN-20	-Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -TSS EFF-01 (PARM Code 00530 1) maximum value transcribed incorrectly from DMR Part B -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 2 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs
MAY-20	-Percent Capacity (PARM Code 00180 P) calculated incorrectly -TSS EFF-01 (PARM Code 00530 1) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -Total Nitrogen, Nitrate EFF-01 (PARM Code 00620 1) maximum value transcribed incorrectly from DMR Part B
APR-20	-Percent Capacity (PARM Code 00180 P) calculated incorrectly -TSS EFF-01 (PARM Code 00530 1) maximum incorrect amount of sig figs – DMR Part B reports 2 sig figs while DMR Part A reports 3 sig figs -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs
MAR-20	-Percent Capacity (PARM Code 00180 P) calculated incorrectly
FEB-20	-Flow FLW-1 (PARM Code 50050 1) monthly average incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 5 sig figs -Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD EFF-01 (PARM Code 80082 1) weekly and monthly average transcribed incorrectly – single sample results that are non-detectable shall be reported using the "<" followed by the laboratory's MDL -CBOD INF-01 (PARM Code 80082 G) maximum incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs -TSS INF-01 (PARM Code 00530 G) maximum incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 3 sig figs
JAN-20	-Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
DEC-19	-Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
NOV-19	-Flow FLW-1 (PARM Code 50050 1) monthly average incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 5 sig figs -Percent Capacity (PARM Code 00180 P) calculated incorrectly -CBOD EFF-01 (PARM Code 80082 1) max, weekly and monthly average incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs
OCT-19	-Flow FLW-1 (PARM Code 50050 1) monthly average incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 5 sig figs -Percent Capacity (PARM Code 00180 P) calculated incorrectly -TRC EFF-01 (PARM Code 50060 1) minimum value transcribed incorrectly from DMR Part B -Total Nitrogen, Nitrate EFF-01 (PARM Code 00620 1) maximum value incorrect amount of sig figs – DMR Part B reports 3 sig figs while DMR Part A reports 2 sig figs

SEP-19	-CBOD EFF-01 (PARM Code 80082 1) weekly and monthly average transcribed incorrectly – single sample results that are non-detectable shall be reported using the "<" followed by the laboratory's MDL
AUG-19	-Flow FLW-1 (PARM Code 50050 1) monthly average incorrect amount of sig figs – DMR Part B reports 4 sig figs while DMR Part A reports 5 sig figs

Appendix C – Late and/or Missing DMRs

Monitoring Period	Date Received	Date Due	Days Late
OCT-2020 (R-001 Monthly)	NA	11/28/2020	>30
JAN-2022 (R-001 Monthly)	NA	2/28/2022	>30
FEB-2022 (R-001 Monthly)	NA	3/28/2022	>30

Appendix D – Effluent Exceedances

Date	Monitoring	Parameter	Description	Result	Limit	Units	Statistical Base	Explanation
May-22	EFF-1	P 00530	Solids, Total Suspended	5.2	5.0	mg/L	MB - Maximum	The exact cause of the elevated TSS is unknown. The chlorine residual for the date of sampling was a 5.5 mg/L TRC, additional effluent parameters collected on the same date were well below permitted limits. A total of 13 effluent TSS samples were collected during the month of May, all additional samples were below permitted limits. The operator will continue to monitor three days a week and report as required.
May-22	EFF-1	P 00620	Nitrogen, Nitrate, Total (as N)	21.1	12.0	mg/L	MB - Maximum	The elevated Nitrate levels are believed to have been attributed to aeration levels at the wastewater site. The operator continues to use field nitrate test kits to perform process control testing and made adjustments where necessary, in an

								attempt to maintain the effluent parameters with permitted limits.
Apr-22	EFF-1	P 00530	Solids, Total Suspended	8.4	5.0	mg/L	MB - Maximum	The exact cause of the elevated TSS is unknown. The chlorine residual for the date of sampling was a 3.8 mg/L TRC, additional effluent parameters collected on the same date were well below permitted limits. A total of 12 effluent TSS samples were collected during the month of April, all additional samples collected yielded results below a 3.4 mg/L. The operator will continue to monitor three days a week and report as required.
Apr-22	EFF-1	P 00620	Nitrogen, Nitrate, Total (as N)	13.6	12.0	mg/L	MB - Maximum	The elevated Nitrate levels are believed to have been attributed to aeration levels at the wastewater site. The operator continues to use field nitrate test kits to perform process control testing and made adjustments where necessary, in an attempt to maintain the effluent parameters with permitted limits.
Feb-22	EFF-1	P 00530	Solids, Total Suspended	10.3	5.0	mg/L	MB - Maximum	The exact cause of the elevated TSS is unknown. The chlorine residual for the date of sampling was a 5.6 mg/L

								TRC, additional effluent parameters collected on the same date were well below permitted limits. A total of 13 effluent TSS
Feb-22	EFF-1	P 00620	Nitrogen, Nitrate, Total (as N)	14.4	12.0	mg/L	MB - Maximum	The elevated Nitrate levels are believed to have been attributed to aeration levels at the wastewater site. The operator continues to use field nitrate test kits to perform process control testing and made adjustments where necessary, in an attempt to maintain the effluent parameters with permitted limits. Upon notification of the exceedance from the laboratory the operator collected a confirmation sample which yielded a result of 3.98 mg/L. The operator will continue to monitor and report as required.
Jan-22	EFF-1	P 00530	Solids, Total Suspended	10.3	5.0	mg/L	MB - Maximum	The exact cause of the elevated TSS is unknown. The chlorine residual for the date of sampling was a 6.3 mg/L TRC, additional effluent parameters collected on the same date were well below permitted limits. A total of 12 effluent TSS samples were collected during the month of January, all ad-

								ditional samples collected yielded results below a 2.2 mg/L. The operator will continue to monitor three days a week and report as required.
Sep-21	EFF-1	P 00400	pH	8.9	8.5	s.u.	MB - Maximum	The new operator is aware of the higher than Permitted pH and will make the required adjust-ments to get within the permitted levels.
Aug-21	EFF-1	P 00400	pH	8.6	8.5	s.u.	MB - Maximum	None Given
Apr-21	FLW-01	P 50050	Flow	0.021	0.02	MGD	MK - Monthly Average	None Given
Jan-21	EFF-1	P 00530	Solids, Total Suspended	11.2	5.0	mg/L	MB - Maximum	In review of the DMR for January 2021; results for effluent TSS were elevated on 1/5- 11.2 mg/L ; 1/6 - 5.4 mg/L ; 1/27 - 7.6 mg/L. The exact cause of the ele-vated results is unknown, the fecal samples collected on the same dates yielded results below permitted limits. The operator will review sample collect and ensure proper procedures are followed. We currently monitor 3 x per week, the remainder of the results for eff TSS collected in January were below the permitted limit of 5.0 mg/L. The ope-rator will continue

								to monitor and report as required.
Dec-20	EFF-1	P 00530	Solids, Total Suspended	6.5	5.0	mg/L	MB - Maximum	The exact cause is unknown.
Jan-20	EFF-1	P 00530	Solids, Total Suspended	6.7	5.0	mg/L	MB - Maximum	A notice of abnormal event is being filed in regard to the TSS failure.
Dec-19	EFF-1	P 00530	Solids, Total Suspended	5.6	5.0	mg/L	MB - Maximum	A notice of abnormal event is being filed in regard to the TSS failure
Aug-19	EFF-1	P 00530	Solids, Total Suspended	7.6	5.0	mg/L	MB - Maximum	A notice of abnormal event is being filed in regard to the TSS failure.

Appendix E – Groundwater Exceedances

Monitoring Group	**MWC-34080**	**MWB-34079**	**Limit(s)**
JAN-2022 to MAR-2022	Arsenic: 19 ug/L	Arsenic: < 0.5 ug/L	10.0 ug/L
OCT-2021 to DEC-2021	TDS: 1,450 mg/L Chloride: 578 mg/L	TDS: 424 mg/L Chloride: 132 mg/L	500.0 mg/L 250.0 mg/L
JUL-2021 to SEP-2021	Fecal: 24 #/100mL	Fecal: < 1 #100mL	0.0 #/100mL
APR-2021 to JUN-2021	TDS: 4,800 mg/L Chloride: 1,990 mg/L Sulfate: 275 mg/L	TDS: 520 mg/L Chloride: 121 mg/L Sulfate: 1.29 mg/L	500.0 mg/L 250.0 mg/L 250.0 mg/L
JAN-2021 to MAR-2021	TDS: 4,000 mg/L Chloride: 2,090 mg/L Sulfate: 291 mg/L	TDS: 330 mg/L Chloride: 75.2 mg/L Sulfate: 5.4 mg/L	500.0 mg/L 250.0 mg/L 250.0 mg/L
OCT-2020 to DEC-2020	TDS: 3,900 mg/L Chloride: 2,130 mg/L	TDS: 400 mg/L Chloride: 106 mg/L	500.0 mg/L 250.0 mg/L
JUL-2020 to SEP-2020	TDS: 3,600 mg/L Chloride: 2,290 mg/L Fecal: 1 #/100mL Sulfate: 274 mg/L	TDS: 760 mg/L Chloride: 220 mg/L Fecal: < 1 #/100mL Sulfate: 130 mg/L	500.0 mg/L 250.0 mg/L 0.0 #/100mL 250.0 mg/L
APR-2020 to JUN-2020	TDS: 4,000 mg/L Chloride: 1,920 mg/L	TDS: 480 mg/L Chloride: 180 mg/L	500.0 mg/L 250.0 mg/L
JAN-2020 to MAR-2020	TDS: 3,700 mg/L Chloride: 1,870 mg/L	TDS: 440 mg/L Chloride: 170 mg/L	500.0 mg/L 250.0 mg/L
OCT-2019 to DEC-2019	TDS: 3,700 mg/L Chloride: 1,950 mg/L	TDS: 520 mg/L Chloride: 199 mg/L	500.0 mg/L 250.0 mg/L
JUL-2019 to SEP-2019	TDS: 3,500 mg/L Chloride: 2,500 mg/L Sulfate: 254 mg/L	TDS: 440 mg/L Chloride: 140 mg/L Sulfate: 28.3 mg/L	500.0 mg/L 250.0 mg/L 250.0 mg/L

I certify that these photos represent the true
on-site conditions observed
and have not been altered in any way.

Useppa Island WWTP (FLA014494)
Photos by Nicole Devine on 6/24/2022

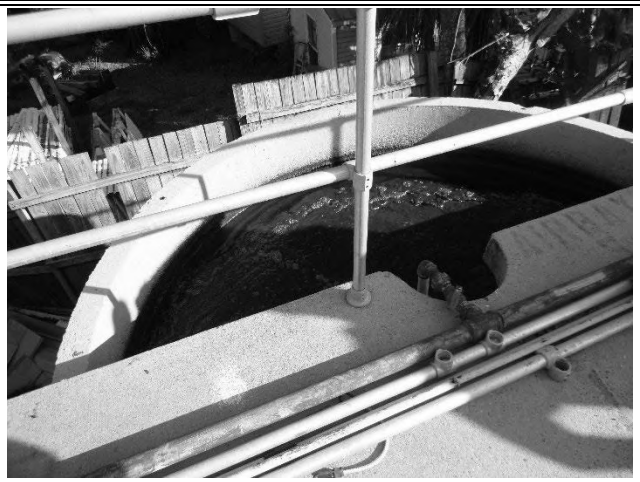
Nicole Devine

_____

1. Facility Overview

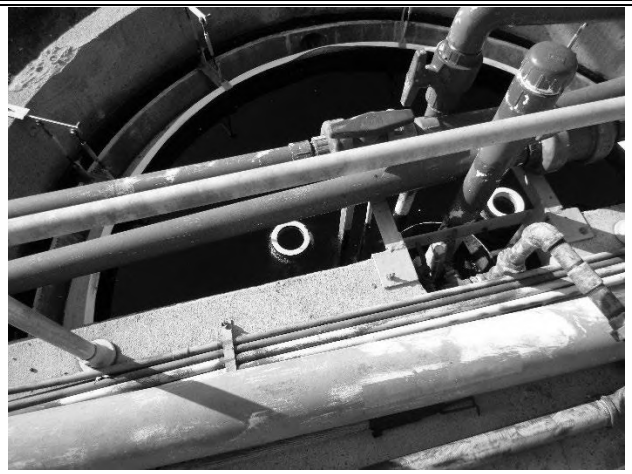
2. Surge Tanks & Digesters

3. Aeration Tanks



4. Aeration Tank

5. Blowers



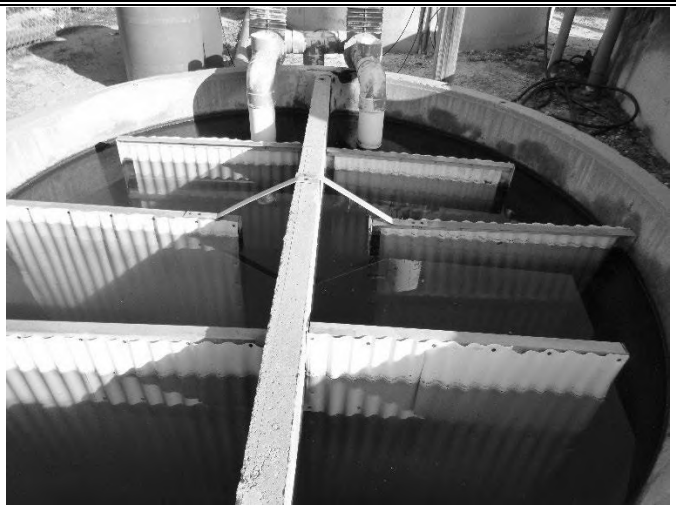
6. Clarifier

I certify that these photos represent the true
on-site conditions observed
and have not been altered in any way.

Useppa Island WWTP (FLA014494)
Photos by Nicole Devine on 6/24/2022

Nicole Devine

_____



7. CCC

8. Exposed Rebar on Surge Tank

9. Percolation Pond

10. Percolation Pond Sign

Useppa Island WWTP (FLA014494)
Photos by Nicole Devine on 6/24/2022

I certify that these photos represent the true
on-site conditions observed
and have not been altered in any way.

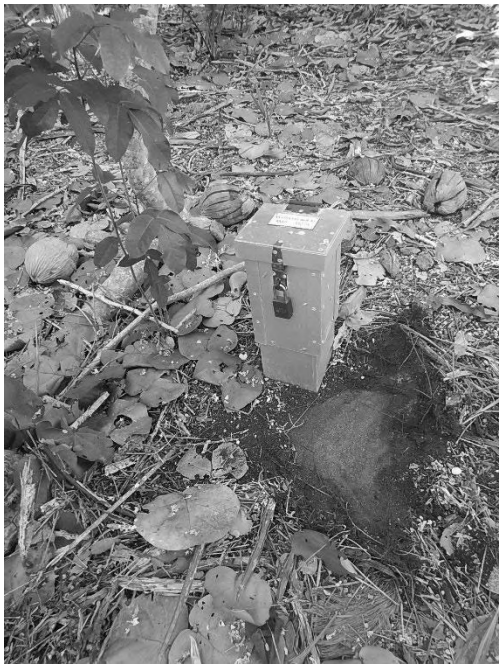
Nicole Devine

_____

11. Percolation Pond

12. Lift Station

13. Groundwater Well (MWI)



14. Groundwater Well (MWB)

I certify that these photos represent the true
on-site conditions observed
and have not been altered in any way.

Nicole Devine

_____

Useppa Island WWTP (FLA014494)
Photos by Nicole Devine on 6/24/2022

15. Groundwater Well (MWC)	16. Groundwater Well (MWC)

WASTEWATER
SIGNIFICANT NONCOMPLIANCE (SNC) DOCUMENTATION

Facility:	Useppa Island WWTP			**Inspection Date:**	6/24/2022
Inspector:	N Devine	**Permit No:**	FLA014494	**Permitted Capacity:**	0.045 MGD

1. Permit

☐ Operating without a valid wastewater permit
☐ Unpermitted discharge with a high potential for water quality of health impacts
☐ Unauthorized bypass with a high potential for water quality or health impacts
☐ Unpermitted collection system with a high potential for water quality of health impacts
☐ Unauthorized substantial plant modification placed into service
☐ Unauthorized residuals or sludge disposal with a high potential for water quality of health impacts

2. Compliance Schedule

☐ Start Construction milestone exceeded by 90 days or more
☐ End construction milestone exceeded by 90 days or more
☐ Attainment of final compliance milestone exceeded by 90 days or more
☐ Failure to meet any other enforcement order or compliance schedule milestones by 90 days or more

3. Records and Reports

☐ Surface Water Discharge Monitoring Report (DMR) late by 30 or more days
☒ Land-Application Effluent Discharge Monitoring Reports – 2 or more non-submittals in 6 mo. window
☐ Falsification of any record or report
☐ Compliance schedule report or final compliance report late by 30 or more days
☐ Pretreatment reports late by 30 or more days

4. Operation and Maintenance

☐ Improper operation resulting in a high potential for water quality or health impacts
☐ Failure to perform maintenance resulting in a high potential for water quality or health impacts
☐ Missing equipment resulting in a high potential for water quality or health impacts
☐ Failure to replace malfunctioning equipment resulting in a high potential for water quality or health impacts

5. Effluent

☐ Limit exceeded by TRC 2 out of 6 months (TRC Violation)
☒ Limit exceeded 4 out of 6 months (chronic effluent violation)
☐ Total Residual Chlorine for Disinfection below minimum 10% or more of the time in a rolling 6 month period
☐ Persistent acute toxicity through follow up tests
☐ Persistent chronic toxicity through follow up tests
☐ Pollutant passthrough with a high potential for water quality or health impacts (pretreatment)
☐ Any other violation with a high potential for water quality or health impacts

6. Effluent Disposal Method

☐ Operation of unauthorized disposal system
☐ Disposal system failure with a high potential for water quality or health impacts
☐ Failure to operate disposal system as designed with a high potential for water quality or health impacts
☐ Unauthorized modification of disposal system placed into service

7. Other Violations

☒ Any violation not listed above, or pattern of noncompliance, resulting in a high potential for water quality or health impacts – (Comments or Details supporting SNC finding must be provided.)

Comments/Details:

Multiple Groundwater exceedances from July 2019 – December 2021 for TDS and Chloride.

☐ Failure to implement pretreatment program or enforce indirect users where industrial contributions cause effluent limit or disposal violations
☐ Any violation considered Significant by Secretary, Deputy Secretary, Director of District Management, or the Division Director

Attachment 4-1
Communication Date 10/31/22

Wastewater QA Checklist

Facility ID	FLA014494	**Facility Name**	Useppa Island WWTP
Inspection Type	CEI – NON-NPDES– DW TYPE III	**Inspector Name**	N Devine
Date of Completion	9/14/2022	**Total Time Spent on QA**	10.00 hours

Checklist	Timeframe Reviewed	Monitoring Group	Checklist Completed	QA Auditor	Time Taken (Hour)	Comments
DMR Part A	8/1/2019 to 7/31/2022	R-001	Yes	N Devine	2.00 hour	Deficiencies found
DMR Part B	8/1/2019 to 7/31/2022	R-001	Yes	N Devine	2.00 hour	Deficiencies found
Calibration Verification	JUN-2022	NA	Yes	N Devine	0.50 hour	Deficiencies found
Field Sheet & COC	APR-2022	R-001	Yes	N Devine	1.50 hour	Deficiencies found
Lab Report	APR-2022	R-001	Yes	N Devine	1.00 hour	Deficiencies found
Groundwater						
Checklist	**Timeframe Reviewed**	**Monitoring Group**	**Checklist Completed**	**QA Auditor**	**Time Taken (Hour)**	**Comments**
DMR Part D & Field Sheets	JAN-2022 to MAR-2022	MWC-34080	Yes	INITIAL LAST NAME	1.00 hour	No deficiencies found
Field Sheet & COC	JAN-2022 to MAR-2022	MWC-34080	Yes	INITIAL LAST NAME	1.00 hour	Deficiencies found
Lab Report	JAN-2022 to MAR-2022	MWC-34080	Yes	INITIAL LAST NAME	1.00 hour	No deficiencies found
Calibration Verification	NA	NA	NA	NA	NA	NA

Attachment 4-1
Communication Date 10/31/22

DMR Part A QA Audit Checklist

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 9/14/2022
Mon. Group: R-001	**Report Period:** 8/1/2019 to 7/31/2022	**Auditor:** N Devine

DMR PART A

#	Questions	Y	N	NA
1.1	Data are on the current Part A template according to the permit.	☒	☐	☐
1.2	DMR Part A was submitted timely (as shown by "received date").	☒	☐	☐
1.3	The header shows the correct report frequency (monthly, quarterly, annual, etc.).	☒	☐	☐
1.4	The header shows the correct Monitoring Period.	☒	☐	☐
1.5	If the DMR is a re-submittal, the "Re-Submitted DMR" box is checked.	☒	☐	☐
1.6	The header shows the correct (ID#, final/interim, Prog., Mon. Group).	☒	☐	☐
1.7	All required fields are complete, and no data are missing.	☒	☐	☐
1.8	If data are missing, NODI codes for Part A were used properly.	☒	☐	☐
1.9	Analysis frequencies are recorded and as required.	☒	☐	☐
1.10	Sample types were collected and recorded as required by permit.	☒	☐	☐
1.11	Units used are recorded and as required.	☒	☐	☐
1.12	Results below the MDL are reported as < the MDL.	☐	☒	☐
1.13	NOD code is used properly when no discharge occurs.	☐	☐	☒
1.14	MNR code is used properly according to the permit's monitoring requirements.	☐	☐	☒
1.15	When results are less than detection limit, or NOD, MNR, or other NODI codes are used, averages are calculated properly (see DMR instructions & guidance).	☐	☒	☐
1.16	Averages and means are calculated correctly (arithmetic, geometric).	☐	☒	☐
1.17	Percent (%) capacity is calculated & reported correctly.	☐	☒	☐
1.18	Percent (%) fecal less than MDL is calculated and reported correctly.	☐	☐	☒
1.19	Toxicity values are reported properly (<100 vs. >100 % eff).	☐	☐	☒
1.20	The "No. Ex." column shows the correct number of excursions from Part B.	☐	☒	☐
1.21	Exceedances/missing data are explained in the "comments" field or in an attachment.	☐	☒	☐
1.22	The DMR is signed, dated, and has the correct contact information for the signer.	☒	☐	☐
1.23	The certification statement is present and intact.	☒	☐	☐

Comments:

1.12/1.15 For the review period of 8/1/2019 to 7/31/2022 there were multiple instances where the MDL was not transferred correctly onto DMR Part A or averages were calculated incorrect – please refer to the appendix attached to the inspection report

1.16 For the review period of 8/1/2019 to 7/31/2022 there were multiple instances where the MDL was not used correctly for average – please refer to the appendix attached to the inspection report

1.17 For the review period of 8/1/2019 to 7/31/2022 there were multiple instances where the percent capacity was not calculated correctly – please refer to the appendix attached to the inspection report

1.20/1.21 For the review period of 8/1/2019 to 7/31/2022 there was no explanation for the flow exceedance in APR-2021 nor was it noted as an exceedance on DMR Part A

1.20/1.21 For the review period of 8/1/2019 to 7/31/2022 there was no explanation for the pH exceedance in AUG-2021 nor was it noted as an exceedance on DMR Part A

For the review period of 8/1/2019 to 7/31/2022 there was no explanation for the TSS exceedance in FEB-2022 nor was it noted as an exceedance on DMR Part A

1.21 For the review period of 8/1/2019 to 7/31/2022 the code "ANC" was used on DMR Part A for OCT-2020 but no explanation was given

DMR Part B QA Audit Checklist

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 9/14/2022
Mon. Group: R-001	**Report Period:** 8/1/2019 to 7/31/2022	**Auditor:** N Devine

DMR PART B

#	Questions	Y	N	NA
2.1	Data are reported on the current Part B template according to the permit.	☒	☐	☐
2.2	DMR Part B was submitted timely (as shown by "received date").	☐	☒	☐
2.3	The header shows the correct Monitoring Period.	☐	☒	☐
2.4	If the DMR is a resubmittal, the "Re-Submit DMR" box is checked.	☐	☐	☒
2.5	The header shows the correct Facility ID# and name.	☒	☐	☐
2.6	All required cells are complete, and any missing data are explained in the comments section on Part A.	☒	☐	☐
2.7	Results below the MDL are reported as < the MDL.	☒	☐	☐
2.8	There are no transcription errors between Parts A and B.	☐	☒	☐
2.9	Values are averaged correctly; for values that are < the MDL use ½ the reported MDL to calculate the average.	☐	☒	☐
2.10	Sample frequencies and intervals are as required by permit.	☐	☒	☐
2.11	Part B qualifier codes are used as per Part B instructions.	☐	☐	☒
2.12	Plant staffing is fully recorded.	☒	☐	☐

Comments:
2.2/2.3 For the review period of 8/1/2019 to 7/31/2022 the DMR Part B for OCT-2020, JAN-2022, and FEB-2022 did not have the correct monitoring period
2.8/2.9 For the review period of 8/1/2019 to 7/31/2022 there were multiple instances of transcription/calculation errors – please refer to the appendix attached to the inspection report
2.10 For the review period of 8/1/2019 to 7/31/2022 Total Nitrogen, Nitrate was not consistently sampled in accordance with the permit

Sampling Calibration/Verification Logs

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 9/6/2022	Chlorine (Field)
Mon. Group: R-001	**Sample ID:** NA	**Sample Date:** NA	**Auditor:** N Devine

Calibration/Verification Logs (Check for the following field tests; pH, conductivity, DO, temperature, turbidity, chlorine**) DEP SOP FT series and FD 4000**

#	Questions	Y	N	NA
4.13	Calibrations.	☒	☐	☐
4.14	Verifications.	☒	☐	☐
4.15	Dates and times for all events.	☒	☐	☐
4.16	Value and Unit of Standard.	☒	☐	☐
4.17	Acceptance criteria for calibrations/verifications.	☒	☐	☐
4.18	Indication of whether calibrations/verifications passed.	☐	☒	☐
4.19	Who conducted maintenance or calibrations	☒	☐	☐
4.20	Unique identifier for sonde/probes.	☐	☐	☒
4.21	Last maintenance and cleaning.	☒	☐	☐
4.22	Corrective actions and dates.	☒	☐	☐
	Did successful verifications bracket sample measurements?			
4.23	Chronological bracket-verified before and after the sampling event.	☐	☐	☐
4.24	Quantitative bracket- verified or calibrated with a standard higher and lower than the sample result.	☒	☐	☐

Comments:
4.18 The Calibration/Verification log for June 2022 did not include an indication if calibrations/verifications passed

Sampling Calibration/Verification Logs

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 9/6/2022	pH (Field)
Mon. Group: R-001	**Sample ID:** NA	**Sample Date:** NA	**Auditor:** N Devine

Calibration/Verification Logs (Check for the following field tests; pH, conductivity, DO, temperature, turbidity, chlorine**) DEP SOP FT series and FD 4000**

#	Questions	Y	N	NA
4.13	Calibrations.	☒	☐	☐
4.14	Verifications.	☒	☐	☐
4.15	Dates and times for all events.	☒	☐	☐
4.16	Value and Unit of Standard.	☒	☐	☐
4.17	Acceptance criteria for calibrations/verifications.	☒	☐	☐
4.18	Indication of whether calibrations/verifications passed.	☒	☐	☐
4.19	Who conducted maintenance or calibrations	☒	☐	☐
4.20	Unique identifier for sonde/probes.	☐	☐	☒
4.21	Last maintenance and cleaning.	☒	☐	☐
4.22	Corrective actions and dates.	☒	☐	☐
	Did successful verifications bracket sample measurements?			
4.23	Chronological bracket-verified before and after the sampling event.	☒	☐	☐
4.24	Quantitative bracket- verified or calibrated with a standard higher and lower than the sample result.	☒	☐	☐

Comments:
No issues.

Field Audit and Chain of Custody (COC) Checklist

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 9/6/2022	
Mon. Group: R-001	**Sample ID: 1**A – 8A	**Sample Date:** 4/5/2022; 4/6/2022; 4/7/2022; 4/12/2022; 4/13/2022; 4/14/2022	**Auditor:** N Devine

FIELD SHEETS AND CHAIN OF CUSTODY

#	Questions	Y	N	NA
5.1	All information is legible and in proper spaces on forms.	☐	☒	☐
5.2	Nothing is erased/covered; errors have a single line through them & remain legible.	☐	☒	☐
5.3	Errors/corrections are signed and dated by the person making the changes (initials suffice if it is the custodian).	☐	☒	☐
5.4	Name, address, contact info of the sampler.	☐	☒	☐
5.5	Facility and monitoring location sites sampled.	☒	☐	☐
5.6	Signature of the person doing the sampling is affixed.	☐	☒	☐
5.7	Facility sampled has the permit ID information provided.	☐	☒	☐
5.8	The number of bottles collected for each analytical group is indicated and correct.	☐	☒	☐
5.9	Each item has a unique field sample ID.	☒	☐	☐
5.10	Sample point is listed for each item if collecting multiple samples of similar matrix. If multiple sites are sampled, has a unique field identifier been established for each site?	☐	☐	☒
5.11	Total number of sample containers collected is recorded.	☐	☒	☐
5.12	Matrix sampled is indicated for each item (GW, WW influent, etc.).	☐	☒	☐
5.13	Sample type is indicated for each item (grab/composite).	☐	☒	☐
5.14	Sample collection time & date recorded for each sample collected (start/stop for composites, grabs, etc.).	☒	☐	☐
5.15	Required field parameters are recorded (pH, temperature, chlorine, etc.).	☐	☒	☐
5.16	Container types are documented for each analytical group collected.	☐	☒	☐
5.17	Type of sample preservation is recorded for each type of analytical group collected (ice, chemical name, etc.).	☐	☒	☐
5.18	Lot numbers and expiration dates of preservatives is documented.	☐	☒	☐
5.19	Sample kit ID is noted if containers are pre-preserved.	☐	☐	☒
5.20	Sample temperature is recorded at time of receipt.	☐	☒	☐
5.21	Lab analyses to be done are listed for each item.	☒	☐	☐
5.22	Custody & preservation are recorded for grabs to be composited.	☐	☐	☒
5.23	“Relinquished by” shows person’s name, affiliation, date & time for each item.	☒	☐	☐
5.24	“Received by” shows person’s name, affiliation, date & time for each item.	☒	☐	☐
5.25	Name of shipping service if commercially shipped.	☐	☐	☒
5.26	COC transfers from receiving lab to other sites are fully documented.	☐	☐	☒
5.27	Time from sampling completion to receipt by lab is within required holding times.	☒	☐	☐

Comments:
5.2/5.3 The COC for the samples collected on 4/6/2022 do not have a legible time relinquished; The COC for samples collected on 4/7/2022, 4/12/2022, 4/13/2022, and 4/14/2022 have the time relinquished crossed out with a single line but the correction is not signed or dated
5.4/5.6/5.7 The COC for the samples collected on 4/5/2022 do not contain name of the sampler, address, contact information of the sampler, signature of the person doing the sampling, or the facility permit ID information

5.8/5.11/5.16 The COC for the samples collected on 4/5/2022, 4/6/2022 and 4/7/2022 do not include the number of bottles collected, total number of sample containers collected, or the container types
5.1/5.11/5.13 The COC for the samples collected on 4/5/2022 does not indicate the matrix sampled nor the type of sample
5.15/5.17/5.18 The COC for the samples collected on 4/6/2022 does not indicate if the Nitrate-Nitrite sample is preserved, nor does it have a pH reading or the lot number and expiration date of the preservative
5.17 The COC for the samples collected on 4/6/2022 does not indicate if the fecal sample is preserved
5.17 The COC for the samples collected on 4/12/2022 indicate that the fecal sample is preserved with sulfuric acid
5.17/5.18 The COC for the samples collected on 4/5/2022, 4/6/2022, and 4/7/2022 does not indicate the lot number and expiration date of the preservative used for fecal coliform
5.20 The COC for the samples collected on 4/6/2022, 4/12/2022, and 4/14/2022 does not indicate the temperature at the time of relinquishing (no unit)

Lab Report QA Audit Checklist

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 9/6/2022	
Mon. Group: R-001	**Sample ID:** 2204070	**Sample Date:** 4/7/2022	**Auditor:** N Devine

FINAL LAB REPORT

#	Questions	Y	N	NA
6.1	Report has a title indicating that it contains analysis results.	☒	☐	☐
6.2	Lab's DOH Certification number is provided.	☒	☐	☐
6.3	Name, address, contact info for lab is provided.	☒	☐	☐
6.4	Location and contact information of overflow lab for tests being done at another lab.	☒	☐	☐
6.5	The total number of pages is noted, either on the cover or on each page.	☒	☐	☐
6.6	Name & address of the client and the project name (if any) are listed.	☒	☐	☐
6.7	Name, function, & signature of person(s) authorizing the report.	☒	☐	☐
6.8	Date report was issued is provided.	☒	☐	☐
6.9	A statement is provided that the results relate only to the samples listed in report.	☒	☐	☐
6.10	Report certifies that test results meet all DOH requirements or explains why not.	☒	☐	☐
6.11	Each sample & its condition is clearly described and has a unique lab sample ID #.	☒	☐	☐
6.12	Each sample is associated with a client identification code.	☐	☒	☐
6.14	Date & time of collection are noted for each sample.	☒	☐	☐
6.15	Date of sample receipt by lab is noted where it affects a results validity.	☐	☐	☒
6.16	Date of analysis is recorded for each parameter.	☒	☐	☐
6.17	Time of sample prep/analysis is recorded if holding time for prep/analysis is ≤ 72 hours.	☐	☐	☒
6.18	References are made to the sampling plan and the lab's procedures where they are relevant to the validity or applicability of results.	☐	☐	☒
6.19	Analysis method used is listed for each parameter.	☒	☐	☐
6.20	Analysis results are listed for each parameter with unit measurements and reporting units (e.g., measured as µg/l but reported as mg/l).	☒	☐	☐
6.21	Data calculations for dry weight or wet weight measurements is noted.	☐	☐	☒
6.22	Any test failures are described and explained.	☐	☐	☒
6.23	Descriptions are provided for any test method deviations, additions, or exclusions, & any specific test conditions that may have affected results.	☐	☐	☒
6.24	Use and definitions of data qualifiers are explained.	☒	☐	☐
6.25	If quality system requirements are not met, report states what requirements were not met with data qualifiers and chemist narrative comments (see lab report comments).	☐	☐	☒
6.26	Report identifies test results from those samples that did not meet DOH requirements.	☐	☐	☒
6.27	Report includes opinions & interpretations as appropriate & needed.	☐	☐	☒
6.28	Report includes additional information as required by specific methods, clients, or client groups.	☐	☐	☒
6.29	Lab has qualified the numerical results with values outside the working range.	☐	☐	☒

Comments:
6.12 The sample for TSS collected on 4/7/2022 is noted as EFF-01 but the laboratory reports list it as "LAST AIR BAY MLSS"

DMR Part D QA Checklist

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 08/04/2022	
Mon. Group: MWC	**Sample ID:** MWC-34080	**Sample Date:** 02/15/2022	**Auditor:** G Starrach/ N Devine

DMR Part D

#	Questions	Y	N	NA
3.1	Data are on the current Part D template according to the permit.	☒	☐	☐
3.2	DMR Part D was submitted timely (as shown by "Received" date).	☒	☐	☐
3.3	The header shows the correct report frequency.	☒	☐	☐
3.4	The header shows the correct Monitoring Period.	☒	☐	☐
3.5	If the DMR is a resubmittal, the "Re-Submitted DMR" box is checked.	☐	☐	☒
3.6	The header shows the correct identification and location information (ID#, Mon Well #, etc.).	☒	☐	☐
3.7	The well was purged, and at least 3 readings were within stabilization criteria described in DEP SOP FS 2200 before sampling.	☒	☐	☐
3.8	Date and time of sampling is reported and correct.	☒	☐	☐
3.9	All columns are complete for each parameter.	☒	☐	☐
3.10	Results below the MDL are reported as < the MDL.	☒	☐	☐
3.11	Exceedances/missing data are explained in the "Comments" field or in attachment.	☒	☐	☐
3.12	The DMR is signed, dated, and has contact information for the signer.	☒	☐	☐
3.13	The certification statement is present and intact.	☒	☐	☐

Comments:
No issues

Purging Data QA Checklist

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 08/04/2022	
Mon. Group: MWC	**Sample ID:** MWC-34080	**Sample Date:** 02/15/2022	**Auditor:** G Starrach/ N Devine

Purging Data

#	Questions	Y	N	NA
	Were purge completion criteria recorded and met? (Were the last three consecutive measurements prior to sample collection at or below the listed thresholds?)	☒	☐	☐
3.14	Turbidity ≤ 20 NTU for last 3 consecutive measurements.	☒	☐	☐
3.15	Dissolved Oxygen ≤ 20% saturation for last 3 consecutive measurements.	☒	☐	☐
3.16	Last 3 consecutive pH readings within ± 0.2 SU of each other.	☒	☐	☐
3.17	Last 3 consecutive Temperature readings within ± 0.2°C of each other.	☒	☐	☐
3.18	Last 3 consecutive Conductivity readings within ±5% of each other.	☒	☐	☐
	If criteria listed for 3.14 - 3.18 cannot be met for DO and/or turbidity due to naturally occurring conditions, were the last three consecutive measurements at or below the listed thresholds?	☐	☐	☒
3.19	Last 3 consecutive Temperature readings within ± 0.2°C of each other.	☒	☐	☐
3.20	Last 3 consecutive pH readings within ± 0.2 SU of each other.	☒	☐	☐
3.21	Last 3 consecutive Conductivity readings within ±5% of each other.	☒	☐	☐
3.22	Last 3 consecutive Dissolved Oxygen readings within ± 0.2 mg/L or 10% of each other, whichever is greater.	☒	☐	☐
3.23	Last 3 consecutive Turbidity readings within ± 5 NTU or 10% of each other, whichever is greater.	☒	☐	☐
3.24	Last 3 consecutive Dissolved Oxygen readings within ± 0.2 mg/L or 10% or each other, whichever is greater.	☒	☐	☐
3.25	Description of conditions that cause the DO to be high and/or DO measurements made within the screened or open borehole portion of the well with a downhole DO probe.	☐	☐	☒
3.26	Description of conditions that cause the turbidity to be high and any procedures that will be used to minimize turbidity in the future.	☐	☐	☒
3.27	Was formula on groundwater log appropriate for the purge type? Purge calculation can be verified and is correct.	☒	☐	☐
	Sample Collection			
3.28	Flow rate during sample collection recorded and appropriate for analytes collected.	☐	☒	☐
	List Analytes Collected			
	Nitrate, TDS, Cl, ~~Na~~, As, Cd, Cr, Pb, Fecal Coliform, Sulfate, pH, Turbidity, Temperature, Specific Conductance and DO			
		Y	**N**	**NA**
3.29	Samples collected within 1 hour of last stabilization measurement. (If not, ensure that requirements in FS 2212, Section 4, fulfilled.)	☒	☐	☐

Comments:
3.28 The Purging Log for the samples collected 2/15/2022 does not have the sample flow rate recorded in the correct unit

Groundwater Log QA Checklist

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 08/04/2022	
Mon. Group: MWC	**Sample ID:** MWC-34080	**Sample Date:** 02/15/2022	**Auditor:** G Starrach/ N Devine

Groundwater Log

#	Questions	Y	N	NA
3.30	Site name and location.	☒	☐	☐
3.31	Well number or identification.	☒	☐	☐
3.32	Well diameter.	☒	☐	☐
3.33	All purging and sampling equipment have a unique ID.	☐	☒	☐
3.34	Total well depth.	☒	☐	☐
3.35	Depth to groundwater, including reference point.	☒	☐	☐
3.36	Length of water column (total well depth - depth to groundwater).	☒	☐	☐
3.37	Well water volume (including calculation) if required by purge type.	☒	☐	☐
3.38	Purging equipment volume (V), including calculation if applicable for the purge scenario.	☐	☐	☒
3.39	Volume of pump in gallons (p).	☐	☐	☒
3.40	Tubing diameter in inches (d).	☒	☐	☐
3.41	Length of tubing in feet (l).	☒	☐	☐
3.42	Volume of flow cell in gallons (fc).	☐	☐	☒
3.43	Pump or tubing intake placement.	☒	☐	☐
3.44	Sample pump flow rate (mL/min).	☐	☒	☐
3.45	Well screened interval length and depth.	☐	☒	☐
3.46	Purge volume calculation correct.	☒	☐	☐
3.47	Purge start and end times.	☒	☐	☐
3.48	Purge volume meets minimum requirements.	☒	☐	☐
3.49	Compare the cumulative purge volume with the recorded GPM & time of the entry to verify purge rate.	☐	☐	☒
3.50	Consecutive water level measurements to monitor drawdown.	☒	☐	☐
3.51	Sample ID.	☒	☐	☐
3.52	Sample initiation time.	☒	☐	☐
3.53	Number of containers.	☒	☐	☐
3.54	Container type.	☒	☐	☐
3.55	Preservation type and amount.	☒	☐	☐
3.56	Appropriate sampling equipment codes for each analyte.	☒	☐	☐
3.57	Color and odor of well water.	☒	☐	☐

Comments:
3.33 The Purging Log for the samples collected on 2/15/2022 notates that a PP (Peristatic Pump) was used but there is no unique ID for the pump
3.44 The Purging Log for the samples collected 2/15/2022 does not have the sample flow rate recorded in the correct unit
3.45 The Purging Log for the samples collected on 2/15/2022 has the well screened interval length and depth as the same value

Additional Questions to Consider				
#	**Question**	**Y**	**N**	**NA**
3.58	Compare the sampling time/date with the analysis time/date (and prep time/date if applicable). Acceptable holding times can be found per Tables in FS 1000 (If not met, result should include Q qualifier)	☒	☐	☐
3.59	Preservation requirements per Tables in FS 1000 are met. [Insert specific analytes and required holding time for program] Need sample collection or chain of custody records to verify.	☒	☐	☐
3.60	Check to see if the lab's MDL and PQL are low enough to detect at the action level for the analyte. U qualifier would be clue.	☒	☐	☐
3.61	The following are a few commonly seen qualifiers and their definitions: Q – Holding time not met Y – Improper preservation J – Estimated value (must have comment) V – Contamination in associated lab blank G – Contamination in associated field blank	☒	☐	☐
Comments: No issues.				

Field Audit and Chain of Custody (COC) Checklist

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 08/04/2022	
Mon. Group: MWC	**Sample ID:** MWC-34080	**Sample Date:** 02/15/2022	**Auditor:** G Starrach/ N Devine

FIELD SHEETS AND CHAIN OF CUSTODY

#	Questions	Y	N	NA
5.1	All information is legible and in proper spaces on forms.	☒	☐	☐
5.2	Nothing is erased/covered; errors have a single line through them & remain legible.	☒	☐	☐
5.3	Errors/corrections are signed and dated by the person making the changes (initials suffice if it is the custodian).	☐	☐	☒
5.4	Name, address, contact info of the sampler.	☒	☐	☐
5.5	Facility and monitoring location sites sampled.	☒	☐	☐
5.6	Signature of the person doing the sampling is affixed.	☒	☐	☐
5.7	Facility sampled has the permit ID information provided.	☒	☐	☐
5.8	The number of bottles collected for each analytical group is indicated and correct.	☒	☐	☐
5.9	Each item has a unique field sample ID.	☒	☐	☐
5.10	Sample point is listed for each item if collecting multiple samples of similar matrix. If multiple sites are sampled, has a unique field identifier been established for each site?	☒	☐	☐
5.11	Total number of sample containers collected is recorded.	☒	☐	☐
5.12	Matrix sampled is indicated for each item (GW, WW influent, etc.).	☒	☐	☐
5.13	Sample type is indicated for each item (grab/composite).	☒	☐	☐
5.14	Sample collection time & date recorded for each sample collected (start/stop for composites, grabs, etc.).	☒	☐	☐
5.15	Required field parameters are recorded (pH, temperature, chlorine, etc.).	☒	☐	☐
5.16	Container types are documented for each analytical group collected.	☒	☐	☐
5.17	Type of sample preservation is recorded for each type of analytical group collected (ice, chemical name, etc.).	☒	☐	☐
5.18	Lot numbers and expiration dates of preservatives is documented.	☐	☒	☐
5.19	Sample kit ID is noted if containers are pre-preserved.	☒	☐	☐
5.20	Sample temperature is recorded at time of receipt.	☒	☐	☐
5.21	Lab analyses to be done are listed for each item.	☒	☐	☐
5.22	Custody & preservation are recorded for grabs to be composited.	☐	☐	☒
5.23	“Relinquished by” shows person’s name, affiliation, date & time for each item.	☒	☐	☐
5.24	“Received by” shows person’s name, affiliation, date & time for each item.	☒	☐	☐
5.25	Name of shipping service if commercially shipped.	☐	☐	☒
5.26	COC transfers from receiving lab to other sites are fully documented.	☐	☐	☒
5.27	Time from sampling completion to receipt by lab is within required holding times.	☒	☐	☐

Comments:
5.18 The COC for the samples collected on 2/15/2022 include the lot numbers or preservatives but not expiration date

Lab Report QA Audit Checklist

QA AUDIT CHECKLIST	**Facility ID:** FLA014494	**Audit Date:** 08/04/2022	
Mon. Group: MWC	**Sample ID:** MWC-34080	**Sample Date:** 02/15/2022	**Auditor:** G Starrach/ N Devine

FINAL LAB REPORT

#	Questions	Y	N	NA
6.1	Report has a title indicating that it contains analysis results.	☒	☐	☐
6.2	Lab's DOH Certification number is provided.	☒	☐	☐
6.3	Name, address, contact info for lab is provided.	☒	☐	☐
6.4	Location and contact information of overflow lab for tests being done at another lab.	☐	☐	☒
6.5	The total number of pages is noted, either on the cover or on each page.	☒	☐	☐
6.6	Name & address of the client and the project name (if any) are listed.	☒	☐	☐
6.7	Name, function, & signature of person(s) authorizing the report.	☒	☐	☐
6.8	Date report was issued is provided.	☒	☐	☐
6.9	A statement is provided that the results relate only to the samples listed in report.	☒	☐	☐
6.10	Report certifies that test results meet all DOH requirements or explains why not.	☐	☐	☒
6.11	Each sample & its condition is clearly described and has a unique lab sample ID #.	☒	☐	☐
6.12	Each sample is associated with a client identification code.	☒	☐	☐
6.14	Date & time of collection are noted for each sample.	☒	☐	☐
6.15	Date of sample receipt by lab is noted where it affects a results validity.	☐	☐	☒
6.16	Date of analysis is recorded for each parameter.	☒	☐	☐
6.17	Time of sample prep/analysis is recorded if holding time for prep/analysis is $\leq$ 72 hours.	☐	☐	☒
6.18	References are made to the sampling plan and the lab's procedures where they are relevant to the validity or applicability of results.	☐	☐	☒
6.19	Analysis method used is listed for each parameter.	☒	☐	☐
6.20	Analysis results are listed for each parameter with unit measurements and reporting units (e.g., measured as µg/l but reported as mg/l).	☒	☐	☐
6.21	Data calculations for dry weight or wet weight measurements is noted.	☐	☐	☒
6.22	Any test failures are described and explained.	☐	☐	☒
6.23	Descriptions are provided for any test method deviations, additions, or exclusions, & any specific test conditions that may have affected results.	☐	☐	☒
6.24	Use and definitions of data qualifiers are explained.	☒	☐	☐
6.25	If quality system requirements are not met, report states what requirements were not met with data qualifiers and chemist narrative comments (see lab report comments).	☐	☐	☒
6.26	Report identifies test results from those samples that did not meet DOH requirements.	☐	☐	☒
6.27	Report includes opinions & interpretations as appropriate & needed.	☐	☐	☒
6.28	Report includes additional information as required by specific methods, clients, or client groups.	☐	☐	☒
6.29	Lab has qualified the numerical results with values outside the working range.	☐	☐	☒

Comments:
No issues

Florida Department of Environmental Protection

Notification of Completion of Construction for a Domestic Wastewater Collection/Transmission System

Part I – Instructions

(1) This form shall be completed and submitted to the appropriate DEP district office or delegated local program for all collection/transmission system projects required to obtain a construction permit in accordance with Chapter 62-604, F.A.C. Except for projects permitted by delegated local programs, instructions for submitting forms electronically are available at DEP's wastewater forms webpage or submittal may be made using the DEP Business Portal by selecting "Submit," "Registration/Notification," "Submit Notifications to DEP," then choose submission type "Division of Water Resource Management Domestic/Industrial Wastewater" and "Notification of Completion of Construction for a Domestic Wastewater Collection/Transmission System."

(2) Newly constructed or modified collection/transmission facilities shall not be placed into operation for any purpose other than testing for leaks or testing equipment operation until:

- 3 days after the submittal of this form to DEP if the system was constructed with no substantial deviations as noted on this form in Part III(4) and DEP did not notify the permittee of any public health or environmental concerns prior to placing the system into operation; or,
- 10 days after the submittal of this form to DEP if the system was constructed with substantial deviations as noted on this form in Part III(4) and DEP did not notify the permittee of any public health or environmental concerns prior to placing the system into operation.

(3) All information shall be typed or printed in ink, and all blanks must be filled.

Part II – Project Documentation

(1) Collection/Transmission System Permittee

Name Donald Beckstead Title President / General Partner

Company Name Useppa Island Utilities

Address P.O. Box 640

City Bokeelia State FL Zip 33922

Telephone 239-283-1061 Cell Phone _____ Fax _____

Email service@useppa.com

(2) General Project Information

Project Name Useppa Island Forcemain Replacement

Construction Permit No. : 46025-001-DWC/CG Dated 2/2/22

Is the entire project included under the collection/transmission system permit substantially complete? ■ Yes ☐ No

If no, then:

- Attach a copy of the site plan or sketch that was submitted with the application showing the portion of the project which is substantially complete and for which approval is being requested.
- Also, describe the portion of the project for which approval is being requested (including pipe length, total number of manholes and total number of pump stations). Attach additional pages if necessary.

Expected date of connection to existing system or Treatment plant 8/25/22

Attachment 4-1
Communication Date 10/17/22

If connection will be to an existing, intermediate satellite collection system, provide the satellite system identification number (if known): FLSS# N/A

(3) Treatment Plant Serving Collection/Transmission System

Name of Treatment Plant Serving Project Useppa Island Utilities WWTP, Useppa Island FL

County Lee City Useppa Island

DEP facility permit number FL FLA 014494-006

Will the treatment plant be the owner and/or operator of this completed collection system project, i.e. will this collection system be under the control of the treatment facility after it is placed into operation? ■ Yes ☐ No

Part III – Certifications

(1) Collection/Transmission System Permittee

I, the undersigned owner or authorized representative* of Useppa Island Utilities certify that the engineer has provided us a copy of the record drawings for this project and if there is not already an existing applicable operation and maintenance (O&M) manual, one has been prepared for the new or modified facilities. The operation and maintenance manual includes an emergency response plan that specifically addresses cybersecurity, surface water monitoring, and hurricane/severe storm preparedness and response that will be evaluated and updated annually.
Also, I certify that, if we will not be the owner of this project after it is placed into service, we have provided a copy of the above mentioned record drawings and a copy of the above mentioned O&M manual, if applicable, to the person or system that will be the owner of this project after it is placed into service.

Signed _____ Date 9/22/22

Name Donald Beckstead Title President / General Partner

** Attach a letter of authorization.*

(2) Owner of Collection/Transmission System After it is Placed into Service

I, the undersigned owner or authorized representative* of Useppa Island Utilities certify that we accept the project or portion of the project (as described below**) as constructed and will be the owner of this project after it is placed into service. I certify that we agree to:

- operate and maintain the facilities to function as intended, minimize infiltration and inflow, and prevent sanitary sewer overflows;
- provide uninterrupted service and emergency pumping capability as required by Chapter 62-604, F.A.C;
- operate the facilities in accordance with the provisions of Chapter 403 Florida Statutes (F.S.) and applicable Department rules;
- report any abnormal events, including all sanitary sewer overflows and other unauthorized releases or spoils of wastewater, in accordance with Rule 62-604.550, F.A.C.;
- promptly notify the Department if we sell or legally transfer ownership of the collection/transmission system;
- take corrective action if infiltration, inflow, or leakage becomes excessive;
- evaluate and update the emergency response plan (part of the operation and maintenance manual) annually;
- evaluate the cause of any spills, unauthorized releases, or sanitary sewer overflows and evaluate potential corrective actions;
- for spills, unauthorized releases, or sanitary sewer overflows caused by rain or wet weather, take corrective action to prevent future spills, releases, or overflows, or demonstrate inflow and infiltration for the system are not excessive; and,
- If this is a satellite collection system, take corrective action to reduce excessive inflow and infiltration that causes or contributes to sanitary sewer overflows in the receiving collection system.

I certify I have received a copy of the record drawings and O&M manual for this project and that these record drawings and O&M manual are available at the following location which is within the boundaries of the district office or delegated local program permitting the collection/transmission system.

Signed _____ Date 9/22/22

Name Donald Beckstead Title President / General Partner

Company Name Useppa Island Utilities, FL

Address P.O. Box 640

City Bokeelia State FL Zip 33922

Telephone 239-283-1061 Cell _____ Email dbeckstead@useppa.com

*Attach a letter of authorization.

**Description of the specific portion of the project to be owned:

3 existing lift stations and appx 1400 lf of 2" SCH80 PVC forcemain

Second Owner of Collection/Transmission System After it is Placed intoService (if applicable)

I, the undersigned owner or authorized representative* of _____certify that we accept the project or specified portion of the project (as described below**) as constructed and will be the owner of this project after it is placed into service. I certify that we agree to:

- operate and maintain the facilities to function as intended, minimize infiltration and inflow, and prevent sanitary sewer overflows;
- provide uninterrupted service and emergency pumping capability as required by Chapter 62-604, F.A.C;
- operate the facilities in accordance with the provisions of Chapter 403 Florida Statutes (F.S.) and applicable Department rules;
- report any abnormal events, including all sanitary sewer overflows and other unauthorized releases or spoils of wastewater, in accordance with Rule 62-604.550, F.A.C.;
- promptly notify the Department if we sell or legally transfer ownership of the collection/transmission system;
- take corrective action if infiltration, inflow, or leakage becomes excessive;
- evaluate and update the emergency response plan (part of the operation and maintenance manual) annually;
- evaluate the cause of any spills, unauthorized releases, or sanitary sewer overflows and evaluate potential corrective actions;
- for spills, unauthorized releases, or sanitary sewer overflows caused by rain or wet weather, take corrective action to prevent future spills, releases, or overflows, or demonstrate inflow and infiltration for the system are not excessive; and,
- If this is a satellite collection system, take corrective action to reduce excessive inflow and infiltration that causes or contributes to sanitary sewer overflows in the receiving collection system.

I certify I have received a copy of the record drawings and O&M manual for this project and that these record drawings and O&M manual are available at the following location which is within the boundaries of the district office or delegated local program permitting the collection/transmission system.

Signed _____ Date _____

Name _____ Title _____

Company Name _____

Address _____

City _____ State FL Zip _____

Telephone _____ Cell _____ Email _____

*Attach a letter of authorization.

**Description of the specific portion of the project to be owned:

(3) Wastewater Facility Serving Collection/Transmission System

I, the undersigned owner or authorized representative* of the Useppa Island Utilities WWTP, Useppa Island FL wastewater facility hereby certify that the above referenced facility has adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules. Also, I certify that any connections associated with this project to the above referenced facility, which we operate and maintain, have been completed to our satisfaction and we have received a copy of the record drawings for this project.

Signed _____ Date 9/22/22

Name Donald Beckstead Title President / General Partner

Address P.O. Box 640

City Bokeelia State fl Zip 33922

Telephone 239-283-1061 x2630 Cell _____ Fax _____

Email dbeckstead@useppa.com

Attach a letter of authorization.

(4) Professional Engineer Registered in Florida

I, the undersigned professional engineer registered in Florida, certify the following:

- that this project has been constructed in accordance with the construction permit and engineering plans and specifications or that, to the best of my knowledge and belief, any deviations from the construction permit and engineering plans and specifications will not prevent this project from functioning in compliance with Chapter 62-604, F.A.C.;
- that the record drawings for this project are adequate and include substantial deviations** from the construction permit and engineering plans and specifications;
- that a copy of the record drawings has been provided to the permittee and to the wastewater treatment facility serving the collection/transmission system;
- that the O&M manual for this project has been prepared or examined by me, or by an individual(s) under my direct supervision, includes an emergency response plan that addresses cyber security, surface water monitoring, and hurricane and severe storm preparedness and response, and that there is reasonable assurance, in my professional judgment, that the facilities, when properly maintained and operated in accordance with this manual, will function as intended; and
- that, to the best of my knowledge and belief, appropriate leakage tests have been performed and the new or modified facilities met the specified requirements.

This certification is based upon on-site observation of construction conducted by me or by a project representative under my direct supervision and upon a review of shop drawings, test results/records, and record drawings performed by me or by a project representative under my direct supervision.

The following is a description and explanation of substantial deviations (i.e. construction deviations greater than 10% from plans and specifications and any deviations which fall below minimum standards established in Rule 62-604, F.A.C.) from the construction permit and engineering plans and specifications for the substantially completed portion of this project. (Attach additional sheets if necessary.)

(Affix Seal)

Signed Patrick J Day 2022.09.26 10:08:05-04'00' Date 9/26/22

Name Patrick J. Day Florida Registration No. 56709

Company Name DRMP

Address 1404 Dean St

City Fort Myers State FL Zip 33901

Telephone _____ Cell 239-506-5093 Fax _____

Email pday@drmp.com

Portion of the project for which responsible: All

FLORIDA DEPARTMENT OF
Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

Receipt for Notification Submission

October 17, 2022

Maureen tomlinson

USEPPA ISLAND WWTP - FLA014494
USEPPA ISLAND
BOKEELIA, FL

This is to acknowledge that your Notification of Completion of Construction for a Domestic Wastewater Collection/Transmission System was received on **October 17, 2022**.

The form and supporting information fulfills the requirements to notify DEP the domestic wastewater collection/transmission system described below has been constructed in accordance with the associated DEP Permit Number and related plans and materials.

DEP may contact you for additional information. If you indicated substantial deviations and you do not hear from your district office, your project may be placed into service 10 days from the date of this letter. If you did NOT indicate substantial deviations and you do not hear from your district office, your project may be placed into service 3 days from the date of this letter.

This Clearance Notification Process does not relieve you from the responsibility of obtaining other permits or authorizations from other agencies (federal, state, city, etc.) that may be required for the project.

In support of your notification you provided the following information:

User-Entered Information: Acceptance

Construction Permit Number:	46025-001-DWC/CG
Project Name:	Useppa Island Forcemain Replacement
Project Location:	Useppa Island
Permittee:	Useppa Island Utilities
Collection System Owner:	Useppa Island Utilities
Treatment Facility:	USEPPA ISLAND WWTP - FLA014494
Clearance Type:	Total Clearance
Submitter Indicated Substantial Deviations?:	No

Attachment 4-1
Communication Date 10/17/22

Substantial Deviations (when applicable):

Attachments:
File Description: Notice of Acceptance
File Name: Useppa signed permit.pdf
File Hash: 180b9c5a08549bcec2c88c9f51dcc2f461c2f64f687e97fe302ae6bcdfe85cac

All files related to your facility may be viewed at our Departmental Information Portal:
https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/FLA014494/facility!search
Please allow up to three (3) business days for the above documents to appear.

Staff will notify you of any additional information that may be required to complete your notification.

The Office for your project is:
South District
SD_newapps@floridadep.gov

Please contact this Office for any questions regarding your project.

FLORIDA DEPARTMENT OF Environmental Protection

South District Office
2295 Victoria Ave, Suite 364
Ft. Myers, Florida 33901-3875

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

July 22, 2022

In the Matter of an
Application for Permit by:

Useppa Island Club
JR Hiller, Service Director
P.O. Box 640
Bokeelia, FL 33122
jrhiller@useppa.com

File Number FLA014494-007-DW3
Lee County
Useppa Island WTF
Filter Replacement

NOTICE OF PERMIT REVISION

This letter is in response to a request to replace the existing sand filter with a new disc filter. The Department of Environmental Protection (Department) revises the referenced permit as shown below, to authorize this modification. This revision is issued under Chapter 403, Florida Statutes.

The following paragraph is added to the Wastewater treatment description on page 1:

The permittee is authorized to replace the existing sand filter with a new SuperDrum™ Filtration System, Model DF TDD-0802 disc filter. The new unit's dimensions are 5'-0 11/16" L x 3'-11" W x 4'-1 13/16" H. The specifications for this unit include a 5'-0"x 4'-0" filter slab, 0.8 m diameter filter drum, 10 µm filter pore size, a filter media consisting of Polyester Filter FRP Frame, a 4" inlet and outlet, and a peak design flow rate of 0.02 MGD.

Condition VI.4 has been added to read:

4. The disc filter shall not be put into operation until a notification of completion has been sent to the department for review.

[62-620.630(2)]

All other conditions of the permit remain unchanged. This letter shall be attached to the permit and become a permanent part thereof.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S.,

Attachment 4-1
Communication Date 07/22/22

before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
(c) A statement of when and how the petitioner received notice of the agency decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@FloridaDEP.gov. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a), F.A.C.

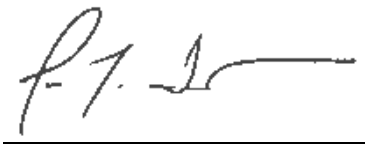
The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver may not apply to persons who have not received a clear point-of-entry.

Extension of Time
Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@FloridaDEP.gov, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation
Mediation is not available in this proceeding.

Judicial Review
Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

EXECUTION AND CLERKING
Executed in Ft. Myers, Florida.
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

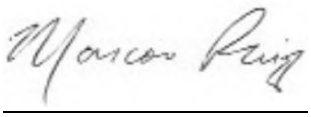


Jon M. Iglehart
Director of District Management

CERTIFICATE OF SERVICE
The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

Patrick J. Day, P.E., DRMP, PDay@drmp.com

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk **Date**

July 22, 2022

APPLICATION FOR A MINOR REVISION TO A WASTEWATER FACILITY OR ACTIVITY PERMIT

1. Instructions

a. In accordance with Rule 62-620.325, F.A.C., this form must be submitted to the appropriate Department district office or approved local program when requests for minor revisions to a permit or minor modifications to a facility are made by a permittee, except for transfer of a permit to a new permittee and addition of a major user of reclaimed water to a Part III reuse system. Application for transfer of a permit to a new permittee shall be made on DEP Form 62-620.910(11). Application for addition of a major user of reclaimed water shall be made on DEP Form 62-610.300(4)(a)1.
b. Each applicable item must be completed in full in order to avoid delay in processing of this form. Where attached sheets or other technical documentation are provided, indicate appropriate cross-references.
c. Three (3) copies of this application with supporting documentation shall be submitted with this form.
d. All information is to be typed or printed in ink. Dates are to be entered in MM/DD/YR format.
e. This application and attachments shall be signed in accordance with Rule 62-620.305, F.A.C. Also, as applicable, this application and all attachments shall be signed and sealed by a professional engineer registered in Florida in accordance with Rule 62-620.310, F.A.C.

2. Facility Information

a. Permit Number: FLA014494 b. Facility Identification Number: FLA014494-006-DW3P
c. Project/Facility Name: Useppa Island Wastewater Treatment Facility
d. Contact Name: JR Hiller
Number and Street: P.O. Box 640
City/State/Zip Code: Bokeelia, FL 33122
Telephone (239) 283-6078

3. Type of Revision

☐ **Correct Typographical Errors**[1] - Submit one copy of each page of the permit showing revisions being requested.

☐ **Change Improvement Schedule**[1] - Provide a description of the improvement, a list of the dates to be revised, and a reason for the proposed change in each date.

☐ **Change Expiration Date of Permit**[1] - Provide the current and proposed expiration dates for the permit and the reasons for the proposed change.

☐ **Change Staffing Requirements**[2] - Describe the proposed change and submit justification for the change in accordance with Chapter 62-699, F.A.C.

[1]A processing fee is not required.
[2]A processing fee is required with the application in accordance with Rule 62-4.050, F.A.C.

Attachment 4-1
Communication Date 07/08/22

☐ **Change Monitoring and Reporting Requirements**[2] - Describe the proposed change and submit justification for the change in accordance with Chapter 62-601, F.A.C.

☐ **Modify Approved Pretreatment Program**[1] - Describe the proposed modification and provide the information required by Rule 62-625.540, F.A.C.

☐ **Delete Point Source Outfall**[1] - Identify the outfall and explain why the outfall is being eliminated.

☐ **Modify or Expand Approved Residuals Land Application Sites**[2] - Attach a new or updated Agricultural Use or Dedicated Site Plan as required by Chapter 62-640, F.A.C.

☒ **Minor Modification to the Facility**[2] - Provide a description of the proposed modification. If applicable, attach any reports, plans, and specifications which have been developed to implement this modification.

☐ **Other**[2] - Provide appropriate documentation. Describe.

4. Certifications

a. Applicant or Authorized Representative

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

(Signature of Applicant or Authorized Representative[3]) 07/08/22 (Date)

Name (please type) JR Hiller Company Name Useppa Island Club
Title Service Director Company Address: P.O. Box 640
Phone: (239) 283-6078 City/State/Zip Code: Bokeelia, FL 33122
Email (optional): jrhillier@useppa.com

b. Professional Engineer Registered in Florida

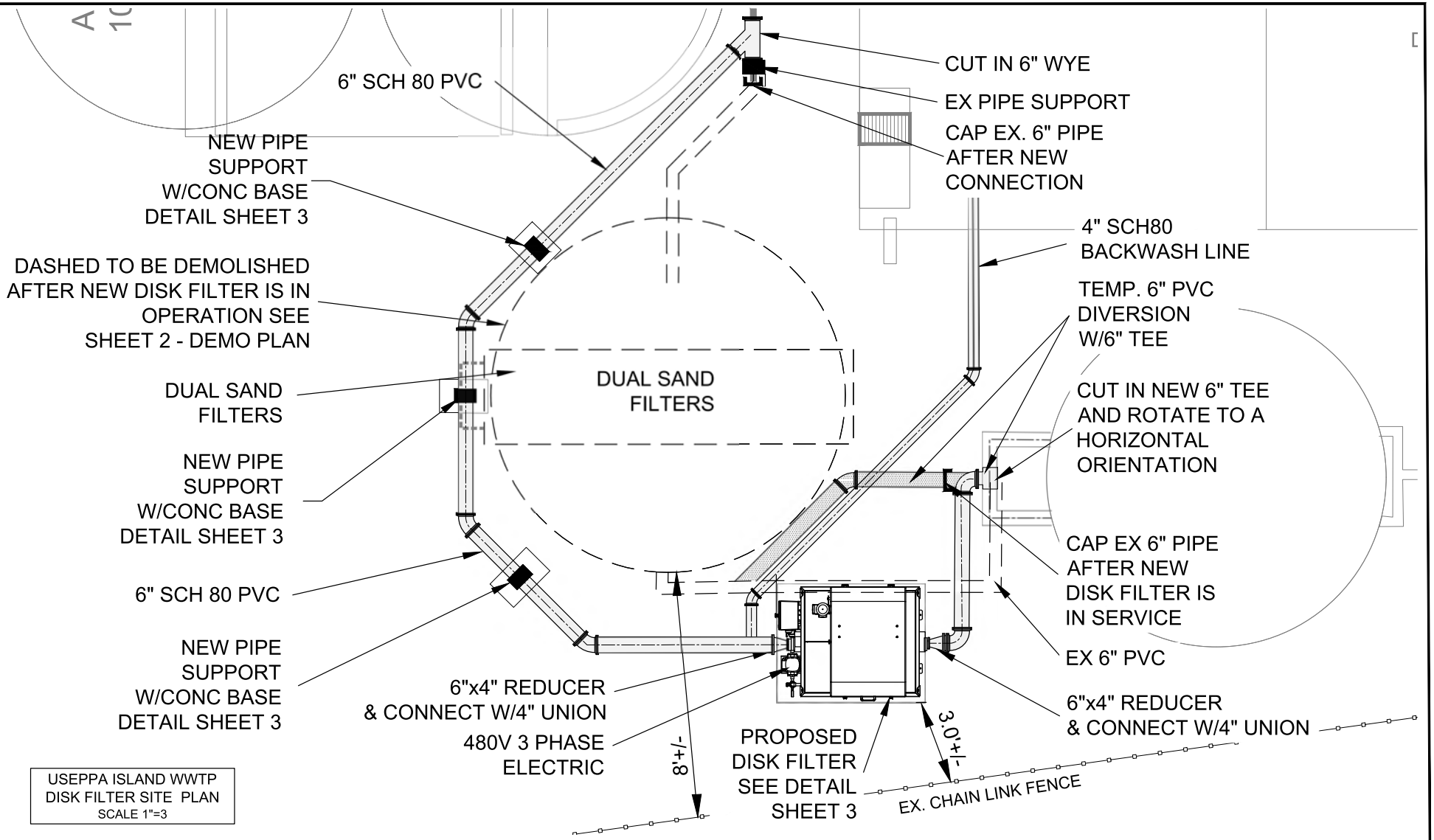
I certify that the engineering features of this project have been (designed) (examined) by me and found to conform to engineering principles applicable to such projects. In my professional judgement, this facility, when properly constructed, operated, and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department.

Name (please type): Patrick Day
Florida Registration Number: 56709
Company Name: drmp, INC.
Company Address: 1404 Dean St., Suite 101
City/State/Zip Code: Fort Myers, FL 33901
Phone Number: 239 206-5444
Email (optional): pday@drmp.com

PATRICK JOSEPH DAY LICENSE No. 56709 STATE OF FLORIDA PROFESSIONAL ENGINEER 7/8/2022

(Seal, Signature, Date, and Registration Number)

[3]If signed by the authorized representative, attach a letter of authorization in accordance Rule 62-620.305, F.A.C.



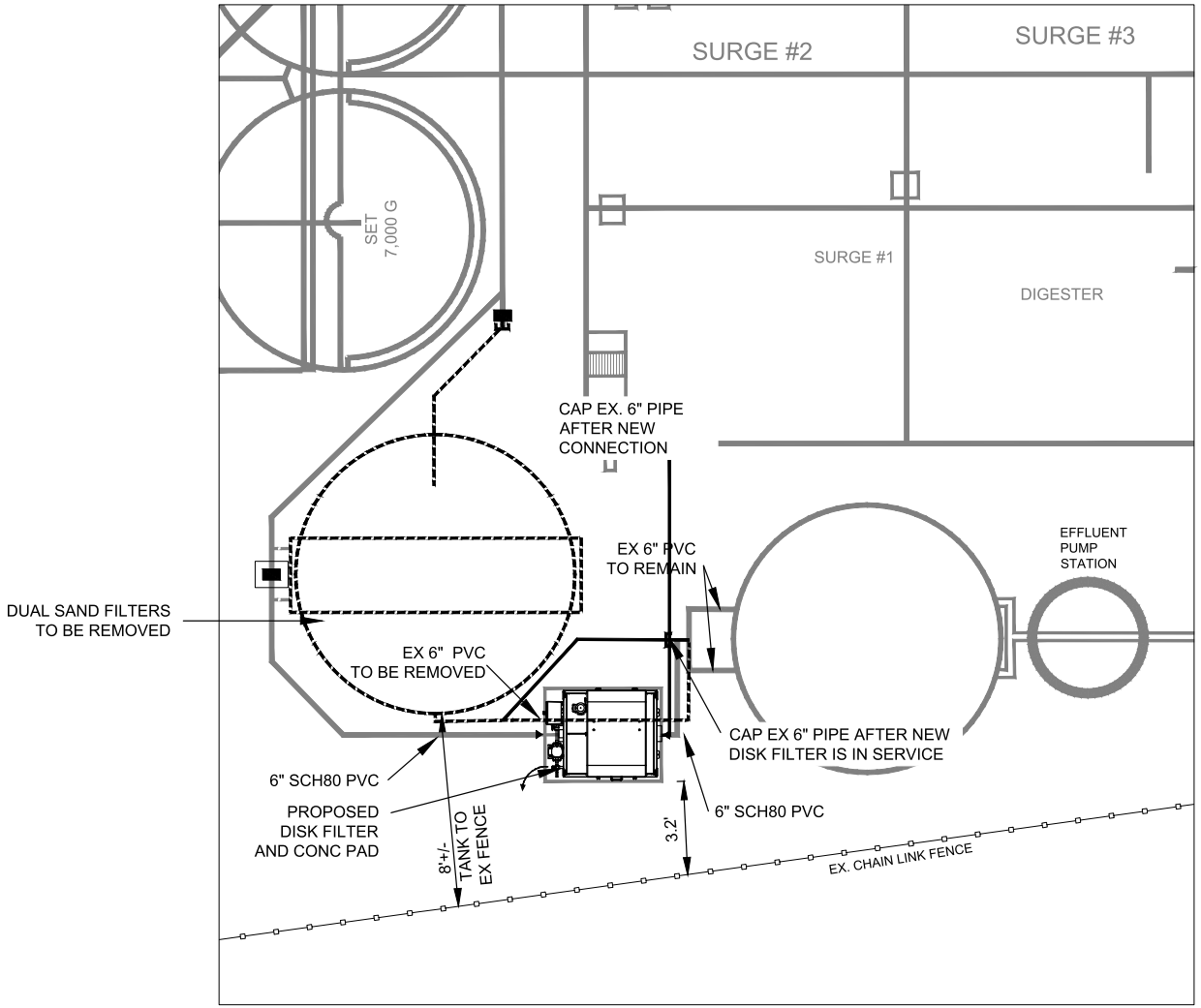
USEPPA ISLAND WWTP
DISK FILTER SITE PLAN
SCALE 1"=3

DRMP

Patrick J Day
2022.07.08
10:44:33-04'00'

USEPPA ISLAND WWTP
DISK FILTER SITE PLAN
PROJ#21-0377.000

EXHIBIT
1



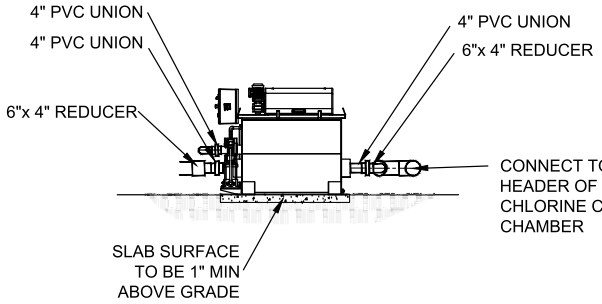
NOTES:
1. REMOVE DUAL SAND FILTER WHEN DISK FILTER IS PLACED INTO SERVICE
2. REMOVE ALL EQUIPMENT SHOWN DASHED

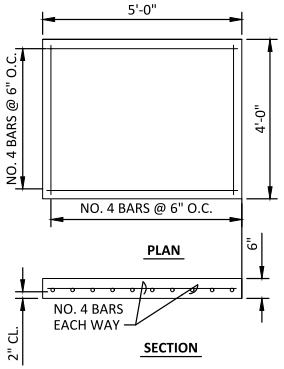
DRMP
ENGINEERS · SURVEYORS · PLANNERS · SCIENTISTS

Patrick J Day
2022.07.08
10:44:57-04'00'
No. 56709
STATE OF FLORIDA

USEPPA ISLAND WWTP
DEMO PLAN
PROJ#21-0377.000

EXHIBIT
2



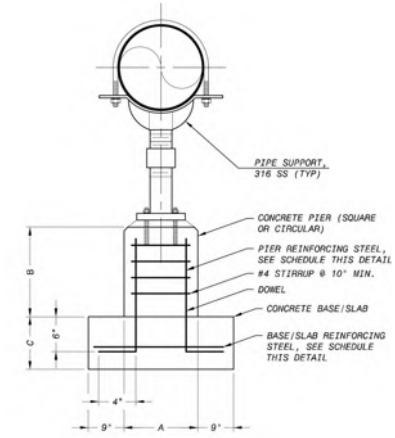


PROPOSED FILTER SLAB

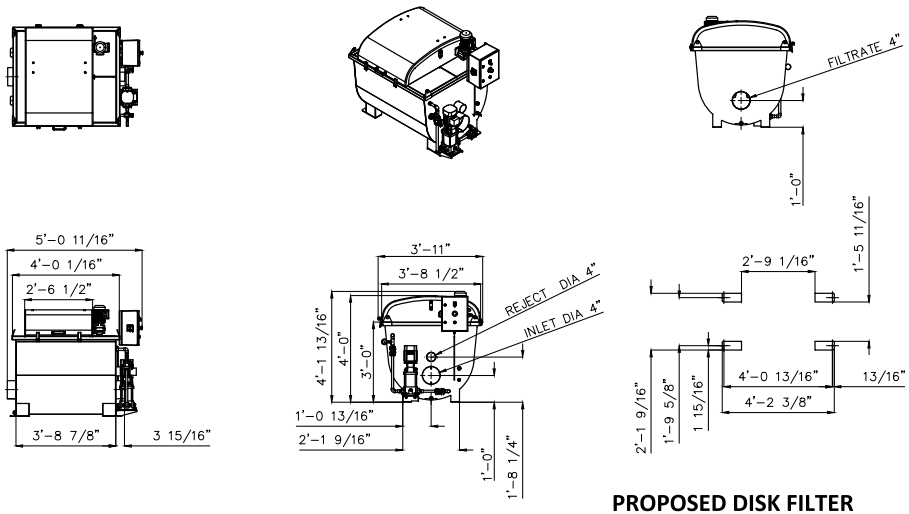
SCALE: ½" = 1'-0"

NOTES:

1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60
2. PROVIDE 2" MINIMUM COVER

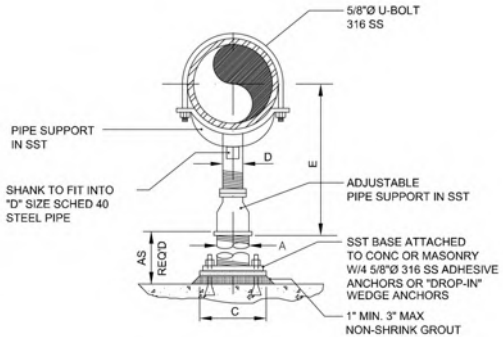


PIPE SUPPORT CONCRETE BASE AND PIER DETAIL (NTS)



PROPOSED DISK FILTER

SCALE: NTS



FM STAINLESS STEEL MODEL 59C-6 OR EQUAL TYPE 316 STAINLESS STEEL

PIPE SIZE	A	B	C
6"	2½"	6"	1½"

ADJUSTABLE PIPE SUPPORT DETAIL (NTS)

DRMP ENGINEERING · SURVEYING · PLANNING · CONSULTING

Patrick J Day 2022.07.08 10:46:07-04'00'

USEPPA ISLAND WWTP
DETAILS
PROJ#21-0377.000

EXHIBIT 3

Useppa Island WWTP

Florida

Engineer
DRMP, Inc.

Representative
Ben McDorman
Moss-Kelley, Inc.
Coral Springs, Florida
(954) 755-2092
wbm@mosskelley.com

Contact
Mitch Matthews
mmatthews@westech-inc.com

Celeste Osterloh
costerloh@westech-inc.com

WesTech®

Proposal Number: 2160295
Tuesday, July 20, 2021

Table of Contents

Technical Proposal
- Item A – SuperDrum™ Filtration System, Model DF TDD-0802

Clarifications and Exceptions

Commercial Proposal
- Bidder's Contact Information
- Pricing
- Payment Terms
- Schedule
- Freight

Warranty

Terms & Conditions

Supplemental Information
- General Arrangement Drawing

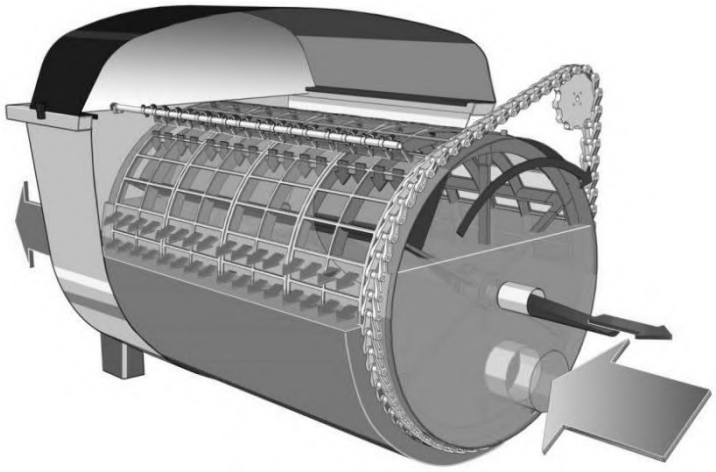
Technical Proposal

Item A – SuperDrum™ Filtration System, Model DF TDD-0802

Design Overview		
Description	**Unit**	**Dimension/Capacity**
Application	-	Suspended Solids Reduction
WesTech System Model	-	DF TDD-0802, Tank-Mounted
Peak Design Total Flow Rate	MGD	0.020
Redundancy and Unit Quantity	-	1 x 100%, (1) total unit
Approximate Dimensions	Per Unit	5’-0 $^{11}/_{16}$” L x 3’-11” W x 4’-1 $^{13}/_{16}$” H
Weight		
Shipping	lbs Per Unit	815
Operating	lbs Per Unit	2,072
Connection Sizes	in	4” feed/filtrate connections 4” backwash waste connection 1” chemical cleaning connection

WesTech is a leader in innovative filtration system technology, including packaged systems, retrofit engineering solutions, and intelligent controls. WesTech disc and drum filter systems are fully assembled and factory tested prior to shipment. We have provided more than 250 disc and drum filtration systems globally with system sizes in excess of 200 MGD.

In addition to disc and drum filtration equipment, WesTech offers extensive pre- and post-treatment options for an integrated, complete process with consolidated support. As a company, WesTech has 530 employees, 190 degreed engineers, and more than 15,000 process equipment installations throughout the world. This significant experience translates to reliable, time-tested equipment.



Design Information

Water Quality

Effluent quality is estimated based on the following influent quality information. System design is based on available filter influent within the limits found below.

Feed Water Quality*

Description	Unit	Value
Source	-	Secondary Effluent
Upstream Biological Process	-	Activated Sludge
pH		6.5 – 8.5
Temperature	°C	5 – 20
Total Suspended Solids, Peak	mg/L	≤30

*Consideration of material compatibility, particularly in regard to parameters not provided or represented, like chlorides, is to be validated by others. It is expected that the influent water will not contain any substances that would inhibit or damage the process / equipment including solvents, lubricants, preservatives, and oil.

Treated Water Quality*

Description	Unit	Value
Total Suspended Solids, Without Chemical Addition	mg/L	≤10 average
Total Suspended Solids, With Chemical Addition	mg/L	≤5 average

*The influent to the filtration system must contain particles of sufficient size and strength to allow retention on the 10-micron media surface in order for the performance criteria to be met. Upstream process adjustments are the responsibility of and must be made by the Owner / Contractor to provide sufficient particle size and strength for filterability.

*Treated water quality may be dependent on appropriate type and concentration of chemical, as applicable, with dosing relevant to project water quality and constituent speciation. Determination and optimization of reaction chemistry is by others. WesTech can support bench- and pilot-scale testing, if desired.

Process Design

Design Summary

Parameter	All Units Operating
Number of Units and Redundancy	1
WesTech System Model	SuperDrum™ TDD 802 Tank Mounted
Drum and Panel Properties	
Nominal Pore Size	10 µm
Installed Panels / Panel Capacity per Unit	2 / 2
Filter Drum Diameter	0.8 m
Total Effective / Submerged Surface Area	5.6 ft^2
Hydraulic Loading	
Maximum (Peak Condition)	2.5 gpm/ft^2
Maximum Total Head Loss	16 – 18 in
Estimated Backwash Frequency	30% of Operating Time
Estimated Backwash Cycle Time	30 sec
Operating Flow Rates	
Peak Gross Flow Rate	0.020 MGD
Maximum Backwash Flow Rate	1 gpm
Backwash Pressure	109 psi
Approx. Total Waste Volume per Day	219 gpd
System Recovery	≥98.9%
Estimated Chemical Clean Frequency	Anually

Process Description

The feed water flows via gravity into the SuperDrum filter. The water passes in an inside-out flow path through the filter media. Using a small micron pore size, suspended solids and particulate are retained on the inside of the drum. Filtered water is directed outwards to the internal level tank. During the filtration process, headloss across the drum is increased through build-up of suspended solids and particulate, which translates to increased headloss and a rise in inlet channel water level. A backwash cycle is initiated once the liquid level reaches a high-level probe in the inlet channel.

During a backwash, the drum rotates and a high-pressure spray is applied to the media. A centrifugal pump is used to draw filtrate from the level tank as the backwash supply. Level probes on the unit serve as backwash pump protection. The drum is rotated using a drive assembly consisting of a belt, stainless steel sprocket, and a small motor. The backwash continues until the liquid level decreases to below the low-level sensor for an adjustable time delay (typically 20 seconds).

If the suspended solids loading and/or hydraulic loading exceeds machine capacity, an emergency overflow condition occurs in which influent water overflows the bypass weirs located at the inlet box. When this bypass event occurs, water flows over the bypass weir, around the level tank, and out the effluent nozzle or into the concrete channel to avoid cross contamination. With a static rotor, the filter can tolerate a differential pressure of up to 16 inches for up to 48 hours.

Scope of Supply

Scope of Supply – SuperDrum™ System			
Item	**Quantity**	**Description**	**Brand/Material**
Drum Filter Units	1 x 100%	Shop-assembled, integral effluent tank for stand-alone design	-
Filter Media Panels*	2/unit 2/system	10 µm pore size	Polyester Filter FRP Frame
Level Tank	1/unit	Integral, filtered water collection	304SS
Reject Trough	1/unit	Backwash waste collection	304SS
Rotor Drum	1/unit	-	304SS
Drum Shaft	1/unit	Rotation during backwash	304SS
Backwash Header	1/unit	High pressure spray	304SS
Chemical Cleaning Header	1/unit	Chemical solution supply	Sch 80 PVC
Backwash Assembly			
Pump	1/unit	1 HP, 480 V, 3 ph	Grundfos
Nozzles	5/unit	Ceramic	Spraying Systems
Isolation Valve	1/unit	Butterfly, CI, Wafer Style	BPS
Pressure Gauge	1/unit	Bourdon tube, 2.5”	Nuova Fima
Strainer	1/unit	Plastic housing; SS filter element	Amiad
Filter Drive Assembly	1/unit	Non-metallic chain and 304 ss sprocket; 0.5 HP, 480 V, 3 pH	SEW
Access Hatches	1/unit	Clam-shell	FRP
Instrumentation			
Liquid Level Probe	5/unit	Standard conductance probe	304SS
Electrical Controls	1 Local	NEMA 4X, 480 V, 3 ph	304SS

*Access walkways, handrail, and stairs (if required) are not included. All interconnecting piping, supports, insulation and heat protection of piping and equipment, wiring and conduit is by others except as listed above.

SuperDrum™ Filtration System

Additional Services

On-Site Technical Assistance and Training

WesTech has included on-site technical assistance during construction, pre-commissioning, and start-up to ensure the equipment is installed and commissioned per WesTech and sub-supplier requirements. All service visits will be completed by certified field technicians that are qualified and have experience working with WesTech equipment.

Any additional trips that the customer may request can be purchased at the standard WesTech daily rates plus travel and living expenses.

On-Site Technical Service

Service	Number of Trips	Number of Days
Installation Inspection and Start-Up	1	2
Operator Training and Assistance	1	2
Total Included Service	2	4

To supplement the above noted technical assistance, WesTech will provide the additional services.

- Technical support during WesTech office hours with a direct phone number to reach a qualified and involved project representative during the equipment warranty period.
- Access to a 24-hour on-call emergency support line.

Process Design and Engineering

WesTech will provide the following process engineering and support for the system

- Equipment general arrangement drawings
- Equipment installation instructions
- Operations and maintenance manuals

Included Spare Parts and Supplemental Items

WesTech has included spare parts in the proposal pricing. These components are shelf spares that can be readily installed as needed.

- Filter Panels: Qty 1
- Spray Nozzles: Qty 2

Optional Items

A-1 Chemical Cleaning System Adder

A chemical cleaning system can be used to restore filter permeability. The mobile chemical cleaning system is connected to the integral chemical spray bar in the filter and the PLC panel. The cleaning process is then initiated from the panel and the user is prompted to open the appropriate valves. The chemical is applied to the outside of the filter media. Residual chemical is captured in the level tank and is discharged with the effluent at diluted levels.

Scope of Supply – Chemical Cleaning System

Item	Quantity	Description	Brand (or equal)
Cart / Frame	1	-	-
Storage Tank	1	26 gal, HDPE	-
Recirculation Pump	1	1.5 HP	Iwaki
Float Switch	1	-	Chicago Sensor
Pressure Gauge	1	2 ½" dial	Winters

Clarifications and Exceptions

General Clarifications

Terms & Conditions: This proposal, including all terms and conditions contained herein, shall become part of any resulting contract or purchase order. Changes to any terms and conditions, including but not limited to submittal and shipment days, payment terms, and escalation clause shall be negotiated at order placement, otherwise the proposal terms and conditions contained herein shall apply.

Insulation and Heat Protection: Insulation and heat protection of piping and equipment is by others unless otherwise noted

Carbon and Stainless Escalation: Material price increase from proposal date to material procurement greater than 2.5% from stated prices are subject to escalation. Escalation shall be based on cost increases, without additional profit, overhead or margin, and shall include labor, material, and other costs to WesTech that occur in the specified time period. Any revisions or changes requested by the customer will be priced on a case-by-case basis. Carbon material escalation will be based on the US Midwest Domestic Index. Any carbon steel escalation will be based on carbon current flats and longs indexes which are in effect at the time of bid. Stainless material escalation will be based on the US Domestic Stainless Steel Index. Any escalation will be based on current stainless steel base price for flat and bar (per design specified alloy) which are in effect at the time of bid.

USA Tariffs and Current Trade Laws: All prices are based on current USA and North America tariffs and trade laws/agreements at time of bid. Any changes in costs due to USA Tariffs and trade laws/ agreements will be passed through to the purchaser at cost.

Exceptions

Not applicable

Commercial Proposal

Proposal Name: Useppa Island WWTP
Proposal Number: 2160295
Tuesday, July 20, 2021

1. Bidder's Contact Information

Company Name	WesTech Engineering, LLC
Primary Contact Name	Mitch Matthews
Phone	801.265.1000
Email	mmatthews@westech-inc.com
Address: Number/Street	3665 S West Temple
Address: City, State, Zip	Salt Lake City, UT 84115

2. Budget Pricing

Currency: US Dollars

Scope of Supply		
A	SuperDrum™ Filtration System, Model DF TDD-0802	$94,540
A-1	Chemical Cleaning System Adder	$27,055
	Taxes (sales, use, VAT, IVA, IGV, duties, import fees, etc.)	Not Included

Prices are valid for a period not to exceed 30 days from date of proposal.

Additional Field Service	
Daily Rate (Applicable Only to Field Service Not Included in Scope)	$1,200

Pricing does not include field service unless noted in scope of supply, but is available at the daily rate plus expenses. The greater of a two week notice or visa procurement time is required prior to departure date. Our field service policy can be provided upon request for more details.

3. Payment Terms

Purchase Order Acceptance and Contract Execution	10%
Submittals Provided by WesTech	15%
Release for Fabrication	35%
Notification of Ready to Ship	40%

All payments are net 30 days. Partial shipments are allowed. An approved Letter of Credit is required if Incoterms CIF, CFR, DAP, CIP, or CPT are applicable. Payment is required in full for all other Incoterms prior to international shipment. Other terms per WesTech proforma invoice. Please note that the advising bank must be named as: Wells Fargo Bank, International Department, 9000 Flair Drive, 3rd Floor, El Monte, California 91731, USA.

4. Schedule

Submittals, after Purchase Order Acceptance and Contract Execution	6 to 8 weeks
Ready to Ship, after Receipt of Final Submittal Approval	18 to 20 weeks
Estimated Weeks to Ready to Ship	**24 to 28 weeks***

*Customer submittal approval is typically required to proceed with equipment fabrication and is not accounted for in the schedule above. Project schedule will be extended to account for time associated with receipt of customer submittal approval.

5. Freight

Domestic	FOB Shipping Point - Full Freight Allowed to Jobsite (FSP-FFA)	
From	**Final Destination**	**Number of Trucks or Containers**
WesTech Shops	Useppa Island, FL	Approximately 1

One-Year Warranty

WesTech equipment is backed by WesTech's reputation as a quality manufacturer, and by many years of experience in the design of reliable equipment.

Equipment manufactured or sold by WesTech Engineering, LLC, once paid for in full, is backed by the following warranty:

For the benefit of the original user, WesTech warrants all new equipment manufactured by WesTech Engineering, LLC to be free from defects in material and workmanship, and will replace or repair, F.O.B. its factories or other location designated by it, any part or parts returned to it which WesTech's examination shall show to have failed under normal use and service by the original user within one (1) year following initial start-up, or eighteen (18) months from shipment to the purchaser, whichever occurs first.

Such repair or replacement shall be free of charge for all items except for those items such as resin, filter media and the like that are consumable and normally replaced during maintenance, with respect to which, repair or replacement shall be subject to a pro-rata charge based upon WesTech's estimate of the percentage of normal service life realized from the part. WesTech's obligation under this warranty is conditioned upon its receiving prompt notice of claimed defects, which shall in no event be later than thirty (30) days following expiration of the warranty period, and is limited to repair or replacement as aforesaid.

This warranty is expressly made by WesTech and accepted by purchaser in lieu of all other warranties, including warranties of merchantability and fitness for particular purpose, whether written, oral, express, implied, or statutory. WesTech neither assumes nor authorizes any other person to assume for it any other liability with respect to its equipment. WesTech shall not be liable for normal wear and tear, corrosion, or any contingent, incidental, or consequential damage or expense due to partial or complete inoperability of its equipment for any reason whatsoever.

This warranty shall not apply to equipment or parts thereof which have been altered or repaired outside of a WesTech factory, or damaged by improper installation, application, or maintenance, or subjected to misuse, abuse, neglect, accident, or incomplete adherence to all manufacturer’s requirements, including, but not limited to, Operations & Maintenance Manual guidelines & procedures.

This warranty applies only to equipment made or sold by WesTech Engineering, LLC.

WesTech Engineering, LLC makes no warranty with respect to parts, accessories, or components purchased by the customer from others. The warranties which apply to such items are those offered by their respective manufacturers.

Terms & Conditions

Terms and Conditions appearing in any order based on this proposal which are inconsistent herewith shall not be binding on WesTech Engineering, LLC The sale and purchase of equipment described herein shall be governed exclusively by the foregoing proposal and the following provisions:

1. SPECIFICATIONS: WesTech Engineering, LLC is furnishing its standard equipment as outlined in the proposal and as will be covered by final approved drawings. The equipment may not be in strict compliance with the Engineer's/Owner's plans, specifications, or addenda as there may be deviations. The equipment will, however, meet the general intention of the mechanical specifications of these documents.

2. ITEMS INCLUDED: This proposal includes only the equipment specified herein and does not include erection, installation, accessories, nor associated materials such as controls, piping, etc., unless specifically listed.

3. PARTIES TO CONTRACT: WesTech Engineering, LLC is not a party to or bound by the terms of any contract between WesTech Engineering, LLC's customer and any other party. WesTech Engineering, LLC's undertakings are limited to those defined in the contract between WesTech Engineering, LLC and its direct customers.

4. PRICE AND DELIVERY: All selling prices quoted are subject to change without notice after 30 days from the date of this proposal unless specified otherwise. Unless otherwise stated, all prices are F.O.B. WesTech Engineering, LLC or its supplier's shipping points. All claims for damage, delay or shortage arising from such equipment shall be made by Purchaser directly against the carrier. When shipments are quoted F.O.B. job site or other designation, Purchaser shall inspect the equipment shipped, notifying WesTech Engineering, LLC of any damage or shortage within forty-eight hours of receipt, and failure to so notify WesTech Engineering, LLC shall constitute acceptance by Purchaser, relieving WesTech Engineering, LLC of any liability for shipping damages or shortages.

5. PAYMENTS: All invoices are net 30 days. Delinquencies are subject to a 1.5 percent service charge per month or the maximum permitted by law, whichever is less on all past due accounts. Pro rata payments are due as shipments are made. If shipments are delayed by the Purchaser, invoices shall be sent on the date when WesTech Engineering, LLC is prepared to make shipment and payment shall become due under standard invoicing terms. If the work to be performed hereunder is delayed by the Purchaser, payments shall be based on the purchase price and percentage of completion. Products held for the Purchaser shall be at the risk and expense of the Purchaser. Unless specifically stated otherwise, prices quoted are for equipment only. These terms are independent of and not contingent upon the time and manner in which the Purchaser receives payment from the owner.

6. PAYMENT TERMS: Credit is subject to acceptance by WesTech Engineering, LLC's Credit Department. If the financial condition of the Purchaser at any time is such as to give WesTech Engineering, LLC, in its judgment, doubt concerning the Purchaser's ability to pay, WesTech Engineering, LLC may require full or partial payment in advance or may suspend any further deliveries or continuance of the work to be performed by the WesTech Engineering, LLC until such payment has been received.

7. ESCALATION: If shipment is, for any reason, deferred by the Purchaser beyond the normal shipment date, or if material price increases are greater than 2.5% from proposal date to material procurement date, stated prices set forth herein are subject to escalation. The escalation shall be based upon increases in labor and material and other costs to WesTech Engineering, LLC that occur in the time period between quotation and shipment by WesTech Engineering, LLC Purchaser agrees to this potential escalation regardless of contradicting terms in the contract, except when an agreed upon escalation adder is included in the price.

(a) The total quoted revised price is based upon changes in the indices published by the United States Department of Labor, Bureau of Labor Statistics. Labor will be related to the Average Hourly Earnings indices found in the Employment and Earnings publication. Material will be related to the Metal and Metal Products Indices published in Wholesale Prices and Prices Indices.

(b) Price revision for items furnished to, and not manufactured by WesTech Engineering, LLC, which exceed the above escalation calculation, will be passed along by WesTech Engineering, LLC to Purchaser based upon the actual increase in price to WesTech Engineering, LLC for the period from the date of quotation to the date of shipment by WesTech Engineering, LLC Any item that is so revised will be excluded from the index escalation calculations set forth in subparagraph (a) above.

8. APPROVAL: If approval of equipment submittals by Purchaser or others is required, a condition precedent to WesTech Engineering, LLC supplying any equipment shall be such complete approval.

9. INSTALLATION SUPERVISION: Prices quoted for equipment do not include installation supervision. WesTech Engineering, LLC recommends and will, upon request, make available, at WesTech Engineering, LLC's then current rate, an experienced installation supervisor to act as the Purchaser's employee and agent to supervise installation of the equipment. Purchaser shall at its sole expense furnish all necessary labor equipment, and materials needed for installation.

Responsibility for proper operation of equipment, if not installed by WesTech Engineering, LLC or installed in accordance with WesTech Engineering, LLC's instructions, and inspected and accepted in writing by WesTech Engineering, LLC, rests entirely with Purchaser; and any work performed by WesTech Engineering, LLC personnel in making adjustment or changes must be paid for at WesTech Engineering, LLC's then current per diem rates plus living and traveling expenses.

WesTech Engineering, LLC will supply the safety devices described in this proposal or shown in WesTech Engineering, LLC's drawings furnished as part of this order but excepting these, WesTech Engineering, LLC shall not be required to supply or install any safety devices whether required by law or otherwise. The Purchaser hereby agrees to indemnify and hold harmless WesTech Engineering, LLC from any claims or losses arising due to alleged or actual insufficiency or inadequacy of the safety devices offered or supplied hereunder, whether specified by WesTech Engineering, LLC or Purchaser, and from any damage resulting from the use of the equipment supplied hereunder.

10. ACCEPTANCE OF PRODUCTS: Products will be deemed accepted without any claim by Purchaser unless written notice of non-acceptance is received by WesTech Engineering, LLC within 30 days of delivery if shipped F.O.B. point of shipment, or 48 hours of delivery if shipped F.O.B. point of destination. Such written notice shall not be considered received by WesTech Engineering, LLC unless it is accompanied by all freight bills for said shipment, with Purchaser's notations as to damages, shortages and conditions of equipment, containers, and seals. Non-accepted products are subject to the return policy stated below.

11. TAXES: Any federal, state, or local sales, use or other taxes applicable to this transaction, unless specifically included in the price, shall be for Purchaser's account.

12. TITLE: The equipment specified herein, and any replacements or substitutes therefore shall, regardless of the manner in which affixed to or used in connection with realty, remain the sole and personal property of WesTech Engineering, LLC until the full purchase price has been paid. Purchaser agrees to do all things necessary to protect and maintain WesTech Engineering, LLC's title and interest in and to such equipment; and upon Purchaser's default, WesTech Engineering, LLC may retain as liquidated damages any and all partial payments made and shall be free to enter the premises where such equipment is located and remove the same as its property without prejudice to any further claims on account of damages or loss which WesTech Engineering, LLC may suffer from any cause.

13. INSURANCE: From date of shipment until the invoice is paid in full, Purchaser agrees to provide and maintain at its expense, but for WesTech Engineering, LLC's benefit, adequate insurance including, but not limited to, builders risk insurance on the equipment against any loss of any nature whatsoever.

14. SHIPMENTS: Any shipment of delivery dates recited represent WesTech Engineering, LLC's best estimate but no liability, direct or indirect, is assumed by WesTech Engineering, LLC for failure to ship or deliver on such dates.

WesTech Engineering, LLC shall have the right to make partial shipments; and invoices covering the same shall be due and payable by Purchaser in accordance with the payment terms thereof. If Purchaser defaults in any payment when due hereunder, WesTech Engineering, LLC may, without incurring any liability therefore to Purchaser or Purchaser's customers, declare all payments immediately due and payable with maximum legal interest thereon from due date of said payment, and at its option, stop all further work and shipments until all past due payments have been made, and/or require that any further deliveries be paid for prior to shipment.

If Purchaser requests postponements of shipments, the purchase price shall be due and payable upon notice from WesTech Engineering, LLC that the equipment is ready for shipment; and thereafter any storage or other charge WesTech Engineering, LLC incurs on account of the equipment shall be for the Purchaser's account.

If delivery is specified at a point other than WesTech Engineering, LLC or its supplier's shipping points, and delivery is postponed or prevented by strike, accident, embargo, or other cause beyond WesTech Engineering, LLC's reasonable control and occurring at a location other than WesTech Engineering, LLC or its supplier's shipping points, WesTech Engineering, LLC assumes no liability in delivery delay. If Purchaser refuses such delivery, WesTech Engineering, LLC may store the equipment at Purchaser's expense. For all purposes of this agreement such tender of delivery or storage shall constitute delivery.

15. WARRANTY: WESTECH ENGINEERING, LLC WARRANTS EQUIPMENT IT SUPPLIES ONLY IN ACCORDANCE WITH THE WARRANTY EXPRESSED IN THE ATTACHED COPY OF "WESTECH WARRANTY" AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS WHICH IS MADE A PART HEREOF. SUCH WARRANTY IN LIEU OF ALL OTHER WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, WHETHER WRITTEN, ORAL, EXPRESSED, IMPLIED OR STATUTORY, WESTECH ENGINEERING, LLC SHALL NOT BE LIABLE ANY CONTINGENT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES FOR ANY REASON WHATSOEVER.

16. PATENTS: WesTech Engineering, LLC agrees that it will, at its own expense, defend all suits or proceedings instituted against Purchaser and pay any award of damages assessed against it in such suits or proceedings, so far as the same are based on any claim that the said equipment or any part thereof constitutes an infringement of any apparatus patent of the United States issued at the date of this Agreement, provided WesTech Engineering, LLC is given prompt notice in writing of the institution or threatened institution of any suit or proceeding and is given full control of the defense, settlement, or compromise of any such action; and Purchaser agrees to give WesTech Engineering, LLC needed information, assistance, and authority to enable WesTech Engineering, LLC so to do. In the event said equipment is held or conceded to infringe such a patent, WesTech Engineering, LLC shall have the right at its sole option and expense to a) modify the equipment to be non-infringing, b) obtain for Purchaser the license to continue using said equipment, or c) accept return of the equipment and refund to the Purchaser the purchase price thereof less a reasonable charge for the use thereof. WesTech Engineering, LLC will reimburse Purchaser for actual out-of-pocket expenses, exclusive of legal fees, incurred in preparing such information and rendering such assistance at WesTech Engineering, LLC's request. The foregoing states the entire liability of WesTech Engineering, LLC, with respect to patent infringement; and except as otherwise agreed to in writing, WesTech Engineering, LLC assumes no responsibility for process patent infringement.

17. SURFACE PREPARATION AND PAINTING: If furnished, shop primer paint is intended to serve only as minimal protective finish. WesTech Engineering, LLC will not be responsible for the condition of primed or finish painted surfaces after equipment leaves its shops. Purchasers are invited to inspect paint in shops for proper preparation and application prior to shipment. WesTech Engineering, LLC assumes no responsibility for field surface preparation or touch-up of shipping damage to paint. Painting of fasteners and other touch-up to painted surfaces will be by Purchaser's painting contractor after mechanism installation.

Motors, gear motors, and other components not manufactured by WesTech Engineering, LLC will be painted with that manufacturer's standard paint system. It is WesTech Engineering, LLC's intention to ship major steel components as soon as fabricated, often before drive, motors, and other manufactured components. Unless Purchaser can ensure that shop primed steel shall be field painted within thirty (30) days after arrival at the job site, WesTech Engineering, LLC encourages the Purchaser to order these components without primer.

WesTech Engineering, LLC's prices are based on paints and surface preparations as outlined in the main body of this proposal. In the event that an alternate paint system is selected, WesTech Engineering, LLC requests that Purchaser's order advise of the paint selection. WesTech Engineering, LLC will then either adjust the price as may be necessary to comply or ship the material unpainted if compliance is not possible due to application problems or environmental controls.

18. CANCELLATION, SUSPENSION, OR DELAY: After acceptance by WesTech Engineering, LLC, this proposal, or Purchaser's order based on this proposal, shall be a firm agreement and is not subject to cancellation, suspension, or delay except upon payment by Purchaser of appropriate charges which shall include all costs incurred by WesTech Engineering, LLC to date of cancellation, suspension, or delay plus a reasonable profit. Additionally, all charges related to storage and/or resumption of work, at WesTech Engineering, LLC's plant or elsewhere, shall be for Purchaser's sole account; and all risks incidental to storage shall be assumed by Purchaser.

19. FORCE MAJEURE: Neither party hereto shall be liable to the other for default or delay in delivery caused by extreme weather or other act of God, strike or other labor shortage or disturbance, fire, accident, war or civil disturbance, act of government, pandemic, delay of carriers, failure of normal sources of supply, complete or partial shutdown of plant by reason of inability to attain sufficient raw materials or power, and/or other similar contingency beyond the reasonable control of the respective parties. The time for delivery specified herein shall be extended during the continuance of such conditions, or any other cause beyond such party's reasonable control.

20. RETURN OF PRODUCTS: No products may be returned to WesTech Engineering, LLC without WesTech Engineering, LLC's prior written

permission. Said permission may be withheld by WesTech Engineering, LLC at its sole discretion.

21. BACKCHARGES: WesTech Engineering, LLC will not approve or accept backcharges for labor, materials, or other costs incurred by Purchaser or others in modification, adjustment, service, or repair of WesTech Engineering, LLC-furnished materials unless such back charge has been authorized in advance in writing by a WesTech Engineering, LLC employee, by a WesTech Engineering, LLC purchase order, or work requisition signed by WesTech Engineering, LLC

22. INDEMNIFICATION: Purchaser agrees to indemnify WesTech Engineering, LLC from all costs incurred, including but not limited to court costs and reasonable attorney fees, from enforcing any provisions of this contract, including but not limited to breach of contract or costs incurred in collecting monies owed on this contract.

23. ENTIRE AGREEMENT: This proposal expresses the entire agreement between the parties hereto superseding any prior understandings, and is not subject to modification except by a writing signed by an authorized officer of each party.

24. MOTORS AND MOTOR DRIVES: In order to avoid shipment delays of WesTech Engineering, LLC equipment, the motor drives may be sent directly to the job site for installation by the equipment installer. Minor fit-up may be required.

25. EXTENDED STORAGE: Extended storage instructions will be part of information provided to shipment. If equipment installation and start-up is delayed more than 30 days, the provisions of the storage instructions must be followed to keep WARRANTY in force.

26. LIABILITY: Professional liability insurance, including but not limited to, errors and omissions insurance, is included. In any event, liability for errors and omissions shall be limited to the lesser of $100,000USD or the value of the particular piece of equipment (not the value of the entire order) supplied by WesTech Engineering, LLC against which a claim is sought.

27. ARBITRATION NEGOTIATION: Any controversy or claim arising out of or relating to the performance of any contract resulting from this proposal or contract issued, or the breach thereof, shall be settled by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association, and judgment upon the award rendered by the arbitrator(s) may be entered to any court having jurisdiction.

ACCEPTED BY PURCHASER

Customer Name: _____

Customer Address: _____

_____

_____

Contact Name: _____

Contact Phone: _____

Contact Email: _____

Signature: _____

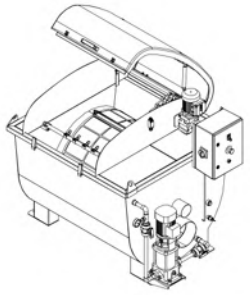
Printed Name: _____

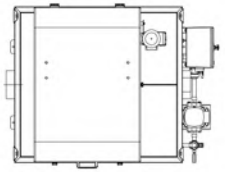
Title: _____

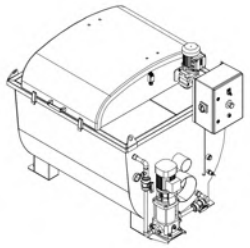
Date: _____

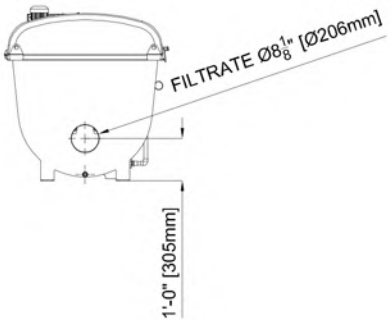
Supplemental Information

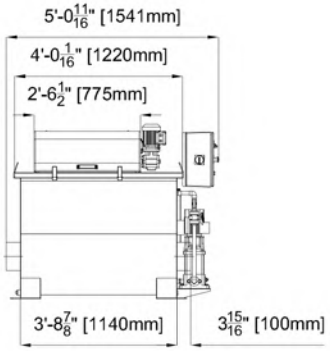
General Arrangement Drawing

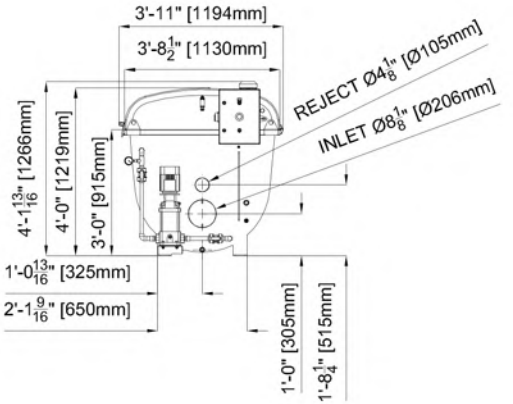


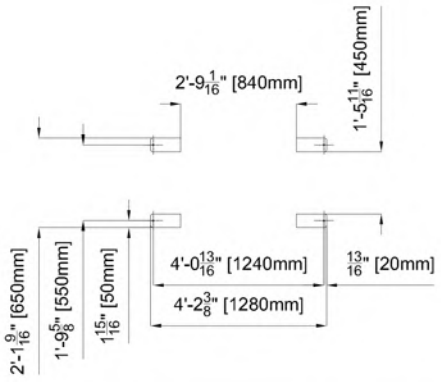












NOTES

1.

REV	REVISION DESCRIPTION	ECN	DESIGNER	APPROVER	DATE	REFERENCE DOCUMENTS

WESTECH

THIS DRAWING IS PROPERTY OF WESTECH ENGINEERING, INC. AND IS TRANSMITTED IN CONFIDENCE. NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN OR FOR ANY PURPOSE, WITHOUT THE WRITTEN PERMISSION OF WESTECH ENGINEERING, INC.

TITLE **SUPERDRUM - DIMENSIONAL DRAWING**
TDD0802

DESIGNER	CHECKER	APPROVER	DATE
VO00			2014-03-26

DOCUMENT NUMBER	SHEET	REV
XXXX	1 OF 1	-

M:\NWP Technology Transfer\SuperDisc\DynaDrum\Dimensional Drawings\TDD08XX\TDD0802_DD31001-1.dwg

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To: SD_newapps
Subject: Useppa Island Filters
Date: Friday, July 8, 2022 11:02:59 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
Minor Mod Useppa Filters.pdf
Useppa Filter Replacement Signed.pdf
Budget_2160295_x2.pdf

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Attached is a minor modification for the replacement of the filter at Useppa Island WWTP. Thanks,

Patrick Day, PE, BCEE
Utility Profit Center Manager
Main: 239.206.5093 | Direct: 239.206.5444 | Cell: 239.357.7194
pday@drmp.com
DRMP
1404 Dean Street, Suite 101, Ft. Myers, FL 33901

From: Patrick Day
Sent: Wednesday, July 06, 2022 12:14 PM
To: Moon, Nolin <Nolin.Moon@FloridaDEP.gov>
Subject: Useppa Island Filters

Nolin,

Over the years the sand filters at the Useppa Island WWTP have not been reliably functioning. As part of the last wastewater permit renewal we included in our Schedule of items that we would repair the filter. This repair ultimately meant switching from a sand filter to a disc filter. See attached drawings.

The new filter is about to be installed. But it just occurred to me that we had assumed that this was covered under the permit renewal. Does the Department need anything further or will the record drawings suffice?

Thanks,

Attachment 4-1
Communication Date 07/08/22

Patrick Day, PE, BCEE
Utility Profit Center Manager
Main: 239.206.5093 | Direct: 239.206.5444 | Cell: 239.357.7194
pday@drmp.com

DRMP

1404 Dean Street, Suite 101, Ft. Myers, FL 33901

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

February 2, 2022

Tim Fitzsimmons, Director of Engineering
Useppa Island Utilities
PO. Box 640
Bokeelia, FL 33122
tfitzsimmons@useppa.com

Notice of Acceptance to Use a General Permit
Lee County
Permit Number: 46025-001-DWC/CG
Project: Useppa Island Forcemain Replacement
Connected To: Useppa Island Utilities WWTP (FLA014494)

Dear Mr. Fitzsimmons,

This letter acknowledges receipt of your Notice of Intent to Use a General Permit for the Construction of a Wastewater Collection/Transmission System, pursuant to Rule 62-604.600, Florida Administrative Code, on January 4, 2022 (Notice). The proposed project includes installation of replacement of 3 existing lift stations and 1,400 LF 2" Sch. 80 PVC force main.

The Department does not object to your use of such a General Permit. The construction activities shall conform to the description contained in your Notice and any deviation may result in enforcement action and possible penalties. You have 5 years from the date of this letter to perform the work described in your Notice under this General Permit.

Please be advised that the attached requirements apply to your project for constructing a domestic wastewater/collection system pursuant to this General Permit.

Upon completion of construction of the project, and before placing the facilities into operation for any purpose other than testing for leaks or testing equipment operation, you shall submit Form 62-604.300(8)(b), Florida Administrative Code, to the Department's Business Portal at https://www.fldepportal.com/DepPortal/go/submit-registration.

Should you have any questions, please contact James Oni at (239) 344-5679 or by e-mail at james.oni@floridadep.gov.

Sincerely,

Megan Mills
Permitting Program Administrator

Attachment 4-1
Communication Date 02/02/22

South District

Attachments:

Specific Requirements for the Use of the General Permit for Domestic Wastewater Collection/Transmission Systems

Copies furnished to: Patrick J. Day, P.E. pday@drmp.com
Maureen Tomlinson mtomlinson@drmp.com

REQUIREMENTS FOR USE OF THE GENERAL PERMIT FOR DOMESTIC WASTEWATER COLLECTION/TRANSMISSION SYSTEMS:

1. This general permit is subject to the general permit conditions of Rule 62-4.540, Florida Administrative Code.

2. This general permit does not relieve the permittee of the responsibility for obtaining a dredge and fill permit where it is required [62-604.600(6)(b), Florida Administrative Code].

3. This general permit cannot be revised, except to transfer the permit [62-604.600(6)(b), Florida Administrative Code].

4. Abnormal events shall be reported to the Departments South District Office per Rule 62-604.550, F.A.C. For unauthorized spills of wastewater in excess of 1000 gallons per incident, or where information indicates that public health or the environment may be endangered, oral reports shall be provided to the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519 as soon as practical, but no later than 24 hours from the time the permittee or other designee becomes aware of the circumstances. Unauthorized releases or spills less than 1000 gallons per incident are to be reported orally to the Department's South District Office within 24 hours from the time the permittee, or other designee becomes aware of the circumstances [62-604.550, Florida Administrative Code].

5. The design and construction of the wastewater collection/transmission system shall be in accordance with provisions of Florida Administrative Code (F.A.C.) Rule 62-604 [62-604.300(1) and 62-604.400, Florida Administrative Code].

For your information: When any existing asbestos cement (AC) pipes are replaced, they shall be done so in accordance with the applicable rules of Federal Asbestos Regulation and Florida DEP requirements. For specific requirement applicable to AC pipes, please contact the Department prior to commencing any such activities. Please be aware that a notification is required to be submitted to the Department for a regulated project.

From: Maureen Tomlinson
To: Oni, James
Cc: Ross Hackethal; Patrick Day
Subject: RE: Useppa Island Forcemain Replacement 46025-001-DWC/CG
Date: Tuesday, February 1, 2022 8:52:22 AM
Attachments: image008.png
image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
DRMP_fdep_wastewater_permit_application_62-604.300_8a_22 0125pjd_tf.pdf

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

James,
Please see attached revise application.
See responses in red below.
I uploaded the plans to web address provided.

Maureen Tomlinson
Designer/Planner
Direct: 239.206.5352
mtomlinson@drmp.com

DRMP, Inc.
1404 Dean Street, Suite 101, Ft. Myers, FL 33901

From: Oni, James <James.Oni@FloridaDEP.gov>
Sent: Friday, January 28, 2022 1:00 PM
To: Maureen Tomlinson <MTomlinson@drmp.com>
Cc: Ross Hackethal <RHackethal@drmp.com>; Patrick Day <PDay@drmp.com>
Subject: RE: Useppa Island Forcemain Replacement 46025-001-DWC/CG

Patrick/Maureen,

Thank you for the information provided. I sent your request for a link to upload the plans to our admin. staff and let me know by the end of the day if anyone has contacted you or not. In the meantime since we're still using the old form we will stick with it for now and there are few missing information that we still need to address.

- You did not address item 'c' of the request below. Not sure why.

Item has been corrected on attached application

nd

Attachment 4-1
Communication Date 02/01/22

You did not address the 2 part of item 'd' which to complete the flow information for the wastewater treatment facility. You do not have to go back to Mr. Fitzsimmons for his signature again.

Flow information has been added. See attached revised application.

- You stated in your response to item 'f' that you will be using water-proof lid to meet the 25-yr flood elevation but not clear from your comment if you will also be using water-proof covering for the 100-yr flood elevation as well.

  Lift Station lids being used are water-proof, which we have used on previous lift stations with FDEP approval to meet 25 and 100 year flood.

  100-year flood plain elevation has been established 8.0' NAVD88'. The control panel will be constructed at Elevation of 8.0' NAVD88'. See revised plan sheets C105-C107.

We need to get all these issues resolved by next week Tuesday.

Thank you,
James

From: Maureen Tomlinson <MTomlinson@drmp.com>
Sent: Thursday, January 27, 2022 11:52 AM
To: Oni, James <James.Oni@FloridaDEP.gov>
Cc: Ross Hackethal <RHackethal@drmp.com>; Patrick Day <PDay@drmp.com>
Subject: RE: Useppa Island Forcemain Replacement 46025-001-DWC/CG

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

James,
The attached documents are in response to the email below. Our signed/Sealed plans are too large for email. Can you provide a link for upload?

Maureen Tomlinson
Designer/Planner
Direct: 239.206.5352
mtomlinson@drmp.com

DRMP, Inc.
1404 Dean Street, Suite 101, Ft. Myers, FL 33901

From: Oni, James <James.Oni@FloridaDEP.gov>
Sent: Thursday, January 20, 2022 4:38 PM
To: Patrick Day <PDay@drmp.com>
Subject: Useppa Island Forcemain Replacement 46025-001-DWC/CG

Patrick,

Thank you for the submittal of the referenced project. Please provide the following in order to complete the review of the project in accordance with F.A.C. 62-4.055:

a. Revise Part II(3), column G, page 2 of application by putting 35 gpm for the peak hour flow as you stated on the application.
b. X items 42 & 43, page 6 of application since they are not part of the design requirements. Include them on the explanation section B, page 9 of application.
c. Initial item 78, page 9 of application since the first sentence still apply to your project as part of the design requirement. Delete the item from the explanation section B, page 9 of application.
d. Is there any reason why the 3rd box in Part III(3), page 10 of application was checked? If this was an error, please remove the check and complete the flow information for the wastewater treatment facility permitted capacity.
e. Include a reduced pressure backflow assembly (RPBA) as part of the water service line going to the 3 lift stations. See design sheets # C-101 and C-102. Also, revise the hose bibb detail on sheet C-104 to include the RPBA as well.
f. Revise the lift stations details, sheets C-105 thru C-107 to include the 25-year and the 100-year flood elevation for the 3 lift stations.

Please have the information back to me by Friday, January 28 since this is a general permit application and we have a 30-day clock time deadline. Please sign, seal and date all revised documents.

O. James Oni
Professional Engineer
South District
james.oni@floridadep.gov

Florida Department of
Environmental Protection
2295 Victoria Avenue, Suite 364
P. O. Box 2549
Fort Myers, FL 33902-2549
Direct: 239-344-5679
Main: 239-344-5600

Florida Department of Environmental Protection

NOTIFICATION/APPLICATION FOR CONSTRUCTING A DOMESTIC WASTEWATER COLLECTION/TRANSMISSION SYSTEM

PART I - GENERAL

Subpart A: Permit Application Type

Permit Application Type (mark one only)	EDUs Served	Application Fee*	"X"
Are you applying for an individual permit for a domestic wastewater collection/transmission system? Note: an EDU is equal to 3.5 persons. Criteria for an individual permit are contained in Rule 62-604.600(7), F.A.C.	≥ 10	$500	
	< 10	$300	
Is this a Notice of Intent to use the general permit for wastewater collection/transmission systems? Criteria for qualifying for a general permit are contained in Rule 62-604.600(6), F.A.C. Projects not meeting the criteria in Rule 62-604.600(6), F.A.C., must apply for an individual permit.	N/A	$250	X

*Note: Each non-contiguous project (i.e., projects that are not interconnected or are not located on adjacent streets or in the same neighborhood) requires a separate application and fee.

Subpart B: Instructions

(1) This form shall be completed for all domestic wastewater collection/transmission system construction projects as follows:
- If this is a Notice of Intent to use the general permit, this notification shall be submitted to the Department **at least 30 days prior to initiating construction**.
- If this is an application for an individual permit, the permit must be obtained prior to initiating construction.

(2) One copy of the completed form shall be submitted to the appropriate DEP district office or delegated local program along with the appropriate fee, and one copy of the following supporting documents. Checks should be made payable to the Florida Department of Environmental Protection, or the name of the appropriate delegated local program.

- If this is a Notice of Intent to use the general permit, attach a site plan or sketch showing the size and approximate location of new or altered gravity sewers, pump stations and force mains; showing the approximate location of manholes and isolation valves; and showing how the proposed project ties into the existing or proposed wastewater facilities. The site plan or sketch shall be signed and sealed by a professional engineer registered in Florida.
- If this is an application for an individual permit, one set of plans and specifications shall be submitted with this application, or alternatively, an engineering report shall be submitted. Plans and specifications and engineering reports shall be prepared in accordance with the applicable provisions of Chapters 10 and 20 of *Recommended Standards for Wastewater Facilities*. The plans and specifications or engineering report shall be signed and sealed by a Professional Engineer registered in Florida.

(3) All information shall be typed or printed in ink. Where attached sheets (or other technical documentation) are utilized in lieu of the blank spaces provided, indicate appropriate cross-references on the form. For Items (1) through (4) of Part II of this application form, if an item is not applicable to your project, indicate "NA" in the appropriate space provided.

PART II – PROJECT DOCUMENTATION

(1) Collection/Transmission System Permittee

Name Tim Fitzsimmons Title

Company Name Useppa Island Utilities

Address P.O. Box 640

City Bokeelia State FL Zip 33122

Telephone 239-283-1061 Fax Email tfitzsimmons@useppa.com

(2) General Project Information

Project Name Useppa Island Forcemain Replacement

Location: County Lee City Useppa Island Section 9 Township 44 Range 21

Project Description and Purpose (including pipe length, range of pipe diameter, total number of manholes, and total number of pump stations):

This project is for the replacement of 3 existing lift stations and appx 1400 lf of 2" SCH80 PVC forcemain

Estimated date for: Start of construction Feb 2022 Completion of construction Nov 2022

Connections to existing system or treatment plant

(3) Project Capacity

A = Type of Unit	B = Number of Units	C = Population Per Unit	D = Total Population (Columns B x C)	E = Per Capita Flow	F = Total Average Daily Flow (Columns D x E)	G = Peak hour flow
Single-Family Home	7	2.5	18	100	1800	35
Mobile Home						
Apartment						
Commercial, Institutional, or Industrial Facility*						
Total					1800	35

* Description of commercial, institutional, and industrial facilities and explanation of method used to estimate per capita flow for these facilities:

This project is a direct replacement for the existing forcemain with no changes in water demand or pumping. Using the 10 State Standard the Peaking Factor is 4 but due to the small amount of flow a much higher peak was assumed with each of the 7 houses all having the shower and toilet on at the same time which equals 35 gpm.

(4) Pump Station Data (attached additional sheets as necessary)

		Estimated Flow to the Station (GPD)			
Location	Type	Maximum	Average	Minimum	Operating Conditions [GPM @ FT (TDH)]
North	Grinder	35	1.25	N/A	39 GPM @ 80 TDH
Central	Grinder	10	.3	N/A	43 GPM @ 50 TDH
South	Grinder	15	.5	N/A	42 GPM @ 70 TDH

(5) Collection/Transmission System Design Information

A. This information must be completed for all projects by the applicant's professional engineer, and if applicable, those professional engineers in other disciplines who assisted with the design of the project.

If this project has been designed to comply with the standards and criteria listed below, the engineer shall initial in ink before the standards or criteria. If any of the standards or criteria do not apply to this project or if this project has not been designed to comply with the standards or criteria, mark "X" before the appropriate standard or criteria and provide an explanation, including any applicable rule references, in (5)B. below.

Note, if the project has not been designed in accordance with the standards and criteria set forth in Rules 62-604.400(1) and (2), F.A.C., an application for an individual permit shall be submitted. However, if Rules 62-604.400(1) and (2), F.A.C., specifically allow for another alternative that will result in an equivalent level of reliability and public health protection, the project can be constructed using the general permit.

General Requirements

PJD 1. The project is designed based on an average daily flow of 100 gallons per capita plus wastewater flow from industrial plants and major institutional and commercial facilities unless water use data or other justification is used to better estimate the flow. The design includes an appropriate peaking factor, which covers I/I contributions and non-wastewater connections to those service lines. [RSWF 11.243]

PJD 2. Procedures are specified for operation of the collection/transmission system during construction. [RSWF 20.15]

PJD 3. The project is designed to be located on public right-of-ways, land owned by the permittee, or easements and to be located no closer than 100 feet from a public drinking water supply well and no closer than 75 feet from a private drinking water supply well; or documentation is provided in Part II.(5)B., showing that another alternative will result in an equivalent level of reliability and public health protection. [62-604.400(1)(b) and (c), F.A.C.]

PJD 4. The project is designed with no physical connections between a public or private potable water supply system and a sewer or force main and with no water pipes passing through or coming into contact with any part of a sewer manhole. [RSFW 38.1 and 48.5]

PJD 5. The project is designed to preclude the deliberate introduction of storm water, surface water, groundwater, roof runoff, subsurface drainage, swimming pool drainage, air conditioning system condensate water, non-contact cooling water except as provided by Rule 62-610.668(1), F.A.C., and sources of uncontaminated wastewater, except to augment the supply of reclaimed water in accordance with Rule 62-610.472(3)(c), F.A.C. [62-604.400(1)(d), F.A.C.]

PJD 6. The project is designed so that all new or relocated, buried sewers and force mains, are located in accordance with the separation requirements from water mains and reclaimed water lines of Rules 62-604.400(2)(g)(h) and (i) and (3), F.A.C. Note, if the criteria of Rules 62-604.400(2)(g) 4. or (2)(i) 3., F.A.C., are used, describe in Part II.(5)B~~C~~. alternative construction features that will be provided to afford a similar level of reliability and public health protection. [62-604.400(2)(g), (h), and (i) and (3), F.A.C.]

Gravity Sewers

X 7. The project is designed with no public gravity sewer conveying raw wastewater less than 8 inches in diameter. [RSWF 33.1]

X 8. The design considers buoyancy of sewers, and appropriate construction techniques are specified to prevent flotation of the pipe where high groundwater conditions are anticipated. [RSWF 33.3}

X 9. All sewers are designed with slopes to give mean velocities, when flowing full, of not less than 2.0 feet per second, based on Manning's formula using an “n" value of 0.013; or if it is not practicable to maintain these minimum slopes and the depth of flow will be 0.3 of the diameter or greater for design average flow, the owner of the system has been notified that additional sewer maintenance will be required. The pipe diameter and slope are selected to obtain the greatest practical velocities to minimize solids deposition problems. Oversized sewers are not specified to justify flatter slopes. [RSWF 33.41, 33.42, and 33.43]

X 10. Sewers are designed with uniform slope between manholes. [RWSF 33.44]

X 11. Where velocities greater than 15 fps are designed, provisions to protect against displacement by erosion and impact are specified. [RSWF 33.45]

X 12. Sewers on 20% slopes or greater are designed to be anchored securely with concrete, or equal, anchors spaced as follows: not over 36 feet center to center on grades 20% and up to 35%; not over 24 feet center to center on grades 35% and up to 50%; and not over 16 feet center to center on grades 50% and over. [RSWF 33.46]

X 13. Sewers 24 inches or less are designed with straight alignment between manholes. Where curvilinear sewers are proposed for sewers greater than 24 inches, the design specifies compression joints; ASTM or specific pipe manufacturer's maximum allowable pipe joint deflection limits are not exceeded; and curvilinear sewers are limited to simple curves which start and end at manholes. [RSWF 33.5]

X 14. Suitable couplings complying with ASTM specifications are required for joining dissimilar materials. [RSWF 33.7]

X 15. Sewers are designed to prevent damage from superimposed loads. [RSWF 33.7]

X 16. Appropriate specifications for the pipe and methods of bedding and backfilling are provided so as not to damage the pipe or its joints, impede cleaning operations and future tapping, nor create excessive side fill pressures and ovalation of the pipe, nor seriously impair flow capacity. [RSWF 33.81]

X 17. Appropriate deflection tests are specified for all flexible pipe. Testing is required after the final backfill has been in place at least 30 days to permit stabilization of the soil-pipe system. Testing requirements specify: 1) no pipe shall exceed a deflection of 5%; 2) using a rigid ball or mandrel for the deflection test with a diameter not less than 95% of the base inside diameter or average inside diameter of the pipe, depending on which is specified in the ASTM specification, including the appendix, to which the pipe is manufactured; and 3) performing the test without mechanical pulling devices. [RSWF 33.85]

X 18. Leakage tests are specified requiring that: 1) the leakage exfiltration or infiltration does not exceed 200 gallons per inch of pipe diameter per mile per day for any section of the system; 2) exfiltration or infiltration tests be performed with a minimum positive head of 2 feet; and 3) air tests, as a minimum, conform to the test procedure described in ASTM C-828 for clay pipe, ASTM C 924 for concrete pipe, ASTM F-1417 for plastic pipe, and for other materials appropriate test procedures. [RSWF 33.93, 33.94, and 33.95]

X 19. If an inverted siphon is proposed, documentation of its need is provided in Part II.(5)B~~C~~. Inverted siphons are designed with: 1) at least two barrels; 2) a minimum pipe size of 6 inches; 3) necessary appurtenances for maintenance, convenient flushing, and cleaning equipment; and 4) inlet and discharge structures having adequate clearances for cleaning equipment, inspection, and flushing. Design provides sufficient head and appropriate pipe sizes to secure velocities of at least 3.0 fps for design average flows. The inlet and outlet are designed so that the design average flow may be diverted to one barrel, and that either barrel may be cut out of service for cleaning. [RSWF 35]

Manholes

X 20. The project is designed with manholes at the end of each line; at all changes in grade, size, or alignment; at all intersections; and at distances not greater than 400 feet for sewers 15 inches or less and 500 feet for sewers 18 inches to 30 inches, except in the case where adequate modern cleaning equipment is available at distances not greater than 600 feet. [RSWF 34.1]

X 21. Design requires drop pipes to be provided for sewers entering manholes at elevations of 24 inches or more above the manhole invert. Where the difference in elevation between the incoming sewer and the manhole invert is less than 24 inches, the invert is designed with a fillet to prevent solids deposition. Inside drop connections (when necessary) are designed to be secured to the interior wall of the manhole and provide access for cleaning. Design requires the entire outside drop connection be encased in concrete. [RSWF 34.2]

X 22. Manholes are designed with a minimum diameter of 48 inches and a minimum access diameter of 22 inches. [RSWF 34.3]

X 23. Design requires that a bench be provided on each side of any manhole channel when the pipe diameter(s) are less than the manhole diameter and that no lateral sewer, service connection, or drop manhole pipe discharges onto the surface of the bench. [RSWF 34.5]

X 24. Design requires: 1) manhole lift holes and grade adjustment rings be sealed with non-shrinking mortar or other appropriate material; 2) inlet and outlet pipes be joined to the manhole with a gasketed flexible watertight connection or another watertight connection arrangement that allows differential settlement of the pipe and manhole wall; and 3) watertight manhole covers be used wherever the manhole tops may be flooded by street runoff or high water. [RSWF 34.6]

X 25. Manhole inspection and testing for watertightness or damage prior to placing into service are specified. Air testing, if specified for concrete sewer manholes, conforms to the test procedures described in ASTM C-1244. [RSWF 34.7]

X 26. Electrical equipment specified for use in manholes is consistent with Item 46 of this checklist. [RSWF 34.9]

Stream Crossings

X 27. Sewers and force mains entering or crossing streams are designed to be constructed of ductile iron pipe with mechanical joints or so they will remain watertight and free from changes in alignment or grade. Appropriate materials which will not readily erode, cause siltation, damage pipe during placement, or corrode the pipe are specified to backfill the trench. [RSWF 36.21 and 48.5]

X 28. Stream crossings are designed to incorporate valves or other flow regulating devices (which may include pump stations) on the shoreline or at such distances from ~~form~~ the shoreline to prevent discharge in the event the line is damaged. [62-604.400(2)(k)5., F.A.C.]

X 29. Sewers and force mains entering or crossing streams are designed at a sufficient depth below the natural bottom of the stream bed to protect the line. At a minimum, the project is designed with subaqueous lines to be buried at least three feet below the design or actual bottom, whichever is deeper, of a canal and other dredged waterway or the natural bottom of streams, rivers, estuaries, bays, and other natural water bodies; or if it is not practicable to design the project with less than three-foot minimum cover, alternative construction features (e.g. a concrete cap, sleeve, or some other properly engineered device to insure adequate protection of the line) are described in Part II.C. [62-604.400(2)(k)1., F.A.C., and RSWF 36.11]

X 30. Specifications require permanent warning signs be placed on the banks of canals, streams, and rivers clearly identifying the nature and location (including depths below design or natural bottom) of subaqueous crossings and suitably fixed signs be placed at the shore, for subaqueous crossings of lakes, bays, and other large bodies of water, and in any area where anchoring is normally expected. [62-604.400(2)(k)2., F.A.C.]

X 31. Provisions for testing the integrity of subaqueous lines are specified. [62-604.400(2)(k)4., F.A.C.]

X 32. Supports are designed for all joints in pipes utilized for aerial crossings and to prevent overturning and settlement. Expansion jointing is specified between above ground and below ground sewers and force mains. The design considers the impact of floodwaters and debris. [RSWF 37 and 48.5]

X 33. Aerial crossings are designed to maintain existing or required navigational capabilities within the waterway and to reserve riparian rights of adjacent property owners. [62-604.400(2)(k)3., F.A.C.]

Pump Stations

PJD 34. In areas with high water tables, pump stations are designed to withstand flotation forces when empty. When siting the pump station, the design considers the potential for damage or interruption of operation because of flooding. Pump station structures and electrical and mechanical equipment are designed to be protected from physical damage by the 100-year flood. Pump stations are designed to remain fully operational and accessible during the 25-year flood unless lesser flood levels are appropriate based on local considerations, but not less than the 10-year flood. [62-604.400(2)(e), F.A.C.]

PJD 35. Pump stations are designed to be readily accessible by maintenance vehicles during all weather conditions. [RSWF 41.2]

PJD 36. Wet well and pump station piping is designed to avoid operational problems from the accumulation of grit. [RSWF 41.3]

X 37. Dry wells, including their superstructure, are designed to be completely separated from the wet well. Common walls are designed to be gas tight. [RSWF 42.21]

PJD 38. The design includes provisions to facilitate removing pumps, motors, and other mechanical and electrical equipment. [RSWF 42.22]

X 39. The design includes provisions for: 1) suitable and safe means of access for persons wearing self-contained breathing apparatus are provided to dry wells, and to wet wells; 2) stairway access to wet wells more than 4 feet deep containing either bar screens or mechanical equipment requiring inspection or maintenance; 3) for built-in-place pump stations, a stairway to the dry well with rest landings at vertical intervals not to exceed 12 feet; 4) for factory-built pump stations over 15 feet deep, a rigidly fixed landing at vertical intervals not to exceed 10 feet unless a manlift or elevator is provided; and 5) where a landing is used, a suitable and rigidly fixed barrier to prevent an individual from falling past the intermediate landing to a lower level. If a manlift or elevator is provided, emergency access is included in the design. [RSWF 42.23]

PJD 40. Specified construction materials are appropriate under conditions of exposure to hydrogen sulfide and other corrosive gases, greases, oils, and other constituents frequently present in wastewater. [RSWF 42.25]

PJD 41. Except for low-pressure grinder or STEP systems, multiple pumps are specified, and each pump has an individual intake. Where only two units are specified, they are of the same size. Specified units have capacity such that, with any unit out of service, the remaining units will have capacity to handle the design peak hourly flow. [RSWF 42.31 and 42.36]

X 42. Bar racks are specified for pumps handling wastewater from 30 inch or larger diameter sewers. Where a bar rack is specified, a mechanical hoist is also provided. The design includes provisions for appropriate protection from clogging for small pump stations. [RSWF 42.322]

X 43. Pumps handling raw wastewater are designed to pass spheres of at least 3 inches in diameter. Pump suction and discharge openings are designed to be at least 4 inches in diameter. [RSWF 42.33] (Note, this provision is not applicable to grinder pumps.)

PJD 44. The design requires pumps be placed such that under normal operating conditions they will operate under a positive suction head, unless pumps are suction-lift pumps. [RSWF 42.34]

PJD 45. The design requires: 1) pump stations be protected from lightning and transient voltage surges; and 2) pump stations be equipped with lighting arrestors, surge capacitors, or other similar protection devices and phase protection. Note, pump stations serving a single building are not required to provide surge protection devices if not necessary to protect the pump station. [62-604.400(2)(b), F.A.C.]

PJD 46. The design requires 1) electrical systems and components (e.g., motors, lights, cables, conduits, switch boxes, control circuits, etc.) in raw wastewater wet wells, or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors may be present, comply with the National Electrical Code requirements for Class I Group D, Division 1 locations; 2) electrical equipment located in wet wells be suitable for use under corrosive conditions; 3) each flexible cable be provided with a watertight seal and separate strain relief; 4) a fused disconnect switch located above ground be provided for the main power feed for all pump stations; 5) electrical equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4; 6) a 110 volt power receptacle to facilitate maintenance be provided inside the control panel for pump stations that have control panels outdoors; and 7) ground fault interruption protection be provided for all outdoor outlets. [RSWF 42.35]

X 47. The design requires a sump pump equipped with dual check valves be provided in dry wells to remove leakage or drainage with discharge above the maximum high water level of the wet well. [RSWF 42.37]

PJD 48. Pump station design capacities are based on the peak hourly flow and are adequate to maintain a minimum velocity of 2 feet per second in the force main. [RSWF 42.38]

PJD 49. The design includes provisions to automatically alternate the pumps in use. [RSWF 42.4]

PJD 50. The design requires: 1) suitable shutoff valves be placed on the suction line of dry pit pumps; 2) suitable shutoff and check valves be placed on the discharge line of each pump (except on screw pumps); 3) a check valve be located between the shutoff valve and the pump; 4) check valves be suitable for the material being handled; 5) check valves be placed on the horizontal portion of discharge piping (except for ball checks, which may be placed in the vertical run); 6) all valves be capable of withstanding normal pressure and water hammer; and 7) all shutoff and check valves be operable from the floor level and accessible for maintenance. [RSWF 42.5]

PJD 51. The effective volume of wet wells is based on design average flows and a filling time not to exceed 30 minutes unless the facility is designed to provide flow equalization. The pump manufacturer's duty cycle recommendations were utilized in selecting the minimum cycle time. [RSWF 42.62]

PJD 52. The design requires wet well floors have a minimum slope of 1 to 1 to the hopper bottom and the horizontal area of hopper bottoms be no greater than necessary for proper installation and function of the inlet. [RSWF 42.63]

PJD 53. For covered wet wells, the design provides for air displacement to the atmosphere, such as an inverted "j" tube or other means. [RSWF 42.64]

PJD 54. The design provides for adequate ventilation all pump stations; mechanical ventilation where the dry well is below the ground surface; permanently installed ventilation if screens or mechanical equipment requiring maintenance or inspection are located in the wet well. Pump stations are designed with no interconnection between the wet well and dry well ventilation systems. [RSWF 42.71]

X 55. The design requires all intermittently operated ventilation equipment to be interconnected with the respective pit lighting system and the manual lighting/ventilation switch to override the automatic controls. [RSWF 42.73]

X 56. The design requires the fan wheels of ventilation systems be fabricated from non-sparking material and automatic heating and dehumidification equipment be provided in all dry wells. [RSWF 42.74]

X 57. If wet well ventilation is continuous, design provides for at least 12 complete 100% fresh air changes per hour; if wet well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour; and design requires air to be forced into wet wells by mechanical means rather than solely exhausted from the wet well. [RSWF 42.75]

X 58. If dry well ventilation is continuous, design provides at least 6 complete 100% fresh air changes per hour; and dry well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour, unless a system of two speed ventilation with an initial ventilation rate of 30 changes per hour for 10 minutes and automatic switch over to 6 changes per hour is used to conserve heat. [RSWF 42.76]

PJD 59. Pump stations are designed and located on the site to minimize adverse effects from odors, noise, and lighting. [62-604.400(2)(c), F.A.C.]

PJD 60. The design requires pump stations be enclosed with a fence or otherwise designed with appropriate features to discourage the entry of animals and unauthorized persons. Posting of an unobstructed sign made of durable weather resistant material at a location visible to the public with a telephone number for a point of contact in case of emergency is specified. [62-604.400(2)(d), F.A.C.]

PJD 61. The design requires suitable devices for measuring wastewater flow at all pump stations. Indicating, totalizing, and recording flow measurement are specified for pump stations with a 1200 gpm or greater design peak flow. [RSWF 42.8]

PJD 62. The project is designed with no physical connections between any potable water supplies and pump stations. If a potable water supply is brought to a station, reduced-pressure principle backflow-prevention assemblies are specified. [RSWF 42.9 and 62-555.30(4), F.A.C.]

Additional Items to be Completed for Suction-Lift Pump Stations

X 63. The design requires all suction-lift pumps to be either self-priming or vacuum-priming and the combined total of dynamic suction-lift at the "pump off" elevation and required net positive suction head at design operating conditions not to exceed 22 feet. For self-priming pumps, the design requires: 1) pumps be capable of rapid priming and repriming at the "lead pump on" elevation with self-priming and repriming accomplished automatically under design operating conditions; 2) suction piping not to exceed the size of the pump suction or 25 feet in total length; and 3) priming lift at the "lead pump on" elevation to include a safety factor of at least 4 feet from the maximum allowable priming lift for the specific equipment at design operating conditions. For vacuum-priming pump stations, the design requires dual vacuum pumps capable of automatically and completely removing air from the suction-lift pumps and the vacuum pumps be adequately protected from damage due to wastewater. [RSWF 43.1]

X 64. The design requires: 1) suction-lift pump equipment compartments to be above grade or offset and to be effectively isolated from the wet well to prevent a hazardous and corrosive sewer atmosphere from entering the equipment compartment; 2) wet well access not to be through the equipment compartment and to be at least 24 inches in diameter; 3) gasketed replacement plates be provided to cover the opening to the wet well for pump units to be remove for service; and 4) no valving be located in the wet well. [RSWF 43.2]

Additional Items to be Completed for Submersible Pump Stations

PJD 65. Submersible pumps and motors are designed specifically for raw wastewater use, including totally submerged operation during a portion of each pump cycle and to meet the requirements of the National Electrical Code for such units. Provisions for detecting shaft seal failure or potential seal failure are included in the design. [RSWF 44.1]

PJD 66. The design requires submersible pumps be readily removable and replaceable without dewatering the wet well or disconnecting any piping in the wet well. [RSWF 44.2]

PJD 67. In submersible pump stations, electrical supply, control, and alarm circuits are designed to provide strain relief; to allow disconnection from outside the wet well; and to protect terminals and connectors from corrosion by location outside the wet well or through use of watertight seals. [RSWF 44.31]

PJD 68. In submersible pump stations, the design requires the motor control center to be located outside the wet well, readily accessible, and protected by a conduit seal or other appropriate measures meeting the requirements of the National Electrical Code, to prevent the atmosphere of the wet well from gaining access to the control center. If a seal is specified, the motor can be removed and electrically disconnected without disturbing the seal. The design requires control equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4. [RSWF 44.32]

PJD 69. In submersible pump stations, the design requires: 1) pump motor power cords be flexible and serviceable under conditions of extra hard usage and to meet the requirements of the National Electrical Code standards for flexible cords in wastewater pump stations; 2) ground fault interruption protection be used to de-energize the circuit in the event of any failure in the electrical integrity of the cable; and 3) power cord terminal fittings be corrosion-resistant and constructed in a manner to prevent the entry of moisture into the cable, provided with strain relief appurtenances, and designed to facilitate field connecting. [RSWF 44.33]

PJD 70. In submersible pump stations, the design requires all shut-off and check valves be located in a separate valve pit. Provisions to remove or drain accumulated water from the valve pit are included in the design. [RSWF 44.4]

Emergency Operations for Pump Stations

PJD 71. Pump stations are designed with an alarm system which activates in cases of power failure, sump pump failure, pump failure, unauthorized entry, or any cause of pump station malfunction. Pump station alarms are designed to be telemetered to a facility that is manned 24 hours a day. If such a facility is not available and a 24-hour holding capacity is not provided, the alarm is designed to be telemetered to utility offices during normal working hours and to the home of the responsible person(s) in charge of the lift station during off-duty hours. Note, if an audio-visual alarm system with a self-contained power supply is provided in lieu of a telemetered system, documentation is provided in Part II.(5)B~~C~~. showing an equivalent level of reliability and public health protection. [RSWF 45]

PJD 72. The design requires emergency pumping capability be provided for all pump stations. For pump stations that receive flow from one or more pump stations through a force main or pump stations discharging through pipes 12 inches or larger, the design requires uninterrupted pumping capability be provided, including an in-place emergency generator. Where portable pumping and/or generating equipment or manual transfer is used, the design includes sufficient storage capacity with an alarm system to allow time for detection of pump station failure and transportation and connection of emergency equipment. [62-604.400(2)(a)1. and 2., F.A.C., and RSWF 46.423 and 46.433]

PJD 73. The design requires: 1) emergency standby systems to have sufficient capacity to start up and maintain the total rated running capacity of the station, including lighting, ventilation, and other auxiliary equipment necessary for safety and proper operation; 2) special sequencing controls be provided to start pump motors unless the generating equipment has capacity to start all pumps simultaneously with auxiliary equipment operating; 3) a riser from the force main with rapid connection capabilities and appropriate valving be provided for all pump stations to hook up portable pumps; and 4) all pump station reliability design features be compatible with the available temporary service power generating and pumping equipment of the authority responsible for operation and maintenance of the collection/transmission system. [62-604.400(2)(a)3., F.A.C., and RSWF 46.431]

PJD 74. The design provides for emergency equipment to be protected from operation conditions that would result in damage to the equipment and from damage at the restoration of regular electrical power. [RSWF 46.411, 46.417, and 46.432]

X 75. For permanently-installed internal combustion engines, underground fuel storage and piping facilities are designed in accordance with applicable state and federal regulations; and the design requires engines to be located above grade with adequate ventilation of fuel vapors and exhaust gases. [RSWF 46.414 and 46.415]

X 76. For permanently-installed or portable engine-driven pumps are used, the design includes provisions for manual start-up. [RSWF 46.422]

X 77. Where independent substations are used for emergency power, each separate substation and its associated transmission lines is designed to be capable of starting and operating the pump station at its rated capacity. [RSWF 46.44]

Force Mains

PJD 78. Force mains are designed to maintain, at design pumping rates, a cleansing velocity of at least 2 feet per second. The minimum force main diameter specified for raw wastewater is not less than 4 inches. [RSWF 48.1]

PJD 79. The design requires: 1) branches of intersecting force mains be provided with appropriate valves such that one branch may be shut down for maintenance and repair without interrupting the flow of other branches; and 2) stubouts on force mains, placed in anticipation of future connections, be equipped with a valve to allow such connection without interruption of service. [62-604.400(2)(f), F.A.C.]

X 80. The design requires air relief valves be placed at high points in the force main to prevent air locking. [RSWF 48.2]

PJD 81. Specified force main pipe and joints are equal to water main strength materials suitable for design conditions. The force main, reaction blocking, and station piping are designed to withstand water hammer pressures and stresses associated with the cycling of wastewater pump stations. [RSWF 48.4]

PJD 82. When the Hazen and Williams formula is used to calculate friction losses through force mains, the value for "C" is 100 for unlined iron or steel pipe for design. For other smooth pipe materials, such as PVC, polyethylene, lined ductile iron, the value for C does not exceed 120 for design. [RSWF 48.61]

PJD 83. Where force mains are constructed of material, which might cause the force main to be confused with potable water mains, specifications require the force main to be clearly identified. [RSWF 48.7]

PJD 84. Leakage tests for force mains are specified including testing methods and leakage limits. [RSWF 48.8]

*RSWF = *Recommended Standards for Wastewater Facilities* (1997) as adopted by rule 62-604.300(5)(g), F.A.C.

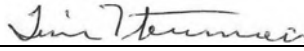
B. Explanation for Requirements or Standards Marked "X" in II(5)A. Above (Attach additional sheets if necessary):

See attached document.

PART III - CERTIFICATIONS

(1) Collection/Transmission System Permittee

I, the undersigned owner or authorized representative* of Useppa Island Utilities am fully aware that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. I agree to retain the design engineer or another professional engineer registered in Florida, to conduct on-site observation of construction, to prepare a certification of completion of construction, and to review record drawings for adequacy. Further, I agree to provide an appropriate operation and maintenance manual for the facilities pursuant to Rule 62-604.500(4), F.A.C., and to retain a professional engineer registered in Florida to examine (or to prepare if desired) the manual. I am fully aware that Department approval must be obtained before this project is placed into service for any purpose other than testing for leaks and testing equipment operation.

Signed  Date 1/25/22

Name Tim Fitzsimmons Title Director of Engineering

**Attach a letter of authorization.*

(2) Owner of Collection/Transmission System

I, the undersigned owner or authorized representative* of Useppa Island Utilities certify that we will be the Owner of this project after it is placed into service. I agree that we will operate and maintain this project in a manner that will comply with applicable Department rules. Also I agree that we will promptly notify the Department if we sell or legally transfer ownership of this project.

Signed [signature] Date 1/25/22
Name Tim Fitzsimmons Title Director of Engineering
Company Name Useppa Island Utilities, FL
Address P.O. Box 640
City Bokeelia State FL Zip 33922
Telephone 239-283-1061 Fax Email
* *Attach a letter of authorization.*

(3) Wastewater Facility Serving Collection/Transmission System**

If this is a Notice of Intent to use a general permit, check here:

☒ The undersigned owner or authorized representative* of the Useppa Island Utilities wastewater facility hereby certifies that the above referenced facility has the capacity to receive the wastewater generated by the proposed collection system; is in compliance with the capacity analysis report requirements of Rule 62-600.405, F.A.C.; is not under a Department order associated with effluent violations or the ability to treat wastewater adequately; and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

If this is an application for an individual permit, check one:

☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility has and will have adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility currently does not have, but will have prior to placing the proposed project into operation, adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

Name of Treatment Plant Serving Project Useppa Island Utilitie WWTP, Useppa Island FL
County Lee City Useppa Island
DEP permit number FL FLA 014494-006 Expiration Date 8/20/2025
Maximum monthly average daily flow over the last 12 month period .020 MGD Month(s) used 3/21
Maximum three-month average daily flow over the last 12 month period 0.019 MGD Month(s) used 1/21-3/21
Current permitted capacity 0.020 MGD ☐ AADF ☒ MADF ☐ TMADF
Current outstanding flow commitments (including this project) against treatment plant capacity:

Signed [signature] Date 1/22/22
Name Tim Fitzsimmons Title Director of Engineering
Address P.O. Box 640
City Bokeelia State FL Zip 33922
Telephone 239-283-1061 Fax Email
* *Attach a letter of authorization.*
** *If there is an intermediate collection system, a letter shall be attached certifying that the intermediate downstream collection system has adequate reserve capacity to accept the flow from this project.*

(4) Professional Engineer Registered in Florida

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of the preparation and production of engineering documents for this project; that plans and specifications for this project have been completed; that I have expertise in the design of wastewater collection/transmission systems; and that, to the best of my knowledge and belief, the engineering design for this project complies with the requirements of Chapter 62-604, F.A.C.

(Affix Seal)

Signed _____
Date _____

Name Patrick J Day Florida Registration No. 56709
Company Name DRMP
Address 1404 Dean St Suite 101
City Fort Myers State FL Zip 33901
Telephone 239-206-5[illegible] Fax _____ Email PDay@drmp.com
Portion of Project for Which Responsible All

(Affix Seal)

Signed _____
Date _____

Name _____ Florida Registration No. _____
Company Name _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____
Portion of Project for Which Responsible _____

(Affix Seal)

Signed _____
Date _____

Name _____ Florida Registration No. _____
Company Name _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____
Portion of Project for Which Responsible _____

From: Oni, James
To: Patrick Day
Subject: RE: Useppa Island Forcemain Replacement 46025-001-DWC/CG
Date: Wednesday, January 26, 2022 1:01:00 PM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png

Patrick,

Thank you. Do what you can to get as close to the 100-year flood elevation along with the water proof lid covering. Also, mention the economic impact to the project if the elevation is above 10'. In the future, if you think you're going to encounter the same issue related to elevation, please apply using the individual permit application.

James

From: Patrick Day <PDay@drmp.com>
Sent: Wednesday, January 26, 2022 12:35 PM
To: Oni, James <James.Oni@FloridaDEP.gov>
Subject: RE: Useppa Island Forcemain Replacement 46025-001-DWC/CG

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

James,

Yes, we will be sending you a response and corrections early tomorrow. We will make all the necessary changes you requested. For item f, we will include the flood elevations but this is on a low lying island and we are going to do what we did with the Delnor Wiggins lift station which is to have a water proof lid to the lift stations which was allowed by FDEP. I am still trying to establish the 100 year flood elevation, but we believe is 10'. The natural grade is less than 3'. I cannot see putting the control panels above the 100 year flood as this island will be under water and there will be no one on the island. They have mandatory evacuations. Also, putting the control panels at such an elevation makes them inaccessible. There are many lift stations on the island that do not have control panels above 10'.

Patrick Day, PE, BCEE
Utility Profit Center Manager
Main: 239.206.5093 | Direct: 239.206.5444 | Cell: 239.357.7194
pday@drmp.com

DRMP, Inc.
1404 Dean Street, Suite 101, Ft. Myers, FL 33901

Attachment 4-1
Communication Date 01/26/22

From: Oni, James <James.Oni@FloridaDEP.gov>
Sent: Wednesday, January 26, 2022 10:56 AM
To: Patrick Day <PDay@drmp.com>
Subject: RE: Useppa Island Forcemain Replacement 46025-001-DWC/CG

Patrick,

Is it still possible that I will be able to get the information request below by Friday? We're running against the 30-day clock time deadline. Your other option is to convert the application to an individual permit application by checking both the second box on pages 1 & 10 of application and sending in an additional $50 processing fee.

Thank you,
James

From: Oni, James
Sent: Thursday, January 20, 2022 4:38 PM
To: Patrick J. Day (Pday@drmp.com) <Pday@drmp.com>
Subject: Useppa Island Forcemain Replacement 46025-001-DWC/CG

Patrick,

Thank you for the submittal of the referenced project. Please provide the following in order to complete the review of the project in accordance with F.A.C. 62-4.055:

a. Revise Part II(3), column G, page 2 of application by putting 35 gpm for the peak hour flow as you stated on the application.
b. X items 42 & 43, page 6 of application since they are not part of the design requirements. Include them on the explanation section B, page 9 of application.
c. Initial item 78, page 9 of application since the first sentence still apply to your project as part of the design requirement. Delete the item from the explanation section B, page 9 of application.
d. Is there any reason why the 3rd box in Part III(3), page 10 of application was checked? If this was an error, please remove the check and complete the flow information for the wastewater treatment facility permitted capacity.
e. Include a reduced pressure backflow assembly (RPBA) as part of the water service line going to the 3 lift stations. See design sheets # C-101 and C-102. Also, revise the hose bibb detail on sheet C-104 to include the RPBA as well.
f. Revise the lift stations details, sheets C-105 thru C-107 to include the 25-year and the 100-year flood elevation for the 3 lift stations.

Please have the information back to me by Friday, January 28 since this is a general permit application and we have a 30-day clock time deadline. Please sign, seal and date all revised documents.

O. James Oni
Professional Engineer
South District
james.oni@floridadep.gov

Florida Department of
Environmental Protection
2295 Victoria Avenue, Suite 364
P. O. Box 2549
Fort Myers, FL 33902-2549
Direct: 239-344-5679
Main: 239-344-5600

From: Patrick Day
To: Oni, James
Subject: RE: Useppa Island Forcemain Replacement 46025-001-DWC/CG
Date: Wednesday, January 26, 2022 12:35:45 PM
Attachments: image008.png
image001.png
image002.png
image003.png
image004.png
image005.png
image006.png

EXTERNAL MESSAGE
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Patrick Day, PE, BCEE
Utility Profit Center Manager
Main: 239.206.5093 | Direct: 239.206.5444 | Cell: 239.357.7194
pday@drmp.com

DRMP, Inc.
1404 Dean Street, Suite 101, Ft. Myers, FL 33901

From: Oni, James <James.Oni@FloridaDEP.gov>
Sent: Wednesday, January 26, 2022 10:56 AM
To: Patrick Day <PDay@drmp.com>
Subject: RE: Useppa Island Forcemain Replacement 46025-001-DWC/CG

Patrick,

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Attachment 4-1
Communication Date 01/26/22

sending in an additional $50 processing fee.

Thank you,
James

From: Oni, James
Sent: Thursday, January 20, 2022 4:38 PM
To: Patrick J. Day (Pday@drmp.com) <Pday@drmp.com>
Subject: Useppa Island Forcemain Replacement 46025-001-DWC/CG

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c. Initial item 78, page 9 of application since the first sentence still apply to your project as part of the design requirement. Delete the item from the explanation section B, page 9 of application.
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e. Include a reduced pressure backflow assembly (RPBA) as part of the water service line going to the 3 lift stations. See design sheets # C-101 and C-102. Also, revise the hose bibb detail on sheet C-104 to include the RPBA as well.
f. Revise the lift stations details, sheets C-105 thru C-107 to include the 25-year and the 100-year flood elevation for the 3 lift stations.

Please have the information back to me by Friday, January 28 since this is a general permit application and we have a 30-day clock time deadline. Please sign, seal and date all revised documents.

O. James Oni
Professional Engineer
South District
james.oni@floridadep.gov

Florida Department of
Environmental Protection
2295 Victoria Avenue, Suite 364
P. O. Box 2549

Fort Myers, FL 33902-2549
Direct: 239-344-5679
Main: 239-344-5600

From: Oni, James
To: Patrick J. Day (Pday@drmp.com)
Subject: Useppa Island Forcemain Replacement 46025-001-DWC/CG
Date: Thursday, January 20, 2022 4:37:00 PM
Attachments: image001.png

Patrick,

Thank you for the submittal of the referenced project. Please provide the following in order to complete the review of the project in accordance with F.A.C. 62-4.055:

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b. X items 42 & 43, page 6 of application since they are not part of the design requirements. Include them on the explanation section B, page 9 of application.
c. Initial item 78, page 9 of application since the first sentence still apply to your project as part of the design requirement. Delete the item from the explanation section B, page 9 of application.
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O. James Oni
Professional Engineer
South District
james.oni@floridadep.gov

Florida Department of
Environmental Protection
2295 Victoria Avenue, Suite 364
P. O. Box 2549
Fort Myers, FL 33902-2549
Direct: 239-344-5679
Main: 239-344-5600

Attachment 4-1
Communication Date 01/20/22

Florida Department of Environmental Protection

Notification/Application for Constructing a Domestic Wastewater Collection/Transmissions System

Part I - General

Subpart A: Permit Application Type (Check only one)*

☐ Individual permit for a domestic wastewater collection/transmission system serving **10 or greater** equivalent dwelling units (EDU). An EDU is equal to 3.5 persons. Criteria for an individual permit are contained in Rule 62-604.600(7), F.A.C.
Application fee: $500

☐ Individual permit for a domestic wastewater collection/transmission system serving **less than 10** equivalent dwelling units (EDU). An EDU is equal to 3.5 persons. Criteria for an individual permit are contained in Rule 62-604.600(7), F.A.C.
Application fee: $300

☐ Minor revision to an individual permit for a domestic wastewater collection/transmission system.
Application fee: $250

☑ Notice of Intent to use the general permit for a domestic wastewater collection/transmission system. Criteria for a general permit are contained in Rule 62-604.600(6), F.A.C. Projects not meeting the criteria in Rule 62-604.600(6), F.A.C., must apply for an individual permit.
Application fee: $250

*Note: Each non-contiguous project (i.e., projects that are not interconnected or are not located on adjacent streets or in the same neighborhood) requires a separate application and fee.

Subpart B: Instructions

(1) This form shall be completed for all public and private domestic wastewater collection/transmission system construction projects as follows:
- If this is a Notice of Intent to use the general permit, this notification shall be submitted to the Department **at least 30 days prior to initiating construction**.
- If this is an application for an individual permit, the permit must be obtained prior to initiating construction.

(2) One copy of the completed form shall be submitted to the appropriate DEP district office or delegated local program along with the appropriate fee, and one copy of the following supporting documents. Checks should be made payable to the Florida Department of Environmental Protection, or the name of the appropriate delegated local program. Forms and documents may be submitted electronically in accordance with the Wastewater Electronic Document Submission instructions available from DEP's website.
- If this is a Notice of Intent to use the general permit, attach a site plan or sketch showing the size and approximate location of new or altered gravity sewers, pump stations and force mains; showing the approximate location of manholes and isolation valves; and showing how the proposed project ties into the existing or proposed wastewater facilities. The site plan or sketch shall be signed and sealed by a professional engineer registered in Florida.
- If this is an application for an individual permit, one set of plans and specifications shall be submitted with this application. The plans and specifications shall include lift station design calculations if a lift station is proposed. Chapters 10 and 20 of *Recommended Standards for Wastewater Facilities*, 2014, provide helpful guidance on the proper preparation of plans and specifications. The plans and specifications shall be signed and sealed by a Professional Engineer registered in Florida.

(3) All information shall be typed or printed in ink if submitting paper forms. Where attached sheets (or other technical documentation) are utilized in lieu of the blank spaces provided, indicate appropriate cross-references on the form. For Items (1) through (4) of Part II of this application form, if an item is not applicable to your project, indicate "NA" in the appropriate space provided.

Attachment 4-1
Communication Date 01/07/22

Part II – Project Documentation

(1) Collection/Transmission System Permittee

Name Tim Fitzsimmons Title _____

Company Name Useppa Island Utilities

Address P.O. Box 640

City Bokeelia State FL Zip 33122

Telephone 239-283-1061 Cell _____ Fax _____

Email tfitzsimmons@useppa.com

(2) General Project Information

Project Name Useppa Island Forcemain Replacement

Project Address South Island Useppa

City Useppa Island State FL Zip 33921

County lee Latitude 26°39'20.92"N Longitude 82°12'47.30"W

Project Description and Purpose (including the total length and material of each diameter of proposed gravity sewers and forcemains, total number of manholes, total number of pump stations, and connections to existing system):

This project is for the replacement of 3 existing lift stations and appx 1400 lf of 2" SCH80 PVC forcemain

Estimated date for: Start of construction Feb 2022 Completion of Construction Aug 2022

Number of connections to existing system or treatment plant _____

(3) Project Capacity

Type of Unit	Number of Units	Population Per Unit	Total Population (Number of Units x Population Per Unit)	Per Capita Flow in Gallons per Day (GPD)	Total Average Daily Flow in GPD (Total Population x Per Capita Flow)	Peak hour flow in Gallons Per Minute (GPM)
Single-Family Home	7	2.5	18	100	1800	1.25
Mobile Home						
Apartment						
Commercial, Institutional, or Industrial Facility*						
Total	NA	NA		NA	1800	1.25

* Description of commercial, institutional, and industrial facilities and explanation of method used to estimate per capita flow for these facilities:

This project is a direct replacement for the existing forcemain with no changes in water demand or pumping. Using the 10 State Standard the Peaking Factor is 4 but due to the small amount of flow a much higher peak was assumed with each of the 7 houses all having the shower and toilet on at the same time which equals 35 gpm.

(4) Pump Station Data (attached additional sheets as necessary

Location	Type	Maximum Estimated Flow to the Station (GPD)	Average Estimated Flow to the Station (GPD)	Minimum Estimated Flow to the Station (GPD)	Operating Conditions [GPM @ FT (TDH)]
North	Grinder	35	1.25	n/a	39 GPM @ 80 TDH
Central	Grinder	10	.3	n/a	43 GPM @ 50 TDH
South	Grinder	15	.5	n/a	42 GPM @ 70 TDH

(5) Collection/Transmission System Design Information

A. This information must be completed for all projects by the applicant's professional engineer, and if applicable, those professional engineers in other disciplines who assisted with the design of the project. The checklist below shall be used for conventional collection/transmission systems while Attachment I to this form shall be used for low pressure sewer systems, including septic tank effluent pump (STEP) systems, and Attachment II shall be used for vacuum sewer systems (include Attachments I or II with the submittal of this form as applicable). These checklists cover important items but are not necessarily completely comprehensive of collection system construction and do not relieve the engineer from designing the collection system following sound engineering practices.

Complete the tables below (or Attachments I or II as applicable) as follows:

- The engineer shall initial each requirement if the project has been designed to comply with the standard or criteria.
- Mark "NA" if the requirement does not apply to this project and provide an explanation in section (5)B.
- Mark "NC" if the project has not been designed to comply with the requirement and provide an explanation in section (5)B, including any rule references.

Note, if the project has not been designed in accordance with the standards and criteria set forth in Rules 62-604.400(1) and (2), F.A.C., an application for an individual permit shall be submitted. However, if Rules 62-604.400(1) and (2), F.A.C., specifically allow for another alternative that will result in an equivalent level of reliability and public health protection, the project can be constructed using the general permit. Also note that each requirement below and in Attachments I and II includes a reference to guidance or rule for further information. The guidance documents given in the checklists are as follows:

- "RSWF" – Recommended Standards for Wastewater Facilities (2014). Health Research, Inc., Health Education Services Division, P.O. Box 7126, Albany, NY 12224, www.healthresearch.org
- "MOPFD-12" – Alternative Sewer Systems, Manual of Practice No. FD-12. Alternative Sewer Systems (1986). Water Environment Federation, 602 Wythe Street, Alexandria, VA 22314, www.wef.org.
- "FL DSG" – Design and Specification Guidelines for Low Pressure Sewer Systems (1981). Department of Environmental Protection, 2600 Blair Stone Road, MS 3540, Tallahassee, FL 32399-2400, www.floridadep.gov.
- "EPA ACS" - Alternative Wastewater Collection Systems (1991). EPA/625/1-91/024. NTIS# PB93-1162591N2; National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, www.ntis.gov.

General Requirements

Initials (or "NA" or "NC")	Item Number	Requirement
PJD	1	The project is designed based on an average daily flow of 100 gallons per capita plus wastewater flow from industrial plants and major institutional and commercial facilities unless water use data or other justification is used to better estimate the flow. The design includes an appropriate peaking factor, which covers I/I contributions and non-wastewater connections to those service lines.(Note, see Attachment I for low pressure sewer systems) [RSWF 11.243]
PJD	2	Procedures are specified for operation of the collection/transmission system during construction if work is performed on a system currently in operation. [RSWF20.15]
PJD	3	The project is designed to be located on public rights-of-way, land owned by the permittee, or easements and to be located no closer than 100 feet from a public drinking water supply well and no closer than 75 feet from a private drinking water supply well; or documentation is provided in Part II.(5)B., showing that another alternative will result in an

Initials (or "NA" or "NC")	Item Number	Requirement
		equivalent level of reliability and public health protection. [62-604.400(1)(b) and (c), F.A.C.]
PJD	4	The project is designed with no physical connections between a public or private potable water supply system and a sewer or force main and with no water pipes passing through or coming into contact with any part of a sewer manhole. [RSFW 38.1]
PJD	5	The project is designed to preclude the deliberate introduction of storm water, surface water, groundwater, roof runoff, subsurface drainage, swimming pool drainage, air conditioning system condensate water, non-contact cooling water except as provided by Rule 62-610.668(1), F.A.C., and sources of uncontaminated wastewater, except to augment the supply of reclaimed water in accordance with Rule 62-610.472(3)(c), F.A.C. [62-604.400(1)(d), F.A.C.]
PJD	6	The project is designed so that all new or relocated, buried sewers and force mains, are located in accordance with the separation requirements from water mains and reclaimed water lines of Rules 62-604.400(2)(g) and (h), F.A.C. Note, if the criteria of Rules 62-604.400(2)(g) 4. or (2)(h)3., F.A.C., are used, describe in Part II.(5)B. alternative construction features that will be provided to afford a similar level of reliability and public health protection. [62- 604.400(2)(g) and (h), F.A.C.; 62-555.314, F.A.C.]

Gravity Sewers

Initials (or "NA" or "NC")	Item Number	Requirement
NA	7	The project is designed with no public gravity sewer conveying raw wastewater less than 8 inches in diameter. [RSWF 33.1]
NA	8	The design considers buoyancy of sewers, and appropriate construction techniques are specified to prevent flotation of the pipe where high groundwater conditions are anticipated. [RSWF 33.3]
NA	9	All sewers are designed with slopes to give mean velocities, when flowing full, of not less than 2.0 feet per second, based on Manning's formula using an "n" value of 0.013; or if it is not practicable to maintain these minimum slopes and the depth of flow will be 0.3 of the diameter or greater for design average flow, the owner of the system has been notified that additional sewer maintenance will be required. The pipe diameter and slope are selected to obtain the greatest practical velocities to minimize solids deposition problems. Oversized sewers are not specified to justify flatter slopes. [RSWF 33.41, 33.42, and 33.43]
NA	10	Sewers are designed with uniform slope between manholes. [RWSF 33.44]
NA	11	Where velocities greater than 10 fps are designed, provisions to protect against displacement by erosion and impact are specified. [RSWF 33.45]
NA	12	Sewers on 20% slopes or greater are designed to be anchored securely with concrete, or equal, anchors spaced as follows: not over 36 feet center to center on grades 20% and up to 35%; not over 24 feet center to center on grades 35% and up to 50%; and not over 16 feet center to center on grades 50% and over. [RSWF 33.46]
NA	13	Sewers 24 inches or less are designed with straight alignment between manholes. Where curvilinear sewers are proposed for sewers greater than 24 inches, the design specifies compression joints; ASTM or specific pipe manufacturer's maximum allowable pipe joint deflection limits are not exceeded; and curvilinear sewers are limited to simple curves which start and end at manholes. [RSWF 33.5]
NA	14	Suitable couplings complying with ASTM specifications are required for joining dissimilar materials. [RSWF 33.7]
NA	15	Sewers are designed to prevent damage from superimposed loads. [RSWF 33.7]
NA	16	Appropriate specifications for the pipe and methods of bedding and backfilling are provided so as not to damage the pipe or its joints, impede cleaning operations and future tapping, nor create excessive side fill pressures and ovalation of the pipe, nor seriously impair flow capacity. [RSWF 33.81]
NA	17	Appropriate deflection tests are specified for all flexible pipe including PVC. Testing is

Initials (or "NA" or "NC")	Item Number	Requirement
		required after the final backfill has been in place at least 30 days to permit stabilization of the soil-pipe system. Testing requirements specify: 1) no pipe shall exceed a deflection of 5%; 2) using a rigid ball or mandrel for the deflection test with a diameter not less than 95% of the base inside diameter or average inside diameter of the pipe, depending on which is specified in the ASTM specification, including the appendix, to which the pipe is manufactured; and 3) performing the test without mechanical pulling devices. [RSWF 33.85]
NA	18	Leakage tests are specified requiring that: 1) the leakage exfiltration or infiltration does not exceed 100 gallons per inch of pipe diameter per mile per day for any section of the system; 2) exfiltration or infiltration tests be performed with a minimum positive head of 2 feet; and 3) air tests, as a minimum, conform to the test procedure described in ASTM C-828 for clay pipe, ASTM C 924 for concrete pipe, ASTM F-1417 for plastic pipe, and for other materials appropriate test procedures. [RSWF 33.93, 33.94, and 33.95]
NA	19	If an inverted siphon is proposed, documentation of its need is provided in Part II.(5)B. Inverted siphons are designed with: 1) at least two barrels; 2) a minimum pipe size of 6 inches; 3) necessary appurtenances for maintenance, convenient flushing, and cleaning equipment; and 4) inlet and discharge structures having adequate clearances for cleaning equipment, inspection, and flushing. Design provides sufficient head and appropriate pipe sizes to secure velocities of at least 3.0 fps for design average flows. The inlet and outlet are designed so that the design average flow may be diverted to one barrel, and that either barrel may be cut out of service for cleaning. [RSWF 35]

Manholes

Initials (or "NA" or "NC")	Item Number	Requirement
NA	20	The project is designed with manholes at the end of each line; at all changes in grade, size, or alignment; at all intersections; and at distances not greater than 400 feet for sewers 15 inches or less and 500 feet for sewers 18 inches to 30 inches, except in the case where adequate modern cleaning equipment is available at distances not greater than 600 feet. [RSWF 34.1]
NA	21	Design requires drop pipes to be provided for sewers entering manholes at elevations of 24 inches or more above the manhole invert. Where the difference in elevation between the incoming sewer and the manhole invert is less than 24 inches, the invert is designed with a fillet to prevent solids deposition. Inside drop connections (when necessary) are designed to be secured to the interior wall of the manhole and provide access for cleaning. Design requires the entire outside drop connection be encased in concrete. [RSWF 34.2]
NA	22	Manholes are designed with a minimum diameter of 48 inches and a minimum access diameter of 24 inches. [RSWF 34.3]
NA	23	Design requires that a bench be provided on each side of any manhole channel when the pipe diameter(s) are less than the manhole diameter and that no lateral sewer, service connection, or drop manhole pipe discharges onto the surface of the bench. [RSWF 34.5]
NA	24	Design requires: 1) manhole lift holes and grade adjustment rings be sealed with non-shrinking mortar or other appropriate material; 2) inlet and outlet pipes be joined to the manhole with a gasketed flexible watertight connection or another watertight connection arrangement that allows differential settlement of the pipe and manhole wall; and 3) watertight manhole covers be used wherever the manhole tops may be flooded by street runoff or high water. [RSWF 34.6]
NA	25	Manhole inspection and testing for water-tightness or damage prior to placing into service are specified. Air testing, if specified for concrete sewer manholes, conforms to the test procedures described in ASTM C-1244. [RSWF 34.7]
NA	26	Electrical equipment specified for use in manholes is consistent with Item 46 of this checklist. [RSWF 34.9]

Stream Crossings

Initials (or "NA" or "NC")	Item Number	Requirement
NA	27	Sewers and force mains entering or crossing streams are designed to be constructed of ductile iron pipe with mechanical joints or so they will remain watertight and free from changes in alignment or grade or constructed of HDPE with fused joints for directional drilling. Appropriate materials which will not readily erode, cause siltation, damage pipe during placement, or corrode the pipe are specified to backfill the trench. [RSWF 36.21]
NA	28	Stream crossings are designed to incorporate valves or other flow regulating devices (which may include pump stations) on the shoreline or at such distances from the shoreline to prevent discharge in the event the line is damaged. [62- 604.400(2)(j)5., F.A.C.]
NA	29	Sewers and force mains entering or crossing streams are designed at a sufficient depth below the natural bottom of the stream bed to protect the line. At a minimum, the project is designed with subaqueous lines to be buried at least three feet below the design or actual bottom, whichever is deeper, of a canal and other dredged waterway or the natural bottom of streams, rivers, estuaries, bays, and other natural water bodies; or if it is not practicable to design the project with less than three-foot minimum cover, alternative construction features (e.g. a concrete cap, sleeve, or some other properly engineered device to insure adequate protection of the line) are described in Part II.C. [62-604.400(2)(j)1., F.A.C., and RSWF 36.11]
NA	30	Specifications require permanent warning signs be placed on the banks of canals, streams, and rivers clearly identifying the nature and location (including depths below design or natural bottom) of subaqueous crossings and suitably fixed signs be placed at the shore, for subaqueous crossings of lakes, bays, and other large bodies of water, and in any area where anchoring is normally expected. [62-604.400(2)(j)2., F.A.C.]
NA	31	Provisions for testing the integrity of subaqueous lines are specified. [62-604.400(2)(j)4., F.A.C.]
NA	32	Supports are designed for all joints in pipes utilized for aerial crossings and to prevent overturning andsettlement. Expansion jointing is specified between above ground and below ground sewers and force mains. The design considers the impact of floodwaters and debris. [RSWF 37]
NA	33	Aerial crossings are designed to maintain existing or required navigational capabilities within the waterway and to reserve riparian rights of adjacent property owners. [62-604.400(2)(j)3., F.A.C.]

Pump Stations

Initials (or "NA" or "NC")	Item Number	Requirement
PJD	34	In areas with high water tables, pump stations are designed to withstand flotation forces when empty. When siting the pump station, the design considers the potential for damage or interruption of operation because of flooding. Pump station structures and electrical and mechanical equipment are designed to be protected from physical damage by the 100-year flood. Pump stations are designed to remain fully operational and accessible during the 25-year flood unless lesser flood levels are appropriate based on local considerations, but not less than the 10-year flood. [62-604.400(2)(e), F.A.C.]
PJD	35	Pump stations are designed to be readily accessible by maintenance vehicles during all weather conditions. [RSWF41.2]
PJD	36	Wet well and pump station piping is designed to avoid operational problems from the accumulation of grit. [RSWF 41.3]
NA	37	Dry wells, including their superstructure, are designed to be completely separated from the wet well. Common walls are designed to be gas tight. [RSWF 42.21]
PJD	38	The design includes provisions to facilitate removing pumps, motors, and other mechanical and electrical equipment. [RSWF 42.22]
PJD	39	The design includes provisions for: 1) suitable and safe means of access for persons wearing self-

Initials (or "NA" or "NC")	Item Number	Requirement
		contained breathing apparatus are provided to dry wells, and to wet wells; 2) stairway access to wet wells more than 4 feet deep containing either bar screens or mechanical equipment requiring inspection or maintenance; 3) for built-in-place pump stations, a stairway to the dry well with rest landings at vertical intervals not to exceed 12 feet; 4) for factory-built pump stations over 15 feet deep, a rigidly fixed landing at vertical intervals not to exceed 10 feet unless a manlift or elevator is provided; and 5) where a landing is used, a suitable and rigidly fixed barrier to prevent an individual from falling past the intermediate landing to a lower level. If a manlift or elevator is provided, emergency access is included in the design. [RSWF 42.23]
PJD	40	Specified construction materials are appropriate under conditions of exposure to hydrogen sulfide and other corrosive gases, greases, oils, and other constituents frequently present in wastewater. [RSWF 42.25]
PJD	41	Multiple pumps are specified, and each pump has an individual intake. Where only two units are specified, they are of the same size. Specified units have capacity such that, with any unit out of service, the remaining units will have capacity to handle the design peak hourly flow. [RSWF 42.31 and 42.36]
NA	42	Bar racks are specified for pumps handling wastewater from 30 inch or larger diameter sewers. Where a bar rack is specified, a mechanical hoist is also provided. The design includes provisions for appropriate protection from clogging for small pump stations. [RSWF 42.322]
NA	43	Pumps handling raw wastewater are designed to pass spheres of at least 3 inches in diameter. Pump suction and discharge openings are designed to be at least 4 inches in diameter. Note, this provision is not applicable to grinder pumps. [RSWF 42.33]
PJD	44	The design requires pumps be placed such that under normal operating conditions they will operate under a positive suction head, unless pumps are suction-lift pumps. [RSWF 42.34]
PJD	45	The design requires: 1) pump stations be protected from lightning and transient voltage surges; and 2) pump stations be equipped with lightning arrestors, surge capacitors, or other similar protection devices and phase protection. Note, small pump stations serving a single building are not required to provide surge protection devices if not necessary because the pump station is protected by the surge protection device of the single building. [62-604.400(2)(b), F.A.C.]
PJD	46	The design requires 1) electrical systems and components (e.g., motors, lights, cables, conduits, switch boxes, control circuits, etc.) in raw wastewater wet wells, or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors may be present, comply with the National Electrical Code requirements; 2) electrical equipment located in wet wells be suitable for use under corrosive conditions; 3) each flexible cable be provided with a watertight seal and separate strain relief; 4) a fused disconnect switch located above ground be provided for the main power feed for all pump stations; 5) electrical equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4; 6) a 110 volt power receptacle to facilitate maintenance be provided inside the control panel for pump stations that have control panels outdoors; and 7) ground fault interruption protection be provided for all outdoor outlets. [RSWF 42.35]
NA	47	The design requires a sump pump equipped with dual check valves be provided in dry wells to remove leakage or drainage with discharge above the maximum high water level of the wet well. [RSWF42.37]
PJD	48	Pump/pump station design capacities are based on the peak hourly flow and are adequate to maintain a minimum velocity of 2 feet per second in the force main. [RSWF 42.38]
PJD	49	The design includes provisions to automatically alternate the pumps in use. [RSWF 42.4]
PJD	50	The design requires: 1) suitable shutoff valves be placed on the suction line of pumps/dry pit pumps; 2) suitable shutoff and check valves be placed on the discharge line of each pump (except on screw pumps); 3) a check valve be located between the shutoff valve and the pump; 4) check valves be suitable for the material being handled; 5) check valves be placed on the horizontal portion of discharge piping (except for ball checks, which may be placed in the vertical run); 6) all valves be capable of withstanding normal pressure and

Initials (or "NA" or "NC")	Item Number	Requirement
		water hammer; and 7) all shutoff and check valves be operable from the floor level and accessible for maintenance. [RSWF 42.5]
PJD	51	The effective volume of wet wells is based on design average flows and a filling time not to exceed 30 minutes unless the facility is designed to provide flow equalization. The pump manufacturer's duty cycle recommendations were utilized in selecting the minimum cycle time. [RSWF 42.62]
PJD	52	The design requires wet well floors have a minimum slope of 1 to 1 to the hopper bottom and the horizontal area of hopper bottoms be no greater than necessary for proper installation and function of the inlet. [RSWF 42.63]
PJD	53	For covered wet wells, the design provides for air displacement to the atmosphere, such as an inverted "j" tube or other means. [RSWF 42.64]
PJD	54	The design provides for adequate ventilation at all pump stations. Mechanical ventilation shall be provided where the dry well is below the ground surface. Permanently installed ventilation shall be provided if screens or mechanical equipment requiring maintenance or inspection are located in the wet well. Pump stations are designed with no interconnection between the wet well and dry well ventilation systems. [RSWF 42.71]
NA	55	The design requires all intermittently operated ventilation equipment to be interconnected with the respective pit lighting system and the manual lighting/ventilation switch to override the automatic controls. [RSWF 42.73]
NA	56	The design requires the fan wheels of ventilation systems be fabricated from non-sparking material and automatic heating and dehumidification equipment be provided in all dry wells. [RSWF 42.74]
NA	57	If wet well ventilation is continuous, design provides for at least 12 complete 100% fresh air changes per hour; if wet well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour; and design requires air to be forced into wet wells by mechanical means rather than solely exhausted from the wet well. [RSWF 42.75]
NA	58	If dry well ventilation is continuous, design provides at least 12 complete 100% fresh air changes per hour; and dry well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour, unless a system of two speed ventilation with an initial ventilation rate of 30 changes per hour for 10 minutes and automatic switch over to 6 changes per hour is used to conserve heat. [RSWF 42.76]
PJD	59	Pump stations are designed and located on the site to minimize adverse effects from odors, noise, and lighting. [62- 604.400(2)(c), F.A.C.]
PJD	60	The design requires pump stations be enclosed with a fence or otherwise designed with appropriate features to discourage the entry of animals and unauthorized persons. Posting of an unobstructed sign made of durable weather resistant material at a location visible to the public with a telephone number for a point of contact in case of emergency is specified. [62-604.400(2)(d), F.A.C.]
PJD	61	The design requires suitable devices for measuring wastewater flow at all pump stations. Indicating, totalizing, and recording flow measurement are specified for pump stations with a 350 gpm or greater design peak flow. [RSWF 42.8]
PJD	62	The project is designed with no physical connections between any potable water supplies and pump stations. If a potable water supply is brought to a station, reduced-pressure principle backflow-prevention assemblies are specified. [RSWF 42.9 and 62-555.30(4), F.A.C.]

Additional Items to be Completed for Suction-Lift Pump Stations

Initials (or "NA" or "NC")	Item Number	Requirement
NA	63	The design requires all suction-lift pumps to be either self-priming or vacuum-priming and the combined total of dynamic suction-lift at the "pump off" elevation and required net positive suction head at design operating conditions not to exceed 22 feet. For self-priming

Initials (or "NA" or "NC")	Item Number	Requirement
		pumps, the design requires: 1) pumps be capable of rapid priming and repriming at the "lead pump on" elevation with self-priming and repriming accomplished automatically under design operating conditions; 2) suction piping not to exceed the size of the pump suction or 25 feet in total length; and 3) priming lift at the "lead pump on" elevation to include a safety factor of at least 4 feet from the maximum allowable priming lift for the specific equipment at design operating conditions. For vacuum-priming pump stations, the design requires dual vacuum pumps capable of automatically and completely removing air from the suction-lift pumps and the vacuum pumps be adequately protected from damage due to wastewater. [RSWF 43.1]
NA	64	The design requires: 1) suction-lift pump equipment compartments to be above grade or offset and to be effectively isolated from the wet well to prevent a hazardous and corrosive sewer atmosphere from entering the equipment compartment; 2) wet well access not to be through the equipment compartment and to be at least 24 inches in diameter; 3) gasketed replacement plates be provided to cover the opening to the wet well for pump units to be remove for service; and 4) no valving be located in the wet well. [RSWF 43.2]

Additional Items to be Completed for Submersible Pump Stations

Initials (or "NA" or "NC")	Item Number	Requirement
PJD	65	Submersible pumps and motors are designed specifically for raw wastewater use, including totally submerged operation during a portion of each pump cycle and to meet the requirements of the National Electrical Code for such units. Provisions for detecting shaft seal failure or potential seal failure are included in the design. [RSWF 44.1]
PJD	66	The design requires submersible pumps be readily removable and replaceable without dewatering the wet well or disconnecting any piping in the wet well. [RSWF 44.2]
PJD	67	In submersible pump stations, electrical supply, control, and alarm circuits are designed to provide strain relief; to allow disconnection from outside the wet well; and to protect terminals and connectors from corrosion by location outside the wet well or through use of watertight seals. [RSWF 44.31]
PJD	68	In submersible pump stations, the design requires the motor control center to be located outside the wet well, readily accessible, and protected by a conduit seal or other appropriate measures meeting the requirements of the National Electrical Code, to prevent the atmosphere of the wet well from gaining access to the control center. If a seal is specified, the motor can be removed and electrically disconnected without disturbing the seal. The design requires control equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4. [RSWF 44.32]
PJD	69	In submersible pump stations, the design requires: 1) pump motor power cords be flexible and serviceable under conditions of extra hard usage and to meet the requirements of the National Electrical Code standards for flexible cords in wastewater pump stations; 2) ground fault interruption protection be used to de-energize the circuit in the event of any failure in the electrical integrity of the cable; and 3) power cord terminal fittings be corrosion-resistant and constructed in a manner to prevent the entry of moisture into the cable, provided with strain relief appurtenances, and designed to facilitate field connecting. [RSWF 44.33]
PJD	70	In submersible pump stations, the design requires all shut-off and check valves be located in a separate valve pit. Provisions to remove or drain accumulated water from the valve pit are included in the design. [RSWF 44.4]

Emergency Operations for Pump Stations

Initials (or "NA" or "NC")	Item Number	Requirement
PJD	71	Pump stations are designed with an alarm system which activates in cases of power failure, sump pump failure, pump failure, unauthorized entry, or any cause of pump station malfunction. Pump station alarms are designed to be telemetered to a facility that is manned 24 hours a day. If such a facility is not available and a 24-hour holding capacity is not provided, the alarm is designed to be telemetered to utility offices during normal working hours and to the home of the responsible person(s) in charge of the lift station during off-duty hours. Note, if an audio-visual alarm system with a self-contained power supply is provided in lieu of a telemetered system, documentation is provided in Part II.(5)B. showing an equivalent level of reliability and public health protection. [RSWF 46]
PJD	72	The design requires emergency pumping capability be provided for all pump stations. For pump stations that receive flow from one or more pump stations through a force main or pump stations discharging through pipes 12 inches or larger, the design requires uninterrupted pumping capability be provided, including an in-place emergency generator. Where portable pumping and/or generating equipment or manual transfer is used, the design includes sufficient storage capacity with an alarm system to allow time for detection of pump station failure and transportation and connection of emergency equipment. [62-604.400(2)(a)1. and 2., F.A.C., and RSWF 47.423 and 47.433]
PJD	73	The design requires: 1) emergency standby systems to have sufficient capacity to start up and maintain the total rated running capacity of the station, including lighting, ventilation, and other auxiliary equipment necessary for safety and proper operation; 2) special sequencing controls be provided to start pump motors unless the generating equipment has capacity to start all pumps simultaneously with auxiliary equipment operating; 3) a riser from the force main with rapid connection capabilities and appropriate valving be provided for all pump stations to hook up portable pumps; and 4) all pump station reliability design features be compatible with the available temporary service power generating and pumping equipment of the authority responsible for operation and maintenance of the collection/transmission system. [62-604.400(2)(a)3., F.A.C., and RSWF 47.431]
PJD	74	The design provides for emergency equipment to be protected from operation conditions that would result in damage to the equipment and from damage at the restoration of regular electrical power. [RSWF 47.411, 47.417, and 47.432]
NA	75	Where independent substations are used for emergency power, each separate substation and its associated transmission lines is designed to be capable of starting and operating the pump station at itsrated capacity. [RSWF 47.44]

Force Mains

Initials (or "NA" or "NC")	Item Number	Requirement
NC	76	Force mains are designed to maintain, at design pumping rates, a cleansing velocity of at least 2 feet per second. The minimum force main diameter specified for raw wastewater is not less than 4 inches. (Not applicable to low pressure sewer systems) [RSWF49.1]
PJD	77	The design requires: 1) branches of intersecting force mains be provided with appropriate valves such that one branch may be shut down for maintenance and repair without interrupting the flow of other branches; and 2) stub-outs on force mains, placed in anticipation of future connections, be equipped with a valve to allow such connection without interruption of service. [62-604.400(2)(f), F.A.C.]
PJD	78	The design requires air relief valves be placed at high points in the force main to prevent air locking. [RSWF492]
PJD	79	Specified force main pipe and joints are equal to water main strength materials suitable for design conditions. The force main, reaction blocking, and station piping are designed to withstand water hammer pressures and stresses associated with the cycling of wastewater

Initials (or "NA" or "NC")	Item Number	Requirement
		pump stations. [RSWF 49.4]
PJD	80	When the Hazen and Williams formula is used to calculate friction losses through force mains, the value for "C" is 100 for unlined iron or steel pipe for design. For other smooth pipe materials, such as PVC, polyethylene, lined ductile iron, the value for C does not exceed 120 (130 for PVC and HDPE) for design. (Not applicable to low pressure sewer systems) [RSWF 49.61]
PJD	81	Where force mains are constructed of material, which might cause the force main to be confused with potable water mains, specifications require the force main to be clearly identified. [RSWF 49.7]
PJD	82	Leakage tests for force mains are specified including testing methods and leakage limits. [RSWF 49.8]

Note, if this project is an alternative collection system (i.e. a low pressure sewer system or a vacuum sewer system), complete the checklist items on Attachment I for low pressure sewer systems or Attachment II for vacuum sewer systems. Include the attachment with the submittal. For any items marked "NA" or "NC," provide an explanation in section 5(B).

B. Explanation for Requirements or Standards Marked “NA” or “NC” in II(5)A above, which includes Attachments I and II (attach additional sheets if necessary):

#7-33,63-64: No Gravity Sewer, Manhole, Stream Crossings, or Suction-Lift Pump Stations are within this project.
#37,47,54,58,: Lift Station is a Wetwell, No dry well within this project
#42: No 30" or larger sewer (or bar racks) is to be installed.
#43: Grinder Pump is not applicable for passing a 3" sphere.
#55-58: No mechanical operated ventilation
#63 & 64: This project is not a suction lift pump station.
#75: There is not an independent substation used for emergency power.
#76: Grinder pump lift station will be using 2" pipe to maintain RSWW recommended velocity

PART III - Certifications

(1) Collection/Transmission System Permittee

I, the undersigned owner or authorized representative* of Useppa Island Utilities am fully aware that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. I agree to retain the design engineer or another professional engineer registered in Florida, to conduct on-site observation of construction, to prepare a certification of completion of construction, and to review record drawings for adequacy. Further, I agree to provide an appropriate operation and maintenance manual for the facilities pursuant to Rule 62-604.500(4), F.A.C., and to retain a professional engineer registered in Florida to examine (or to prepare if desired) the manual. I am fully aware that Department approval must be obtained before this project is placed into service for any purpose other than testing for leaks and testing equipment operation.

Signed _____ Date 1-6-22

Name Tim Fitzsimmons Title President

**Attach a letter of authorization.*

(2) Owner of Collection/Transmission System

I, the undersigned owner or authorized representative* of Useppa Island Utilities certify that we will be the Owner of this project after it is placed into service. I agree that we will operate and maintain this project** in a manner that will comply with applicable Department rules. Also, I agree that we will promptly notify the Department if we sell or legally transfer ownership of this project.

Signed _____ Date 1-6-22

Name Tim Fitzsimmons Title President

Company Name Useppa Island Utilities

Address P.O. Box 640

City Bokeelia State FL Zip 33922

Telephone 239-283-1061 Cell _____ Fax _____

Email _____

* *Attach a letter of authorization*

**Description of the owner's portion if split _____

Second Owner of Collection/Transmission System (if system is divided with different owners

I, the undersigned owner or authorized representative* of _____ certify that we will be the Owner of this project after it is placed into service. I agree that we will operate and maintain this project in a manner that will comply with applicable Department rules. Also, I agree that we will promptly notify the Department if we sell or legally transfer ownership of this project.

Signed _____ Date _____

Name _____ Title _____

Company Name _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Cell _____ Fax _____

Email _____

* *Attach a letter of authorization*

**Description of the second owner portion if split _____

(3) Wastewater Facility Serving Collection/Transmission System**

If this is a Notice of Intent to use a general permit, check here:

☐ The undersigned owner or authorized representative* of the Useppa Island Utilities wastewater facility

hereby certifies that the above referenced facility has the capacity to receive the wastewater generated by the proposed collection system; is in compliance with the capacity analysis report requirements of Rule 62-600.405, F.A.C.; is not under a Department order associated with effluent violations or the ability to treat wastewater adequately; and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

If this is an application for an individual permit, check one:

☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility has and will have adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility currently does not have, but will have prior to placing the proposed project into operation, adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

Name of Treatment Plant Serving Project Useppa Island Utilitie WWTP, Useppa Island FL

County Lee City Useppa Island

DEP Facility ID: FL FLA014494

Maximum monthly average daily flow over the last 12 month period 0.020 MGD Month(s) used 3/2021

Maximum three-month average daily flow over the last 12 month period 0.0183 MGD Month(s) used 3/21-5/21

Current permitted capacity .020 MGD ■ AADF ☐ MADF ☐ TMADF

Current outstanding flow commitments (including this project) against treatment plant capacity _____ MGD

Signed [signature] Date 1-6-22

Name Tim Fitzsimmons Title Director of Engineering

Company Name _____

Address P.O. Box 640

City Bokeelia State _____ Zip 33922

Telephone 239-283-1061 Cell _____ Fax _____

Email _____

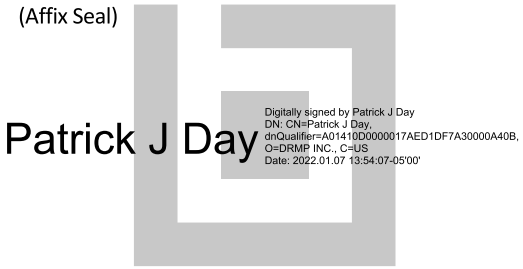
** Attach a letter of authorization*

*** If there is an intermediate satellite collection system between the project and the final receiving facility collection system, a letter shall be attached certifying that the intermediate downstream satellite collection system has adequate reserve capacity to accept the flow from this project.*

(4) Professional Engineer Registered in Florida

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of the preparation and production of engineering documents for this project; that plans and specifications for this project have been completed; that I have expertise in the design of wastewater collection/transmission systems; and that, to the best of my knowledge and belief, the engineering design for this project complies with the requirements of Chapter 62-604, F.A.C.

(Affix Seal)



Signed _____

Date 01/07/22

Name Patrick J Day Florida Registration No. 56709

Company Name DRMP

Address 1404 Dean St Suite 101

City Fort Myers State FL Zip 33901

Telephone 239-206-5093 Cell _____ Fax _____

Email PDay@drmp.com

Portion of the project for which responsible: Entire Project

Second Engineer (if applicable)

(Affix Seal)

Signed _____

Date _____

Name _____ Florida Registration No. _____

Company Name _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Cell _____ Fax _____

Email _____

Portion of the Project for Which Responsible: _____

Third Engineer (if applicable) (Affix Seal)

Signed _____

Date _____

Name _____ Florida Registration No. _____

Company Name _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Cell _____ Fax _____

Email _____

Portion of the Project for Which Responsible: _____

Fourth Engineer (if applicable) (Affix Seal)

Signed _____

Date _____

Name _____ Florida Registration No. _____

Company Name _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Cell _____ Fax _____

Email _____

Portion of the Project for Which Responsible: _____

Attachment I – Requirements for Low Pressure Sewer Systems

General

Initials (or "NA" or "NC")	Item Number	Requirement
	1	A central management entity, be it public or private, is identified for the operation and maintenance of the on-lot facilities associated with alternative collection/transmission systems. [FL DSG Page I-24 and 62-604.400(4), F.A.C.]
	2	The project is designed based on a minimum average daily flow of 50 to 70 gallons per capita (100 gallons per capita is recommended) plus wastewater flow from industrial plants and major institutional and commercial facilities unless water use data or other justification is used to better estimate the flow. The design includes an appropriate peaking factor, which covers I/I contributions and non-wastewater connections to those service lines. A typical value is 200 gallons per day per EDU (350 is recommended). [MOPFD 12 – Page 45,46, 232 and EPA Manual ACS 2.4.1.1 and FL DSG Page I-23]
	3	Procedures are specified for operation of the collection/transmission system during construction if work is performed on a system currently in operation. [RSWF 20.15]
	4	Except for on-lot facilities, the project is designed to be located on public rights-of-way, land owned by the permittee, or easements (surveyed or implied) and located no closer than 100 feet from a public drinking water supply well and no closer than 75 feet from a private drinking water supply well; or documentation is provided in Part II.(5)B., showing that another alternative will result in an equivalent level of reliability and public health protection. [62-604.400(1)(b) and (c),, F.A.C.]
	5	Systems must be designed on the basis of the type of pressurization unit employed and peak flows from the number of people to be served by the system. [FL DSG Page I-14]
	6	Specifications require all materials of construction be capable of withstanding the environmental conditions of service. All components of the STEP system exposed to the atmosphere (not always submerged) must be highly resistant to corrosion. [FL DSG Page I-12, RSWF 42.25]
	7	The project is designed so that all new or relocated, buried sewers and force mains, are located in accordance with the separation requirements from water mains and reclaimed water lines of Rules 62-604.400(2)(g) and (h), F.A.C. Note, if the criteria of Rules 62-604.400(2)(g) 4. or (2)(h)3., F.A.C., are used, describe in Part II.(5)B. alternative construction features that will be provided to afford a similar level of reliability and public health protection. [62- 604.400(2)(g) and (h), F.A.C.; 62-555.314, F.A.C.]
	8	The project is designed with no physical connections between any potable water supplies and pump stations. If a potable water supply is brought to a station, reduced-pressure principal backflow-prevention assemblies are specified. [RSWF 42.9 and 62-555.360, F.A.C.]
	9	Specifications require the contractor keep a signed approved record copy of all specifications, plans, addenda, supplementary drawings, working drawings, change orders and similar documents in good order at the construction site and at another convenient location where they are readily available. [FL DSG Page III-14]
	10	Specifications include a maintenance plan and schedule for end users. Specifically, the plan shall include responsibilities of maintenance be it the end user or wastewater managing authority and schedules for float switch cleaning/repair (annually), STEP system effluent screens (annually) and septic tank inspection and solids/scum removal (3-5 years). Spare parts must also be addressed in the maintenance plan. [MOPFD-12 Pages 88, 225, and 270 - 279]

Septic Tank and Wetwell Design

Initials (or "NA" or "NC")	Item Number	Requirement
	11	Pressurization unit covers and septic tank risers incorporate locking mechanisms which

Initials (or "NA" or "NC")	Item Number	Requirement
		provide relief under emergency conditions. [FL DSG Page I-12 and II-6]
	12	Pressurization units are properly vented. (Underwriters Laboratory 778 does not consider grinder pumps to be hazardous locations as defined in the National Electrical Code). [FL DSG Page I-12 and II-14 EPA ACS 2.4.7)
	13	STEP system septic tanks are vented through the building plumbing stack. [MOPFD-12 Page 244]
	14	For grinder pump station designs, the minimum storage capacity required is 50 gallons (additional storage capacity may be required based on local conditions). Storage capacity is determined by the operating volume (volume between the pump off and alarm) plus the reserve volume (volume between the alarm level and the top of the basin). [MOPFD-12 Page 62]. STEP system septic tank residual capacity is at least 100 gallons and 50 gallons storage capacity (as defined above) in the pressurization unit. (FL DSG Page I-13 and II-1]
	15	In areas with high water tables, grinder pump stations and septic tanks are designed to withstand flotation forces when empty. When siting the pressurization unit, the design considers the potential for damage or interruption of operation because of flooding. Pressurization unit structures and electrical and mechanical equipment are designed to be protected from physical damage by the 100-year flood. Pressurization units are designed to remain fully operational and accessible during the 25-year flood unless lesser flood levels are appropriate based on local considerations, but not less than the 10-year flood. FEMA flood elevations can be found at: https://msc.fema.gov/portal/home [62-604.400(2)(e), F.A.C., FL DSG Pages II-1 and II-4, MOPFD-12 Page 259]
	16	Septic tanks should be located in areas not subject to vehicular traffic but if subject to vehicular traffic, shall be provided with an approved structural design and have traffic lids designed to withstand vehicular traffic. [FL DSG Page II-1]
	17	STEP system septic tanks are located where they are easily accessible for periodic inspection and removal of accumulated solids. [MOPFD-12 Page 243]
	18	STEP system septic tank materials specified are corrosion resistant as shown by test, experience, or analysis. [FL DSG Page II-4]
	19	Provisions are included to ensure water-tightness of septic tanks when used in pressure sewers, including tank covers, manhole risers and covers, and inlet and outlet connections. [FL DSG 2(5), MOPFD-12 p225, 246]
	20	Septic tank construction shall meet the requirements of Chapter 64E-6, F.A.C., or department regulations
	21	Specifications include provisions for tank inspection of any existing septic tank to be converted for use in a pressure system (vacuum testing is preferred) and if determined to not be watertight, the tank shall be replaced. [FL DSG Page II-6, MOPFD-12 Pages 24,25,236, and 246, EPA ACS 2.5.3]
	22	Specifications include provisions to require that pressurization units are watertight and structurally sound. The specifications include a loading diagram depicting the loads the tank will be subjected to, commensurate with burial depth, groundwater depth, soil types, foundation, bedding and backfill to be used, and other parameters. [MOPFD-12 Page 44]

Appurtenances

Initials (or "NA" or "NC")	Item Number	Requirement
	23	Grinder pump systems and STEP septic tank effluent filters are NSF/ANSI 46 (Wastewater Treatment System Components and Devices) certified. If the systems are not NSF 46 certified, provide a list of the items that have not been tested and demonstrated to pass through the system without issue. [FL DSG Pages II-6 and 9]
	24	STEP system effluent pumps are of cast iron, bronze, and/or plastic construction of the centrifugal type with submersible motor. Pumps are mounted in the pump wetwell or septic tank on three integral support feet or base. [FL DSG Page II-9]

Initials (or "NA" or "NC")	Item Number	Requirement
	25	Specifications include measures for the control/alarm panel to be located outside the house in full view of the pressurization unit and contained in a lockable or tamper-free, corrosion-proof and weatherproof NEMA 4x (or greater) enclosure. [FL DSG Page I-13, MOPFD-12 Page 12]
	26	Specifications include provisions that grinder pump systems and STEP systems utilize an audio and visual high-water level alarm. [FL DSG Page II-13]
	27	For all pressurization unit designs, a check valve is installed in the internal piping on the discharge side of either the grinder pump or STEP system. A redundant check valve may also be installed between the discharge coupling of the wetwell and the pressure sewer main connection. [FL DSG Page II-15, MODFD-12 Page 12, 57]
	28	The design includes a gate or ball valve to be located in the pressurization unit wetwell to prevent backflow when the pressurization unit is removed for service. (FL DSG 2(G)(4)) (MOPFD-12 p12, 64)
	29	The design includes a corporation stop or U-valve to be installed near the service line/pressure sewer main connection to isolate the service line at each service. Service lines are specified to be installed at right angles to the main. [FL DSG Page II-16, EPA ACS 2.4.2.2(e), MOPFD-12 Page 39, 56]
	30	Specifications require boxes and vaults for air release facilities, cleanouts and other appurtenances to be sized to permit easy removal of the facilities, and to permit operation of the valves. The available space inside of a grinder pump station or septic tank is acceptable for valves, discharge piping and other appurtenances. [FL DSG Page III-12]
	31	Designs for all valves shall be full-diameter opening to permit cleaning with a polypig or other devices. Valves in nonmetallic pressure sewer pipelines shall be iron, bronze, PVC, nylon or other approved material and shall have screwed or flanged ends. Valves in metal pressure sewer pipelines shall be iron body, bronze mounted with flanged or mechanical joint ends, except that in the smaller sizes, valves may be all bronze with screwed ends. [FL DSG Page III-12]
	32	The specifications include provisions for all valves to be hydrostatically shop pressure tested at 1,725 kPa (25.0 psi) first by applying the hydrostatic pressure with the valve in the open position and then with the valve in the closed position. Valves failing to be tight and secure under the test pressure shall be rejected for pressure sewer installations. [FL DSG Page III-12]
	33	For designs with valves installed on pressure sewers constructed with flexible pipe materials, the design shall not have the valve supported by the pipe but shall be supported by an anchored concrete cradle or concrete block. [FL DSG Page III-12]
	34	Specifications must provide provisions for valve boxes to be constructed of vehicular traffic-rated plastic or coated cast iron and set into position during backfilling operations so they will be in a vertical alignment and parallel to the valve operating stem. The lower casing of the unit shall be first installed in such a manner as to be cushioned and to not rest directly upon the body of the valve or upon the pressure sewer main. The upper casing of the unit shall then be placed in proper alignment and adjusted to final grade. Backfilling shall be placed and compacted uniformly around the structure so as not to disturb the vertical alignment. [FL DSG Page III-12]
	35	For STEP systems, specifications include effluent screens. [EPA ACS 2.4.6.1, MODFD-12 Page 226]
	36	Specifications call for all appurtenances to be properly labeled to avoid confusion with potable water and other utility services [MOPFD-12 Page 40, FL DSG Page III-12]

Electrical

Initials (or "NA" or "NC")	Item Number	Requirement
	37	The design includes pressurization units and control/alarm panels listed by testing

Initials (or "NA" or "NC")	Item Number	Requirement
		laboratories, e.g. Underwriters Laboratories (UL), Canadian Standards Association, or Factory Mutual. [EPA ACS 2.4.4.2, MOPFD-12 Page 79]
	38	In pressurization units, pump motor connections must be watertight [FL DSG Page I-13]
	39	Specifications require conduit ends to be sealed to prevent moisture and corrosive gases from traveling though the conduit and into the control/alarm panel. [MOPFD-12 Page 79]
	40	For grinder pumps, single-phase motors shall be of the capacitor start/capacitor run type for high starting torque. All grinder pumps shall be standard commercial shop-tested to include visual inspection to confirm construction in accordance with the specifications for correct model, horsepower, cord length, impeller size, voltage, phase and hertz. [FL DSG Page II-9]
	41	Designs for grinder pumps require: Since the single-phase submersible centrifugal grinder pump has a capacitor start type motor, the capacitors and start relays must be located in a separate control panel enclosure. • The control panel should include, but not be limited to, a magnetic starter with ambient compensated bimetallic overload relay. • The relay should have a test button for simulation of overload trip and manual reset button. • Fault protection should be provided via a molded case magnetic circuit breaker with internal common trip or multiple poles. • A hand-off-automatic toggle switch for hand operation with a green light to indicate the pump-running mode should be provided for each grinder pump and mounted on a bracket inside the control panel enclosure. • The control panel enclosure should be of high-quality construction that meets state and local safety codes as well as national electrical codes. • Should there be a power failure, grinder pump malfunction, or flooded wetwell, pump controls and wiring must be accessible and comply with all code regulations to ensure safety of the service user or operating personnel. • As an alternate an explosion-proof combination motor control/junction box may be installed inside the grinder pump wetwell. Semi-positive displacement pumps having the starter and capacitor located in the pump core require only a standard junction box hook-up to the power source. [FL DSG II-12]
	42	Designs for STEP systems require: Effluent pump starters and capacitors are located inside the motor housing and do not require a separate control panel containing these components. [FL DSG II-13]
	43	Specifications require the wiring to connect grinder pump or STEP systems to the power source be suitable for direct burial and comply with state and local electrical codes. Wiring for the level sensors and control panel (if required) must also comply with these requirements. [FL DSG Page II-13]

Force Mains and Service Lines

Initials (or "NA" or "NC")	Item Number	Requirement
	44	The project is designed with no physical connections between a public or private potable water supply system and a sewer or force main and with no water pipes passing through or coming into contact with any part of a sewer manhole. [RSFW 38.1 and 48.5]
	45	Grinder pump force mains are designed to occur, at design pumping rates, a cleansing velocity of at least 2 feet per second (1 ft/second for STEP system force mains) once or twice daily. Maximum velocities shall not exceed 8 feet per second. Pipe sizes shall be determined based on these criteria. FL DSG Page I-16, RSWF 42.38, EPA ACS 2.4.1.2, MOPFD-12 Pages 49, 238]
	46	For projects with existing building sewer service lines, the specifications note that the existing building sewers shall be inspected as described in the Uniform Plumbing Code and

Initials (or "NA" or "NC")	Item Number	Requirement
		replaced if not watertight. [MOPFD-12 Page 243]
	47	Designs utilize the following: when calculating friction losses through pressure mains, utilize a Hazen-Williams roughness coefficient C in English units of 130 to 150 for Polyvinyl Chloride (PVC) and High-Density Polyethylene Pipe (HDPE). [FL DSG Page I-16]
	48	The design shows each building sewer with a cleanout located outside and close to the structure (building or home) and/or at the point of demarcation between building owner and district maintenance. [MOPFD-12 Pages 60 - 61]
	49	Specified pressure main pipe and joints are equal to water main strength materials suitable for design conditions. (FL DSG Table 1-5(5)) [RSWF 48.4, FL DSG Pages II-15, and III-1 through 4.]
	50	Where pressure mains are constructed of material that might cause the pressure main to be confused with potable water mains, specifications require the force main to be clearly identified. [RSWF 48.7]
	51	Specifications include measures for inductive wire (toning cable) to be buried with pressure mains for future location assistance. [FL DSG Pages I-20 and III-13, EPA ACS 2.4.2.1.c, MOPFD-12 Page 266]
	52	The design includes cleanouts and/or shutoff valves to be located at all pipe junctions, pipe terminations, and at locations where pipe sizes change. Note, this requirement may be fulfilled in phases for new developments with approval of the Department. Stub outs on pressure mains are placed in anticipation of future connections and equipped with a valve to allow such connection without interruption of service. At intersections, valves are placed on the upstream side so that individual incoming pipes can be isolated without cutting off service to the other branches. Isolation valves shall always be fully ported type valves. [FL DSG Page I-21 and III-12, EPA ACS 2.4.5.1, MOPFD-12 Pages37 and 55, 62-604.400(2)(f), F.A.C.]
	53	Designs include the spacing of inline shut-off valves at least every 600 ft in high-density areas and not more than 1000 ft in low-density areas. [FL DSG Page I-21]
	54	Designs provide for wastewater type air relief valves to be placed at high points in the force main to prevent air locking. Automatic air release valves are designed to prevent wastewater solids and grease from reaching the valve operating mechanism. Air and gases are released from the valve by float action. Air Release valves are provided for downslopes in excess of 10%. Provisions for cleaning the valve by backflushing shall be provided. [RSWF 48.2, FL DSG Pages I-22 and III-11, EPA ACS 2.4.2.1.e and 2.4.5.2, MOPFD-12 Pages 12 and 38]
	55	The design provides for adequate preventive measures to avoid the accumulation of gases and air in pressure sewer mains. These include: • Submersion of pressurization unit pump intake to prevent siphoning or vortexing after shut-off. • Proper design to prevent undue retention time of wastes in pressure sewer where biological and chemical activity may produce gases. [FL DSG Page I-22]
	56	The design minimizes the liberation of hydrogen sulfide gas where appropriate, such as at discharges to conventional gravity sewers. For example, the connection point of a pressure sewer system to a conventional gravity sewer system should be designed by introducing the pressure sewer discharge into the stream of the gravity sewer main or equal alternative. [FL DSG Page I-23]
	57	Leakage tests for force mains are specified including testing methods and leakage limits. [RSWF 48.8]
	58	Specifications require service lines to be installed at a depth sufficient to prevent any mechanical damage but not less than 1 foot. [FL DSG Page II-16]
	59	Specifications require all pressure sewer mains to be constructed to a minimum depth of 30 inches or as required and as measured from the final ground surface to the top of the barrel of the pipe. [FL DSG Page III-4, MOD FD-12 Page 11]
	60	Specifications require pressure sewer main installation be in accordance with AWWA C600 for ferrous pressure pipe, D2774 for thermoplastic pressure sewer pipe, ASTM 3839 for

Initials (or "NA" or "NC")	Item Number	Requirement
		thermosetting pressure sewer pipe or approved manufacturers' written installation instructions. [FL DSG Page III-6]

Bridge and Stream Crossings

Initials (or "NA" or "NC")	Item Number	Requirement
	61	The low pressure sewer system or STEP system is designed to meet the "Stream Crossings" portion (Items 27-33) of the Collection/Transmission System Design Information beginning on page 4 of DEP Form 62- 604.300(3)(a), Notification/Application for Constructing a Domestic Wastewater Collection/Transmission System. [62-604.300(3)(a), F.A.C.]

Emergency Operations

Initials (or "NA" or "NC")	Item Number	Requirement
	62	Pump stations are designed with an alarm system which activates in cases of pump failure, or high level. The audio-visual alarm system shall have a self-contained power supply. [RSWF 46]
	63	Generators are not required for individual grinder pump stations, however if emergency electric generation systems are utilized, they shall have sufficient capacity to start up and maintain the total rated running capacity of the station. [62-604.400(2)(a)3., F.A.C., and RSWF 47.431]
	64	The design provides for emergency equipment to be protected from operation conditions that would result in damage to the equipment and from damage at the restoration of regular electrical power. [RSWF 47.411, 47.417, and 47.432]

Conventional Force Mains, Pump Stations, Gravity Sewers and Manholes

Initials (or "NA" or "NC")	Item Number	Requirement
	65	For conventional force mains, pump stations, gravity sewers and manholes used after leaving the lower pressure sewer system or STEP system, the project design meets the "General Requirements" and applicable portions of the Collection/Transmission System Design Information beginning on page 2 of DEP Form 62-604.300(3)(a), Notification/Application for Constructing a Domestic Wastewater Collection/Transmission System. [62-604.300(3)(a), F.A.C.]

Attachment II – Requirements for a Vacuum Sewer System

General

Initials (or "NA" or "NC")	Item Number	Requirement
	1	The project is designed based on an average daily flow of 100 gallons per capita plus wastewater flow from industrial plants and major institutional and commercial facilities unless water use data or other justification is used to better estimate the flow. [RSWF 11.243]
	2	The design includes an appropriate peaking factor (minimum ratio of 3 for peak hour/design average flow). [RSWF 11.243]
	3	Procedures are specified for operation of the existing collection/transmission system during construction if work is performed on a system currently in operation. [RSWF 20.15]
	4	Except for on-lot facilities, the project is designed to be located on public rights-of-way, land owned by the permittee, or easements. [62-604.400(1)(b), F.A.C.]
	5	A central management entity, be it public or private, is identified for operation and maintenance of the on-lot facilities associated with alternative collection/transmission systems. [FL DSG Page I-24 and 62-604.400(4), F.A.C.]
	6	The project is designed to be located no closer than 100 feet from a public drinking water supply well and no closer than 75 feet from a private drinking water supply well; or documentation is provided showing that another alternative will result in an equivalent level of reliability and public health protection. [62-604.400(1)(c), F.A.C.]
	7	The project is designed with no physical connections between a public or private potable water supply system. [RSWF 38.1 and 48.5]
	8	The project is designed to preclude the deliberate introduction of storm water, surface water, groundwater, roof runoff, subsurface drainage, swimming pool drainage, air conditioning system condensate water, non-contact cooling water and sources of uncontaminated wastewater. [62-604.400(1)(d), F.A.C.]
	9	At the completion of each day's work, testing on vacuum mains and vacuum service pit connections laid that day is specified requiring; 1) the completed portion of the system be plugged and subjected to a vacuum of 22 inches Hg and then allowed to stabilize for 15 minutes prior to monitoring; and 2) a vacuum loss of less than l % per hour during the minimum testing period of 2 hours. [MOPFD-12 #1 Page 205]
	10	Final testing on completed vacuum mains and vacuum service pit connections is specified requiring: 1) the completed portion of the system be plugged and subjected to a vacuum of 22 inches Hg and then allowed to stabilize for 15 minutes prior to monitoring; and 2) a vacuum loss of less than l % per hour during the minimum testing period of 4 hours. [MOPFD-12 #2 Page 205]

Vacuum Collection System

Initials (or "NA" or "NC")	Item Number	Requirement
	11	The entire piping network is designed to keep the bore of the entire pipeline open; sections of pipeline are not purposely sealed. [MOPFD-12 #2 Page 200]
	12	The vacuum sewer system is designed with a minimum air-to-liquid ratio of two parts air to one part liquid. [MOPFD-12 #5 Page 200]
	13	The vacuum sewer system is designed with a maximum static loss of 13 feet and a maximum friction loss of 5 feet in any single flow path. [MOPFD-12 #6 and #7 Page 200]
	14	The project is designed with no vacuum sewer mains less than 4 inches in diameter. [MOPFD-12 #2 Page 201]
	15	Pipe and fittings for vacuum sewer pipe is SDR 21 pressure rated PVC pipe with double-lipped, pushon gasketed joints. [MOPFD-12 #13 Page 202 and Page 129]
	16	General design configuration for uphill transport is based on a saw tooth pipeline profile;

Initials (or "NA" or "NC")	Item Number	Requirement
		or documentation is provided showing other vertical profiles are justified by appropriate engineering data. [MOPFD-12 #1 Page 201]
	17	When vacuum sewer mains or branches must ascend a hill, multiple lifts are designed at a minimum distance of 20 feet apart. Between each lift, vacuum lines are installed with a uniform slope, so that minimum fall of 0.25 feet is achieved between these lifts. [MOPFD-12 #10 Pages 201 and 202]
	18	The project is designed with no single lift of vacuum sewer main exceeding 3 feet in height. [MOPFD-12 #6 Page 201]
	19	The project is designed with 5 maximum lifts in a series. A series of 5 lifts is designed to be separated by at least 100 feet of vacuum mains from the next lift or series of lifts, at least one energy input is designed in the zone of separation. [62-4.070(3), F.A.C.]
	20	If not uphill transport, vacuum sewer mains are designed with a minimum slope of 0.20%. For profile changes less than 125 feet apart, the minimum fall between profile changes is 0.25 feet. [MOPFD-12 #3 Page 201]
	21	If directional drilling, installation tolerances for vacuum sewer main slope are specified the same as those required for open trenching. [62-4.070(3), F.A.C.]
	22	The maximum design flows (i.e., peak flows) for vacuum sewer main sizing is designed as follows: 4-inch pipe/38 gallons per minute (gallons per minute (gpm)); 6-inch pipe/105 gpm; 8-inch pipe/210 gpm; and 10-inch pipe/375 gpm. For vacuum mains larger than 10-inches, flow data supports the peak design flow capacity of that pipe size. [MOPFD-12 #4 Page 201]
	23	The project is designed with 2000 feet maximum length for any one run of 4-inch diameter vacuum sewer main. [MOPFD-12 #5 Page 201]
	24	For changes in horizontal alignment, two 45-degree bends connected by a short section of piping are designed, rather than one 90-degree bend. [MOPFD-12 #8 Page 201]
	25	The project is designed with isolation valves at every branch connection and at intervals no greater than 1500 feet on vacuum sewer mains. Resilient coated wedge gate valves and a valve box or other approved apparatus, to facilitate proper use of the valve, are specified. [MOPFD-12 #9 Page 201]
	26	The vacuum sewer system is designed to prevent damage from superimposed loads. [RSWF 33.7]
	27	The vacuum sewer system is designed to meet the "Stream Crossings" portion (Items 27-33) of the Collection/Transmission System Design Information beginning on page 4 of DEP Form 62- 604.300(3)(a), Notification/Application for Constructing a Domestic Wastewater Collection/Transmission System. [62-604.300(3)(a), F.A.C.]
	28	The project is designed so that all new or relocated, buried vacuum sewers, are located in accordance with the separation requirements from water mains and reclaimed water lines of Rules 62-604.400(2)(g) and (h), F.A.C. Note, if the criteria of Rules 62-604.400(2)(g) 4. or (2)(h)3., F.A.C., are used, describe in Part II.(5)B. alternative construction features that will be provided to afford a similar level of reliability and public health protection. [62-604.400(2)(g) and (h), F.A.C.; 62-555.314, F.A.C]

Vacuum Valves

Initials (or "NA" or "NC")	Item Number	Requirement
	29	Vacuum valves with the ability to pass a 3-inch spherical solid are specified. [MOPFD-12 #1 Page 204]
	30	Valves that are vacuum-operated on opening and spring-assisted on closing are specified. [MOPFD-12 #2 Page 204]
	31	Valve configuration is designed so that the collection system vacuum ensures positive valve seating. Valve plunger and shaft is designed to be completely out of the flow path when valve is in the open position. [MOPFD-12 #3 Page 204]

Initials (or "NA" or "NC")	Item Number	Requirement
	32	The valve is designed to be equipped with a sensor-controller that relies on atmospheric air and vacuum pressure from the downstream side of the valve for its operation, thereby requiring no other power source. The controller is designed to be capable of maintaining the valve fully open for a fixed period of time and be field-adjustable over a range of 3 to 10 seconds. [MOPFD-12 #4 Page 204]
	33	With the exception of the gravity lateral line air-intake, no other external sources of air are designed as a part of the valve assembly. [MOPFD-12 #5 Page 204]
	34	An internal sump breather unit arrangement is designed to connect the valve controller to its air source and provide a means of ensuring that no liquid can enter the controller during system shutdowns and restarts. It shall also be designed to prevent sump pressure from forcing the valve open during low vacuum conditions and provide positive sump venting, regardless of traps in the home gravity service line. [MOPFD-12 #6 Page 204]

Valve Pits

Initials (or "NA" or "NC")	Item Number	Requirement
	35	Peak flow to any vacuum valve pit is designed to a maximum of 3 gallons per minute. [MOPFD-12 #3 Page 202]
	36	When specific valve service lines having suction lifts in excess of 5.5 feet are designed, the static losses added to the losses for that main do not exceed 13 feet. [MOPFD-12 #6 Page 200]
	37	Suction lifts from the bottom of the holding sump to the valve centerline do not exceed 8 feet. [MOPFD-12 #6 Page 200]
	38	A single valve pit is designed to serve a maximum of four separate building sewers, but no more than 3 gallons per minute. [MOPFD-12 #1 Page 202]
	39	On a system-wide design basis, the overall separate building sewer to valve pit ratio does not exceed 2.5: l. [MOPFD-12 #1 Page 202]
	40	No single property or parcel is designed to be served by more than one valve pit, unless justification is provided to support multiple valve pits. [MOPFD-12 #2 Page 202]
	41	Valve pits installed within a road right-of-way or other area subject to vehicular traffic shall be designed and installed to withstand appropriate traffic loads. [MOPFD-12 #4 Page 202]
	42	Valve pits are designed to have a receiving sump with a minimum of 50 gallons of storage. [MOPFD-12 #5 Page 202]
	43	Valve pits are designed to prevent entrance of water in the sump and for the vacuum valve to remain fully operational if submerged. [MOPFD-12 #6 Page 203]
	44	Valve pit locations are designed to be easily accessible, so that valves may be easily removed and replaced. [MOPFD-12 #7 Page 203]
	45	Valve pits are designed to include a 3" flexible PVC connector connected directly to the valve pit between the valve pit and vacuum sewer main. [MOPFD-12 Page 162]
	46	Valve pits are designed to include gravity service connection stub-outs piping to which the sewer customer will ultimately connect. Customer connections are designed via gravity flow to the vacuum pit location. [MOPFD-12 #9 Page 203 and #1 Page 209]

Buffer Tanks

Initials (or "NA" or "NC")	Item Number	Requirement
	47	Buffer tanks are designed instead of single valve pits if there are nonresidential/commercial or high flow inputs greater than 3-gpm peak flow or if there is no other practical method of serving the property by additional vacuum mains and valve pits. [MOPFD-12 #1 Page 203]

Initials (or "NA" or "NC")	Item Number	Requirement
	48	Buffer tanks are designed to have an operating sump of no less than 10 gallons at a wastewater depth of 10 to 14 inches. [MOPFD-12 #3 Page 203]
	49	No more than 25% of the total peak design flow on a system-wide basis is designed to enter through buffer tanks, unless justification is provided depending on static and friction loss and buffer tank location. [MOPFD-12 #4 Page 203]
	50	No more than 50% of the total peak design flow is designed to enter a single vacuum main through buffer tanks, unless justification is provided depending on static and friction loss and buffer tank location. [MOPFD-12 #5 Page 203]
	51	One 3-inch vacuum valve is designed to be used for every 15 gpm at peak wastewater flow. For higher flows, the wastewater is designed to be admitted to a splitter manhole which will evenly split and divert the flow to multiple valve buffer tank units. [MOPFD-12 #6 Page 203]
	52	When specific buffer tank valve pits having suction lifts in excess of 5.5 feet are designed, the static losses added to the losses for that main do not exceed 13 feet. [MOPFD-12 #6 Page 200]
	53	Suction lifts from the bottom of the holding sump to the valve centerline do not exceed 8 feet. [MOPFD-12 #6 Page 200]
	54	Dual buffer tanks are designed to be connected to a 6-inch or larger vacuum main; where three or more valves are used, an 8-inch vacuum main or larger is specified. [MOPFD-12 #7 Page 204]
	55	The design requires: 1) buffer tanks be constructed of minimum 4-feet internal diameter precast concrete manhole sections; and 2) all joints and connections on the buffer tank must be water-tight. Above ground venting of the vacuum valve must be installed, to ensure proper venting, in the event that the buffer tank becomes filled with wastewater. [MOPFD-12 #8 Page 204]
	56	Provisions are included with the buffer tank design to allow for separation of the valve access area from the sanitary wastewater storage area. [MOPFD-12 #9 Page 204]
	57	Provisions are included with the buffer tank design for maintenance personnel access. [MOPFD-12 #9 Page 204]

Individual Gravity Laterals

Initials (or "NA" or "NC")	Item Number	Requirement
	58	Inspection and approval of individual gravity laterals are specified before final connection and vacuum valve installation requiring: 1) laterals be no less than 4 inches in diameter; and 2) laterals be schedule 40 PVC or pressure-rated PVC (SDR 21 or SDR 26) or similar. [MOPFD-12 #2 and #5 Page 210]
	59	Air-intakes for each individual gravity lateral are specified requiring that: 1) air-intake piping and fittings be the same diameter as the lateral; 2) air-intakes extend a minimum of 2 feet above ground level with a gooseneck to protect against flooding; 3) air-intakes contain a stainless-steel screen to prevent the entry of rodents, insects, and debris; and 4) air-intakes be located to prevent damage to the piping. As an alternative to air-intakes, 6-inch Dedicated Air Terminals are specified. [MOPFD-12 #8 Page 203 and #4 Page 210]

Vacuum/Pump Stations

Initials (or "NA" or "NC")	Item Number	Requirement
	60	In areas with high water tables, stations are designed to withstand flotation forces when empty. When siting the station, the design considers the potential for damage or interruption of operation because of flooding. Station structures and electrical and

Initials (or "NA" or "NC")	Item Number	Requirement
		mechanical equipment are designed to be protected from physical damage by the 100-year flood. Stations are designed to remain fully operational and accessible during the 25-year flood unless lesser flood levels are appropriate based on local considerations, but not less than the 10-year flood. [62-604.400(2)(e), F.A.C.]
	61	Stations are designed to be readily accessible by maintenance vehicles during all weather conditions. [RSWF 41.2]
	62	The total volume of the vacuum collection tank is designed to be three times the collection tank operating volume, plus 400 gal, with a minimum size of 1000 gallons. [MOPFD-12 #3 Page 207]
	63	Necessary pipe, fittings, and valves are specified to allow for emergency pumping out of the vacuum collection tank. [MOPFD-12 #9 Page 206]
	64	A minimum of two pumping units are specified for both the vacuum pumps and the wastewater pumps, with each being capable of handling peak flow conditions with the other out of service. [MOPFD-12 #3 Page 206]
	65	The design includes provisions to automatically alternate the pumps in use. [RSWF 42.4]
	66	Vacuum pumps are designed for both peak flow from the vacuum valves adjusted to a 2:1 air-liquid inlet time ratio and for a system pump down time between 1 and 3 minutes with one pump not in service. [MOPFD-12 #2 Page 207 and 208]
	67	Wastewater discharge pumps are designed using an appropriate peaking factor. [MOPFD-12 #2 Page 206 and 207]
	68	Pumps handling raw wastewater are designed to pass spheres of at least 3 inches in diameter. Pump suction and discharge openings are designed to be at least 4 inches in diameter. Note, this is not applicable to grinder pumps. [RSWF 42.33]
	69	The design requires pumps be placed such that under normal operating conditions they will operate under a positive suction head. [RSWF 42.34]
	70	Wastewater discharge pumps are adequate to maintain a minimum velocity of 2 feet per second in the force main. [RSWF 42.38]
	71	Certification is specified from the pump manufacturer stating that wastewater discharge pumps are suitable for use in a vacuum sewer installation. [MOPFD-12 #5 Page 206]
	72	The design requires: 1) suitable shutoff valves (plug valves or resilient coated wedge gate valves) be placed on the suction line of wastewater discharge pumps; 2) suitable shutoff and check valves be placed on the discharge line of each wastewater discharge pump; 3) a check valve be located between the shutoff valve and the wastewater discharge pump; 4) check valves be suitable for the material being handled; 5) check valves be placed on the horizontal portion of discharge piping (except for ball checks, which may be placed in the vertical run); 6) all valves be capable of withstanding normal pressure and water hammer; and 7) all shutoff and check valves be operable from the floor level and accessible for maintenance. [MOPFD-12 #6 and #8 Page 206 and RSWF 42.5]
	73	Isolation valves are specified between the vacuum collection tank, vacuum pump(s), influent line, and raw wastewater discharge pipe. [MOPFD-12 #7 Page 206]
	74	Vacuum station piping and fittings 4 inches and larger are specified to be 150 #ANSI flanged ductile iron. Piping and fittings less than 4 inches are specified to be schedule 80 PVC with solvent-welded joints. [MOPFD-12 #10 Page 206]
	75	Station testing requirements are specified in accordance with the vacuum system manufacturer's standard. [MOPFD-12 #12 Page 206]
	76	Instrumentation and control systems to provide operational functionality are specified to manufacturer's standard. Provisions for automatic pump alternation are included in the instrumentation and control system. The instrumentation and control system to bear the UL label, per the requirements of UL 508 and UL 508A. [MOPFD-12 #1 and #2 Page 208]
	77	The design requires: 1) stations be protected from lightning and transient voltage surges; and 2) stations be equipped with lighting arrestors, surge capacitors, or other similar protection devices and phase protection. [62-604.400(2)(b), F.A.C.]
	78	The design provides for adequate ventilation in accordance with RSWF 42.7. [MOPFD-12 Page 208 and RSWF 42.7]

Initials (or "NA" or "NC")	Item Number	Requirement
	79	Electrical equipment and installation are designed to meet the requirements of the National Electrical Code. [MOPFD-12 #2 Page 208]
	80	Adequate temperature control is designed for the main electrical equipment and primary power distribution. [MOPFD-12 #5 Page 209]
	81	Potable water, power, and telephone service is specified to be provided to the vacuum/pump station. [MOPFD-12 #6 Page 209]
	82	Outdoor lighting for security is specified. [MOPFD-12 #9 Page 209]
	83	Stations are designed and located on the site to minimize adverse effects from odors, noise, and lighting. [62-604.400(2)(c), F.A.C.]
	84	The design requires stations be enclosed with a fence or otherwise designed with appropriate features to discourage the entry of animals and unauthorized persons. Posting of an unobstructed sign made of durable weather resistant material at a location visible to the public with a telephone number for a point of contact in case of emergency is specified. [62-604.400(2)(d), F.A.C.]
	85	The design provides for suitable and safe means of access in accordance with RSWF 42.23. [RSWF 42.23]
	86	Specified construction materials are appropriate under conditions of exposure to hydrogen sulfide and other corrosive gases, greases, oils, and other constituents frequently present in wastewater. The ferrous metal components of the vacuum pump station are specified to be protectively coated to prevent corrosion. [MOPFD-12 #11 Page 206 and RSWF 42.25]
	87	The design includes provisions to facilitate removing pumps, motors, and other mechanical and electrical equipment. [RSWF 42.22]
	88	The design requires suitable devices for measuring wastewater flow at all pump stations. Indicating, totalizing, and recording flow measurement are specified for stations with a 350 gpm or greater design peak flow. [RSWF 42.8]
	89	The station is designed with no physical connections with any potable water supplies. If a potable water supply is brought to a station, reduced-pressure principle backflow-prevention assemblies are specified. [RSWF 42.9 and 62-555.360(4), F.A.C.]

Emergency Operations for Vacuum/Pump Stations

Initials (or "NA" or "NC")	Item Number	Requirement
	90	Stations are designed with an alarm system which activates in cases of power failure, pump failure, unauthorized entry, or any cause of pump station malfunction. Station alarms are designed to be telemetered to a facility that is manned 24 hours a day. If such a facility is not available, the alarm is designed to be telemetered to utility offices during normal working hours and to the home of the responsible person(s) in charge of the lift station during off-duty hours. Note, if an audio-visual alarm system with a self-contained power supply is provided in lieu of a telemetered system, documentation is provided showing an equivalent level of reliability and public health protection. [RSWF 46]
	91	The design requires emergency pumping capability be provided for all stations. For stations discharging through pipes 12 inches or larger, the design requires uninterrupted pumping capability be provided, including an in-place emergency generator. Where portable pumping and/or generating equipment or manual transfer is used, the design includes sufficient storage capacity with an alarm system to allow time for detection of station failure and transportation and connection of emergency equipment. [62-604.400(2)(a)1. and 2., F.A.C., MOPFD-12 #4 Page 209 and RSWF 47.423 and 47.433]
	92	The design requires: 1) emergency standby systems to have sufficient capacity to start up and maintain the total rated running capacity of the station, including lighting, ventilation, and other auxiliary equipment necessary for safety and proper operation; 2) special sequencing controls be provided to start pump motors unless the generating equipment

Initials (or "NA" or "NC")	Item Number	Requirement
		has capacity to start all pumps simultaneously with auxiliary equipment operating; 3) a riser from the force main with rapid connection capabilities and appropriate valving be provided for all stations to hook up portable pumps; and 4) all station reliability design features be compatible with the available temporary service power generating and pumping equipment of the authority responsible for operation and maintenance of the collection/transmission system. [62-604.400(2)(a)3., F.A.C. and RSWF 47.431]
	93	The design provides for emergency equipment to be protected from operation conditions that would result in damage to the equipment and from damage at the restoration of regular electrical power. [RSWF 47.411, 47.417, and 47.432]
	94	For permanently installed internal combustion engines, underground fuel storage and piping facilities are designed in accordance with applicable state and federal regulations; and the design requires engines to be located above grade with adequate ventilation of fuel vapors and exhaust gases. [RSWF 47.414 and 47.415]
	95	For permanently installed or portable engine-driven pumps are used, the design includes provisions for manual start-up. [RSWF 47.422]
	96	Where independent substations are used for emergency power, each separate substation and its associated transmission lines is designed to be capable of starting and operating the pump station at its rated capacity. [RSWF 47.44]

Conventional Force Mains, Pump Stations, Gravity Sewers and Manholes

Initials (or "NA" or "NC")	Item Number	Requirement
	97	For conventional force mains, pump stations, gravity sewers and manholes used after leaving the vacuum/pump station, the project design meets the "General Requirements" and applicable portions of the Collection/Transmission System Design Information beginning on page 2 of DEP Form 62- 604.300(3)(a), Notification/Application for Constructing a Domestic Wastewater Collection/Transmission System. [62-604.300(3)(a), F.A.C.]

From:	Lina Quintero
To:	Devine, Nicole; Newburg, Deanna
Cc:	Bobby Romeo; Jonathan Schmidt; Melisa Rotteveel; service@useppa.com; chris despain; Homic, Cierra; Chang, Louise; Blair, Lucy
Subject:	Useppa Nov 2020 SSO CAO
Date:	Monday, April 26, 2021 12:54:34 PM
Attachments:	Useppa Nov 2020 SSO CAO.msg

Good Afternoon Nicole:

Attached is the email I sent to you on 3/19/2021 in response to the 3/12/2021 email. The response was sent to everyone included on the original email.

Thank You,
Lina Maria Quintero, P.E.
Regional Manager
U.S. Water Services Corporation
9841 Bernwood Pl. Drive, Suite 120
Fort Myers, FL 33966
Cell: (727) 858-2396
Fax: (239) 543-2226
lquintero@uswatercorp.net

From: Devine, Nicole <Nicole.Devine@FloridaDEP.gov>
Sent: Monday, April 19, 2021 11:52 AM
To: Bobby Romeo <bromeo@uswatercorp.net>
Cc: Jonathan Schmidt <jschmidt@uswatercorp.net>; Melisa Rotteveel <mrotteveel@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>; service@useppa.com; chris despain <utilities@useppa.com>; Homic, Cierra <Cierra.Homic@FloridaDEP.gov>; Chang, Louise <Louise.Chang@floridadep.gov>; Blair, Lucy <Lucy.Blair@FloridaDEP.gov>
Subject: RE: Useppa Nov 2020 SSO CAO

Good Morning,

Please see the email below regarding Useppa (FLA014494) and the SSO CAO for the spill in November and provide a response to the Department **no later than 04/26/2021.**

If any additional time is needed to respond, please submit a timeline for Department review. It is the Department's desire that you are able to adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

If you have any questions or concerns, please do not hesitate to reach out to me.

Thanks,

Attachment 4-1
Communication Date 01/04/22

From:	Lina Quintero
To:	Devine, Nicole
Cc:	Jonathan Schmidt; Melisa Rotteveel; service@useppa.com; "chris despain"; Homic, Cierra; Chang, Louise; Blair, Lucy
Subject:	Useppa Nov 2020 SSO CAO

Good Morning Nicole:

The abnormal event reported in November 2020 for the wastewater plant was not a flooding issue, it was a hydraulic overloading issue due to the storm ETA. Bypassing the filters was only a temporary modification for few hours, to protect the units and also to handle the abnormal influent flows caused by the storm. The design of the filters in not based on a 25-year flood, they are designed to handle peak flow per square foot and per the last permit application submitted and approved by the Department, the current capacity of the filters is within the design standards.

Thank You,
Lina Maria Quintero, P.E.
Regional Manager
U.S. Water Services Corporation
9841 Bernwood Pl. Drive, Suite 120
Fort Myers, FL 33966
Cell: (727) 858-2396
Fax: (239) 543-2226
lquintero@uswatercorp.net

From: Devine, Nicole <Nicole.Devine@FloridaDEP.gov>
Sent: Friday, March 12, 2021 11:15 AM
To: Bobby Romeo <bromeo@uswatercorp.net>
Cc: Jonathan Schmidt <jschmidt@uswatercorp.net>; Melisa Rotteveel <mrotteveel@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>; service@useppa.com; chris despain <utilities@useppa.com>; Homic, Cierra <Cierra.Homic@FloridaDEP.gov>; Chang, Louise <Louise.Chang@floridadep.gov>; Blair, Lucy <Lucy.Blair@FloridaDEP.gov>
Subject: RE: Useppa Nov 2020 SSO CAO

Good Morning Mr. Romeo,

Upon further review of the response to the CAOL, sent to the facility on 1/6/2021, the Department finds the response to be non-compliant with the current permit. Specifically, bypassing the filters would violate F.A.C. Rule 62-620.300(5) (outlined below for you reference). If the filters and/or collection system cannot handle these events (up to a 25-year flood), then they will need to be re-evaluated by a licensed engineer to ensure functionality and compliance with the permit. Please provide a response to the Department describing the actions taken, or to be taken, to prevent future SSOs of this nature **no later than 03/26/2021**.

F.A.C. Rule 62-620.300(5): states that a permitted wastewater facility or activity shall not be operated, maintained, constructed, expanded, or modified in a manner that is inconsistent with the terms of the permit.

Sent: Wednesday, January 13, 2021 2:20 PM
To: Devine, Nicole <Nicole.Devine@FloridaDEP.gov>
Cc: Jonathan Schmidt <jschmidt@uswatercorp.net>; Melisa Rotteveel <mrotteveel@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>; service@useppa.com; chris despain <utilities@useppa.com>
Subject: Re: Useppa Nov 2020 SSO CAO

Ms. Devine,

Please see the attached revised letter for Useppa, to include the correct facility.

On Wed, Jan 13, 2021 at 10:56 AM Bobby Romeo <bromeo@uswatercorp.net> wrote:

> Ms. Devine,
>
> Attached for the Departments review is a response to your letter dated January 6th, 2021 for the Useppa Island WWTP.
>
> --
> **Bobby Romeo**
> **U.S. Water Services Corporation**
> **Compliance Quality Control**
> (352) 281-0768

--
Bobby Romeo
U.S. Water Services Corporation
Compliance Quality Control
(352) 281-0768

Dep Customer Survey

WWTP MALFUNCTION / ABNORMAL EVENT REPORT

Please note for accordance with the Florida Administrative Code (F.A.C.) Rules. This form is provided for your convenience only. If spill is greater than 1000 gallons you MUST call State Watch Office at 1-800-320-0519. All items with an asterisk(*) are requirements by rule that must be completed.

*FACILITY NAME: Useppa Island Utilities WWTP
*COUNTY: Lee
*PERMIT NUMBER: FLA014494
*METHOD OF CONTACT: Email
*REPORTER NAME: Bobby Romeo, Compliance Department
*RESPONSIBLE PARTY: Useppa Island Utilities
*REPORTER ADDRESS: 4939 Cross Bayou Boulevard, NPR FL
*RESPONSIBLE PART ADDRESS: PO Box 640, Bokeelia FL
*REPORTER PHONE: 866-753-8292
*RESPONSIBLE PARY PHONE: 239-283-1061

*DEP: ☑ *DATE: 1/17/2021 *TIME: 11:31 PM *PERSON CONTACTED: South District DEP
*STATE WATER OFFICE: ☐ *DATE: *TIME: INCIDENT NUMBER:
*OTHER: ☑ *DATE: 1/17/2021 *TIME: 11:31 PM PERSON CONTACTED: DEP Portal

SPILL INFORMATION

SPILL CHARACTERISTIC

☐ RAW WASTEWATER
☐ PARTIALLY TREATED
☐ TREATED
☐ REUSE / RECLAIM
☐ OTHER

*SOURCE

☐ LIFT STATION #
☐ LINE BREAK
☐ FILTER
☐ DISPOSAL SYSTEM
☐ OTHER
☐ SURGE TANK
☐ AERATION TANK
☐ CLARIFIER
☐ DIGESTER
☐ OTHER

*AREA EFFECTED

☐ STORM WATER
☐ SURFACE WATER /
☐ GROUND
☐ CONTAINMENT AREA
☐ OTHER

*DATE / TIME DISCHARGE OCCURRED:
*AMOUNT OF DISCHARGE (1) 0 TOTAL GALLONS OR (2) 0 gallons PER hour FOR 0 hours.
*AMOUNT RECOVERED 0 GALLONS
*ONGOING: ☑ *Ceased: ☐

*PHYSICL LOCATION / ADDRESS / OTHER REFERENCE: Useppa Island WWTP

*MALFUNCTION/CAUSE

☐ POWER OUTAGE
☐ PUMP FAILURE
☐ DISINFECTION SYSTEM FAILURE
☐ CLARIFIER FAILURE
☐ FILTER BYPASS
☐ BLOWER FAILYRE
☐ OUTSIDE CONTRACTOR:
☐ RAS LINE
☐ LEAK
☐ SWITCH / TIMER FAILURE
☐ FILTRATION SYSTEM PROBLEM
☐ CLOG OR BLOCKAGE
☐ LINE BREAK
☐ OTHER:

*WEATHER

☐ LIGHTNING
☐ HEAVY RAINFALL
☐ HIGH WINDS
TROPICAL STORMS:
HURRICANE
OTHER:

*EXPLAIN:
On 12/29/2020 and 1/6/2021 The operator collected samples a laboratory results yielded the following; on 12/29/2020 a TSS of 6.5 mg/L and on 1/6/2021 a TSS of 5.4 mg/L, the permitted limit is 5.0 mg/L. The exact cause is unknown.

*EFFLUENT LIMIT VIOLATIONS

☐ CL2 MG/L
☑ TSS 6.5 & 5.4 MG/L
☐ OTHER
☐ TURBIDITY NTU
☐ NO3 MG/L
☐ FECAL COLIFOMRS CFU/100ML
☐ PH SU
☐ CBOD5 MG/L
☑ ABNORMAL FLOW 0 MGD

*CORRECTIVE / REMEDIAL ACTION BEING TAKEN

☐ AUXILLARY POWER SYSTEM ON-LINE
☐ DISINFECT WITH
☐ BYPASS
☐ CONTAINED ON-SITE
☐ OTHER
☐ BACK-UP ON-LINE
☐ SAMPLES TAKEN (IF SURFACE WATERS IMPACTED
☐ RESTORE POWER
☐ REPLACE EQUIPMENT / SUPPLIES
☐ VAC TRUCK / DESTINATION
☑ NOTIFIED LOCAL AUTHORITIES
☐ NOTIFIED STATE WATCH OFFICE
☐ NOTIFIED PERMITTEE / OWNER
☐ LINE REPAIRED
☐ SIGNS POSTED NEAR AFFECTED WATERS

*REMEDIAL ACTION BEING TAKEN / ESTIMATED TIME FOR COMPLETION OF REPAIRS:
The operator is reviewing sampling practices and procedures.

WWTP MALFUNCTION / ABNORMAL EVENT REPORT

Please note for accordance with the Florida Administrative Code (F.A.C.) Rules. This form is provided for your convenience only. If spill is greater than 1000 gallons you MUST call State Watch Office at 1-800-320-0519. All items with an asterisk(*) are requirements by rule that must be completed.

FLORIDA DEPARTMENT OF
Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

October 14, 2025

Todd McCumber
Richmond American Homes
2822 Commerce Park Drive, Suite 100
Orlando, FL 32819

Subject: Notice of Termination (NOT) Acknowledgement
Facility ID: FLR10WZ83
Seasons at Summit Ridge
County: Orange

Dear Permittee:

The Florida Department of Environmental Protection has received and processed the *National Pollutant Discharge Elimination System (NPDES) Stormwater Notice of Termination*, (DEP Form 62-621.300(6), F.A.C.).

This letter acknowledges that:

The permit coverage under Facility ID Number **FLR10WZ83** has been terminated.

Please be advised of the following:

- This letter does not release you from liability for any previous violations of the conditions of the permit.
- If any regulated activity continues to occur at the above-referenced facility after the date of this letter, stormwater discharges are unlawful unless covered by either (1) a new permit for stormwater discharge associated with the regulated activity or (2) a conditional no exposure exclusion from NPDES Stormwater permitting as applicable.

Facilities/sites that discharge stormwater to a Municipal Separate Storm Sewer System (MS4) shall submit a copy of the NOT and/or Acknowledgement Letter within 7 days of receipt to the operator of the MS4.

If you have any questions concerning this Acknowledgment Letter, please contact the Notice Center at NPDES-Stormwater@floridadep.gov

Sincerely,

Mario Hall

Mario Hall
NPDES Stormwater Program

Enclosures: NOT

FLORIDA DEPARTMENT OF
Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

January 6, 2021

Timothy Fitzsimmons, President
Useppa Island Utilities Company, Inc.
P.O. Box 640
Bokeelia, Fl 33922-640
Email: tfitz5@comcast.net

Re: Compliance Assistance Offer
Useppa Island WWTP; Facility ID No. FLA014494
Sanitary Sewer Overflow
Lee County – DW

Dear Mr. Fitzsimmons:

On November 12, 2020, the Florida Department of Environmental Protection ("Department") was notified that your facility, had an unauthorized discharge or unpermitted sanitary sewer overflow ("SSO") of approximately 1,000 gallons in potential noncompliance with the requirements of Chapter 403, Florida Statutes ("Fla. Stat."), and Section 62-620, Florida Administrative Code ("Fla. Admin. Code"), which prohibits unauthorized discharges. The purpose of this letter is to offer you compliance assistance as a means of resolving these matters.

If you have not already notified the District office of the abnormal event and submitted the follow-up 5-day report as required by permit, we request that you respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written or emailed response should:

- Provide the most current information regarding the specific SSO incident stated above, including:
  - What is the final spill volume of the SSO?
  - Did the SSO reach surface waters?
  - How much of the SSO's volume reached surface waters, if any?
  - How much volume of the SSO was recovered?
  - How much volume of the SSO was not recoverable?
- Describe what happened to cause the SSO;
- Describe the actions taken to remediate the SSO; and
- Describe the actions taken, or to be taken, to prevent future SSOs of this nature.

Based on the details of your response to this Compliance Assistance Offer, the Department may require formal enforcement on the SSO, pursuant to your permit conditions, Chapter 62-620, Fla. Admin. Code, and Chapter 403, Fla. Stat. It is the Department's desire that you are able to adequately address the aforementioned issues so that this matter can be closed. Any document submittals can be made to our email mailbox at SD-AbnormalEvents@dep.state.fl.us or may be mailed to the above address. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Nicole Devine of the South District Office via e-mail at Nicole.Devine@floridadep.gov . We look forward to your cooperation with this matter.

Sincerely,

Jennifer Carpenter
Assistant District Director
South District Office
Florida Department of Environmental Protection

ec: Useppa Island (via e-mail: utilities@useppa.com)

WWTP MALFUNCTION / ABNORMAL EVENT REPORT

Please note for accordance with the Florida Administrative Code (F.A.C.) Rules. This form is provided for your convenience only. You may complete this form and email to Keith.Kleinmann@dep.state.fl.us. If spill is greater than 1000 gallons you MUST call State Watch Office at 1-800-320-0519. All items with an asterisk (*) are requirements by rule that must be completed.

*Facility Name:	Useppa Island Utility	*County:	Lee
*Permit Number:	FLA014494	Method Of Contact:	Email
*Reporter Name:	Melisa Rotteveel	*Responsible Party:	Useppa Island Utilities
*Reporter Address:	4939 Cross Bayou Boulevard, NPR FL	*Responsible Party Address:	Useppa Island, FL
*Reporter Phone:	866-753-8292	*Responsible Party Phone:	

*DEP:	☒	*Date:	11/12/20	*Time:	1215	*Person Contacted:	FDEP Ft. Myers
*State Watch Office:	☐	*Date:		*Time:		Incident Number:	
*Other:	☐	*Date:		*Time:		Person Contacted:	

Spill Information

*Spill Characteristic	*Source		*Area Affected
☒ Raw Wastewater	☐ Lift Station # _____	☒ Surge Tank	☐ Storm Water
☐ Partially Treated	☐ Line Break	☐ Aeration Tank	☐ Surface Water/ _____
☐ Treated	☐ Filter	☐ Clarifier	☐ Ground
☐ Reuse/Reclaimed	☐ Disposal System	☐ Digester	☐ Containment Area
☐ Other _____	☐ Other _____	☐ Other _____	☐ Other/ _____

*Date / Time Discharge Occurred: 11/12/20 @ 0800 am

*Amount of discharge (1) <1000___ total gallons OR (2) _____ gallons per hour for _____ hours.

*Amount recovered 0_____gallons

*Ongoing: ☐ * Ceased: ☒

*Physical location/ address/ other reference: Useppa Island WWTP

* Malfunction/Cause

☐ Power Outage	☐ RAS Line	Weather
☐ Pump Failure	☐ Leak	☐ Lightning
☐ Disinfection System Failure	☐ Switch/Timer Failure	☐ Heavy Rainfall
☐ Clarifier Failure	☐ Filtration System Problem	☐ High Winds
☐ Filter Bypass	☐ Clog or blockage	☒ Tropical Storm: ETA
☐ Blower Failure	☐ Line Break	☐ Hurricane: _____
☐ Outside Contractor _____	☒ Other increased hydraulics	☐ Other: _____

* Explain: Upon performing operational visit at approximately 0800 am, the operator found evidence that a discharge was occurring over the top of the facility surge tank onto the adjacent grounds. It is estimated that <1000 gallons was discharge in total, the affected area was limed and will be cleaned. No waterways were affected.

* Effluent Limit Violations

☐ Cl_2 _____ mg/L	☐ Turbidity _____ NTU	☐ pH _____ SU
☐ TSS _____ mg/L	☐ NO_3 _____ mg/L	☐ $CBOD_5$ _____ mg/L
☐ Other _____	☐ fecal coliforms _____ CFU/100ml	☐ Abnormal Flow _____ MGD

* Corrective / Remedial Action Being Taken

☐ Auxiliary Power System On-Line	☐ Back-Up On-Line	☒ Notified Local Authorities
☒ Disinfect with lime	☐ Samples Taken (if surface waters impacted)	☐ Notified State Watch Office
☐ Bypass	☐ Restore Power	☐ Notified Permittee/Owner
☒ Contained On-site	☐ Replace Equipment/Supplies	☐ Line Repaired
☐ Other _____	☐ VAC Truck/Destination: _____	☐ Signs Posted Near Affected Waters

* Remedial Action Being Taken / Estimated Time for Completion of Repairs: Upon further review of the site the operator found that effluent filters were not able to accept the increased flows received from Tropical Storm Eta, and were returning flow back to the headworks, causing the surge tank level to become elevated and subsequently discharge to the adjacent grounds. The operator was able to temporarily by pass the filters to allow for the tank operating levels to return to normal The filters were clean and operations returned to normal by 0900 am.

ATTACHMENT 4-2
FLORIDA DEP CORRESPONDENCE
(PERMIT NO. 98998)

FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

Sent Via Electronic Mail

December 2 2025

In the Matter of an Application for Permit by:

Useppa Utility Company
Ronald Harris
Vice President
5260 Summerlin Commons Way, #304
Fort Myers, Florida 33907
RonH@Welker-Harris.com

UIC Permit: 0045884-007-UO/5O
WACS Facility ID: 98998
County: Lee
Class V Injection Well System, IW-1
Operation Permit
Useppa Island Reverse Osmosis Water Treatment Plant

Notice of Permit

Enclosed is permit number 0045884-007-UO/5O for a Class V injection well system.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, (F.S.), by the filing of a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, Agency_Clerk@FloridaDEP.gov; and by filing a copy of the Notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Attachment 4-2
Communication Date 12/2/25

Executing and Clerking:
Executed in Tallahassee, Florida.
State of Florida Department of Environmental Protection

Richard Lobinske

Richard Lobinske, Ph.D.
Environmental Administrator
Aquifer Protection Program
Division of Water Resource Management

Certificate of Service

The undersigned duly designated clerk hereby certifies that this **Notice of Permit** and all copies were sent on the filing date December 2 2025, to the following listed persons:

Richard Lobinske, DEP/TLH, Richard.Lobinske@FloridaDEP.gov
James Dodson, DEP/TLH, James.Dodson@FloridaDEP.gov
Edith Chuy, DEP/TLH, Edith.Chuy@FloridaDEP.gov
Cheryl Greenwell, DEP/TLH, Cheryl.Greenwell@FloridaDEP.gov
Gabriele Starrach, DEP/SD Gabriele.Starrach@FloridaDEP.gov
Deanna Newburg, DEP/SD, Deanna.Newburg@FloridaDEP.gov
Patrick Day, PE, DRMP, PDay@DRMP.com
Greg Rawl, PG, GRawl10@Comcast.net
Jason Meadows, USEPA/ATL, Meadows.JasonB@EPA.gov

Filing and Acknowledgment

Filed, on this date, pursuant to Section 120.52, Florida Statutes, (F.S.), with the designated Department Clerk, receipt of which is hereby acknowledged.

Kaiden Miller Digitally signed by Kaiden Miller Date: 2025.12.02 10:17:11 -05'00'

Clerk

12/2/2025
Date

FLORIDA DEPARTMENT OF
Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

Underground Injection Control
Class V, Group 4, Non-ASR Injection Well System
Operation Permit

Permittee
Useppa Utility Company
Ronald Harris
Vice President
5260 Summerlin Commons Way, #304
Fort Myers, Florida 33907
RonH@Welker-Harris.com

Permit/Certification

UIC Permit:	0045884-007-UO/5O
WACS Facility ID:	98998
Date of Issuance:	December 2, 2025
Date of Expiration:	December 2, 2030
Permit Processor:	James Dodson

Facility
Useppa Island Reverse Osmosis Water Treatment Plant
Useppa Island
Useppa Island, Florida 33922

Location

County:	Lee
Latitude:	26° 39′ 40″ N
Longitude:	82° 12′ 51″ W

Project: Class V Injection Well System IW-1

This permit is issued under the authority of Chapter 403, Florida Statutes (F.S.), and the rules promulgated thereunder, 62-528, Florida Administrative Code (F.A.C.).

The above-named permittee is hereby authorized to perform the work at the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department of Environmental Protection (Department or DEP) and made a part hereof and specifically described as follows.

To Operate: One non-hazardous Class V injection well (IW-1) and two associated monitor wells (MW-1 and MW-2) for the disposal of reverse osmosis concentrate from the Useppa Island Reverse Osmosis Water Treatment Plant. The maximum injection rate for IW-1 shall be 50 gallons per minute (gpm) and the maximum injection volume for IW-1 shall be 0.072 million gallons per day (mgd). The injection well is constructed with a 10-inch diameter PVC casing set to 50 feet below land surface (bls) with a cemented annulus, and total depth of 60 feet bls. The injection zone is a G-III aquifer. Monitor well MW-1 is completed in the Surficial Aquifer from 5 to 15 feet bls. Monitor well MW-2 is completed in the Surficial Aquifer from 2 to 7 feet bls.

In Accordance With: The Application to Construct DEP Form No. 62-528.900(1) dated September 16, 2025, accepted by the Aquifer Protection Program (APP) Tallahassee office on September 18, 2025 with all fees and supporting information.

Location: Useppa Island Reverse Osmosis Water Treatment Plant, Useppa Island, Useppa Island, Florida 33922, in Lee County.

The injection and monitor wells, as designated below by well name and Water Assurance Compliance System (WACS) testsite identification (ID), and construction details at this facility are as follows:

Table 1
Injection Well

Well Name	WACS Testsite ID	Well Depth (Feet bls)	Casing Size[1] (Inches)	Casing Thickness (Inches)	Casing or Tubing Type	Casing Depth or Interval (Feet bls)
IW-1	13974	60	10	0.365	Sch 40 PVC	50
					Open Hole	50 – 60

Notes: [1]All sizes in outside diameter. Constructed with a cemented annulus.

Table 2
Monitor Wells

Well Name	WACS Testsite ID	Monitor Zone	Casing Size (Inches)	Casing Thickness (Inches)	Casing Type	Casing Depth (Feet bls)	Monitoring Depth (Feet bls)
MW-1	29017A		2	0.015	Sch 40 PVC	15	
		Surficial Aquifer					5 – 15
MW-2	29018A		2	0.015	Sch 40 PVC	2	
		Surficial Aquifer					2 – 7

Notes: Constructed with new, unused Schedule 40 PVC with an annulus fully cemented to land surface.

Subject To: Specific Conditions I-V and General Conditions 1-24.

Specific Conditions

I. Operating Requirements

A. General

1. Only non-hazardous injectate as described in this permit and purge water from the on-site monitor wells (associated with the injection well system) may be discharged into the injection wells. *[62-528.400(1), F.A.C.]*
2. The flow to the injection wells at each wellhead shall be monitored and controlled at all times to ensure the maximum fluid velocity down the well during operation does not exceed the respective flow rate indicated below, and shall not exceed 10 feet per second except during planned testing, maintenance, or emergency conditions in which case the flow rate shall not exceed 12 feet per second *[62-528.415(1)(f), F.A.C.]*:

Well	Peak Flow Rate (gpm)	Maximum Injection Volume (mgd)
IW-1	50	0.072

3. No owner or operator shall construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under

40 CFR part 142 or may otherwise adversely affect the health of persons. The applicant for a permit shall have the burden of showing that the requirements of this paragraph are met. [40 C.F.R § 144.12(a)]

4. All equipment of this facility shall be operated and maintained so as to function consistently as designed in removing pollutants. The wastewater stream shall remain non-hazardous at all times. *[62-528.307(3)(b) and 62-528.400(1), F.A.C.]*

5. In the event a well must be plugged or abandoned, the permittee shall obtain a permit from the Department as required by Chapter 62-528, Florida Administrative Code (F.A.C.). When no longer used for their intended purpose, these wells shall be properly plugged and abandoned. At least 180 days prior to well abandonment, the permittee shall submit to the Department the proposed plugging method, pursuant to Rule 62-528.460, F.A.C. *[62-528.460(1) and 62-528.435(6), F.A.C.]*

6. In accordance with rules 62-4.090 and 62-528.455(3)(a), F.A.C., the permittee shall submit an application for permit renewal at least 60 days prior to expiration of this permit. *[62-528.307(3)(a), F.A.C.]*

7. Hurricane Preparedness: Preparations to be made by permittee upon issuance of a "Hurricane Watch" by the National Weather Service include, but are not limited to:
   a. Secure all onsite salt and other stockpiled additive materials to prevent surface and/or ground water contamination.
   b. Properly secure equipment to prevent damage to well(s) and onsite treatment process equipment.

   [62-528.307(1)(f), F.A.C.]

B. Surface Equipment

1. The integrity of the monitoring zone sampling systems shall be maintained at all times. Sampling lines shall be clearly and unambiguously identified by monitoring zone at the point at which samples are drawn. All reasonable and prudent precautions shall be taken to ensure that samples are properly identified by monitoring zone and that samples obtained are representative of those zones. Sampling lines and equipment shall be kept free of contamination with independent discharges and no interconnections with any other lines. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*

2. The surface equipment for each injection well disposing of domestic (municipal) effluent shall maintain compliance with Chapter 62-600.540(5), F.A.C., for water hammer control, screening, access for logging and testing, and reliability and flexibility in the event of damage to the well and effluent piping. *[62-600.540(4), 62-528.307(1)(f), and 62-528.307(3)(b), F.A.C.]*

3. Injection wells not disposing of domestic (municipal) effluent shall maintain compliance with Chapter 62-528.450(2)(j), F.A.C., for water hammer control, as well as access for logging and testing, and reliability and flexibility in the event of damage to the well and effluent piping. *[62-528.450(2)(j), 62-528.307(1)(f), and 62-528.307(3)(b), F.A.C.]*

4. The surface equipment and piping for the injection and monitor wells shall be kept free of corrosion at all times. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*
5. Spillage onto the injection well pad(s) during construction activities, and any waters spilled during mechanical integrity testing, maintenance, testing, or repairs to the system(s) shall be contained on the pad(s) and directed to a sump which in turn discharges to the pumping station wet well, or via other approved means to the injection well system, or by another method approved by the Department. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*
6. The injection well pads are not, unless specific approval is obtained from the Department, to be used for storage of any material or equipment at any time. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*
7. The surficial aquifer monitor wells adjacent to the injection and monitor wells shall be secured, maintained, and retained in service for subsequent sampling that may be needed (i.e., should there be an accidental discharge to the surficial aquifer); alternatively, the facility may submit a request to the APP Tallahassee office for cessation of sampling followed by capping, or plugging and abandonment of these wells. *[62-528.307(3)(b) and 62-520.600(6)(k), F.A.C.]*

II. Quality Assurance/Quality Control

1. The permittee shall ensure that the operation of this injection well system shall be as described in the application and supporting documents. Any proposed modifications to the permit, construction procedures, testing procedures, completion procedures, operation procedures, or any additional work not described in the application or supporting documents shall be submitted in writing to the Tallahassee office of the Aquifer Protection Program for review and clearance prior to implementation. Changes of negligible impact to the environment and staff time will be reviewed by the program manager, cleared when appropriate and incorporated into this permit. Changes or modifications other than those described above will require submission of a completed application and appropriate processing fee as per Rule 62-4.050, F.A.C. *[62-528.100, 62-4.050, F.A.C.]*
2. Proper operation and maintenance include effective performance and appropriate quality assurance procedures; adequate operator staffing and training; and adequate laboratory and process controls. *[62-528.307(3)(b), F.A.C.]*

3. All water quality samples required by this permit shall be collected in accordance with the appropriate Department Standard Operation Procedures (SOP), pursuant to Chapter 62-160.210, F.A.C., *Approved Field Procedures*. A certified laboratory shall conduct the analytical work, as provided by Chapter 62-160.300, F.A.C., *Laboratory Certification*. Department approved test methods shall be utilized, unless otherwise stated in this permit. All calibration procedures for field testing and laboratory equipment shall follow manufacturer's instrumentation manuals and satisfy the requirements of the Department SOPs. A listing of the SOPs pertaining to field and laboratory activities is available at the

DEP website at: https://floridadep.gov/dear/quality-assurance/content/dep-sops. *[62-4.246, 62-160, F.A.C.]*

4. All indicating, recording and totalizing devices associated with the injection well system shall be maintained in good operating condition and calibrated annually at a minimum. The pressure gauges, flow meter, and chart recorders shall be calibrated using standard engineering methods. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*
5. All reports required by this permit which are submitted to the Department shall contain the following certification as required by Rule 62-528.340(4), F.A.C.:

   I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. *[62-528.340(1), (2), and (4), F.A.C.]*
6. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department as being more representative of ground water conditions. *[62-520.310(5), F.A.C.]*
7. An operation and maintenance manual, including a description of surge and water hammer control and procedures to cease injection if sampling results of recharge water show it does not meet the water quality applicable to the injection zone, shall be submitted to the Department within 60 days of the issuance of this permit. This requirement does not apply if an operation and maintenance manual was previously submitted to the Department. *[62-528.415(3), F.A.C.]*

III. Testing and Reporting Requirements

A. General

1. The permittee shall submit monthly to the Department the results of all injection well and monitor well data required by this permit no later than the last day of the month immediately following the month of record. The report shall include:
   a. A cover page summarizing the current status of all monthly activities, including, but not limited to, the certification and signature required in Specific Condition number II.5, above.
   b. Operational and water quality data in a tabular format. The following identifying information must be included on each data sheet:
      i. Facility name
      ii. Well name
      iii. UIC permit number
      iv. WACS facility ID

v. WACS Testsite ID number on appropriate data sheet (as provided in Table 1 and Table 2).

c. Laboratory pages and original supporting documentation including DEP form FD 9000-24, *Groundwater Sampling Log*, for the purging of each monitor well.

[62-528.307(3)(d), F.A.C.]

2. The report may be sent via electronic mail in Adobe™ (.pdf) format to the following Program e-mail addresses:

South District	SouthDistrict@FloridaDEP.gov
Tallahassee - APP Program	TAL_UIC@FloridaDEP.gov

If a paper copy of the report is submitted, it should be sent to Department staff at the following addresses:

South District	2295 Victoria Avenue, Suite 364 Ft. Myers, Florida 33901-3875
Tallahassee - APP Program	2600 Blair Stone Road, MS 3530 Tallahassee, Florida 32399-2400

[62-528.307(3)(d), F.A.C.]

B. Monitoring

1. The injection system shall be monitored in accordance with Rules 62-528.425(1)(g) and 62-528.430(2), F.A.C. The following injection well performance data and monitor zone data shall be recorded and reported in the *Monthly Operating Report (MOR)* as indicated below. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. *[62-528.307(3)(d) and 62-528.430(2), F.A.C.]*

   a. Monthly (M) samples and measurements shall be taken as close to 30 days apart as possible.

   b. Quarterly (Q) samples and measurements shall be taken during the following quarters:

      - January 1 – March 31
      - April 1 – June 30
      - July 1 – September 30
      - October 1 – December 31

      Samples and measurements collected during consecutive quarters shall be taken at least 30 days apart. A MOR including quarterly results shall be noted as such on the title page of the report.

   c. Semiannual (SA) samples and measurements shall be taken during the following timeframes:

      - January 1 – June 30
      - July 1 – December 31

      Semiannual samples and measurements shall be taken at least 90 days apart. A MOR including semiannual results shall be noted as such on the title page of the report.

d. Annual (A) samples and measurements

- The period for reports of annual samples and measurements shall be for the calendar year ending December 31.

Annual samples and measurements taken in consecutive years shall be taken at least 6 months apart and as close to a year apart as possible. If a MOR includes annual results, it shall be noted as such on the title page of the report.

[62-528.307(1)(m) F.A.C.]

2. The permittee shall submit the results of all injection well and monitor well data required by this permit to the Department no later than the last day of the month immediately following the month of record. *[62-528.307(2)(d)]*
3. Technical malfunctions and emergencies that interfere with the sampling schedule can be explained in the comment section of the MOR. The explanation shall include what issues occurred, how long it will take to address the issues, and an estimated time when the samples and measurements will be completed and submitted.

Table 3
Monitoring Schedule

Parameter	Unit	Recording Frequency or Sampling Method	Frequency of Analyses		
			IW-1 *13974*	**MW-1** *29017A*	**MW-2** *29018A*
Injection Pressure, Max.	psi	continuous	D/M [a]		
Injection Pressure, Min.	psi	continuous	D/M [a]		
Injection Pressure, Avg.	psi	continuous	D/M [a]		
Flow Rate, Max.	GPM	continuous	D/M [a]		
Flow Rate, Min.	GPM	continuous	D/M [a]		
Flow Rate, Avg.	GPM	continuous	D/M [a]		
Volume Injected	MG	daily/monthly	D/M		
Pressure or Water Level Max.	psi or ft	continuous		D/M [a]	D/M [a]
Pressure or Water Level Min.	psi or ft	continuous		D/M [a]	D/M [a]
Pressure or Water Level Avg.	psi or ft	continuous			D/M [a]
pH[b]	standard	grab/purge	M	M	M
Specific Conductance[b]	µmhos/cm	grab/purge	M	M	M
Temperature[b]	°C	grab/purge	M	M	M
Dissolved Oxygen[b]	mg/L	grab/purge		M	M
Oxidation-Reduction Potential[b]	mV	grab/purge		M	M
Turbidity[b]	NTU	grab/purge		M	M
Chloride	mg/L	grab/purge	M	M	M
Sulfate	mg/L	grab/purge	M	M	M
Total Dissolved Solids	mg/L	grab/purge	M	M	M
Bicarbonate	mg/L	grab/purge	M	M	M
Calcium	mg/L	grab/purge	M	M	M
Total Iron	mg/L	grab/purge	M	M	M
Magnesium	mg/L	grab/purge	M	M	M
Potassium	mg/L	grab/purge	M	M	M
Sodium	mg/L	grab/purge	M	M	M
Gross Alpha	pCi/L	grab/purge	Q	S	S
Radium^{226}	pCi/L	grab/purge	Q	S	S
Radium^{228}	pCi/L	grab/purge	Q	S	S
Primary & Secondary Drinking Water Standards, Source Water		grab	A		

D - Daily; M - Monthly; Q- Quarterly; S- Semi-annually; A - Annually
[a] - Operational data reporting for flows, pressures and water levels: daily maximum, minimum and average from continuous reporting; monthly maximum, minimum and average (calculated from daily averages).
[b] - Field samples
Refer to Tables 1 and 2 above for the appropriate WACS testsite IDs to be used for reporting.

4. A laboratory analysis for the Primary and Secondary Drinking Water Standards of Chapter 62-550, F.A.C., shall be submitted annually. See the attachment to this permit for the parameters.
   a. For facilities permitted to inject domestic wastewater, the domestic wastewater annual sample results may be the same as submitted for the domestic wastewater program if taken within the last 12 months. Primary and Secondary Drinking Water Standards of Chapter 62-550, F.A.C., not included in the domestic wastewater annual sample requirements shall be included in the same sample or in a separate sample. If not required annually for the domestic wastewater program, a separate sample shall

be taken and reported for this permit. The samples shall be composite and grab samples as appropriate for the domestic wastewater program. The permittee may choose to take a combined annual sample from multiple domestic wastestreams if they are authorized for injection in this permit.

b. For facilities permitted to inject water other than domestic wastewater, the source water samples shall not be combined with domestic wastewater samples. The samples shall be grab samples. The permittee may choose to take a combined annual sample from multiple non-domestic wastestreams if they are authorized for injection in this permit.
c. For renewal of this permit, the permittee shall submit a separate laboratory analysis for each permitted injectate source.

[62-528.425(1)(a), F.A.C.]

5. Monitor well purging and field stabilization parameter measurement is required prior to the collection of laboratory samples for the *Monthly Operating Reports (MORs)*. The facility shall conduct the monitor well sampling following the monitor well sampling protocols taken from FS 2200-*Groundwater Sampling* in the DEP-SOP-001/01 *Field Sampling Procedures Manual.* The results of the purging techniques and field stabilization parameters shall be provided on DEP Form FD 9000-24 or a similar alternative approved by DEP, and the completed forms shall be submitted to DEP with the MORs.
6. The Department will consider an alternate purging method meeting monitor well sampling protocol in FS 2200-*Groundwater Sampling* in the DEP-SOP-001/01 *Field Sampling Procedures Manual* in the case where the above procedure causes a hardship to the facility. The permittee shall request an alternate method and receive written Department approval before implementing it. *[62-160.210(1) and 62-528.430(2), F.A.C.]*
7. The flow from the monitoring zones during well evacuation and sampling shall not be discharged to surface waters or aquifers containing an underground source of drinking water. Waters purged from monitor wells in preparation for sampling shall be diverted to the injection well head via the pad drainage system, wet well, or treatment plant. *[62-4.030, 62-620.320, F.A.C.]*

IV. Abnormal Events

1. In the event the permittee is temporarily unable to comply with any of the conditions of a permit due to breakdown of equipment, power outages or destruction by hazard of fire, wind, or by other cause, the permittee of the facility shall notify the South District. *[62-528.415(4)(a), F.A.C.]*
2. Notification shall be made in person, by telephone, or by electronic mail (e-mail) within 24 hours of breakdown or malfunction to the South District.
[62-528.307(1)(x), F.A.C.]
3. A written report of any noncompliance referenced in Specific Condition number IV.1. above shall be submitted to the South District and the APP Tallahassee office within five days after its occurrence. The report shall describe the nature and cause of the breakdown or malfunction, the steps being taken or planned to be taken to correct the

problem and prevent its reoccurrence, emergency procedures in use pending correction of the problem, and the time when the facility will again be operating in accordance with permit conditions.
[62-528.415(4)(b), F.A.C.]

4. **Reporting Requirements**

The permittee shall report to the Department's South District any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

a. The following shall be included as information which must be reported within 24 hours under this condition:
   1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
   2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
   3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
   4) Any unauthorized discharge to surface or ground waters.

b. Oral reports as required by this subsection shall be provided as follows:
   1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the **State Watch Office Toll-Free Number** 800-320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Watch Office:
      a) Name, address, and telephone number of person reporting;
      b) Name, address, and telephone number of permittee or responsible person for the discharge;
      c) Date and time of the discharge and status of discharge (ongoing or ceased);
      d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
      e) Estimated amount of the discharge;
      f) Location or address of the discharge;
      g) Source and cause of the discharge;

h) Whether the discharge was contained on-site, and cleanup actions taken to date;
i) Description of area affected by the discharge, including name of water body affected, if any; and
j) Other persons or agencies contacted

2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's South District within 24 hours from the time the permittee becomes aware of the circumstances.

c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's South District shall waive the written report.

[403.077(2)(d), F.S., 62-528.307(1)(e) and 62-528.307(1)(x), F.A.C.]

5. **Pollution Notification**

a. In accordance with subsection 403.077, F.S., in the event of a reportable pollution release, an owner or operator of the installation at which the reportable pollution release occurs must provide to the department information reported to the State Watch Office within the Division of Emergency Management pursuant to any department rule, permit, order, or variance, within 24 hours after the owner's or operator's discovery of such reportable pollution release. The Department's Pollution Notice website is at https://floridadep.gov/pollutionnotice.

b. If multiple parties are subject to the notification requirements based on a single reportable pollution release, a single notification made by one party in accordance with this section constitutes compliance on behalf of all parties subject to the requirement. However, if the notification is not made in accordance with this section, the department may pursue enforcement against all parties subject to the requirement.

c. If, after providing notice pursuant to paragraph (a), the owner or operator of the installation determines that a reportable pollution release did not occur or that an amendment to the notice is warranted, the owner or operator may submit a letter to the department documenting such determination.

d. If, after providing notice pursuant to paragraph (a), the installation owner or operator discovers that a reportable pollution release has migrated outside the property boundaries of the installation, the owner or operator must provide an additional notice to the department that the release has migrated outside the property boundaries within 24 hours after its discovery of the migration outside of the property boundaries.

[403.077(2)(d), F.S., 62-528.307(1)(e) and 62-528.307(1)(x), F.A.C.]

V. Emergency Disposal

1. All applicable federal, state and local permits must be in place to allow for any alternate discharges due to emergency or planned outage conditions.
[62-528.415(4)(c)1, F.A.C.]
2. Any proposed changes in emergency disposal methods shall be submitted to the South District office and the Tallahassee office for review and approval prior to implementation.
[62-528.415(4)(c), F.A.C.]
3. The emergency disposal method must be fully operational in the event of planned or emergency outages of the injection well system.
[62-528.415(4)(c)2, F.A.C.]

General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to section 403.141, F.S. *[62-528.307(1)(a), F.A.C.]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action. *[62-528.307(1)(b), F.A.C.]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
[62-528.307(1)(c), F.A.C.]
4. This permit conveys no title to land, water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
[62-528.307(1)(d), F.A.C.]
5. This permit does not relieve the permittee from liability for harm to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties there from; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. *[62-528.307(1)(e), F.A.C.]*
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to

achieve compliance with the conditions of this permit, or are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
[62-528.307(1)(f), F.A.C.]

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
   a. Have access to and copy any records that must be kept under conditions of this permit;
   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
   d. Reasonable time will depend on the nature of the concern being investigated.
   [62-528.307(1)(g), F.A.C.]
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
   a. A description of and cause of noncompliance; and
   b. The period of noncompliance, including dates and times; or, if not corrected the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent the recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
   [62-528.307(1)(h), F.A.C.]
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
   [62-528.307(1)(i), F.A.C.]
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. *[62-528.307(1)(j), F.A.C.]*
11. This permit is transferable only upon Department approval in accordance with rules 62-4.120 and 62-528.350, F.A.C. The permittee shall be liable for any non-compliance of the

permitted activity until the transfer is approved by the Department. *[62-528.307(1)(k), F.A.C.]*

12. This permit or a copy thereof shall be kept at the work site of the permitted activity. *[62-528.307(1)(l), F.A.C.]*

13. The permittee shall comply with the following:
    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records shall be extended automatically unless the Department determines that the records are no longer required.
    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
    c. Records of monitoring information shall include:
        1) the date, exact place, and time of sampling or measurements;
        2) the person responsible for performing the sampling or measurements;
        3) the dates analyses were performed;
        4) the person responsible for performing the analyses;
        5) the analytical techniques or methods used;
        6) the results of such analyses.
    d. The permittee shall furnish to the Department, within the time requested in writing, any information which the Department requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
    e. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

    [62-528.307(1)(m), F.A.C.]

14. All applications, reports, or information required by the Department shall be certified as being true, accurate, and complete. *[62-528.307(1)(n), F.A.C.]*

15. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each scheduled date.
    [62-528.307(1)(o), F.A.C.]

16. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
    [62-528.307(1)(p), F.A.C.]

17. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-528.307(1)(q), F.A.C.]*

18. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. *[62-528.307(1)(r), F.A.C.]*

19. This permit may be modified, revoked and reissued, or terminated for cause, as provided in 40 C.F.R. sections 144.39(a), 144.40(a), and 144.41 (1998). The filing of a request by the permittee for a permit modification, revocation or reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. *[62-528.307(1)(s), F.A.C.]*

20. The permittee shall retain all records of all monitoring information concerning the nature and composition of injected fluid until five years after completion of any plugging and abandonment procedures specified under rule 62-528.435, F.A.C. The permittee shall deliver the records to the Department office that issued the permit at the conclusion of the retention period unless the permittee elects to continue retention of the records. *[62-528.307(1)(t), F.A.C.]*

21. All reports and other submittals required to comply with this permit shall be signed by a person authorized under rules 62-528.340(1) or (2), F.A.C. All reports shall contain the certification required in rule 62-528.340(4), F.A.C. *[62-528.307(1)(u), F.A.C.]*

22. The permittee shall notify the Department as soon as possible of any planned physical alterations or additions to the permitted facility. In addition, prior approval is required for activities described in rule 62-528.410(1)(h). *[62-528.307(1)(v), F.A.C.]*

23. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or injection activity which may result in noncompliance with permit requirements. *[62-528.307(1)(w), F.A.C.]*

24. The permittee shall report any noncompliance which may endanger health or the environment including:
    a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or
    b. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

    Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance

has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

[62-528.307(1)(x), F.A.C.]

Issued this 2nd day of December 2025
State of Florida
Department of Environmental Protection

Richard Lobinske

Richard Lobinske, Ph.D.
Environmental Administrator
Underground Injection Control
Aquifer Protection Program
Division of Water Resource Management

FLORIDA DEPARTMENT OF Environmental Protection

South District
2295 Victoria Avenue, Suite 364
Fort Myers, FL 33901
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

November 25, 2025

Ronald Harris
Principal/ CCG
5260 Summerlin Commons Way, 304
Fort Myers, FL 33907
ronh@ccgcpas.com

Re: Return to Compliance Letter
Useppa Island RO WTP
Useppa Island, Florida 33922
File Number: 0045884-005-UO/5O
Facility ID WACS 98998
Lee County – UIC

Dear Mr. Harris:

Department personnel conducted a Bi-Annual Compliance Inspection of the above-referenced facility on August 12, 2025. Based on the information provided during and following the inspection, the facility was determined to be in compliance. A copy of the File Review Memorandum is located below and any non-compliance items which may have been identified at the time of this inspection have been corrected.

The Department appreciates your compliance efforts. Should you have any questions or comments, please contact **Gabriele Starrach** at **239-344-5653**, or via e-mail at: **Gabriele.Starrach@FloridaDEP.gov**.

Sincerely,

David Fiess, MPA
Assistant Director of District Management

Enclosure: File Review Memorandum

cc: Shane Cassidy, scassidy@uswatercorp.net
US Water, wastewater@uswatercorp.net

Attachment 4-2
Communication Date 11/25/25

FLORIDA DEPARTMENT OF Environmental Protection

South District
2295 Victoria Avenue, Suite 364
Fort Myers, FL 33901
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

File Review Memorandum

TO: File
THROUGH: Brooke Keck, Environmental Manager
FROM: Gabriele Starrach, Engineering Specialist III
SUBJECT: Useppa Island RO WTP (WACS 98998)
DATE: November 25, 2025

Department personnel conducted a Bi-Annual Compliance Inspection of the above-referenced facility on August 12, 2025. On August 27, 2025 the Department sent a Warning Letter detailing the inspection findings. The facility was found to be out of compliance, and the inspection report detailed the following deficiencies and required corrective actions listed below.

On October 31, 2025, the Department received a response with corrective action documentation from Useppa Island RO WTP that addressed all identified non-compliance noted in the Department's Warning Letter. The facility is now in compliance with any identified non-compliance in the aforementioned correspondence from the Department.

Deficiencies and Corrective Action Summary

1. WL response letter with documentation resolving noncompliance issues found during Bi-annual inspection.

   The facility is operating without a current permit, which expired on July 16, 2025.
   [Rule 62-528.307)(3)(a),F.A.C]

   No calibration certificates for the MW-1 and MW-2 transducers and IW-1 pressure gauge and transducer were available for inspection.
   [Rule 62-528.307(1)(f) & (m), F.A.C.]

   A review of the facility's Monthly Operation Reports (MOR) found the following deficiencies:

   February 2024 MW-1 and MW-2 semi-annual water quality sampling was conducted but data were missing from the MOR.
   [Rule 62-528.307(1)(m)3.f., F.A.C.]

   July 2024 IW-1 quarterly sampling and MW-1, MW-2 semi-annual sampling are missing from the MOR.

[Rule 62-528.307(1)(m)3.f., F.A.C.]

March 2025 IW-1 and MW physical data contain the wrong dates.
[Rule 62-528.307(1)(m)3.f., F.A.C.]

December 2024 IW-1 sampling was omitted.
[Rule 62-528.307(1)(m)3.a., F.A.C]

https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=35.163623.1]&[profile=Enforcement_Legal]

2. At the time of inspection, scale buildup on IW-1 piping indicated the piping is leaking. The IW-1 ARV and wellhead exhibit minor rust accumulation.
[Rule 62-528.307(1)(f), F.A.C.]

https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=35.163709.1]&[profile=Enforcement_Legal]

NMFS 2nd Tier Consultation Checklist for activities under the State Programmatic General Permit (SPGP) for the State of Florida within all coastal counties of Florida, and for maintenance dredging within Clay, Putnam, Marion and Lake Counties

Project Specifications

DEP File (PA) No.: 36-0107727-006

County: Lee

Applicant: Pineland Marina

Project Name: replace existing docks

Project Location: 13851 Waterfront Drive, Bokeelia, 33922

1) Is the project located in a coastal county of Florida? ◉ YES ○ NO

2) Does the proposed action involve maintenance dredging? ○ YES ◉ NO

Type of Project Authorized under SPGP		Check all that apply
Shoreline stabilization, including seawalls and riprap -	***Complete checklist A***	☐
Boat Ramps and Boat Launch Areas and Associated Structures –	***Complete checklist B***	☐
Docks, Piers, Associated Facilities, Aids to Navigation, and Other Minor Piling-Supported Structures –	***Complete checklist C***	☑
Maintenance Dredging of Canals and Channels (including removal of organic detritus from freshwater lakes and rivers) –	***Complete checklist D***	☐

Checklist C – Docks, Piers, Aids to Navigation and other Piling-Supported Structures				
Please check all of the following Project Design Criteria (PDCs) that apply to the applicant's permit request.	**Check all that apply**			
Installation, replacement, or repair of mooring pilings and dolphins associated with private docks.	☐			
If project involves the installation of a private dock, then the total surface area of the dock is≤ 1000 square feet either over wetlands or other surface waters.	☐			
Replacement or repair of an existing dock.	☑			
Installation of aids to navigation and buoys associated with such aids.	☐			
Installation of piling support structures associated with water testing or monitoring equipment required by the FDEP.	☐			
Construction, extension, and removal of certain docks/piers and associated structures, as identified by 62-341.427 F.A.C.	☐			
Piling supported structures, less than 1000 square feet, not in Outstanding Florida Waters.	☐			
Piling supported structures, less than 500 square feet, in Outstanding Florida Waters.	☐			
Construction, installation, operation, or maintenance of floating vessel platforms and boat lifts.	☐			
	Yes	**No**	**N/A**	**???**
Please confirm that the project **is not** located in any Federally ESA-designated critical habitats other than those of the smalltooth sawfish and Gulf sturgeon (*The only critical habitats in which piling-supported structures may be authorized under the SPGP are those designated for the smalltooth sawfish or gulf sturgeon*).	◉	○	○	○
If you checked YES above, is the project designated critical habitat for either smalltooth sawfish or Gulf sturgeon?	◉	○	○	○
If a project is within the range of Johnson's seagrass, the applicant agrees, at a minimum, to fully comply with The COE and NMFS' "Construction Conditions for Docks or Other Minor Structures Constructed in or Over Johnson's Seagrass (*Halophila johnsoni*)" (February 2002).	○	○	◉	○
For projects where other aquatic vegetation is present, please confirm that the project will, at a minimum, fully comply with COE and NMFS' "Construction Guidelines in Florida for Minor Piling-Supported Structures Constructed in or over Submerged Aquatic Vegetation, Marsh, or Mangrove Habitat" dated August 2001.	◉	○	○	○
Will the project adhere to NMFS' *Sea Turtle and Smalltooth Sawfish Construction Conditions* (Appendix B)?	◉	○	○	○

Attachment 4-2
Communication Date 11/10/25

Please confirm that the proposed project **is not** on or contiguous to/adjacent to ocean beach.	◉	○	○	○
Please confirm that the proposed project **is not** a municipal or commercial pier or dock	○	◉	○	○
Please confirm that the project does not involve dredging or removal of mangroves and that mangrove trimming will be strictly limited to minimal trimming necessary to perform the authorized work (i.e. only within footprint of access walkway of no more than 4 feet in width). *Dredging or removal of mangroves or portions of mangroves below the mean high water line is not authorized under this permit.*	◉	○	○	○
Please confirm that no dredging is proposed for this project.	◉	○	○	○
Please confirm that water depths will not be altered in association with this project.	◉	○	○	○

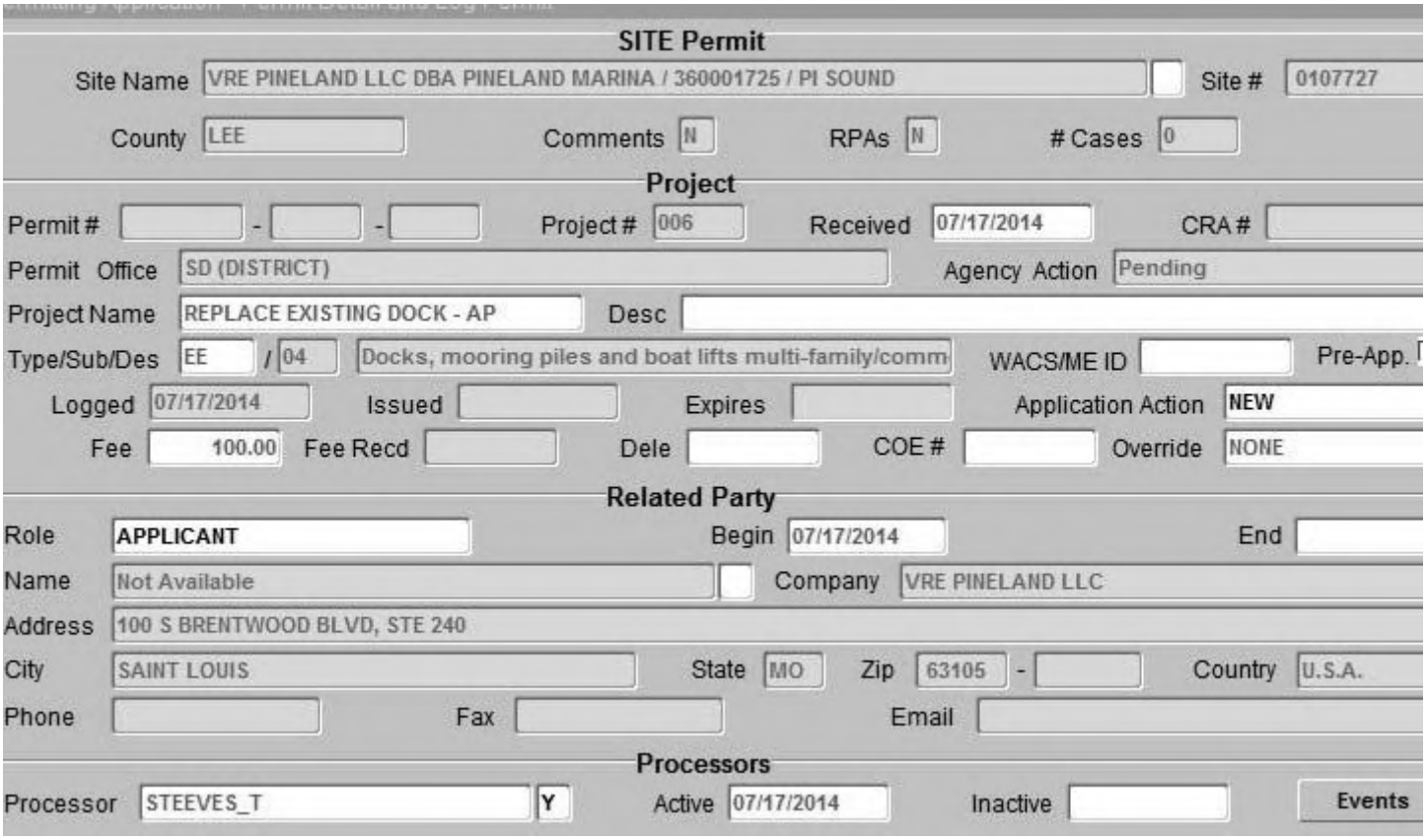
Furlong, Julie

From: Furlong, Julie
Sent: Friday, July 18, 2014 9:06 AM
To: 'nmfs.ser.programmaticreview@noaa.gov'
Subject: Applicant: Pineland Marina/ Site No: 107727-006
Attachments: Pineland_NMFS_SPGP IV-R1.pdf; 2014_07_07_VRE Pineland Marina_107727-006.pdf

"NMFS Quick Part"
This project is being reviewed for qualification under the SPGP program.
The following documents are included:

1. The application package
2. The completed 2nd Tier Consultation Checklist
3. A screen-shot of the PA information (see below)

Any responses should be directed to Choose an item.



SITE Permit

Site Name: VRE PINELAND LLC DBA PINELAND MARINA / 360001725 / PI SOUND — Site #: 0107727
County: LEE — Comments: N — RPAs: N — # Cases: 0

Project

Permit #: - - — Project #: 006 — Received: 07/17/2014 — CRA #:
Permit Office: SD (DISTRICT) — Agency Action: Pending
Project Name: REPLACE EXISTING DOCK - AP — Desc:
Type/Sub/Des: EE / 04 — Docks, mooring piles and boat lifts multi-family/comm — WACS/ME ID: — Pre-App.
Logged: 07/17/2014 — Issued: — Expires: — Application Action: NEW
Fee: 100.00 — Fee Recd: — Dele: — COE #: — Override: NONE

Related Party

Role: APPLICANT — Begin: 07/17/2014 — End:
Name: Not Available — Company: VRE PINELAND LLC
Address: 100 S BRENTWOOD BLVD, STE 240
City: SAINT LOUIS — State: MO — Zip: 63105 - — Country: U.S.A.
Phone: — Fax: — Email:

Processors

Processor: STEEVES_T — Y — Active: 07/17/2014 — Inactive: — Events

From:	Shane Cassidy
To:	Starrach, Gabriele; RonH@welker-Harris.com
Cc:	Newburg, Deanna; McSurley, Alexandria; Keck, Brooke; Greenwell, Cheryl; Selina Makofsky; Melisa Rotteveel; William Edwards Sr.
Subject:	RE: Warning Letter USEPPA Island RO WTP WACS ID 98998
Date:	Friday, October 31, 2025 4:23:04 PM
Attachments:	image001.png Useppa MW2 GA-Rads Feb 2024.pdf Useppa MW2 Semi Dec 2024.pdf Useppa Island INSTLIST 9.2025.pdf Useppa February 2024 Revised MOR.xlsx Useppa March 2024 Revised MOR.xlsx UC Useppa Island transmitter calibration DW9.22.25.pdf Useppa MW1 Semi Dec 2024.pdf Useppa MW1 GA-Rads Feb 2024.pdf 10_31_25 Useppa Island Response Letter.pdf 10_31_25 Useppa Island Response Letter.pdf 10_31_25 Useppa Island Response Letter.pdf

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good afternoon,

Please find attached the Response letter regarding Useppa Island in reply to the warning letter sent out on August 27, 2025. Additionally, the other attachments are included to support the response outlined in the letter.

If there are any questions or concerns, please don't hesitate to contact me.

Thank you,

Shane Cassidy
Compliance Manager

U.S. Water Services Corporation

M: (239) 671-2808

scassidy@uswatercorp.net

5605 2nd st W LeHigh Acres, FL
33971

uswatercorp.com

From: Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>
Sent: Monday, October 27, 2025 10:04 AM

Attachment 4-2
Communication Date 10/31/25

To: RonH@welker-Harris.com
Cc: Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>; McSurley, Alexandria <Alexandria.McSurley@FloridaDEP.gov>; Keck, Brooke <Brooke.Keck@FloridaDEP.gov>; Shane Cassidy <scassidy@uswatercorp.net>; Greenwell, Cheryl <Cheryl.Greenwell@FloridaDEP.gov>
Subject: Warning Letter USEPPA Island RO WTP WACS ID 98998

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning, Ron:

Following our conversation, attached is the warning letter the Department sent to Mr. Beckstead listing all the noncompliance issues found during the bi-annual compliance inspection conducted by Robert Reid on August 12, 2025.
Please review and schedule a meeting to discuss the issues.

Respectfully,

Gabriele Starrach
Engineering Specialist III
South District
Florida Department of Environmental Protection
2295 Victoria Avenue, Suite 364
Fort Myers, FL 33901
Gabriele.Starrach@FloridaDEP.Gov
Main: 239-344-5600
Direct: 239-344-5653

Cavanaugh, Tristan T.

From: Shane Cassidy <scassidy@uswatercorp.net>
Sent: Monday, October 27, 2025 10:15 AM
To: Starrach, Gabriele; RonH@welker-Harris.com
Cc: Newburg, Deanna; McSurley, Alexandria; Keck, Brooke; Greenwell, Cheryl
Subject: RE: Warning Letter USEPPA Island RO WTP WACS ID 98998
Attachments: IMG_3665.jpeg; IMG_3663.jpeg; IMG_3664.jpeg

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good morning,

Here are some photos of the IW being paints and the leak has been repaired.

Useppa Island maintenance department-Leak has been repaired. Rust remediated.

Shane Cassidy
Compliance Manager

U.S. Water Services Corporation

M: (239) 671-2808

scassidy@uswatercorp.net

5605 2nd st W LeHigh Acres, FL 33971

uswatercorp.com

From: Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>
Sent: Monday, October 27, 2025 10:04 AM
To: RonH@welker-Harris.com
Cc: Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>; McSurley, Alexandria <Alexandria.McSurley@FloridaDEP.gov>; Keck, Brooke <Brooke.Keck@FloridaDEP.gov>; Shane Cassidy <scassidy@uswatercorp.net>; Greenwell, Cheryl <Cheryl.Greenwell@FloridaDEP.gov>
Subject: Warning Letter USEPPA Island RO WTP WACS ID 98998

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

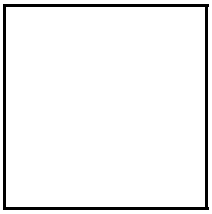
Good morning, Ron:

Attachment 4-2
Communication Date 10/27/25

Following our conversation, attached is the warning letter the Department sent to Mr. Beckstead listing all the noncompliance issues found during the bi-annual compliance inspection conducted by Robert Reid on August 12, 2025.
Please review and schedule a meeting to discuss the issues.

Respectfully,

Gabriele Starrach
Engineering Specialist III
South District
Florida Department of Environmental Protection
2295 Victoria Avenue, Suite 364
Fort Myers, FL 33901
Gabriele.Starrach@FloridaDEP.Gov
Main: 239-344-5600
Direct: 239-344-5653



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Florida
GANNETT

PO Box 631244 Cincinnati, OH 45263-1244

AFFIDAVIT OF PUBLICATION

DRMP, Inc
1715 Monroe ST
5th Floor
Fort Myers FL 33901-3072

STATE OF WISCONSIN, COUNTY OF BROWN

Before the undersigned authority personally appeared, who on oath says that he or she is the Legal Advertising Representative of the News-Press, a daily newspaper published at Fort Myers in Lee County, Florida; that the attached copy of advertisement, being a Legal Ad in the matter of Public Notices, was published on the publicly accessible website of Lee County, Florida, or in a newspaper by print in the issues of, on:

FNP Fort Myers News-Press 10/07/2025
FNP news-press.com 10/07/2025

Affiant further says that the website or newspaper complies with all legal requirements for publication in chapter 50, Florida Statutes.
Subscribed and sworn to before me, by the legal clerk, who is personally known to me, on 10/07/2025

Legal Clerk

Notary, State of WI, County of Brown

8-21-26
My commission expires

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Please do not use this form for payment remittance.

NICOLE JACOBS
Notary Public
State of Wisconsin

Attachment 4-2
Communication Date 10/07/25

State of Florida
Department of Environmental Protection
Notice of Draft Permit

The Department of Environmental Protection hereby provides notice that it has prepared a draft permit for the proposed project as detailed in the application, subject to the conditions specified in the draft permit and summarized below. The applicant, Useppa Utility Company, Ronald Harris, Vice President, 5260 Summerlin Commons Way, #304, Fort Myers, Florida 33907 applied on September 16, 2025, for a Class V injection well operation permit. The project is located at Useppa Island Reverse Osmosis Water Treatment Plant, Useppa Island, Useppa Island, Florida 33922, in Lee County (File 0045884-007-UO/5O, WACS ID 98998).

The permittee will: Operate one non-hazardous Class V injection well (IW-1) and two associated monitor wells (MW-1 and MW-2) for the disposal of reverse osmosis concentrate from the Useppa Island Reverse Osmosis Water Treatment Plant. The maximum injection rate for IW-1 shall be 50 gallons per minute and the maximum injection volume for IW-1 shall be 0.072 million gallons per day. The injection well is constructed with a 10-inch diameter PVC casing set to 50 feet below land surface (bls) with a cemented annulus, and total depth of 60 feet bls. The injection zone is a G-III aquifer. Monitor well MW-1 is completed in the Surficial Aquifer from 5 to 15 feet bls. Monitor well MW-2 is completed in the Surficial Aquifer from 2 to 7 feet bls.

The Department has permitting jurisdiction under Chapter 403 of the Florida Statutes and the rules adopted thereunder. The project is not exempt from permitting procedures. The Department has determined that an Underground Injection Control permit is required for the proposed work.

Any interested person may submit written comments on the draft permit and may request a public meeting within 30 days after publication of this public notice. A request for a public meeting shall be submitted in writing and shall state the nature of the issues proposed to be raised in the meeting. If a public meeting is later scheduled, there will be another 30-day notice period for that meeting. Written comments or a public meeting request shall be submitted to the Department of Environmental Protection, Aquifer Protection Program, 2600 Blair Stone Road, MS 3530, Tallahassee, Florida 32399-2400, which is the office processing this permit application. All comments received within the 30-day period will be considered in formulation of the Department's final decision regarding permit issuance.

The files associated with this order are available for public inspection during normal business hours, 8 a.m. to 5 p.m., Monday through Friday, except state holidays, at the Department of Environmental Protection, South District, and at the Department of Environmental Protection, Aquifer Protection Program office in Tallahassee. Any additional information concerning this project may be obtained by contacting James Dodson, Professional Geologist II, at 850-245-8653.

October 7 2025
LSAR0383667

FLORIDA DEPARTMENT OF
Environmental Protection
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

Sent Via Electronic Mail October 1, 2025

In the Matter of an Application for Permit by:

Useppa Utility Company
Ronald Harris
Vice President
5260 Summerlin Commons Way, #304
Fort Myers, Florida 33907
RonH@Welker-Harris.com

UIC Permit File: 0045884-007-UO/5O
WACS Facility ID: 98998
County: Lee
Class: Class V Injection Well System
Well: IW-1
Permit Type: Operation
Facility: Useppa Island Reverse Osmosis Water Treatment Plant

Notice of Draft Permit

The Department of Environmental Protection (Department) hereby gives notice that a draft permit has been developed for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Useppa Utility Company, Ronald Harris, Vice President, 5260 Summerlin Commons Way, #304, Fort Myers, Florida 33907, applied on September 16, 2025, for a Class V injection well operation permit.

The Department has permitting jurisdiction under Chapter 403 of the Florida Statutes (F.S.) and the rules adopted thereunder. The project is not exempt from permitting procedures. The Department has determined that an Underground Injection Control permit is required for the proposed work.

Pursuant to Section 403.815, F.S., and Rule 62-528.315(6)(b) of the Florida Administrative Code, the applicant is required to publish at their own expense the enclosed Notice of Draft Permit. The notice must be published one time only within 30 days in a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Aquifer Protection Program of the Department within seven (7) days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

Any interested person may submit written comments on the draft permit within 30 days of the public notice. Written comments may be submitted to the Department of Environmental Protection, Aquifer Protection Program, 2600 Blair Stone Road, MS 3530, Tallahassee, Florida 32399-2400. All comments received within the 30-day period and during the public meeting will be considered by the Department in formulating a final decision concerning this project. If a public meeting is arranged, it must be held in the area of the well no less than 30 days after publication of this notice for the purpose of receiving verbal and written comment concerning this project. If a public meeting is not arranged prior to publication, the notice must provide an opportunity for a public meeting. If a public meeting is later scheduled, there will be another 30-day notice period for that meeting. Please contact James Dodson, Professional Geologist II at 850-245-8653 for additional information.

Attachment 4-2
Communication Date 10/01/25

Executing and Clerking:
Executed in Tallahassee, Florida
State of Florida Department of Environmental Protection

Richard Lobinske

Richard Lobinske, Ph.D.
Environmental Administrator
Underground Injection Control
Aquifer Protection Program
Division of Water Resource Management

Certificate of Service

The undersigned duly designated clerk hereby certifies that this Notice of Draft Permit and all copies were sent on the filing date October 1, 2025, to the following listed persons:

Richard Lobinske, DEP/TLH, Richard.Lobinske@FloridaDEP.gov
James Dodson, DEP/TLH, James.Dodson@FloridaDEP.gov
Edith Chuy, DEP/TLH, Edith.Chuy@FloridaDEP.gov
Cheryl Greenwell, DEP/TLH, Cheryl.Greenwell@FloridaDEP.gov
Gabriele Starrach, DEP/SD Gabriele.Starrach@FloridaDEP.gov
Deanna Newburg, DEP/SD, Deanna.Newburg@FloridaDEP.gov
Patrick Day, PE, DRMP, PDay@DRMP.com
Greg Rawl, PG, GRawl10@Comcast.net
Jason Meadows, USEPA/ATL, Meadows.JasonB@EPA.gov

Filing and Acknowledgment

Filed, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Kaiden Miller

Digitally signed by Kaiden Miller
Date: 2025.10.01 09:14:21 -04'00'

Clerk

10/1/2025

Date

State of Florida
Department of Environmental Protection

Notice of Draft Permit

The Department of Environmental Protection hereby provides notice that it has prepared a draft permit for the proposed project as detailed in the application, subject to the conditions specified in the draft permit and summarized below. The applicant, Useppa Utility Company, Ronald Harris, Vice President, 5260 Summerlin Commons Way, #304, Fort Myers, Florida 33907 applied on September 16, 2025, for a Class V injection well operation permit. The project is located at Useppa Island Reverse Osmosis Water Treatment Plant, Useppa Island, Useppa Island, Florida 33922, in Lee County (File 0045884-007-UO/5O, WACS ID 98998).

The permittee will: Operate one non-hazardous Class V injection well (IW-1) and two associated monitor wells (MW-1 and MW-2) for the disposal of reverse osmosis concentrate from the Useppa Island Reverse Osmosis Water Treatment Plant. The maximum injection rate for IW-1 shall be 50 gallons per minute and the maximum injection volume for IW-1 shall be 0.072 million gallons per day. The injection well is constructed with a 10-inch diameter PVC casing set to 50 feet below land surface (bls) with a cemented annulus, and total depth of 60 feet bls. The injection zone is a G-III aquifer. Monitor well MW-1 is completed in the Surficial Aquifer from 5 to 15 feet bls. Monitor well MW-2 is completed in the Surficial Aquifer from 2 to 7 feet bls.

The Department has permitting jurisdiction under Chapter 403 of the Florida Statutes and the rules adopted thereunder. The project is not exempt from permitting procedures. The Department has determined that an Underground Injection Control permit is required for the proposed work.

Any interested person may submit written comments on the draft permit and may request a public meeting within 30 days after publication of this public notice. A request for a public meeting shall be submitted in writing and shall state the nature of the issues proposed to be raised in the meeting. If a public meeting is later scheduled, there will be another 30-day notice period for that meeting. Written comments or a public meeting request shall be submitted to the Department of Environmental Protection, Aquifer Protection Program, 2600 Blair Stone Road, MS 3530, Tallahassee, Florida 32399-2400, which is the office processing this permit application. All comments received within the 30-day period will be considered in formulation of the Department's final decision regarding permit issuance.

The files associated with this order are available for public inspection during normal business hours, 8 a.m. to 5 p.m., Monday through Friday, except state holidays, at the Department of Environmental Protection, South District, and at the Department of Environmental Protection, Aquifer Protection Program office in Tallahassee. Any additional information concerning this project may be obtained by contacting James Dodson, Professional Geologist II, at 850-245-8653.

FLORIDA DEPARTMENT OF
Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

Underground Injection Control
Class V, Group 4, Non-ASR Injection Well System
Operation Permit

Permittee
Useppa Utility Company
Ronald Harris
Vice President
5260 Summerlin Commons Way, #304
Fort Myers, Florida 33907
RonH@Welker-Harris.com

Permit/Certification

UIC Permit:	0045884-007-UO/5O
WACS Facility ID:	98998
Date of Issuance:	Draft
Date of Expiration:	Draft
Permit Processor:	James Dodson

Facility
Useppa Island Reverse Osmosis Water Treatment Plant
Useppa Island
Useppa Island, Florida 33922

Location

County:	Lee
Latitude:	26° 39′ 40″ N
Longitude:	82° 12′ 51″ W

Project: Class V Injection Well System IW-1

This permit is issued under the authority of Chapter 403, Florida Statutes (F.S.), and the rules promulgated thereunder, 62-528, Florida Administrative Code (F.A.C.).

The above-named permittee is hereby authorized to perform the work at the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department of Environmental Protection (Department or DEP) and made a part hereof and specifically described as follows.

To Operate: One non-hazardous Class V injection well (IW-1) and two associated monitor wells (MW-1 and MW-2) for the disposal of reverse osmosis concentrate from the Useppa Island Reverse Osmosis Water Treatment Plant. The maximum injection rate for IW-1 shall be 50 gallons per minute (gpm) and the maximum injection volume for IW-1 shall be 0.072 million gallons per day (mgd). The injection well is constructed with a 10-inch diameter PVC casing set to 50 feet below land surface (bls) with a cemented annulus, and total depth of 60 feet bls. The injection zone is a G-III aquifer. Monitor well MW-1 is completed in the Surficial Aquifer from 5 to 15 feet bls. Monitor well MW-2 is completed in the Surficial Aquifer from 2 to 7 feet bls.

In Accordance With: The Application to Construct DEP Form No. 62-528.900(1) dated September 16, 2025, accepted by the Aquifer Protection Program (APP) Tallahassee office on September 18, 2025 with all fees and supporting information.

Location: Useppa Island Reverse Osmosis Water Treatment Plant, Useppa Island, Useppa Island, Florida 33922, in Lee County.

The injection and monitor wells, as designated below by well name and Water Assurance Compliance System (WACS) testsite identification (ID), and construction details at this facility are as follows:

Draft

Table 1
Injection Well

Well Name	WACS Testsite ID	Well Depth (Feet bls)	Casing Size[1] (Inches)	Casing Thickness (Inches)	Casing or Tubing Type	Casing Depth or Interval (Feet bls)
IW-1	13974	60	10	0.365	Sch 40 PVC	50
					Open Hole	50 – 60

Notes: [1]All sizes in outside diameter. Constructed with a cemented annulus.

Table 2
Monitor Wells

Well Name	WACS Testsite ID	Monitor Zone	Casing Size (Inches)	Casing Thickness (Inches)	Casing Type	Casing Depth (Feet bls)	Monitoring Depth (Feet bls)
MW-1	29017A		2	0.015	Sch 40 PVC	15	
		Surficial Aquifer					5 – 15
MW-2	29018A		2	0.015	Sch 40 PVC	2	
		Surficial Aquifer					2 – 7

Notes: constructed with new, unused Schedule 40 PVC with an annulus fully cemented to land surface.

Subject To: Specific Conditions I-V and General Conditions 1-24.

Specific Conditions

I. Operating Requirements

A. General

1. Only non-hazardous injectate as described in this permit and purge water from the on-site monitor wells (associated with the injection well system) may be discharged into the injection wells. *[62-528.400(1), F.A.C.]*
2. The flow to the injection wells at each wellhead shall be monitored and controlled at all times to ensure the maximum fluid velocity down the well during operation does not exceed the respective flow rate indicated below, and shall not exceed 10 feet per second except during planned testing, maintenance, or emergency conditions in which case the flow rate shall not exceed 12 feet per second *[62-528.415(1)(f), F.A.C.]*:

Well	Peak Flow Rate (gpm)	Maximum Injection Volume (mgd)
IW-1	50	0.072

3. No owner or operator shall construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under

40 CFR part 142 or may otherwise adversely affect the health of persons. The applicant for a permit shall have the burden of showing that the requirements of this paragraph are met. [40 C.F.R § 144.12(a)]

4. All equipment of this facility shall be operated and maintained so as to function consistently as designed in removing pollutants. The wastewater stream shall remain non-hazardous at all times. *[62-528.307(3)(b) and 62-528.400(1), F.A.C.]*

5. In the event a well must be plugged or abandoned, the permittee shall obtain a permit from the Department as required by Chapter 62-528, Florida Administrative Code (F.A.C.). When no longer used for their intended purpose, these wells shall be properly plugged and abandoned. At least 180 days prior to well abandonment, the permittee shall submit to the Department the proposed plugging method, pursuant to Rule 62-528.460, F.A.C. *[62-528.460(1) and 62-528.435(6), F.A.C.]*

6. In accordance with rules 62-4.090 and 62-528.455(3)(a), F.A.C., the permittee shall submit an application for permit renewal at least 60 days prior to expiration of this permit. *[62-528.307(3)(a), F.A.C.]*

7. Hurricane Preparedness: Preparations to be made by permittee upon issuance of a "Hurricane Watch" by the National Weather Service include, but are not limited to:
   a. Secure all onsite salt and other stockpiled additive materials to prevent surface and/or ground water contamination.
   b. Properly secure equipment to prevent damage to well(s) and onsite treatment process equipment.

   [62-528.307(1)(f), F.A.C.]

B. Surface Equipment

1. The integrity of the monitoring zone sampling systems shall be maintained at all times. Sampling lines shall be clearly and unambiguously identified by monitoring zone at the point at which samples are drawn. All reasonable and prudent precautions shall be taken to ensure that samples are properly identified by monitoring zone and that samples obtained are representative of those zones. Sampling lines and equipment shall be kept free of contamination with independent discharges and no interconnections with any other lines. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*

2. The surface equipment for each injection well disposing of domestic (municipal) effluent shall maintain compliance with Chapter 62-600.540(5), F.A.C., for water hammer control, screening, access for logging and testing, and reliability and flexibility in the event of damage to the well and effluent piping. *[62-600.540(4), 62-528.307(1)(f), and 62-528.307(3)(b), F.A.C.]*

3. Injection wells not disposing of domestic (municipal) effluent shall maintain compliance with Chapter 62-528.450(2)(j), F.A.C., for water hammer control, as well as access for logging and testing, and reliability and flexibility in the event of damage to the well and effluent piping. *[62-528.450(2)(j), 62-528.307(1)(f), and 62-528.307(3)(b), F.A.C.]*

4. The surface equipment and piping for the injection and monitor wells shall be kept free of corrosion at all times. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*
5. Spillage onto the injection well pad(s) during construction activities, and any waters spilled during mechanical integrity testing, maintenance, testing, or repairs to the system(s) shall be contained on the pad(s) and directed to a sump which in turn discharges to the pumping station wet well, or via other approved means to the injection well system, or by another method approved by the Department. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*
6. The injection well pads are not, unless specific approval is obtained from the Department, to be used for storage of any material or equipment at any time. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*
7. The surficial aquifer monitor wells adjacent to the injection and monitor wells shall be secured, maintained, and retained in service for subsequent sampling that may be needed (i.e., should there be an accidental discharge to the surficial aquifer); alternatively, the facility may submit a request to the APP Tallahassee office for cessation of sampling followed by capping, or plugging and abandonment of these wells. *[62-528.307(3)(b) and 62-520.600(6)(k), F.A.C.]*

II. Quality Assurance/Quality Control

1. The permittee shall ensure that the operation of this injection well system shall be as described in the application and supporting documents. Any proposed modifications to the permit, construction procedures, testing procedures, completion procedures, operation procedures, or any additional work not described in the application or supporting documents shall be submitted in writing to the Tallahassee office of the Aquifer Protection Program for review and clearance prior to implementation. Changes of negligible impact to the environment and staff time will be reviewed by the program manager, cleared when appropriate and incorporated into this permit. Changes or modifications other than those described above will require submission of a completed application and appropriate processing fee as per Rule 62-4.050, F.A.C. *[62-528.100, 62-4.050, F.A.C.]*
2. Proper operation and maintenance include effective performance and appropriate quality assurance procedures; adequate operator staffing and training; and adequate laboratory and process controls. *[62-528.307(3)(b), F.A.C.]*

3. All water quality samples required by this permit shall be collected in accordance with the appropriate Department Standard Operation Procedures (SOP), pursuant to Chapter 62-160.210, F.A.C., *Approved Field Procedures*. A certified laboratory shall conduct the analytical work, as provided by Chapter 62-160.300, F.A.C., *Laboratory Certification*. Department approved test methods shall be utilized, unless otherwise stated in this permit. All calibration procedures for field testing and laboratory equipment shall follow manufacturer's instrumentation manuals and satisfy the requirements of the Department SOPs. A listing of the SOPs pertaining to field and laboratory activities is available at the

DEP website at: https://floridadep.gov/dear/quality-assurance/content/dep-sops. *[62-4.246, 62-160, F.A.C.]*

4. All indicating, recording and totalizing devices associated with the injection well system shall be maintained in good operating condition and calibrated annually at a minimum. The pressure gauges, flow meter, and chart recorders shall be calibrated using standard engineering methods. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*
5. All reports required by this permit which are submitted to the Department shall contain the following certification as required by Rule 62-528.340(4), F.A.C.:

   I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. *[62-528.340(1), (2), and (4), F.A.C.]*
6. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department as being more representative of ground water conditions. *[62-520.310(5), F.A.C.]*
7. An operation and maintenance manual, including a description of surge and water hammer control and procedures to cease injection if sampling results of recharge water show it does not meet the water quality applicable to the injection zone, shall be submitted to the Department within 60 days of the issuance of this permit. This requirement does not apply if an operation and maintenance manual was previously submitted to the Department. *[62-528.415(3), F.A.C.]*

III. Testing and Reporting Requirements

A. General

1. The permittee shall submit monthly to the Department the results of all injection well and monitor well data required by this permit no later than the last day of the month immediately following the month of record. The report shall include:
   a. A cover page summarizing the current status of all monthly activities, including, but not limited to, the certification and signature required in Specific Condition number II.5, above.
   b. Operational and water quality data in a tabular format. The following identifying information must be included on each data sheet:
      i. Facility name
      ii. Well name
      iii. UIC permit number
      iv. WACS facility ID

v. WACS Testsite ID number on appropriate data sheet (as provided in Table 1 and Table 2).

c. Laboratory pages and original supporting documentation including DEP form FD 9000-24, *Groundwater Sampling Log*, for the purging of each monitor well.

[62-528.307(3)(d), F.A.C.]

2. The report may be sent via electronic mail in Adobe™ (.pdf) format to the following Program e-mail addresses:

South District	SouthDistrict@FloridaDEP.gov
Tallahassee - APP Program	TAL_UIC@FloridaDEP.gov

If a paper copy of the report is submitted, it should be sent to Department staff at the following addresses:

South District	2295 Victoria Avenue, Suite 364 Ft. Myers, Florida 33901-3875
Tallahassee - APP Program	2600 Blair Stone Road, MS 3530 Tallahassee, Florida 32399-2400

[62-528.307(3)(d), F.A.C.]

B. Monitoring

1. The injection system shall be monitored in accordance with Rules 62-528.425(1)(g) and 62-528.430(2), F.A.C. The following injection well performance data and monitor zone data shall be recorded and reported in the *Monthly Operating Report (MOR)* as indicated below. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. *[62-528.307(3)(d) and 62-528.430(2), F.A.C.]*

a. Monthly (M) samples and measurements shall be taken as close to 30 days apart as possible.

b. Quarterly (Q) samples and measurements shall be taken during the following quarters:
- ♦ January 1 – March 31
- ♦ April 1 – June 30
- ♦ July 1 – September 30
- ♦ October 1 – December 31

Samples and measurements collected during consecutive quarters shall be taken at least 30 days apart. A MOR including quarterly results shall be noted as such on the title page of the report.

c. Semiannual (SA) samples and measurements shall be taken during the following timeframes:
- ♦ January 1 – June 30
- ♦ July 1 – December 31

Semiannual samples and measurements shall be taken at least 90 days apart. A MOR including semiannual results shall be noted as such on the title page of the report.

d. Annual (A) samples and measurements

- The period for reports of annual samples and measurements shall be for the calendar year ending December 31.

Annual samples and measurements taken in consecutive years shall be taken at least 6 months apart and as close to a year apart as possible. If a MOR includes annual results, it shall be noted as such on the title page of the report.

[62-528.307(1)(m) F.A.C.]

2. The permittee shall submit the results of all injection well and monitor well data required by this permit to the Department no later than the last day of the month immediately following the month of record. *[62-528.307(2)(d)]*
3. Technical malfunctions and emergencies that interfere with the sampling schedule can be explained in the comment section of the MOR. The explanation shall include what issues occurred, how long it will take to address the issues, and an estimated time when the samples and measurements will be completed and submitted.

Draft

Table 3
Monitoring Schedule

Parameter	Unit	Recording Frequency or Sampling Method	Frequency of Analyses		
			IW-1 *13974*	**MW-1** *29017A*	**MW-2** *29018A*
Injection Pressure, Max.	psi	continuous	D/M [a]		
Injection Pressure, Min.	psi	continuous	D/M [a]		
Injection Pressure, Avg.	psi	continuous	D/M [a]		
Flow Rate, Max.	GPM	continuous	D/M [a]		
Flow Rate, Min.	GPM	continuous	D/M [a]		
Flow Rate, Avg.	GPM	continuous	D/M [a]		
Volume Injected	MG	daily/monthly	D/M		
Pressure or Water Level Max.	psi or ft	continuous		D/M [a]	D/M [a]
Pressure or Water Level Min.	psi or ft	continuous		D/M [a]	D/M [a]
Pressure or Water Level Avg.	psi or ft	continuous			D/M [a]
pH[b]	standard	grab/purge	M	M	M
Specific Conductance[b]	µmhos/cm	grab/purge	M	M	M
Temperature[b]	°C	grab/purge	M	M	M
Dissolved Oxygen[b]	mg/L	grab/purge		M	M
Oxidation-Reduction Potential[b]	mV	grab/purge		M	M
Turbidity[b]	NTU	grab/purge		M	M
Chloride	mg/L	grab/purge	M	M	M
Sulfate	mg/L	grab/purge	M	M	M
Total Dissolved Solids	mg/L	grab/purge	M	M	M
Bicarbonate	mg/L	grab/purge	M	M	M
Calcium	mg/L	grab/purge	M	M	M
Total Iron	mg/L	grab/purge	M	M	M
Magnesium	mg/L	grab/purge	M	M	M
Potassium	mg/L	grab/purge	M	M	M
Sodium	mg/L	grab/purge	M	M	M
Gross Alpha	pCi/L	grab/purge	Q	S	S
Radium^{226}	pCi/L	grab/purge	Q	S	S
Radium^{228}	pCi/L	grab/purge	Q	S	S
Primary & Secondary Drinking Water Standards, Source Water		grab	A		

D - Daily; M - Monthly; Q- Quarterly; S- Semi-annually; A - Annually
[a] - Operational data reporting for flows, pressures and water levels: daily maximum, minimum and average from continuous reporting; monthly maximum, minimum and average (calculated from daily averages).
[b] - Field samples
Refer to Tables 1 and 2 above for the appropriate WACS testsite IDs to be used for reporting.

4. A laboratory analysis for the Primary and Secondary Drinking Water Standards of Chapter 62-550, F.A.C., shall be submitted annually. See the attachment to this permit for the parameters.
   a. For facilities permitted to inject domestic wastewater, the domestic wastewater annual sample results may be the same as submitted for the domestic wastewater program if taken within the last 12 months. Primary and Secondary Drinking Water Standards of Chapter 62-550, F.A.C., not included in the domestic wastewater annual sample requirements shall be included in the same sample or in a separate sample. If not required annually for the domestic wastewater program, a separate sample shall

be taken and reported for this permit. The samples shall be composite and grab samples as appropriate for the domestic wastewater program. The permittee may choose to take a combined annual sample from multiple domestic wastestreams if they are authorized for injection in this permit.

b. For facilities permitted to inject water other than domestic wastewater, the source water samples shall not be combined with domestic wastewater samples. The samples shall be grab samples. The permittee may choose to take a combined annual sample from multiple non-domestic wastestreams if they are authorized for injection in this permit.
c. For renewal of this permit, the permittee shall submit a separate laboratory analysis for each permitted injectate source.

[62-528.425(1)(a), F.A.C.]

5. Monitor well purging and field stabilization parameter measurement is required prior to the collection of laboratory samples for the *Monthly Operating Reports (MORs)*. The facility shall conduct the monitor well sampling following the monitor well sampling protocols taken from FS 2200-*Groundwater Sampling* in the DEP-SOP-001/01 *Field Sampling Procedures Manual.* The results of the purging techniques and field stabilization parameters shall be provided on DEP Form FD 9000-24 or a similar alternative approved by DEP, and the completed forms shall be submitted to DEP with the MORs.
6. The Department will consider an alternate purging method meeting monitor well sampling protocol in FS 2200-*Groundwater Sampling* in the DEP-SOP-001/01 *Field Sampling Procedures Manual* in the case where the above procedure causes a hardship to the facility. The permittee shall request an alternate method and receive written Department approval before implementing it. *[62-160.210(1) and 62-528.430(2), F.A.C.]*
7. The flow from the monitoring zones during well evacuation and sampling shall not be discharged to surface waters or aquifers containing an underground source of drinking water. Waters purged from monitor wells in preparation for sampling shall be diverted to the injection well head via the pad drainage system, wet well, or treatment plant. *[62-4.030, 62-620.320, F.A.C.]*

IV. Abnormal Events

1. In the event the permittee is temporarily unable to comply with any of the conditions of a permit due to breakdown of equipment, power outages or destruction by hazard of fire, wind, or by other cause, the permittee of the facility shall notify the South District. *[62-528.415(4)(a), F.A.C.]*
2. Notification shall be made in person, by telephone, or by electronic mail (e-mail) within 24 hours of breakdown or malfunction to the South District.
[62-528.307(1)(x), F.A.C.]
3. A written report of any noncompliance referenced in Specific Condition number IV.1. above shall be submitted to the South District and the APP Tallahassee office within five days after its occurrence. The report shall describe the nature and cause of the breakdown or malfunction, the steps being taken or planned to be taken to correct the

problem and prevent its reoccurrence, emergency procedures in use pending correction of the problem, and the time when the facility will again be operating in accordance with permit conditions.
[62-528.415(4)(b), F.A.C.]

4. **Reporting Requirements**

The permittee shall report to the Department's South District any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

a. The following shall be included as information which must be reported within 24 hours under this condition:
   1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
   2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
   3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
   4) Any unauthorized discharge to surface or ground waters.

b. Oral reports as required by this subsection shall be provided as follows:
   1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the **State Watch Office Toll-Free Number** 800-320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Watch Office:
      a) Name, address, and telephone number of person reporting;
      b) Name, address, and telephone number of permittee or responsible person for the discharge;
      c) Date and time of the discharge and status of discharge (ongoing or ceased);
      d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
      e) Estimated amount of the discharge;
      f) Location or address of the discharge;
      g) Source and cause of the discharge;

h) Whether the discharge was contained on-site, and cleanup actions taken to date;
i) Description of area affected by the discharge, including name of water body affected, if any; and
j) Other persons or agencies contacted

2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's South District within 24 hours from the time the permittee becomes aware of the circumstances.

c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's South District shall waive the written report.

[403.077(2)(d), F.S., 62-528.307(1)(e) and 62-528.307(1)(x), F.A.C.]

5. **Pollution Notification**

a. In accordance with subsection 403.077, F.S., in the event of a reportable pollution release, an owner or operator of the installation at which the reportable pollution release occurs must provide to the department information reported to the State Watch Office within the Division of Emergency Management pursuant to any department rule, permit, order, or variance, within 24 hours after the owner's or operator's discovery of such reportable pollution release. The Department's Pollution Notice website is at https://floridadep.gov/pollutionnotice.

b. If multiple parties are subject to the notification requirements based on a single reportable pollution release, a single notification made by one party in accordance with this section constitutes compliance on behalf of all parties subject to the requirement. However, if the notification is not made in accordance with this section, the department may pursue enforcement against all parties subject to the requirement.

c. If, after providing notice pursuant to paragraph (a), the owner or operator of the installation determines that a reportable pollution release did not occur or that an amendment to the notice is warranted, the owner or operator may submit a letter to the department documenting such determination.

d. If, after providing notice pursuant to paragraph (a), the installation owner or operator discovers that a reportable pollution release has migrated outside the property boundaries of the installation, the owner or operator must provide an additional notice to the department that the release has migrated outside the property boundaries within 24 hours after its discovery of the migration outside of the property boundaries.

[403.077(2)(d), F.S., 62-528.307(1)(e) and 62-528.307(1)(x), F.A.C.]

V. Emergency Disposal

1. All applicable federal, state and local permits must be in place to allow for any alternate discharges due to emergency or planned outage conditions.
   [62-528.415(4)(c)1, F.A.C.]
2. Any proposed changes in emergency disposal methods shall be submitted to the South District office and the Tallahassee office for review and approval prior to implementation.
   [62-528.415(4)(c), F.A.C.]
3. The emergency disposal method must be fully operational in the event of planned or emergency outages of the injection well system.
   [62-528.415(4)(c)2, F.A.C.]

General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to section 403.141, F.S. *[62-528.307(1)(a), F.A.C.]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action. *[62-528.307(1)(b), F.A.C.]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
   [62-528.307(1)(c), F.A.C.]
4. This permit conveys no title to land, water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
   [62-528.307(1)(d), F.A.C.]
5. This permit does not relieve the permittee from liability for harm to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties there from; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. *[62-528.307(1)(e), F.A.C.]*
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to

achieve compliance with the conditions of this permit, or are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
[62-528.307(1)(f), F.A.C.]

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
   a. Have access to and copy any records that must be kept under conditions of this permit;
   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
   d. Reasonable time will depend on the nature of the concern being investigated.
   [62-528.307(1)(g), F.A.C.]
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
   a. A description of and cause of noncompliance; and
   b. The period of noncompliance, including dates and times; or, if not corrected the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent the recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
   [62-528.307(1)(h), F.A.C.]
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
   [62-528.307(1)(i), F.A.C.]
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. *[62-528.307(1)(j), F.A.C.]*
11. This permit is transferable only upon Department approval in accordance with rules 62-4.120 and 62-528.350, F.A.C. The permittee shall be liable for any non-compliance of the

permitted activity until the transfer is approved by the Department. *[62-528.307(1)(k), F.A.C.]*

12. This permit or a copy thereof shall be kept at the work site of the permitted activity. *[62-528.307(1)(l), F.A.C.]*

13. The permittee shall comply with the following:
    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records shall be extended automatically unless the Department determines that the records are no longer required.
    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
    c. Records of monitoring information shall include:
        1) the date, exact place, and time of sampling or measurements;
        2) the person responsible for performing the sampling or measurements;
        3) the dates analyses were performed;
        4) the person responsible for performing the analyses;
        5) the analytical techniques or methods used;
        6) the results of such analyses.
    d. The permittee shall furnish to the Department, within the time requested in writing, any information which the Department requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
    e. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

    [62-528.307(1)(m), F.A.C.]

14. All applications, reports, or information required by the Department shall be certified as being true, accurate, and complete. *[62-528.307(1)(n), F.A.C.]*

15. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each scheduled date.
    [62-528.307(1)(o), F.A.C.]

16. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
    [62-528.307(1)(p), F.A.C.]

17. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-528.307(1)(q), F.A.C.]*

18. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. *[62-528.307(1)(r), F.A.C.]*

19. This permit may be modified, revoked and reissued, or terminated for cause, as provided in 40 C.F.R. sections 144.39(a), 144.40(a), and 144.41 (1998). The filing of a request by the permittee for a permit modification, revocation or reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. *[62-528.307(1)(s), F.A.C.]*

20. The permittee shall retain all records of all monitoring information concerning the nature and composition of injected fluid until five years after completion of any plugging and abandonment procedures specified under rule 62-528.435, F.A.C. The permittee shall deliver the records to the Department office that issued the permit at the conclusion of the retention period unless the permittee elects to continue retention of the records. *[62-528.307(1)(t), F.A.C.]*

21. All reports and other submittals required to comply with this permit shall be signed by a person authorized under rules 62-528.340(1) or (2), F.A.C. All reports shall contain the certification required in rule 62-528.340(4), F.A.C. *[62-528.307(1)(u), F.A.C.]*

22. The permittee shall notify the Department as soon as possible of any planned physical alterations or additions to the permitted facility. In addition, prior approval is required for activities described in rule 62-528.410(1)(h). *[62-528.307(1)(v), F.A.C.]*

23. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or injection activity which may result in noncompliance with permit requirements. *[62-528.307(1)(w), F.A.C.]*

24. The permittee shall report any noncompliance which may endanger health or the environment including:
    a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or
    b. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

    Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance

has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

[62-528.307(1)(x), F.A.C.]

Issued this (day) day of (month) 2025
State of Florida
Department of Environmental Protection

Draft

_____

Richard Lobinske, Ph.D.
Environmental Administrator
Underground Injection Control
Aquifer Protection Program
Division of Water Resource Management

Draft

Fact Sheet

Useppa Utility Company
Useppa Island Reverse Osmosis Water Treatment Plant
Class V
Permit File: 0045884-007-UO/5O
WACS ID: 98998
October 1, 2025

Operation permit for the Useppa Island Water Treatment Plant Class V Group 4 injection well IW-1 and monitor wells MW-1 and MW-2.

1. General Information

A. Statutory Basis for Requiring/Issuing Permit

The Department of Environmental Protection (Department or DEP) has permitting jurisdiction under Chapter 403, Florida Statutes (F.S.), and the rules adopted thereunder. The project is not exempt from permitting procedures. The Department has determined that an Underground Injection Control permit is required for the project.

B. Name and Address of Applicant

Ronald Harris
Vice President
Useppa Utility Company
5260 Summerlin Commons Way, #304
Fort Myers, Florida 33907
RonH@Welker-Harris.com

Facility Location

Useppa Island Reverse Osmosis Water Treatment Plant
Useppa Island
Useppa Island, Florida 33922
Lee County

C. Description of Applicant's Operation

To operate one non-hazardous Class V injection well (IW-1) and two associated monitor wells (MW-1 and MW-2) for the disposal of reverse osmosis concentrate from the Useppa Island Reverse Osmosis Water Treatment Plant. The maximum injection rate for IW-1 shall be 50 gallons per minute (gpm) and the maximum injection volume for IW-1 shall be 0.072 million gallons per day (mgd). The injection well is constructed with a 10-inch diameter PVC casing set to 50 feet below land surface (bls) with a cemented annulus, and total depth of 60 feet bls. The injection zone is a G-III aquifer. Monitor well MW-1 is completed in the Surficial Aquifer from 5 to 15 feet bls. Monitor well MW-2 is completed in the Surficial Aquifer from 2 to 7 feet bls.

D. Permitting History of this Facility

1. March 18, 2011: Construction Permit No. 045884-002-UC/5X issued authorizing the construction of a Class V, Group 9 exploratory well.
2. October 11, 2013: Construction Permit No. 045884-003-UC/5O issued authorizing injection well construction and operational testing.
3. December 7, 2018: Time extension No. 045884-004-UC/TX issued extending permit 45884-003-UC, moving the existing the expiration date of the existing construction permit to September 30, 2019.

E. Documents Used in Permitting Process

1. DRMP, Inc. "Operating Permit Application Renewal with Supporting Documentation: Useppa Island RO Water Treatment Plant Class V Injection Well System" dated September 16, 2025. Received September 18, 2025.
2. Cardno Entrix "Useppa Utility Company Completion Report for Class V Exploratory Well EX-1" dated April 4, 2012.
3. Cardno Entrix "Operation and Maintenance Manual Useppa Island RO Concentrate Disposal Well System" dated August 7, 2015 (Revised December 14, 2023).
4. Cardno Entrix "Addendum to Operational and Maintenance Manual: Emergency Discharge Management Procedures and Discharge Point for Monitor Well Purge Water" dated October 5, 2015.

2. Reasons Permit was Issued, Derivation of Decision

A. Area of Review *(Rule 62-528.440(6), Florida Administrative Code (F.A.C.))*

Injection Well IW-1 is located at latitude 26° 39′ 40″ N and longitude 82° 12′ 51″ W. Wells located within a 1.0-mile radius from the injection facility were located on a map and the well information listed. There were no wells identified that were not properly completed or plugged within the 1.0-mile area of review. *See Document Number 1 above*.

B. Mechanical Integrity Demonstration *(Rule 62-528.300 F.A.C.)*

Not required by Chapter 62-528, F.A.C. for Class V wells.

C. Confinement *(Rule 62-528.405(2) F.A.C.)*

Confinement is not required by Chapter 62-528, F.A.C. for Class V wells if the well construction will not cause violations of ground water quality standards. Significant confinement exists between the injection zone and the production zone of the two reverse osmosis supply wells, RO1 and RO3, which are completed in the upper portion of the mid-Hawthorn Aquifer at a depth from 280 to 340 feet bls.

D. Underground Source of Drinking Water, *(Rule 62-528.405(1)(a) F.A.C.)*

The injection zone is not an underground source of drinking water. A small freshwater lens is likely present beneath the topographically high portion of the island.

E. Injection Zone Testing, *(Rule 62-528.405(1)(a), F.A.C.)*

Performed through water quality testing, formation sampling, geophysical logs (caliper, gamma ray, dual induction, borehole compensated sonic, temperature), straddle packer testing, and long and short-term injection testing. A short-term aquifer pump test at an

average rate of 81 gallons per minute was conducted on IW-1 for a 4-hour period on February 23, 2012. Transmissivity values for the IW-1 injection zone were calculated to be 12,000 to 17,000 gallons per day/ft. The injection zone occurs in the Tamiami Formation at an interval of 50 to 60 feet bls. *See Document Numbers 1 and 2 above*.

F. Well Construction

Injection Well:

Table 1
Injection Well

Well Name	WACS Testsite ID	Well Depth (Feet bls)	Casing Size[1] (Inches)	Casing Thickness (Inches)	Casing or Tubing Type	Casing Depth or Interval (Feet bls)
IW-1	13974	60	10	0.365	Sch 40 PVC	50
					Open Hole	50 – 60

Notes: [1]All sizes in outside diameter. Constructed with a cemented annulus.

Monitor Wells:

Table 2
Monitor Wells

Well Name	WACS Testsite ID	Monitor Zone	Casing Size (Inches)	Casing Thickness (Inches)	Casing Type	Casing Depth (Feet bls)	Monitoring Depth (Feet bls)
MW-1	29017A		2	0.015	Sch 40 PVC	15	
		Surficial Aquifer					5 – 15
MW-2	29018A		2	0.015	Sch 40 PVC	2	
		Surficial Aquifer					2 – 7

Notes: constructed with new, unused Schedule 40 PVC with an annulus fully cemented to land surface.

G. Monitor Plan Rule, *(Rule 62-528.425(1), F.A.C.)*

Single zone monitor well MW-1 is located 53 feet south of IW-1. The monitor interval is from 5 to 15 feet bls (undifferentiated sands of the Surficial Aquifer). The monitor zone is for detection of any vertical migration of effluent from the injection zone into overlying permeable zones. *See Documents Numbers 1 and 2 above*.

Single zone monitor well MW-2 is located 180 feet southeast of IW-1. The monitor interval is from 2 to 7 feet bls (undifferentiated sands of the Surficial Aquifer). The monitor zone is for detection of any vertical migration of effluent from the injection zone into overlying permeable zones. *See Document Numbers 1 and 2 above*.

Ground water from the monitor zones is analyzed monthly for chemical parameters. See Rules 62-528.425(1)(e) and (g) and 62-528.430(2)(b)1.d., F.A.C.

The pressure of the monitor zones is monitored continuously. See Rules 62-528.425(1)(e) and (g) and 62-528.430(2)(b)1.d., F.A.C.

The pressure and flow are monitored continuously for the injection well. See Rules 62 528.425(1)(b) and 62 528.430(2)(b)1.b. and c., F.A.C.

The effluent is analyzed monthly for chemical parameters. See Rules 62-528.425(1)(a) and 62-528.430(2)(b)1.a. and 2.b, F.A.C.

H. Financial Responsibility, ***(Rule 62-528.435(9) and 62-528.455(3)(b)8 and (3)(c)3, F.A.C.)***

Not required by Chapter 62-528, F.A.C., for Class V wells.

I. Emergency Discharge, ***(Rule 62-528.455(1), F.A.C.)***

Not required by Chapter 62-528, F.A.C., for Class V wells.

3. Agency Action

A draft permit will be issued in accordance with Rule 62-528.310 of the Florida Administrative Code.

4. Public Rights

Public notice of this draft permit will include the details of a public meeting, or will state that any interested person may request a public meeting within 30 days of the public notice. A request for a public meeting shall be in writing and shall state the nature of the issues proposed to be raised at the meeting. If a public meeting is later scheduled, there will be another 30-day notice period for that meeting.

Any interested person may submit written comments on the draft permit within 30 days of the public notice or through the public meeting date, as appropriate. Written comments or a public meeting request may be submitted to the Department of Environmental Protection, Aquifer Protection Program, 2600 Blair Stone Road, MS 3530, Tallahassee, Florida 32399-2400. All comments received within the 30-day period and through the public meeting date will be considered in formulation of the Department's final decision regarding permit issuance.

After the conclusion of the public comment period and public meeting described above the Department may revise the conditions of the permit based on such public comment. Then the applicant will publish Notice of the Proposed Agency Action. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing). Accordingly, the Department's final action may be different from the position taken by it in the Notice of the Proposed Agency Action. The petition must conform to the requirements specified in the Notice and be filed (received) within 14 days of publication of the Notice in the Office of General Counsel, M.S. 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000. The failure of any person to file a Petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative (hearing) under Section 120.569 and Section 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will only be at the discretion of the presiding officer upon filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

The application, draft permit, and fact sheet are available for public inspection during normal business hours, 8 a.m. to 5 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, South District Office, 2295 Victoria Avenue, Suite 364, Ft. Myers, Florida 33901-3875, and at the Department of Environmental Protection, 2600 Blair Stone Road,

Tallahassee, Florida 32399-2400. Any additional information concerning this project may be obtained by contacting James Dodson, Professional Geologist II, at 850-245-8653.

5. Agency Contact

James Dodson, PG
Professional Geologist II
Aquifer Protection Program
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 3530
Tallahassee, Florida 32399-2400
Phone: 850-245-8653

FLORIDA DEPARTMENT OF Environmental Protection

South District
2295 Victoria Ave, Suite 364
Fort Myers, FL 33901
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

August 27, 2025

Donald Beckstead, President
Useppa Utility Company
P.O. Box 640
Bokeelia, FL 33922
Email: DBeckstead@useppa.com

Re: Warning Letter
Useppa Island Reverse Osmosis
Water Treatment Plant
Useppa Island, Florida 33924
File Number: 045884-005-UO/5O
WACS ID: 98998
Lee County – UIC

Dear Mr. Beckstead:

A Bi-annual Compliance Inspection was conducted at your facility on **August 12, 2025**. During this inspection, possible violations of Chapter 403, Florida Statutes, and Chapters 62-4 and 62-528, Florida Administrative Code (F.A.C.), were observed.

During this inspection, Department personnel noted the following:

- The facility is operating without a current permit, which expired on July 16, 2025. [Rule 62-528.307)(3)(a),F.A.C]
- At the time of inspection, scale buildup on IW-1 piping indicated the piping is leaking. The IW-1 ARV and wellhead exhibit minor rust accumulation. [Rule 62-528.307(1)(f), F.A.C.]
- No calibration certificates for the MW-1 and MW-2 transducers and IW-1 pressure gauge and transducer were available for inspection. [Rule 62-528.307(1)(f) & (m), F.A.C.]

A review of the facility's Monthly Operation Reports (MOR) found the following deficiencies:

- February 2024 MW-1 and MW-2 semi-annual water quality sampling was conducted but data were missing from the MOR. [Rule 62-528.307(1)(m)3.f., F.A.C.]

Attachment 4-2
Communication Date 08/27/25

- July 2024 IW-1 quarterly sampling and MW-1, MW-2 semi-annual sampling are missing from the MOR.
  [Rule 62-528.307(1)(m)3.f., F.A.C.]
- March 2025 IW-1 and MW physical data contain the wrong dates.
  [Rule 62-528.307(1)(m)3.f., F.A.C.]
- December 2024 IW-1 sampling was omitted.
  [Rule 62-528.307(1)(m)3.a., F.A.C]

Violations of Florida Statutes or administrative rules may result in liability for damages and restoration, and the judicial imposition of civil penalties, pursuant to sections 403.121, 403.131, 403.141 and 403.161, Florida Statutes.

Please contact **Gabriele Starrach** via e-mail at **Gabriele.Starrach@FloridaDEP.gov or at 239-344-5653 within 15 days of receipt of this Warning Letter** to arrange a meeting to discuss this matter. The Department is interested in receiving any facts you may have that will assist in determining whether any violations have occurred. You may bring anyone with you to the meeting that you feel could help resolve this matter.

Please be advised that this Warning Letter is part of an agency investigation, preliminary to agency action in accordance with section 120.57(5), Florida Statutes. We look forward to your cooperation in completing the investigation and resolving this matter.

Sincerely,

Elizabeth Sweigert
Director of District Management
South District Office
Florida Department of Environmental Protection

Enclosure: Inspection Report

ec: Shane Cassidy, SCassidy@uswatercorp.net
Robert Dye, RDye@uswatercorp.net

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

Facility: Useppa Island RO WTP Useppa Island, Florida 33924 Lee County – UIC **Contact E-mail:** DBeckstead@useppa.com **File Number:** 045884-005-UO/5O	**WACS ID:** 98998 Operational Permit **Permit Expiration:** 07/16/2025 – Expired **Well Field Status:** Operational Operate a non-hazardous underground injection control (UIC) well system consisting of one Class V injections well (IW-1) and two associated monitor wells (MW-1 and MW-2) for the disposal of osmosis concentrate from the Useppa Island RO WTP.

Inspection Date: August 12, 2025	**Purpose of Visit (Inspection Type)**	Bi-Annual (INSP) √ Compliance (INSP) √ Construction (COI) ☐ Enforcement (INSP) ☐ Complaint (CI) ☐ **Other** ☐ ( )		
Wells authorized in permit:	**Class I**		**Monitoring wells**	**MW-1 and MW-2**
	Class V	**IW-1**	**Other**	
Wells inspected at visit:	**Class I**		**Monitoring wells**	**MW-1 and MW-2**
	Class V	**IW-1**	**Other**	
Is operator's license current and posted? ☒Yes ☐No ☐N/A (OM; only applicable to DW/ASR)				

Facility Contact(s) at time of inspection:	Phone:	Email:
Shane Cassidy	239-671-2808	scassidy@uswatercorp.net
Robert Dye		rdye@uswatercorp.net

Compliance areas evaluated: (Red is COMET violation codes)

***IC**: In Compliance; **NC**: Out of Compliance **SC**: Significant Non-Compliance **NA**: Not Applicable, **NE**: Not Evaluated*

Operating Requirements		Monitoring, Records, & Reports		Facility Site Review (OM)		Calibration (OM)	
IC	1. Volume (WI)	NC	6. Records of MOR (MM)	NC	8. Wellheads	NC	14. Pressure Gauges
IC	2. Pressure (IP)	IC	7. Lab Reports (electronic or hard copies) (MR)	N/A	9. Annulus Tank	IC	15. Flow Meters
IC	3. Emergency (OM)			NC	10. Rust & Corrosion	N/A	16. Chart Recorders
SC	4. Valid Permit (OP)			IC	11. Labeling	IC	17. Other Equipment (SCADA)
N/A	5. O&M Manual (OM)			IC	12. Purging	SC	18. Calibration Certificates
				IC	13. Maintenance		

Facility Inspection Worksheet

GENERAL

	Rule	Operating Requirements	N/A	Yes	No	COMET CODE	Notes
1	62-528.415(4)(c)	Emergency Discharge method permitted and operational	☐	☒	☐	(OM)	
2	62-528.415(4)(b)	Abnormal Events reported	☐	☒	☐	(FN)	
3	62-528.307(1)(l)	Current Permit on site	☐	☐	☒	(OP)	See below
4	62-528.415(3)	Up-To-Date Operation and Maintenance Manual on site	☒	☐	☐	(OM)	

	Rule	Monitoring, Records, And Reports	N/A	Yes	No	COMET CODE	Notes
5	62.528.307(1)(m)	Monitoring Records & Reports on site and current (MOR's)	☐	☒	☐	(MM)	
6		Specific Injectivity Test available	☒	☐	☐	(MM)	
7		Fall-Off Test available	☒	☐	☐	(MM)	
8	62-528.307(1)(m)	Lab Reports available	☐	☒	☐	(MR)	
9	62-528.307(f)	SCADA System functioning properly	☐	☒	☐	(OM)	

	Pump Station			
10	Total Number of Pumps	N/A	Number of Pumps operating at time of inspection:	N/A
11	Type of Pumps	N/A	Number of pumps operational at time of inspection:	N/A

	Rule	Pump Station	N/A	Yes	No	COMET CODE	Notes
12	62-600.540(4)(h)	Designated Stand-by pump	☒	☐	☐	(OM)	
13	62-600.540(4)(a)	Lightning Arrestor on Pump Station	☒	☐	☐	(OM)	
14	62-528.307(1)(f)	Pump free of leaks	☒	☐	☐	(OM)	
15	62-528.307(1)(f)	Pump station free of rust and corrosion If corroded, note degree (Minor, Moderate, Severe)	☒	☐	☐	(OM)	
16	62-528.307(1)(f)	Pressure gauge operational	☒	☐	☐	(OM)	

Notes: The facility's permit expired on July 16, 2025. An application to renew the facility's permit was due, but not submitted, 60 days prior to expiration. Permit Renewal Notice Reminder Letters were sent on October 22, 2024 and June 13, 2025.
Oculus Links:
June 13, 2025 2nd Notice Reminder:
https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=35.160408.1]&[profile=Permitting_Authorization]

October 22, 2024 Reminder:
https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=35.155103.1]&[profile=Permitting_Authorization]

Injection Well # IW-1			
1	Rule: 62-528.415(1)(f)	2	Rule: 62-528.415(1)(a)-(c)

Max Flow Permitted	Flow at Inspection	Max Wellhead Pressure	Pressure at Inspection
50 GPM	0 GPM	N/A	6.5 PSI

	Rule	Injection Well Requirements	N/A	Yes	No	COMET CODE	Notes
3	62-528.307(1)(f)	Injection well labeled by well number	☐	☒	☐	(OM)	
4	62-528.425(1)(b)	Gauges & Flow Meter agree with electronic equipment (SCADA)	☐	☒	☐	(OM)	
5	62-600.540(4)	Manual back-up pressure and flow equipment functioning	☐	☒	☐	(OM)	
6	62-528.425(1)(b)	Flow meter functioning	☐	☒	☐	(OM)	
7	62-528.307(1)(f)	Injection Wellhead free of leaks	☐	☐	☒	(OM)	See below
8	62-528.307(1)(f)	Injection well / Surface equipment free of rust and corrosion If corroded, note degree (Minor, Moderate, Severe)	☐	☐	☒	(OM)	Minor. See below
9	62-600.540(4)(f)	Pad maintained, not used for storage	☐	☒	☐	(OM)	
10	62-528.307(1)(f)	Sumps are maintained	☒	☐	☐	(OM)	
11	62-528.307(1)(f)	Air release valves free from leaks	☐	☐	☒	(OM)	See below
12	62-528.415(1)(f)	Maximum Flow within limits	☐	☒	☐	(WI)	
13	62-528.415(1)(a)-(c)	Maximum Pressure within limits	☒	☐	☐	(IP)	
14	62-528.425(1)(b)	Annulus Tank level is readable	☒	☐	☐	(OM)	
15	62-528.307(1)(f) & (m)	Per the MOR, what is the Normal Annular Pressure Range	N/A				
16	62-528.307(1)(f) & (m)	Annular Pressure within Normal Range (tubing and packer) note PSI	☒	☐	☐	(OM)	
17	62-528.307(1)(f) & (m)	Annular Pressure greater than Injection Pressure (tubing and packer) Note PSI	☒	☐	☐	(OM)	
18	62-528.307(1)(f) & (m)	Pressure Gauge Calibrated	☐	☐	☒	(OM)	See below
19	62-528.307(1)(f) & (m)	Flow meters Calibrated	☐	☒	☐	(OM)	
20	62-528.307(1)(f) & (m)	Chart recorders Calibrated	☒	☐	☐	(OM)	
21	62-528.307(1)(f) & (m)	Latest Calibration ------Dates:	5/28/2025				

Well Compliance Status:

☐	In-Compliance	☐	Out-Of-Compliance	☒	Significant Out of Compliance

Notes: Scale buildup on piping indicates it is leaking.
The ARV and wellhead exhibit minor rust accumulation.
No calibration certificate for the pressure gauge and transducer were available for inspection.

Monitor Well #: MW-1				Associated with Injection Well: IW-1	
UPPER ZONE		LOWER ZONE		Single Zone	
1	Rule: 62-528.425(1)(g)5	2	Rule: 62-528.425(1)(g)5	3	Rule: 62-528.425(1)(g)5
Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level
N/A	N/A	N/A	N/A	N/A	-0.122 ft

	Rule	Monitor Well Requirements	N/A	Yes	No	COMET CODE	Notes
4	62-528.307(f)	Monitor well labeled by well number	☐	☒	☐	(OM)	
5	62-528.307(f)	Sample Ports labeled	☒	☐	☐	(OM)	
6	62-528.425(1)(g)1 62-528.307(f)	Wellhead pressure / Water Level gauges functioning	☐	☒	☐	(OM)	
7	62-528.425(1)(g)1 62-528.307(f)	Wellhead gauges agree with electronic equipment (SCADA)	☒	☐	☐	(MR)	
8	62-528.425(1)(g)1 62-528.307(f)	Transducer in working order	☐	☒	☐	(OM)	
9	62-528.307(1)(f)	Monitor wellhead free from leaks	☐	☒	☐	(OM)	
10	62-528.307(1)(f)	Monitor well / Surface equipment free of rust and corrosion If corroded, note degree (Mild, Moderate, Severe)	☐	☒	☐	(OM)	
11	62-600.540(4)(f)	Pad maintained, not used for storage	☐	☒	☐	(OM)	
12	62-528.307(1)(f)	Sumps are maintained	☒	☐	☐	(OM)	
13	62-528.307(1)(f) & (m)	Pressure Gauge Calibrated	☒	☐	☐	(OM)	
14	62-528.307(1)(f) & (m)	Chart recorders Calibrated	☒	☐	☐	(OM)	
15	62-528.307(1)(f) & (m)	Transducers Calibrated	☐	☐	☒	(OM)	See below
16	62-528.307(1)(f) & (m)	Latest Calibration --------- Dates:	None provided				
17		Monitoring well purge waters flow to:	Container for disposal				
18		Monitoring well purge technique:	External pump				
19		Monitoring well volume purged / time needed:	10.92 gal/14 min = 0.76 gpm				

Well Compliance Status:					
☐	In-Compliance	☐	Out-Of-Compliance	☒	Significant Out of Compliance

Notes: No calibration certificate for the transducer was available for inspection.

Monitor Well #: MW-2				Associated with Injection Well: IW-1	
UPPER ZONE		LOWER ZONE		Single Zone	
1	Rule: 62-528.425(1)(g)5	2	Rule: 62-528.425(1)(g)5	3	Rule: 62-528.425(1)(g)5
Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level
N/A	N/A	N/A	N/A	N/A	ft

	Rule	Monitor Well Requirements	N/A	Yes	No	COMET CODE	Notes
4	62-528.307(f)	Monitor well labeled by well number	☐	☒	☐	(OM)	
5	62-528.307(f)	Sample Ports labeled	☒	☐	☐	(OM)	
6	62-528.425(1)(g)1 62-528.307(f)	Wellhead pressure / Water Level gauges functioning	☒	☐	☐	(OM)	
7	62-528.425(1)(g)1 62-528.307(f)	Wellhead gauges agree with electronic equipment (SCADA)	☒	☐	☐	(MR)	
8	62-528.425(1)(g)1 62-528.307(f)	Transducer in working order	☐	☒	☐	(OM)	
9	62-528.307(1)(f)	Monitor wellhead free from leaks	☐	☒	☐	(OM)	
10	62-528.307(1)(f)	Monitor well / Surface equipment free of rust and corrosion If corroded, note degree (Mild, Moderate, Severe)	☐	☒	☐	(OM)	
11	62-600.540(4)(f)	Pad maintained, not used for storage	☐	☒	☐	(OM)	
12	62-528.307(1)(f)	Sumps are maintained	☒	☐	☐	(OM)	
13	62-528.307(1)(f) & (m)	Pressure Gauge Calibrated	☒	☐	☐	(OM)	
14	62-528.307(1)(f) & (m)	Chart recorders Calibrated	☒	☐	☐	(OM)	
15	62-528.307(1)(f) & (m)	Transducers Calibrated	☐	☐	☒	(OM)	See below
16	62-528.307(1)(f) & (m)	Latest Calibration --------- Dates:	None provided				
17		Monitoring well purge waters flow to:	Container for disposal				
18		Monitoring well purge technique:	External pump				
19		Monitoring well volume purged / time needed:	6.84 gal/14 min = 0.49 gpm				

Well Compliance Status:

☐	In-Compliance	☐	Out-Of-Compliance	☒	Significant Out of Compliance

Notes: No calibration certificate for the transducer was available for inspection.
[This well is also permitted as the intermediate monitoring well for the (FLA014494) domestic wastewater facility's GWMP (perc pond).]

Facility/Well Compliance Status:

☐	In-Compliance	☐	Out-Of-Compliance	☒	Significant Out of Compliance

Comments/Rule or Permit Violations/ Recommended Actions:

The facility is operating without a current permit, which expired on July 16, 2025. [Rule 62-528.307)(3)(a),F.A.C]

- **Please submit to the Department's Aquifer Protection Program a complete application and sufficient application fee to renew the Utility's operating permit.**

At the time of inspection, scale buildup on IW-1 piping indicated the piping is leaking. The IW-1 ARV and wellhead exhibit minor rust accumulation. [Rule 62-528.307(1)(f), F.A.C.]

- **Please provide documentation showing the IW-1 leak has been repaired and the wellhead and ARV rust has been remediated.**

No calibration certificates for the MW-1 and MW-2 transducers and IW-1 pressure gauge and transducer were available for inspection. [Rule 62-528.307(1)(f) & (m), F.A.C.]

- **Please provide documentation showing the MW-1 and MW-2 transducers and IW-1 pressure gauge and transducer have been calibrated.**

A review of the facility's Monthly Operation Reports (MOR) found the following deficiencies:

1. February 2024 MW-1 and MW-2 semi-annual water quality sampling was conducted but data were missing from the MOR tables. [Rule 62-528.307(1)(m)3.f., F.A.C.]
2. July 2024 IW-1 quarterly sampling and MW-1, MW-2 semi-annual sampling are missing from the MOR tables. [Rule 62-528.307(1)(m)3.f., F.A.C.]
3. March 2025 IW-1 and MW physical data contain the wrong dates. [Rule 62-528.307(1)(m)3.f., F.A.C.]
4. December 2024 IW-1 sampling was omitted. [Rule 62-528.307(1)(m)3.a., F.A.C]

- **Please correct the MOR deficiencies and submit the revised reports to the Department.**

Robert B. Reid 08/22/2025	Alex McSurley 8/26/2025
FDEP Inspector - Date	Inspector's Manager - Date

Useppa Island RO WTP, WACS ID: 98998

Robert Reid

IW-1

IW-1 pressure and scale buildup from leaking

Rust on IW-1 wellhead

IW-1 sample port and rust on ARV

MW-1

MW-2

Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

DEP Form No: 62-528.900(1)
Form Title: Application to Construct/Operate/Abandon Class I, III, or V Injection Well Systems
Effective Date: .
DEP Application No,: .
WACS# (Filled in by DEP)

APPLICATION TO CONSTRUCT/OPERATE/ABANDON CLASS I, III, OR V INJECTION WELL SYSTEMS

Part I. Directions

A. All applicable items must be completed in full in order to avoid delay in processing this application. Where attached sheets or other technical documentation are utilized in lieu of the blank space provided, indicate appropriate cross-reference in the space and provide copies to the Department in accordance with C. below. Where certain items do not appear applicable to the project, indicate N/A in the appropriate spaces.

B. All information is to be typed or printed in ink.

C. Two (2) copies of this application and two (2) copies of supporting information such as plans, reports, drawings and other documents shall be submitted to the appropriate Department office if submitted as a paper document, or one (1) copy of the application and one (1) copy of the plans, reports, drawings and other documents if the submittal is in an electronic format. An engineering report is also required to be submitted to support this application pursuant to the applicable sections of Rule 62-528, F.A.C. The attached list* shall be used to determine completeness of supporting data submitted or previously received. A check for the application fee in accordance with Rule 62-4.050, F.A.C., made payable to the Department shall accompany the application.

D. For projects involving construction, this application is to be accompanied by two (2) sets or one (1) set, in accordance with C. above, of engineering drawings, specifications and design data as prepared by a Professional Engineer registered in Florida, where required by Chapter 471, Florida Statutes.

E. Attach 8 1/2" x 11" site location map indicating township, range and section and latitude/longitude for the project.

PART II. General Information

A. Applicant Name Donald Beckstead Title President

Address P.O. Box 640

City Bokeelia State FL Zip 33922

Telephone Number 239 283-1061 Email dbeckstead@useppa.com

B. Project Status: ☐ New ☑ Existing

☐ Modification (specify) _____

*"Engineering and Hydrogeologic Data Required for Support of Application to Construct, Operate and Abandon Class I, III, or V Injection Wells"

C. Well Type: ☐ Exploratory Well ☑ Test/Injection Well

RECEIVED
AUG 25 2025
DIVISION OF WATER RESOURCE MANAGEMENT

Attachment 4-2
Communication Date 08/13/25

DEP Form No: 62-528.900(1)
Form Title: Application to Construct/Operate/Abandon Class I, III, or V Injection Well Systems
Effective Date: .
DEP Application No,: .
WACS# (Filled in by DEP)

D. Type of Permit Application

- ☐ Class I Test/Injection Well Construction and Testing Permit
- ☐ Class I Well Operation Permit
- ☐ Class I Well Operation Repermitting
- ☐ Class I Well Plugging and Abandonment Permit
- ☐ Class III Well Construction/Operation/Plugging and Abandonment Permit
- ☐ Class V Exploratory Well Construction and testing Permit
- ☐ Class V Well Construction Permit
- ☑ Class V Well Operation Permit
- ☐ Class V Well Plugging and Abandonment Permit
- ☐ Monitor Well Only

E. Facility Identification:

Name Useppa Island RO Water Treatment Plant Injection Well

Facility Location: Street NA

City Useppa Island County Lee

SIC Code(s)

F. Proposed facility located on Indian Lands: Yes ☐ No ☐

G. Well Identification:

Well No. 1 of 1 Wells **Multiple wells may be noted*
(total #)

Purpose (Proposed Use) Dispose of RO concentrate

Well Location: Latitude: 29 ° 39 ' 40 " Longitude: 82 ° 12 ' 51
(attach separate sheet(s), if necessary, for multiple wells)

Subpart B. General Project Description:

H. General Project Description: Describe the nature, extent and schedule of the injection well project. Refer to existing and/or future pollution control facilities, expected improvement in performance of the facilities and state whether the project will result in full compliance with the requirements of Chapter 403, F.S., and all rules of the Department. Attach additional sheet(s) if necessary or cross-reference the engineering report.

Renewal of existing operating permit.

DEP Form No: 62-528.900(1)
Form Title: Application to Construct/ Operate/Abandon Class I, III, or V Injection Well Systems
Effective Date: .
DEP Application No.: .
WACS# (Filled in by DEP)

PART III. Statement by Applicant and Engineer

A. Applicant

I, the owner/authorized representative* of Useppa Island Club certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I understand that this certification also applies to all subsequent reports submitted pursuant to this permit. Where construction is involved, I agree to retain the design engineer, or other professional engineer registered in Florida, to provide inspection of construction in accordance with Rule 62-528.455(1)(c), F.A.C.

Signed

8/13/25
Date

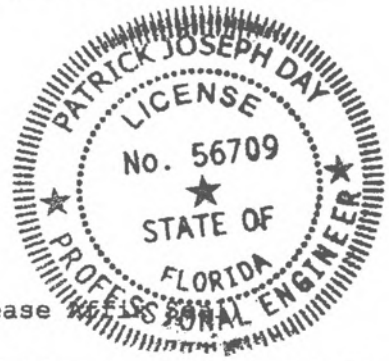
Donald
~~David~~ Beckstead
Name and Title (Please Type)

239 283-1061
Telephone Number

*Attach a Letter of Authorization.

B. Professional Engineer Registered in Florida

This is to certify that the engineering features of this injection well have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the well, when properly maintained and operated, will discharge the effluent in compliance with all applicable statutes of the State of Florida and the rules of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for proper maintenance and operation of the well or ensure they have been furnished.



(Please Affix Seal)

Signed

Patrick Day
Name (Please Type)

DRMP, Inc
Company Name (Please Type)

1715 Monroe Street, 5th Floor, Ft. Myers, FL 33901
Mailing Address (Please Type)

Florida Registration No. 56709 Date 8/13/25 Phone No. 239 357-71

Email of P.E.: pday@drmp.com

DEP Form No: 62-528.900(1)
Form Title: Application to Construct/ Operate/Abandon Class I, III, or V Injection Well Systems
Effective Date: .
DEP Application No,: .
WACS# (Filled in by DEP)

ENGINEERING AND HYDROLOGIC DATA REQUIRED FOR SUPPORT OF APPLICATION TO CONSTRUCT, OPERATE, AND ABANDON CLASS I, III, OR V INJECTION WELL SYSTEMS

The following information shall be provided for each type of permit application.

A. CLASS I TEST/INJECTION WELL CONSTRUCTION AND TESTING PERMIT

1. A map showing the location of the proposed injection wells of well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.

2. A tabulation of data on all wells within the area of review which penetrate into the proposed injection zone, confining zone, or proposed monitoring zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the Department may require.

3. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the proposed injection.

4. Maps and cross sections detailing the hydrology and geologic structures of the local area.

5. Generalized maps and cross sections illustrating the regional geologic setting.

6. Proposed operating data.

   (a) Average and maximum daily rate and volume of the fluid to be injected;

   (b) Average and maximum injection pressure; and,

   (c) Source and an analysis of the chemical, physical, radiological and biological characteristics of injection fluids.

7. Proposed formation testing program to obtain an analysis of the chemical, physical and radiological characteristics of and other information on the injection zone.

8. Proposed stimulation program.

9. Proposed injection procedure.

10. Engineering drawings of the surface and subsurface construction details of the system.

11. Contingency plans to cope with all shut-ins or well failures, so as to protect the quality of the waters of the State as defined in Rule 62-3 and 62-520, F.A.C., including alternate or emergency discharge provisions.

12. Plans (including maps) and proposed monitoring data to be reported for meeting the monitoring requirements in Rule 62-528.425, F.A.C.

13. For wells within the area of review which penetrate the injection zone but are not properly completed or plugged, the corrective action proposed to be taken under Rule 62-528.300(5), F.A.C.

14. Construction procedures including a cementing and casing program, logging procedures, deviation checks, proposed methods for isolating drilling fluids from surficial aquifers, proposed blowout protection (if necessary), and a drilling, testing and coring program.

15. A certification that the applicant has ensured, through a performance bond or other appropriate means, the resources necessary to close, plug or abandon the well as required by Rule 62-528.435(9), F.A.C.

B. CLASS I INJECTION WELL OPERATION PERMIT

1. A report shall be submitted with each application for a Class I Well operating permit, which shall include, but not be limited to, the following information:

   (a) Results of the information obtained under the construction permit described in A. CLASS I TEST/INJECTION WELL CONSTRUCTION AND TESTING PERMIT, including:

      (1) All available logging and testing program data and construction data on the well or well field;

      (2) A satisfactory demonstration of mechanical integrity for all new wells pursuant to Rule 62-528.300(6), F.A.C;

      (3) The actual operating data, including injection pressures versus pumping rates where feasible, or the anticipated maximum pressure and flow rate at which the permittee will operate, if approved by the Department;

      (4) The actual injection procedure;

      (5) The compatibility of injected waste with fluids in the injection zone and minerals in both the injection zone and the confining zone; and,

      (6) The status of corrective action on defective wells in the area of review.

   (b) Record drawings, based upon inspections by the engineer or persons under his direct supervision, with all deviations noted;

   (c) Certification of completion submitted by the engineer of record;

   (d) If requested by the Department, operation manual including emergency procedures;

   (e) Proposed monitoring program and data to be submitted;

(f) Proof that the existence of the well has been recorded on the surveyor's plan at the county courthouse; and,

(g) Proposed plugging and abandonment plan pursuant to Rule 62-528.435(2), F.A.C.

C. CLASS I WELL OPERATION REPERMITTING

1. An updated map showing the location of the injection wells or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of pubic record and pertinent information known to the applicant is required to be included on this map.

2. A tabulation of data on all wells within the area of review which penetrate into the injection zone, confining zone, or monitoring zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the Department may require.

3. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the injection.

4. Maps and cross sections detailing the hydrology and geologic structures of the local area.

5. Generalized maps and cross sections illustrating the regional geologic setting.

6. Contingency plans to cope with all shut-ins or well failures, so as to protect the quality of the waters of the State as defined in Rule 62-3 and 62-520, F.A.C., including alternate or emergency discharge provisions.

7. For wells within the area of review which penetrate the injection zone but are not properly completed or plugged, the corrective action proposed to be taken under Rule 62-528.300(5), F.A.C.

8. A certification that the applicant has ensured, through a performance bond or other appropriate means, the resources necessary to close, plug or abandon the well as required by Rule 62-528.435(9), F.A.C.

9. A report shall be submitted with each application for repermitting of Class I Well operation which shall include the following information:

   (a) All available logging and testing program data and construction data on the well or well field;

(b) A satisfactory demonstration of mechanical integrity for all wells pursuant to Rule 62-528.300(6), F.A.C.;

(c) The actual operating data, including injection pressures versus pumping rates where feasible, or the anticipated maximum pressure and flow rate at which the permittee will operate, if approved by the Department;

(d) The actual injection procedure;

(e) The compatibility of injected waste with fluids in the injection zone and minerals in both the injection zone and the confining zone;

(f) The status of corrective actin on defective wells in the area of review;

(g) Record drawings, based upon inspections by the engineer or persons under his direct supervision, with all deviations noted;

(h) Certification of completion submitted by the engineer of record;

(i) An updated operation manual including emergency procedures;

(j) Proposed revisions to the monitoring program or data to be submitted; and,

(k) Proposed plugging and abandonment plan pursuant to Rule 62-528.435(2), F.A.C.

D. CLASS I WELL PLUGGING AND ABANDONMENT PERMIT

1. The reasons for abandonment.

2. A proposed plan for plugging and abandonment describing the preferred and alternate methods, and justification for use.

   (a) The type and number of plugs to be used;

   (b) The placement of each plug including the elevation of the top and bottom;

   (c) The type and grade and quantity of cement or any other approved plugging material to be used; and,

   (d) The method for placement of the plugs.

3. The procedure to be used to meet the requirements of Rule 62-528.435, F.A.C.

E. CLASS III WELLS CONSTRUCTION/OPERATION/PLUGGING AND ABANDONMENT PERMIT

Construction Phase

1. A map showing the location of the proposed injection wells or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water system, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.

2. A tabulation of data on all wells within the area of review which penetrate into the proposed injection zone, confining zone, or proposed monitoring zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the Department may require.

3. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the proposed injection.

4. Maps and cross sections detailing the hydrology and geologic structures of the local area.

5. Generalized maps and cross sections illustrating the regional geologic setting.

6. Proposed operating data:

   (a) Average and maximum daily rate and volume of the fluid to be injected;

   (b) Average and maximum injection pressure; and,

   (c) Source and an analysis of the chemical, physical, radiological and biological characteristics of injection fluids, including any additives.

7. Proposed formation testing program to obtain an analysis of the chemical, physical and radiological characteristics of and other information on the injection zone.

8. Proposed stimulation program.

9. Proposed injection procedure.

10. Engineering drawings of the surface and subsurface construction details of the system.

11. Contingency plans to cope with all shut-ins or well failures or catastrophic collapse, so as to protect the quality of the waters of the State as defined in Rule 62-3 and 62-520, F.A.C., including alternate or emergency discharge provisions.

12. Plans (including maps) and proposed monitoring data to be reported for meeting the monitoring requirements in Rule 62-528.425, F.A.C.

13. For wells within the area of review which penetrate the injection zone but are not properly completed or plugged, the corrective action proposed to be taken under Rule 62-528.300(5), F.A.C.

14. Construction procedures including a cementing and casing program, logging procedures, deviation checks, proposed methods for isolating drilling fluids from surficial aquifers, and a drilling, testing and coring program.

15. A certificate that the applicant has ensured, through a performance bond or other appropriate means, the resources necessary to close, plug or abandon the well as required by Rule 62-528.435(9), F.A.C.

16. Expected changes in pressure, native fluid displacement, direction of movement of injection fluid.

17. A proposed monitoring plan, which includes a plan for detecting migration of fluids into underground sources of drinking water, a plan to detect water quality violation in the monitoring wells, and the proposed monitoring data to be submitted.

Operation Phase

1. The following information shall be provided to the Department prior to granting approval for the operation of the well or well field:

   (a) All available logging and testing program data and construction data on the well or well field;

   (b) A satisfactory demonstration of mechanical integrity for all new wells pursuant to Rule 62-528.300(6), F.A.C.;

   (c) The actual operating data, including injection pressure versus pumping rate where feasible, or the anticipated maximum pressure and flow rate at which the permittee will operate, if approved by the Department;

   (d) The results of the formation testing program;

   (e) The actual injection procedure; and,

   (f) The status of corrective action on defective wells in the area of review.

Plugging and abandonment Phase

1. The justification for abandonment.

2. A proposed plan for plugging and abandonment describing the preferred and alternate methods.

   (a) The type and number of plugs to be used;

   (b) The placement of each plug including the elevation of the top and bottom;

   (c) The type and grade and quantity of cement or any other approved plugging material to be used; and,

   (d) The method for placement of the plugs.

3. The procedure to be used to meet the requirements of Rule 62-528.435, F.A.C.

F. EXPLORATORY WELL CONSTRUCTION AND TESTING PERMIT

1. Conceptual plan of the injection project. Include number of injection wells, proposed injection zone, nature and volume of injection fluid, and proposed monitoring program.

2. Preliminary Area of Review Study. Include the proposed radius of the area of review with justification for that radius. Provide a map showing the location of the proposed injection well or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.

3. Proposed other uses of the exploratory well.

4. Drilling and testing plan for the exploratory well. The drilling plan must specify the proposed drilling program, sampling, coring, and testing procedures.

5. Abandonment Plan.

G. CLASS V WELL CONSTRUCTION PERMIT

(This form should be used for Class V Wells instead of Form 62-528.900(3), F.A.C., when there is a need for a Technical Advisory Committee and an engineering report.)

1. Type and number of proposed Class V Wells:

_____ Wells Receiving Domestic Waste

_____ Desalination Process Concentrate Wells (Reverse Osmosis, etc.)

_____ Aquifer Storage and Recovery Wells

_____ Aquifer Remediation Wells

_____ Salt-water Intrusion Barrier Wells

_____ Cooling Water Return Flow Wells Open-looped System

_____ Subsidence Control Wells

_____ Aquifer Recharge Wells

_____ Experimental Technology Wells

_____ Wells used to inject spent brine after halogen recovery

_____ Radioactive Waste Disposal Wells*

_____ Borehole Slurry Mining Wells

_____ Other non-hazardous Industrial or Commercial Disposal Wells

(explain) _____

_____ Other (explain) _____

*Provided the concentrations of the waste do not exceed drinking water standards contained in Chapter 62-550, F.A.C.

2. Project Description:

(a) Description and use of proposed injection system;

(b) Nature and volume of injected fluid (the Department may require an analysis including bacteriological analysis) in accordance with Rule 62-528.635(2)(b), F.A.C.; and,

(c) Proposed pretreatment.

3. Water well contractor's name, title, state license number, address, phone number and signature.

4. Well Design and Construction Details. (For multi-casing configurations or unusual construction provisions, an elevation drawing of the proposed well should be attached.)

   (a) Proposed total depth;

   (b) Proposed depth and type of casing(s);

   (c) Diameter of well;

   (d) Cement type, depth, thickness; and,

   (e) Injection pumps (if applicable): _____ gpm @ _____

   Controls: _____

   _____

   _____

5. Water Supply Wells - When required by Rule 62-528.635(1), F.A.C., attach a map section showing the locations of all water supply wells within a one-half (1/2) mile radius of the proposed well. The well depths and casing depths should be included. When required by Rule 62-528.635(2), F.A.C., results of bacteriological examinations of water from all water supply wells within one-half (1/2) mile and drilled to approximate depth of proposed well should be attached.

6. Area of review (When required by Rule 62-528.300(4), F.A.C.)

   Include the proposed radius of the area of review with justification for that radius. Provide a map showing the location of the proposed injection well or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.

H. CLASS V WELL OPERATION PERMIT

(Final report of the construction that includes the following information may be submitted with the application to operate.)

1. Permit Number of Class V Construction Permit: _____

2. Owner's Name: _____

3. Type of Wells: _____

4. Construction and Testing Summary:

(a) Actual Dimensions:

Diameter (inches)	Well Depth (feet)	Casing Depth (feet

(b) Result of Initial Testing

5. Proposed Operating Data:

(a) Injection Rate (GPM);

(b) Description of injected waste; and,

(c) Injection pressure and pump controls.

6. Proposed Monitoring Plan (if any):

(a) Number of monitoring wells;

(b) Depth(s);

(c) Parameters;

(d) Frequency of sampling; and,

(e) Instrumentation (if applicable) Flow _____

Pressure _____

I. CLASS V WELLS PLUGGING AND ABANDONMENT PERMIT

1. Permit number of Class V construction or operating permit.

2. Type of well.

3. Proposed plugging procedures, plans and specifications.

4. Reasons for abandonment.

J. MONITOR WELL PERMIT

This section should be used only when application is made for a monitor well only. If a monitor well is to be constructed under a Class I, III, or V injection well permit, it is not necessary to fill in this section.

1. A site map showing the location of the proposed monitor wells for which a permit is sought. The map must be to scale and show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, water wells and other pertinent surface features including structures and roads.

2. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the proposed injection.

3. Maps and cross sections detailing the hydrology and geologic structures of the local area.

4. Generalized maps and cross sections illustrating the regional geologic setting.

5. Proposed formation testing program to obtain an anlysis of the chemical, physical and radiological characteristics of and other information on the monitor zone(s).

6. Proposed monitoring procedure.

7. Engineering drawings of the surface and subsurface construction details of the monitoring system.

8. Proposed monitoring data to be reported for meeting the monitoring requirements in Rule 62-528.425, F.A.C.

9. Construction procedures including a cementing and casing program, logging procedures, deviation checks, proposed methods for isolating drilling fluids from surficial aquifers, proposed blowout protection (if necessary), and a drilling, testing and coring program

10. Monitor Well Information:

☐ On-site ☐ Multizone ☐ Single-zone

☐ Regional ☐ Other (specify) _____

Proposed Monitoring Interval(s) _____

Distance and Direction From Associated Injection Well

_____

OPERATING PERMIT APPLICATION RENEWAL WITH SUPPORTING DOCUMENTATION
USEPPA ISLAND RO WATER TREATMENT PLANT
CLASS V INJECTION WELL SYSTEM
UIC PERMIT NUMBER: 045884-005-UO/5O
LEE COUNTY, FLORIDA
June 24, 2025

PREPARED FOR:
USEPPA UTILITY COMPANY

PREPARED BY:
GREG F. RAWL, P.G.

Registered Professional Certification

This supporting document for Useppa Island RO Water Treatment Plant Class V Injection Well System (UIC Permit number 045884-005-UO/5O) was prepared under the supervision of a Registered Professional Geologist.

The seal appearing on this document is authorized by:

Registered Professional:	Geologist
License:	PG 479
Date:	6/24/2025
Registered Professional Geologist:	Greg F. Rawl, P.G.

Registered Professional Signature:

Seal:

Greg F Rawl

Digitally signed by Greg F. Rawl
Date: 2025.06.24 13:04:15 -04'00'

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Appendix A. Copy of Existing Operating Permit Number 045884-005-UO/5O

1. INTRODUCTION AND BACKGROUND

The purpose of this application is to renew an operating permit for the Useppa Utility Company (UUC) reverse osmosis (RO) water treatment plant (WTP) Class V Group 4 injection well system. This application requests a five-year operating permit duration for the continued use of the injection well system. A completed Florida Department of Environmental Protection (FDEP) operating permit application form 62-528.900(1) has been submitted under separate cover.

The injection well system was last permitted on July 16, 2020 (Operating Permit Number 045884-005-UO/5O) and consists of one injection well (IW-1) and two shallow monitoring wells (MW-1 and MW-2). Please refer to Appendix A for a copy of the existing permit.

The injection well is used to dispose of RO concentrate from the UUC RO WTP. The UUC RO WTP is located on Useppa Island in western Lee County. Aerial photographs showing the general location of the system (Figures 1-1) and well locations (Figure 1-2) are provided. The injection well is located approximately 700 feet southwest of the RO WTP. The system is operated by U.S. Water Corporation under contract to UUC. The maximum allowable injection rate under the existing Operating Permit is 0.072 million gallons per day (MGD) or 50 gallons minute (GPM). The maximum allowable fluid velocity down the well during operation is 10 feet per second except during planned testing, maintenance, or emergency conditions in which case the flow rate shall not exceed 12 feet per second.

A construction permit for a Class V Group 9 exploratory injection well (45884-002-UC/5X) was issued by the FDEP in 2011. The exploratory well was constructed in 2012 and was later modified and re-permitted as a Class V injection well. The purpose of the modification of the injection well was to evaluate potential injection zones at the time of construction. The well was ultimately modified by grouting lower sections of the well. A construction and

operation testing permit for a Class V Group 4 injection well was obtained in 2013 (45884-003- UC/5O).

The injection well was constructed with a 10-inch diameter PVC Schedule 40 injection casing set to a depth of 50 feet below land surface (BLS). The 10-inch diameter open-hole section of the well extends from 50 to 60 feet BLS and is open to the Pliocene-age Tamiami Limestone formation which is comprised of relatively transmissive biomicritic limestone. A schematic diagram showing the original well depth and the modified as-built construction details of the injection well is provided as Figure 1-3 (Cardno Entrix, 2012).

Two monitoring wells for the injection well system were also installed at the site in 2012. The monitoring wells are completed within the shallower portions of the surficial aquifer from 5.0 to 15.0 feet BLS (MW-1) and 2.3 to 7.3 feet BLS (MW-2). A schematic diagram showing construction details for the monitoring wells is provided on Figure 1-4 (Cardno Entrix, 2015).

2. SUMMARY OF DATA COLLECTED OVER THE REVIEWED OPERATIONAL PERIOD

Monthly operating reports (MORs) have been prepared by U.S. Water Corporation personnel and submitted to the FDEP. Parameters monitored for the injection well system are those stipulated in Operating Permit Number 045884-005-UO/5O issued by the FDEP in 2020. The injection well monitored parameters include continuous monitoring of injection pressure (maximum, minimum, and average), flow rate (maximum), and total RO concentrate volume injected.

All of the data utilized for this report was obtained from MORs submitted to the FDEP and subsequently downloaded from Oculus. There are numerous discrepancies, contradictions and gaps in the data reporting.

A summary of daily injection hydraulic data and injected volumes by month for the injection well system is provided as Table 2-1. Daily average injection rate, daily average injection pressure, and daily injection volume over the reviewed operational period in graphical format is provided as Figure 2-1. The permitted maximum daily injection volume of (0.072 MGD) was not exceeded during the reviewed operational period. The maximum injection rate recorded during the operational period was 0.070 MGD, with a daily average of approximately 0.013 MGD. No injection pressure limitations are specified in the operating permit. The maximum injection pressure recorded during the reviewed operational period was 15.6 psi with an average of about 4.5 psi and a minimum of 0 psi.

In addition to operational data, water quality data for the injected concentrate from the Useppa Island RO WTP and the two monitoring wells has been collected monthly, quarterly, or semiannually, depending on the parameter as specified in the operating permit. A summary of the water quality data analyses for the injected RO concentrate is provided as Table 2-2. Water quality analyses data in graphical format for the injected RO concentrate is provided as Figure 2-2.

Water quality data for monitoring wells MW-1 and MW-2 are collected monthly or semiannually depending on the specific parameter, as specified in the FDEP operational permit. Water quality data for wells MW-1 and MW-2 are summarized on Tables 2-3 and 2-4, respectively. Water quality data for wells MW-1 and MW- 2 are provided in graphical format as Figures 2-3 and 2-4, respectively. The water quality data for the monitoring wells indicates no significant trend changes through the reviewed operational period. However, inconsistencies in reported data seemed to have occurred.

Water level elevations were measured and recorded in the monitoring wells in accordance with the operational permit. Water level data for wells MW-1 and MW- 2 are summarized in Table 2-5 and provided in graphical format as Figure 2-5. Inconsistencies were noted in reported water levels in both monitoring wells prior to November 2022, with significant anomalous values in MW-2. These inconsistencies and anomalies can potentially be attributed to reporting errors. Subsequent to November 2022 through the end of the reviewed operational period the reported water levels have been consistent, indicating that potential errors in reporting have occurred.

3. AREA OF REVIEW UPDATE

The Area of Review (AOR) encompasses a radial distance (r) of 5,285 feet from the Useppa Island Class V Injection Well as shown in Figure 3-1. The land surface elevation in the AOR ranges from approximately 0 to 27 feet above sea level. Surface water drainage within the AOR is typically to the water table aquifer, which flows and discharges to the nearest tidal shoreline.

The AOR radial distance (r) of 5,285 is based upon the following calculation to determine the maximum potential distance in which injected water may move from the injection well within the next ten years. The calculation assumes a worst-case scenario using the maximum permitted injection rate of 0.072 MGD each day over the ten-year period.

- Maximum injected volume = 262.8 MG (V)
- Porosity (Φ) = 20%
- Injection zone thickness = 10 ft (h)
- AOR radial distance (r) = $(V/(\pi \times h))^{1/2}/ \Phi$ = 5,285 ft

Existing Groundwater Users Within the AOR

An inventory of groundwater users within the Area of Review was conducted. Sources of data included South Florida Water Management District (SFWMD), Lee County Department of Natural Resources (LCDNR), United States Geological Survey (USGS), Florida Geological Survey (FGS), and the FDEP Oil and Gas Section database.

There is only one active water use permit issued by the SFWMD within the area of review, which is for the Useppa Island Utility public water supply (Permit Number 36-03239-W). The only existing wells on Useppa Island are the two production wells supplying the RO WTP and the three wells of the injection well system. The two production wells are completed in the Mid Hawthorn aquifer portion of the Arcadia formation from 280 to 320 feet BLS. One additional well located within the AOR was identified near the eastern extent of Cabbage Key.

This well is completed in the Sandstone Aquifer from 100 to 110 feet BLS. The locations of well identified within the AOR are shown on Figure 3-1. There are no known defective wells identified within the AOR. No known or suspected faults are present within the area of review.

4. ADDITIONAL OPERATING PERMIT APPLICATION INFORMATION

A. Compatibility of the Injected Fluid with Water in the Injection Zone

The injected fluid in the Useppa Island injection well is RO concentrate from the RO WTP. Reported TDS of approximately 21,000 mg/l and dissolved chlorides of about 9,900 mg/l are noted over the reviewed operational period. The background water quality in the injection zone has been previously noted as having a TDS of approximately 48,000 mg/l and dissolved chloride concentration of approximately 29,000 mg/l. Although the injectate stream is less saline than the background water, the two fluids are compatible and no adverse reactions are anticipated.

B. Depth of the Base of the USDW

The USDW, defined in applicable State of Florida and federal regulations as less than 10,000 milligrams per liter (mg/l) total dissolved solids (TDS), was not reported to be present above the injection zone (Cardno Entrix, 2012). A USDW was reported for the production interval in the Mid Hawthorn aquifer supplying the RO WTP. Significant confinement between that producing interval and the injection zone was reported in the exploratory well (Cardno Entrix, 2012).

C. Confining Beds

The unconsolidated surficial Holocene/Pleistocene strata that occurs in the upper 20+/- feet below land surface, contains primarily sand and shell. The low hydraulic conductivity strata that occur above the top of the injection zone functions as a semi-confining zone. It consists predominantly of relatively low permeability sandy silts, marl and clay from approximately 20 to 50 feet BLS. Confinement below the injection zone includes multiple clays units of the Peace River formation from 60 to 160 feet BLS. Refer to Figure 4-1 for a generalized hydrostratigraphic column for Useppa Island (Cardno Entrix, 2012).

D. Logging and Testing Program Data

Available logging and testing program data and construction data is contained in the report, previously submitted to the FDEP, entitled: Useppa Utility Company Completion Report for Class V Exploratory Well (Cardno Entrix, 2012).

E. Injection Procedure and Operation Manual

A description of the injection procedure was provided in the report, previously submitted to the FDEP, entitled: Operation and Maintenance Manual for Useppa Island RO Concentrate Disposal System (Cardno, 2015).

Figures

Figure 1-1. General Location of Useppa Utility Company Injection Well System

Figure 1-2. Locations of Injection System Wells and RO Water Treatment Plant

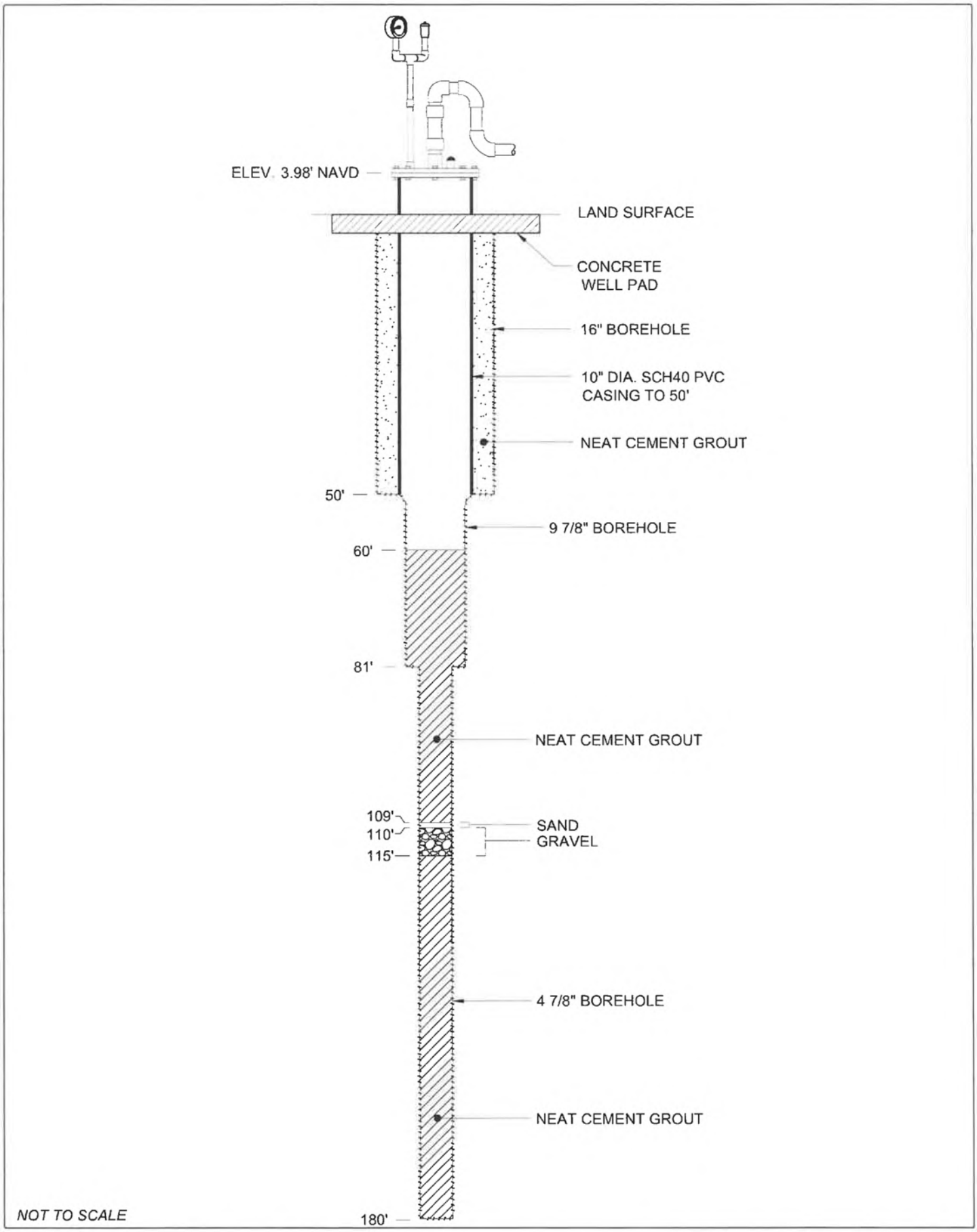


FIGURE 1-3. SCHEMATIC DIAGRAM SHOWING INJECTION WELL CONSTRUCTION DETAILS (CARDNO ENTRIX, 2012)

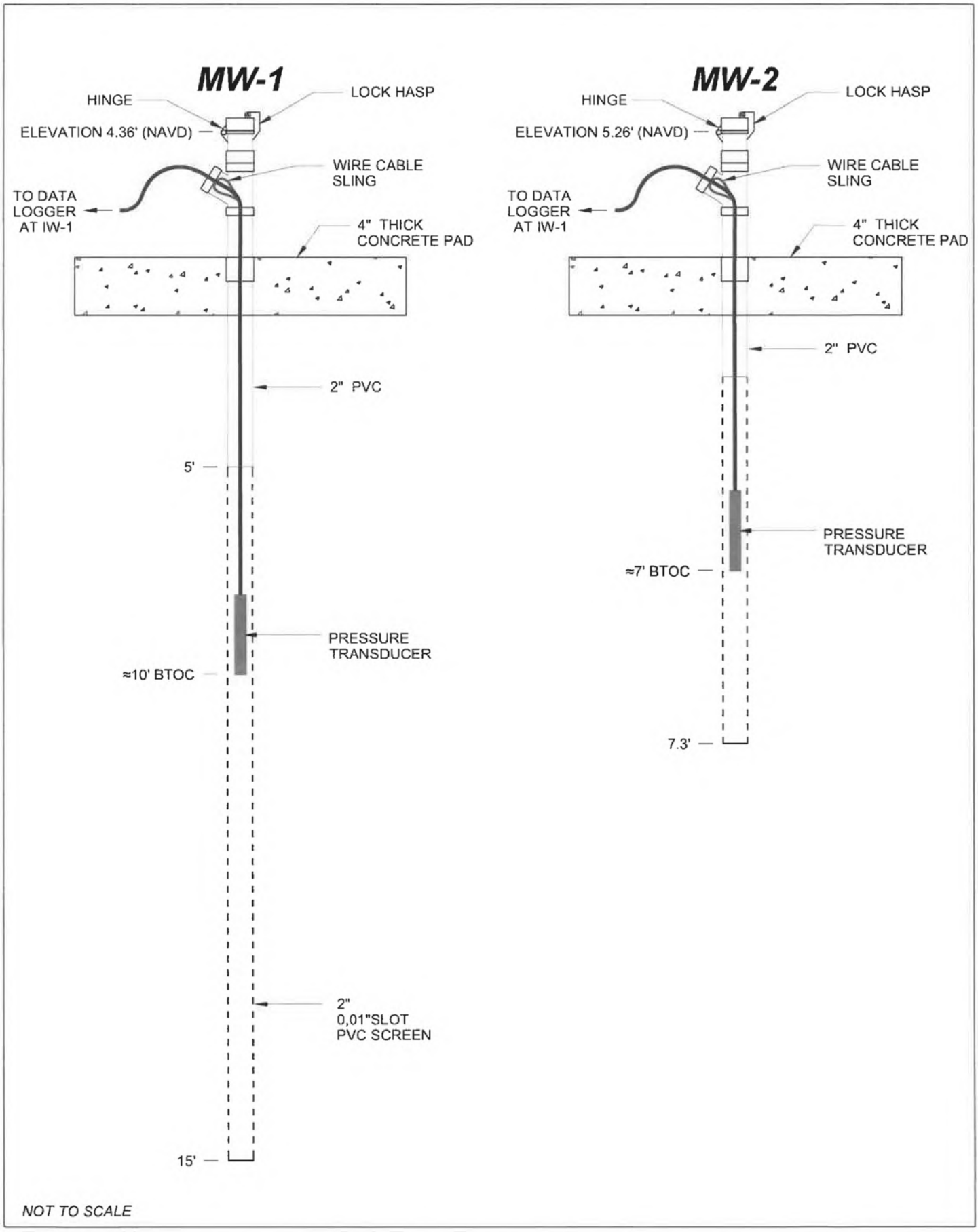
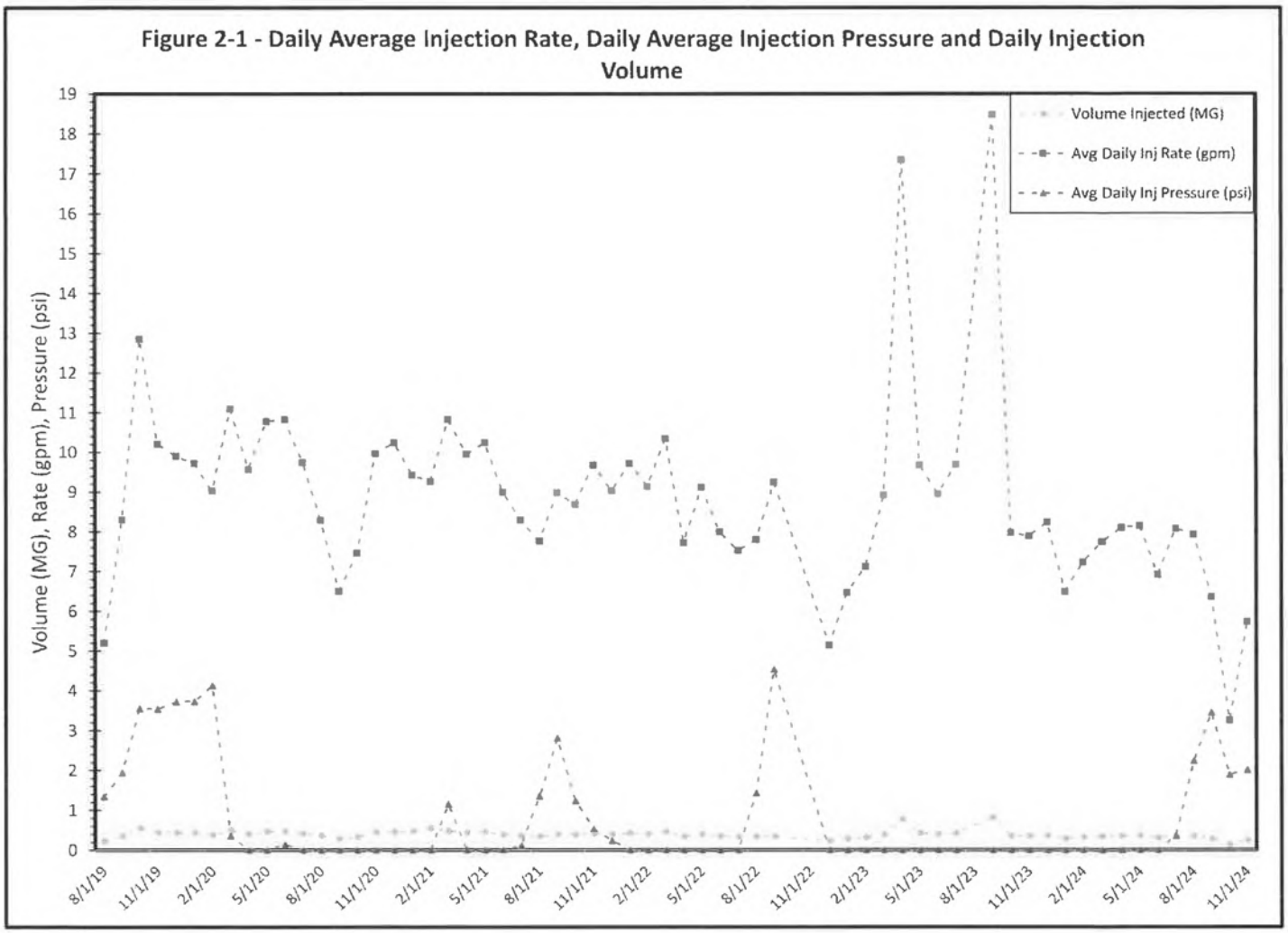


FIGURE 1-4. SCHEMATIC DIAGRAM SHOWING CONSTRUCTION DETAILS FOR MONITORING WELLS (CARDNO ENTRIX, 2015)

Figure 2-1 - Daily Average Injection Rate, Daily Average Injection Pressure and Daily Injection Volume



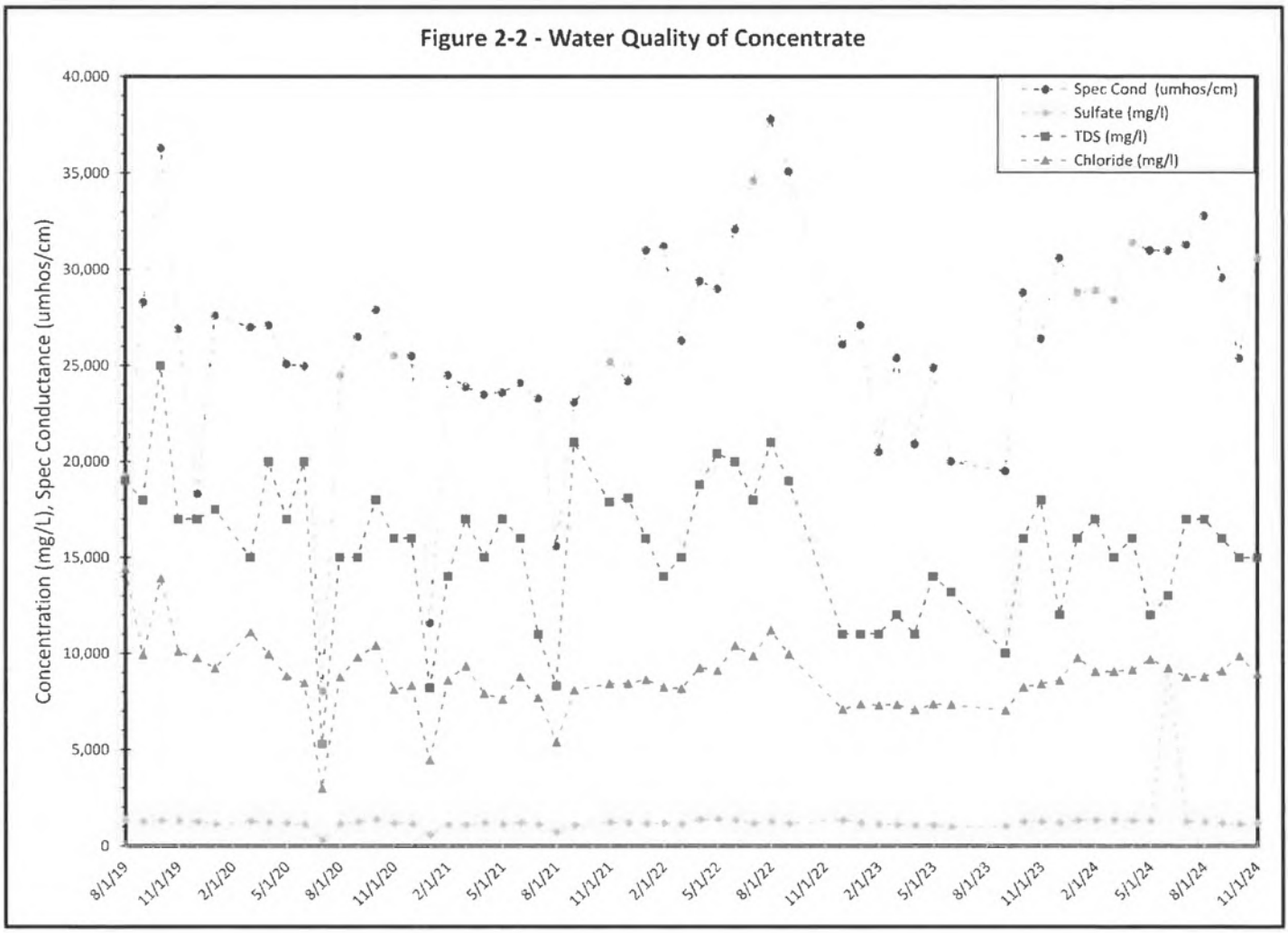


Figure 2-2 - Water Quality of Concentrate
Concentration (mg/L), Spec Conductance (umhos/cm)
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
8/1/19
11/1/19
2/1/20
5/1/20
8/1/20
11/1/20
2/1/21
5/1/21
8/1/21
11/1/21
2/1/22
5/1/22
8/1/22
11/1/22
2/1/23
5/1/23
8/1/23
11/1/23
2/1/24
5/1/24
8/1/24
11/1/24
Spec Cond (umhos/cm)
Sulfate (mg/l)
TDS (mg/l)
Chloride (mg/l)

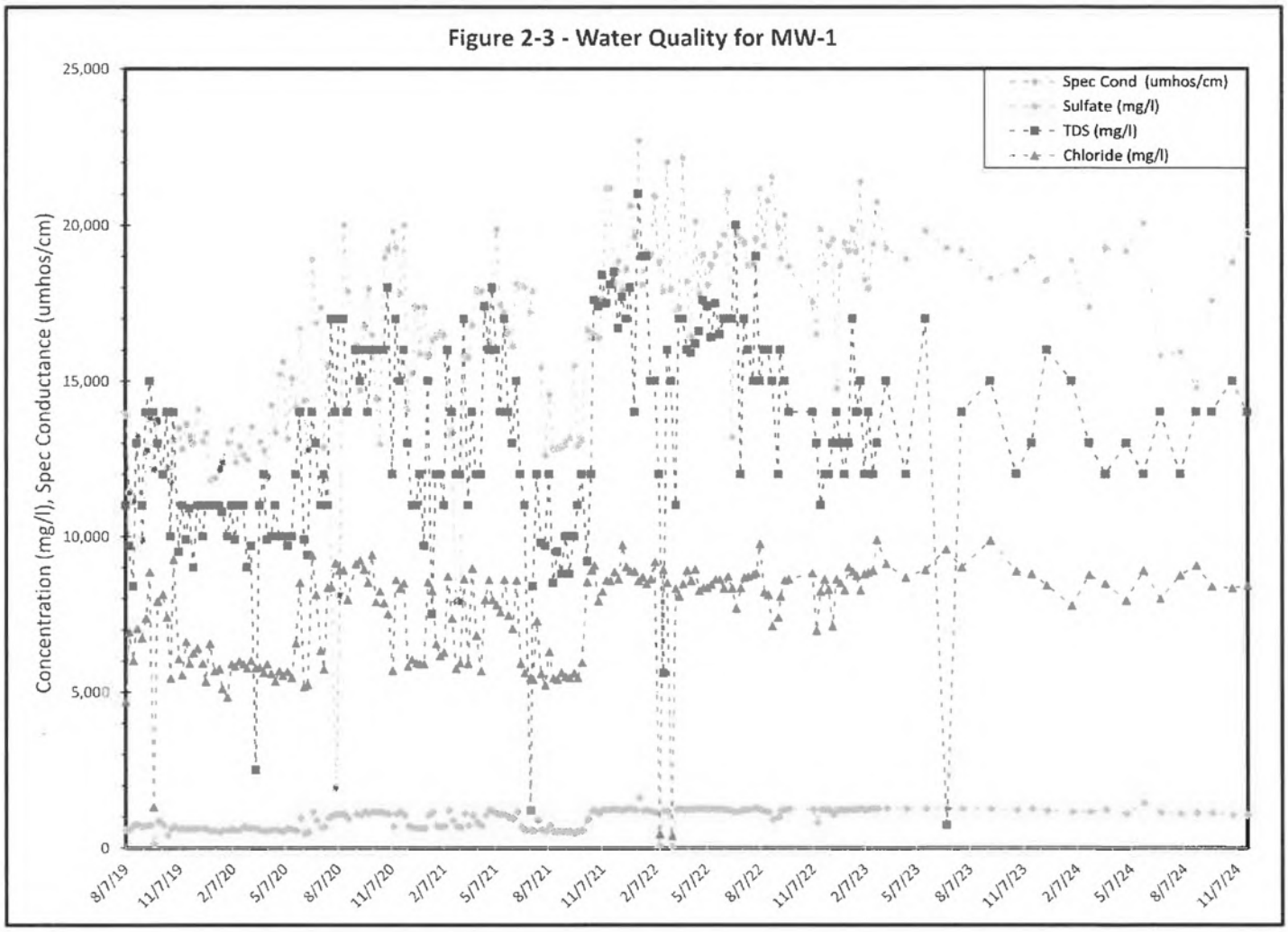


Figure 2-3 - Water Quality for MW-1
Spec Cond (umhos/cm)
Sulfate (mg/l)
TDS (mg/l)
Chloride (mg/l)
Concentration (mg/l), Spec Conductance (umhos/cm)
25,000
20,000
15,000
10,000
5,000
0
8/7/19
11/7/19
2/7/20
5/7/20
8/7/20
11/7/20
2/7/21
5/7/21
8/7/21
11/7/21
2/7/22
5/7/22
8/7/22
11/7/22
2/7/23
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2/7/24
5/7/24
8/7/24
11/7/24

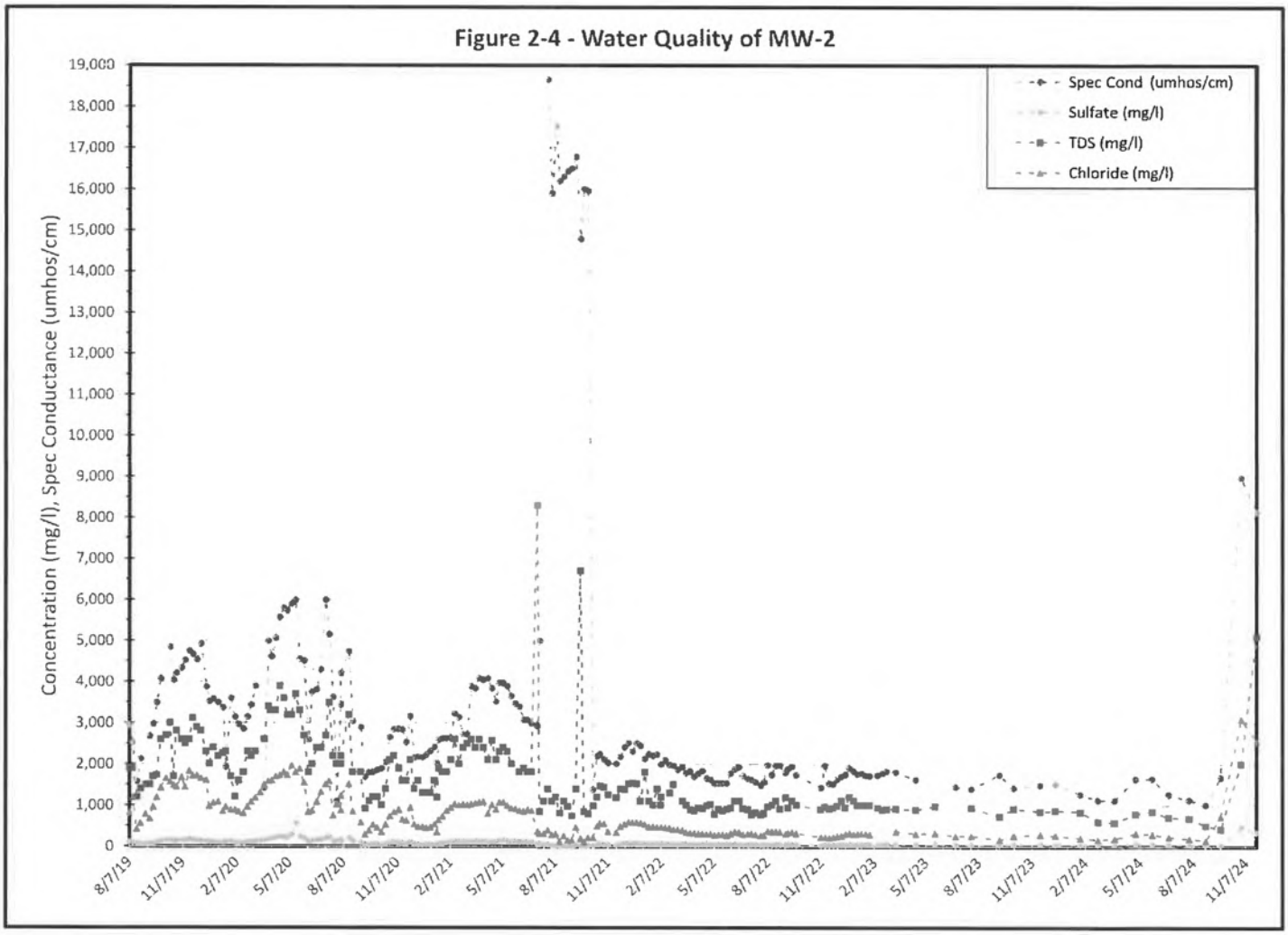
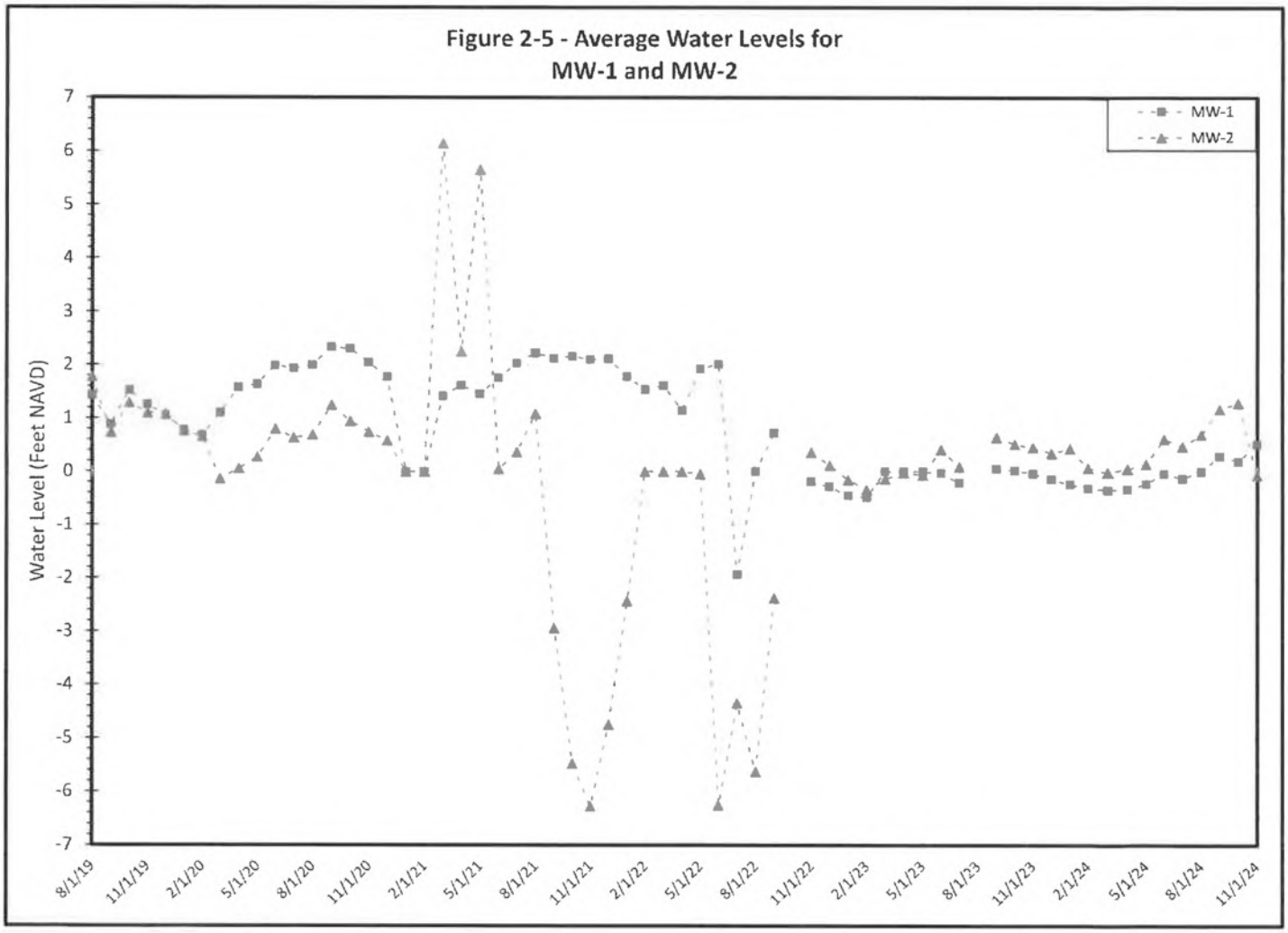


Figure 2-4 - Water Quality of MW-2
Concentration (mg/l), Spec Conductance (umhos/cm)
19,000
18,000
17,000
16,000
15,000
14,000
13,000
12,000
11,000
10,000
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
8/7/19
11/7/19
2/7/20
5/7/20
8/7/20
11/7/20
2/7/21
5/7/21
8/7/21
11/7/21
2/7/22
5/7/22
8/7/22
11/7/22
2/7/23
5/7/23
8/7/23
11/7/23
2/7/24
5/7/24
8/7/24
11/7/24
Spec Cond (umhos/cm)
Sulfate (mg/l)
TDS (mg/l)
Chloride (mg/l)

Figure 2-5 - Average Water Levels for MW-1 and MW-2



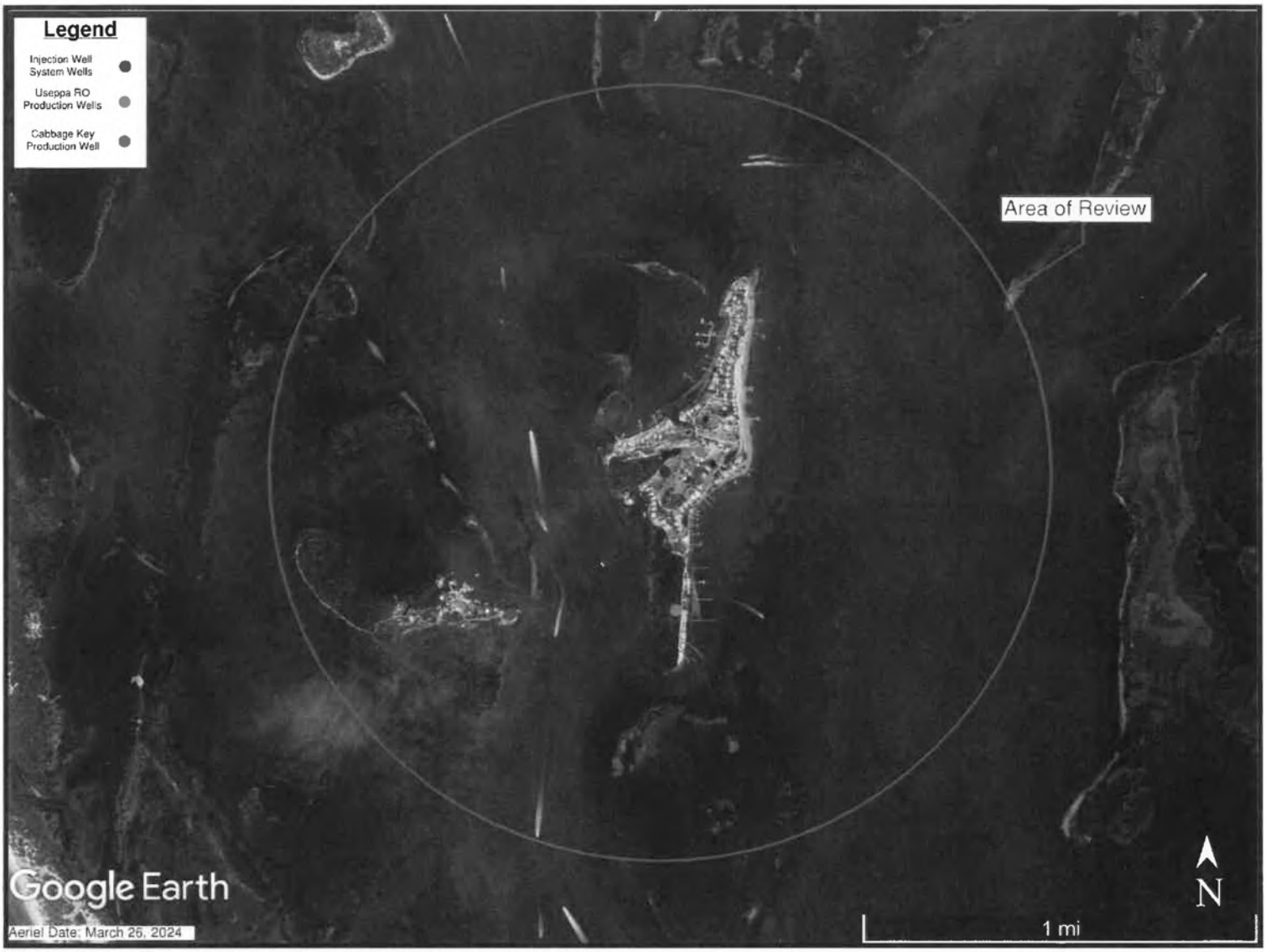


Figure 3-1. Locations of Wells Identified Within the Area of Review

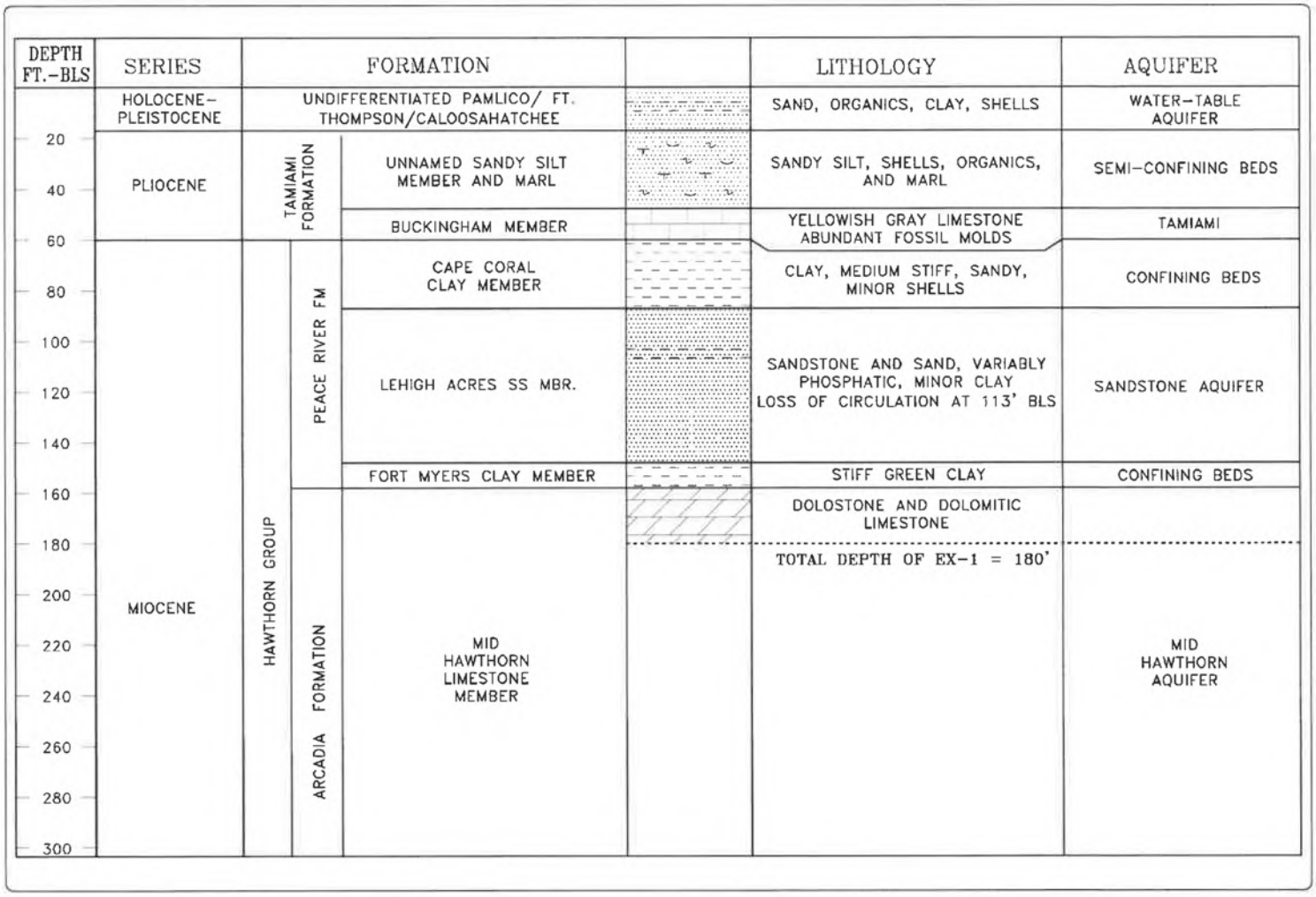


FIGURE 4-1. GENERALIZED HYDROSTRATIGRAPHIC COLUMN FOR USEPPA ISLAND (CARDNO ENTRIX, 2012).

Tables

Table 2-1 - Summary of Daily Injection Hydraulic Data and Injected Volumes by Month

Month	Volume Injected (MG)	Avg Daily Volume Injected (gal)	Max Daily Volume Injected (gal)	Min Daily Volume Injected (gal)	Avg Daily Inj Rate (gpm)	Max Daily Inj Rate (gpm)	Min Daily Inj Rate (gpm)	Avg Daily Inj Pressure (psi)	Max Daily Inj Pressure (psi)	Min Daily Inj Pressure (psi)	Injection Rate for Specific Injectivity	Specific Injectivity (gpm/psi @ inj rate)
8/1/19	0.232	7,484	13,000	4,000	5.20	33.60	0	1.34	10.60	-0.08	33.5	4.72
9/1/19	0.359	11,967	23,000	1,000	8.31	46.50	0	1.95	9.09	-0.13	33.1	4.53
10/1/19	0.555	17,903	29,000	-16,000	12.85	33.60	0	3.55	11.56	-0.89	32.8	4.49
11/1/19	0.441	14,700	29,000	6,000	10.21	33.60	0	3.54	13.98	0.07	33.4	4.51
12/1/19	0.442	14,258	32,000	7,000	9.90	33.60	0	3.72	13.79	-0.10	33.2	4.37
1/1/20	0.434	14,000	22,000	8,000	9.72	33.60	0	3.73	14.62	-0.08	33.3	4.27
2/1/20	0.394	13,586	17,000	8,000	9.03	33.60	0	4.13	14.70	-0.13	33.4	4.34
3/1/20	0.495	15,968	22,000	11,000	11.09	33.60	0	0.36	14.87	0.00	33.1	4.36
4/1/20	0.414	13,800	18,000	3,000	9.58	33.60	0	0.00	0.00	0.00	32.6	4.23
5/1/20	0.471	15,194	22,000	-5,000	10.78	33.60	0	0.00	0.00	0.00	33.5	4.29
6/1/20	0.468	15,600	26,000	9,000	10.83	33.60	0	0.14	4.66	0.00	33.5	4.59
7/1/20	0.421	13,581	24,000	5,000	9.75	33.60	0	0.00	0.00	0.00	33.2	4.61
8/1/20	0.370	11,935	47,000	3,000	8.29	33.60	0	0.00	0.00	0.00	33	4.71
9/1/20	0.291	9,700	13,000	6,000	6.51	33.60	0	0.00	0.00	0.00	32.1	4.01
10/1/20	0.333	10,742	16,000	8,000	7.46	33.60	0	0.00	0.00	0.00	33.3	4.16
11/1/20	0.445	14,833	19,000	11,000	9.97	33.60	0	0.00	0.00	0.00	33.1	5.09
12/1/20	0.457	14,742	18,000	10,000	10.24	33.60	0	0.00	0.00	0.00	33.5	4.79
1/1/21	0.479	15,452	18,000	9,000	9.43	33.60	0	0.00	0.00	0.00	-	-
2/1/21	0.555	19,821	18,000	12,000	9.27	33.60	0	0.00	0.00	0.00	-	-
3/1/21	0.483	15,581	19,000	12,000	10.82	33.60	0	1.15	14.72	0.00	-	-
4/1/21	0.444	14,800	18,000	5,000	9.95	33.60	0	0.00	0.00	0.00	33.2	4.96
5/1/21	0.457	14,742	18,000	11,000	10.24	33.60	0	0.00	0.00	0.00	33.5	4.53
6/1/21	0.389	12,967	18,000	8,000	9.00	33.60	0	0.01	0.00	0.28	33.1	4.66
7/1/21	0.353	11,387	20,000	3,000	8.29	33.60	0	0.11	10.71	-0.31	-	-
8/1/21	0.347	11,194	16,000	8,000	7.77	33.60	0	1.35	14.71	-1.31	33.2	4.56
9/1/21	0.401	13,367	18,000	1,000	8.98	33.60	0	2.81	14.76	-1.35	33.4	4.23
10/1/21	0.388	12,516	19,000	9,000	8.69	33.60	0	1.24	14.87	-0.52	33.07	5.25

Table 2-1 - Summary of Daily Injection Hydraulic Data and Injected Volumes by Month

Month	Volume Injected (MG)	Avg Daily Volume Injected (gal)	Max Daily Volume Injected (gal)	Min Daily Volume Injected (gal)	Avg Daily Inj Rate (gpm)	Max Daily Inj Rate (gpm)	Min Daily Inj Rate (gpm)	Avg Daily Inj Pressure (psi)	Max Daily Inj Pressure (psi)	Min Daily Inj Pressure (psi)	Injection Rate for Specific Injectivity	Specific Injectivity (gpm/psi @ inj rate)
11/1/21	0.432	14,400	18,000	10,000	9.68	33.60	0	0.53	9.05	0.00	32.87	4.98
12/1/21	0.403	13,000	22,000	6,000	9.03	33.60	0	0.24	8.53	-0.90	31.2	4.27
1/1/22	0.434	14,000	17,000	10,000	9.72	33.60	0	0.00	0.00	0.00	33.5	4.53
2/1/22	0.408	14,571	19,000	11,000	9.14	33.60	0	0.00	0.00	0.00	33.3	3.96
3/1/22	0.462	14,903	19,000	13,000	10.35	33.60	0	0.00	0.00	0.00	32.4	4.21
4/1/22	0.345	11,500	16,000	7,000	7.73	33.60	0	0.00	0.00	0.00	32.8	4.43
5/1/22	0.407	13,129	16,000	9,000	9.12	33.60	0	0.00	0.00	0.00	32.7	4.25
6/1/22	0.357	11,900	16,000	3,000	8.00	33.60	0	0.00	0.00	0.00	33.5	4.04
7/1/22	0.336	10,839	16,000	8,000	7.53	33.60	0	0.00	0.00	0.00	32.3	3.99
8/1/22	0.348	11,226	14,000	-1,000	7.80	33.60	0	1.43	14.70	-1.35	31.7	4.06
9/1/22	0.346	11,533	19,000	7,000	9.24	33.60	0	4.53	14.39	-4.63	-	-
12/1/22	0.230	7,419	13,000	4,000	5.15	33.60	0	0.00	0.00	0.00	32.9	3.87
1/1/23	0.289	9,323	18,000	5,000	6.47	33.60	0	0.00	0.00	0.00	33.1	4.07
2/1/23	0.318	11,357	19,000	1,000	7.12	33.60	0	0.00	0.00	0.00	33.5	4.72
3/1/23	0.398	12,839	17,000	10,000	8.92	33.60	0	0.00	0.00	0.00	32.1	5.10
4/1/23	0.774	25,800	427,000	0	17.34	33.60	0	0.00	0.00	0.00	-	-
5/1/23	0.432	13,935	53,000	-23,000	9.68	33.60	0	0.00	0.00	0.00	-	-
6/1/23	0.400	13,333	17,000	9,000	8.96	33.60	0	0.00	0.00	0.00	-	-
7/1/23	0.433	13,968	19,000	9,000	9.70	33.60	0	0.00	0.00	0.00	-	-
9/1/23	0.825	27,500	37,000	13,000	18.48	33.60	0	0.00	0.00	0.00	-	-
10/1/23	0.356	11,484	14,000	9,000	7.97	33.60	0	0.00	0.00	0.00	-	-
11/1/23	0.352	11,733	15,000	5,000	7.89	33.60	0	0.00	0.00	0.00	-	-
12/1/23	0.368	11,871	16,000	8,000	8.24	33.60	0	0.00	0.00	0.00	-	-
1/1/24	0.290	9,355	15,000	6,000	6.50	33.60	0	0.00	0.00	0.00	-	-
2/1/24	0.323	11,138	21,000	7,000	7.24	33.60	0	0.00	0.00	0.00	-	-
3/1/24	0.346	11,161	19,000	4,000	7.75	33.60	0	0.00	0.00	0.00	-	-
4/1/24	0.350	11,667	13,000	8,000	8.10	33.60	0	0.00	0.00	0.00	-	-

Table 2-1 - Summary of Daily Injection Hydraulic Data and Injected Volumes by Month

Month	Volume Injected (MG)	Avg Daily Volume Injected (gal)	Max Daily Volume Injected (gal)	Min Daily Volume Injected (gal)	Avg Daily Inj Rate (gpm)	Max Daily Inj Rate (gpm)	Min Daily Inj Rate (gpm)	Avg Daily Inj Pressure (psi)	Max Daily Inj Pressure (psi)	Min Daily Inj Pressure (psi)	Injection Rate for Specific Injectivity	Specific Injectivity (gpm/psi @ inj rate)
5/1/24	0.364	11,742	13,000	8,000	8.15	33.60	0	0.00	0.00	0.00	-	-
6/1/24	0.309	10,300	13,000	0	6.92	33.60	0	0.00	0.00	0.00	-	-
7/1/24	0.361	11,645	32,000	4,000	8.08	33.60	0	0.36	14.55	0.00	-	-
8/1/24	0.354	11,419	16,000	5,000	7.93	33.60	0	2.24	15.59	0.00	-	-
9/1/24	0.284	9,467	16,000	5,000	6.36	33.60	0	3.45	15.58	-0.12	-	-
10/1/24	0.145	4,677	17,000	0	3.25	33.60	0	1.89	15.57	-0.14	-	-
11/1/24	0.256	8,533	17,000	1,000	5.73	33.60	0	2.01	15.60	-0.08	-	-

Table 2-2 - Summary of Water Quality Analyses for Useppa Island RO WTP Concentrate

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
8/1/19	7.6	28.4	19,213	1,360	19,000	14,400	-	-	-
9/1/19	7.7	28.8	28,300	1,280	18,000	9,920	-	-	-
10/1/19	7.5	27.3	36,300	1,330	25,000	13,900	-	-	-
11/1/19	7.7	27.1	26,900	1,330	17,000	10,100	-	-	-
12/1/19	8.0	25.1	18,320	1,270	17,000	9,760	-	-	-
1/1/20	7.8	24.6	27,600	1,130	17,500	9,230	-	-	-
3/1/20	7.8	26.8	27,000	1,300	15,000	11,100	<2.23	<0.851	<0.847
4/1/20	7.5	27.6	27,100	1,230	20,000	9,960	-	-	-
5/1/20	7.6	27.7	25,100	1,190	17,000	8,820	-	-	-
6/1/20	7.6	27.8	25,000	1,120	20,000	8,460	-	-	-
7/1/20	7.4	28.3	8,030	304	5,300	2,980	-	-	-
8/1/20	7.4	28.6	24,500	1,150	15,000	8,760	-	-	-
9/1/20	7.6	28.7	26,500	1,260	15,000	9,800	-	-	-
10/1/20	7.4		27,900	1,370	18,000	10,400	-	-	-
11/1/20	7.4		25,500	1,180	16,000	8,100	-	-	-
12/1/20	7.3	27.0	25,500	1,150	16,000	8,330	-	-	-
1/1/21	7.5		11,600	589	8,200	4,440	155	109	3
2/1/21	7.7	26.8	24,500	1,100	14,000	8,600	-	-	-
3/1/21	7.6	24.3	23,900	1,100	17,000	9,340	-	-	-
4/1/21	7.8	25.4	23,500	1,190	15,000	7,920	-	-	-
5/1/21	7.8	26.0	23,600	1,120	17,000	7,610	-	-	-
6/1/21	7.9	27.2	24,100	1,210	16,000	8,770	-	-	-
7/1/21	8.0	28.1	23,300	1,110	11,000	7,680	679	207	5.88
8/1/21	8.1	27.1	15,600	729	8,300	5,380	-	-	-
9/1/21	8.7	27.8	23,100	1,080	21,000	8,080	-	-	-
11/1/21	7.8	26.3	25,200	1,230	17,900	8,420	-	-	-
12/1/21	7.9	26.1	24,200	1,200	18,100	8,430	-	-	-
1/1/22	7.6	26.1	31,000	1,170	16,000	8,630	-	-	-
2/1/22	7.6	24.5	31,200	1,180	14,000	8,230	-	-	-
3/1/22	7.5	26.0	26,300	1,140	15,000	8,160	-	-	-
4/1/22	7.3	25.8	29400	1370	18800	9250	278	165	7.21
5/1/22	7.7	27.7	29,000	1,400	20,400	9,110	-	-	-
6/1/22	7.4	28.9	32,100	1,350	20,000	10,400	-	-	-
7/1/22	7.6	29.1	34,600	1,150	18,000	9,860	-	-	-
8/1/22	7.4	28.4	37,800	1,280	21,000	11,200	-	-	-
9/1/22	7.5	28.9	35,100	1,170	19,000	9,950	-	-	-
12/1/22	7.6	24.9	26,100	1,350	11,000	7,090	-	-	-

Table 2-2 - Summary of Water Quality Analyses for Useppa Island RO WTP Concentrate

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
1/1/23	7.6	23.6	27,100	1,200	11,000	7,350	-	-	-
2/1/23	7.5	25.3	20,500	1,120	11,000	7,290	-	-	-
3/1/23	7.5	27.1	25,400	1,110	12,000	7,330	-	-	-
4/1/23	7.4	25.3	20,900	1,070	11,000	7,040	-	-	-
5/1/23	7.8	27.5	24,900	1,080	14,000	7,350	-	-	-
6/1/23	7.4	24.9	20,000	997	13,200	7,330	-	-	-
9/1/23	7.5	29.8	19,500	1,030	10,000	7,030	231+/-41.6	159+/-19.3	4.38+/-1.04
10/1/23	7.6	26.8	28,800	1,270	16,000	8,250	-	-	-
11/1/23	7.6	26.4	26,400	1,270	18,000	8,410	-	-	-
12/1/23	7.5	25.1	30,600	1,200	12,000	8,590	-	-	-
1/1/24	7.5	23.3	28,800	1,330	16,000	9,760	-	-	-
2/1/24	7.4	24.5	28,900	1,340	17,000	9,050	-	-	-
3/1/24	7.4	25.8	28,400	1,360	15,000	9,060	-	-	-
4/1/24	7.4	26.6	31,400	1,310	16,000	9,140	-	-	-
5/1/24	7.4	28.5	31,000	1,320	12,000	9,690	-	-	-
6/1/24	7.4	28.1	31,000	9,240	13,000	9,240	-	-	-
7/1/24	7.5	28.7	31,300	1,270	17,000	8,770	-	-	-
8/1/24	7.3	28.5	32,800	1,260	17,000	8,800	-	-	-
9/1/24	7.5	29.2	29,600	1,190	16,000	9,080	-	-	-
10/1/24	7.3	27.6	25,400	1,130	15,000	9,860	-	-	-
11/1/24	7.2	28.1	30,600	1,180	15,000	8,930	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
8/7/19	7.2	28.7	13,910	585	11,000	4,690	-	-	-
8/13/19	7.1	28.6	11,410	591	9,700	6,930	-	-	-
8/21/19	7.1	28.3	11,154	749	8,400	6,020	-	-	-
8/27/19	7.6	28.2	13,221	770	13,000	7,040	-	-	-
9/5/19	7.8	28.8	9,888	696	11,000	6,730	-	-	-
9/12/19	7.4	28.4	12,766	725	14,000	7,370	-	-	-
9/18/19	7.3	28.2	13,815	743	15,000	8,860	-	-	-
9/24/19	7.1	28.6	12,153	131	14,000	1,320	-	-	-
10/1/19	7.0	27.7	13,715	881	13,000	7,920	-	-	-
10/10/19				751	12,000	8,140	-	-	-
10/17/19	7.3	28.2	12,188	405	14,000	7,400	-	-	-
10/23/19	7.5	28.0	11,740	638	10,000	5,440	-	-	-
10/28/19	7.3	27.9	13,072	721	14,000	9,260	-	-	-
11/6/19	7.2	27.6	13,472	596	9,500	6,060	-	-	-
11/12/19	7.4	27.4	12,820	645	11,000	5,550	-	-	-
11/19/19	7.1	25.5	13,623	588	9,900	6,610	-	-	-
11/25/19	7.1	24.5	13,201	629	10,900	5,920	-	-	-
12/2/19	7.4	25.7	12,999	620	9,000	6,250	-	-	-
12/9/19	7.6	25.3	14,086	635	11,000	6,410	-	-	-
12/18/19	7.5	23.9	13,062	632	10,000	5,920	-	-	-
12/23/19	7.8	24.0	13,334	624	11,000	5,330	-	-	-
12/30/19	7.6	24.5	11,811	551	11,000	6,550	-	-	-
1/7/20	7.3	23.8	11,876	554	11,000	5,670	381.00	258.00	6.49
1/8/20							447.00	206.00	4.91
1/15/20	7.3	23.9	12,145	515	11,000	5,740	-	-	-
1/20/20	7.3	21.2	12,378	583	10,800	5,100	-	-	-
1/29/20	7.4	22.9	13,019	568	10,000	4,830	-	-	-
2/5/20	7.2	23.1	13,427	611	11,000	5,890	-	-	-
2/11/20	7.3	24.0	12,379	569	9,900	5,830	-	-	-
2/19/20	7.2	24.7	12,891	595	11,000	5,990	-	-	-
2/26/20	7.3	24.5	12,619	714	11,000	5,900	-	-	-
3/3/20	7.3	24.4	12,468	625	9,000	5,760	-	-	-
3/10/20	7.3	23.9	13,528	643	9,700	6,000	-	-	-
3/18/20				636	2,500	5,760	-	-	-
3/25/20	7.3	24.5	13,037	572	11,000	5,790	-	-	-
4/1/20	7.3	24.7	12,758	550	12,000	5,620	-	-	-
4/7/20	7.3	25.1	11,917	549	9,900	5,890	-	-	-
4/14/20	6.9	26.2	14,234	592	10,000	5,590	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
4/21/20	7.0	25.7	13,339	596	11,000	5,340	-	-	-
4/28/20	7.1	25.8	15,212	549	10,000	5,670	-	-	-
5/4/20	7.0	26.6	15,617	546	10,000	5,530	-	-	-
5/12/20	7.2	25.5	13,147	649	9,700	5,650	-	-	-
5/19/20	7.1	26.2	15,082	593	10,000	5,460	-	-	-
5/26/20	7.1	27.1	14,162	562	12,000	6,560	-	-	-
6/2/20	7.1	26.5	16,690	962	14,000	8,510	-	-	-
6/9/20	6.9	27.8	14,359	459	9,900	5,160	-	-	-
6/15/20	7.2	27.7	12,781	507	9,400	5,240	-	-	-
6/23/20	7.1	27.4	18,910	1,160	14,000	9,390	-	-	-
6/30/20	7.1	29.1	16,860	887	13,000	8,130	-	-	-
7/8/20	7.0	29.4	17,360	663	11,000	6,330	-	-	-
7/14/20	7.1	29.7	12,860	691	12,000	5,730	-	-	-
7/21/20	7	28.3	15,491	964	11,000	8,360	-	-	-
7/27/20	6.9	28.7	8,304	1,030	17,000	8,380	-	-	-
8/3/20	7.2	28.0	1,942	1,080	14,000	9,140	-	-	-
8/10/20	7.1	28.4	8,121	1,090	17,000	8,910	-	-	-
8/17/20	7.2	28.4	19,993	1,090	17,000	8,910	-	-	-
8/24/20	7.2	28.4	17,869	944	14,000	7,960	-	-	-
9/7/20	7.2	28.9	16,104	1,100	16,000	9,110	-	-	-
9/14/20	7.1	28.0	14,708	1,060	15,000	9,230	-	-	-
9/21/20	7.1	28.3	16,750	1,170	16,000	8,940	-	-	-
9/28/20	6.6	28.5	17,941	1,100	14,000	8,520	-	-	-
10/5/20	6.6	28.0	16,482	1,160	16,000	9,410	-	-	-
10/12/20	7.0	28.0	14,421	1,150	16,000	7,890	-	-	-
10/19/20	6.9	28.0	12,980	1,170	16,000	8,230	-	-	-
10/26/20	6.5	28.0	18,954	1,120	16,000	7,860	-	-	-
11/2/20	6.5	27.8	19,203	1,100	18,000	7,500	-	-	-
11/10/20	6.5	27.9	19,803	686	12,000	5,690	-	-	-
11/16/20	6.5	27.6	19,274	1,100	17,000	8,600	-	-	-
11/23/20	6.6	26.6	17,822	1,170	15,000	8,330	-	-	-
11/30/20	6.7	27.0	19,992	1,050	16,000	8,490	-	-	-
12/7/20	6.8	26.0	14,053	707	13,000	5,820	-	-	-
12/14/20	6.8	26.2	15,251	654	11,000	6,040	-	-	-
12/22/20	6.9	26.1	17,367	634	11,000	5,930	-	-	-
12/28/20	6.7	26.2	15,865	641	12,000	5,900	-	-	-
1/4/21	6.6	26.3	17,383	639	9,700	5,890	-	-	-
1/11/21	7.1	24.9	15,821	1,050	15,000	8,530	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
1/18/21	6.9	24.4	16,299	1,150	7,500	8,250	-	-	-
1/25/21	6.8	25.1	16,422	697	12,000	6,540	-	-	-
2/1/21	6.7	25.2	16,513	685	12,000	6,150	-	-	-
2/8/21	6.7	25.3	16,491	706	11,000	6,270	-	-	-
2/15/21	7.3	24.8	13,282	1,210	16,000	8,710	-	-	-
2/22/21	7.3	24.3	13,340	890	14,000	7,360	-	-	-
3/1/21	7.2	24.5	7,920	685	12,000	5,750	-	-	-
3/8/21	7.2	23.8	7,921	667	12,000	5,930	-	-	-
3/15/21	7.3	24.0	15,783	1,110	17,000	8,630	-	-	-
3/22/21	7.4	23.8	15,761	727	11,000	5,910	-	-	-
3/29/21	7.1	24.7	16,783	1,050	14,000	8,970	-	-	-
4/5/21	7.2	24.5	17,890	830	12,000	6,810	-	-	-
4/13/21	7.2	24.4	17,882	709	12,000	5,670	-	-	-
4/20/21	7.2	25.3	17,291	1,050	17,400	7,960	-	-	-
4/27/21	7.0	25.5	16,227	1,240	16,000	8,600	-	-	-
5/3/21	7.1	26.1	17,921	1,170	18,000	7,960	-	-	-
5/10/21	7.2	26.4	19,860	1,080	16,000	7,800	-	-	-
5/17/21	7.2	26.5	17,442	1,090	14,000	7,560	-	-	-
5/24/21	7.8	26.6	17,203	1,060	17,000	8,610	-	-	-
5/31/21	7.3	26.9	16,550	992	14,000	7,450	-	-	-
6/7/21	7.3	27.3	16,103	957	13,000	7,030	-	-	-
6/14/21	7.3	27.6	18,110	1,170	15,000	8,590	-	-	-
6/21/21	7.4	27.8	18,001	668	12,000	5,910	-	-	-
6/28/21	7.3	26.9	18,010	582	11,000	5,610	-	-	-
7/8/21	7.3	26.7	17,211	579	1,200	5,460	-	-	-
7/12/21	7.4	26.8	17,900	556	8,400	5,400	-	-	-
7/19/21				894	12,000	7,270	-	-	-
7/26/21	7.5	28.6	15,432	579	9,800	5,590	-	-	-
8/2/21	7.8	28.0	12,606	538	9,700	5,210	-	-	-
8/9/21	7.5	28.7	14,561	733	12,000	6,290	-	-	-
8/16/21	7.8	27.8	12,821	530	8,500	5,440	-	-	-
8/23/21	7.9	28.0	12,812	516	9,500	5,400	-	-	-
8/30/21	7.9	28.2	12,852	539	8,800	5,620	-	-	-
9/6/21	7.9	28.3	12,980	515	10,000	5,490	-	-	-
9/13/21	8.0	28.4	13,172	534	8,800	5,450	-	-	-
9/21/21	7.9	28.5	15,469	491	10,000	5,600	-	-	-
9/27/21	7.9	28.4	12,903	552	11,000	5,440	-	-	-
10/4/21	7.8	28.1	13,111	578	12,000	5,940	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
10/13/21	6.8	28.2	16,641	928	9,200	8,540	-	-	-
10/20/21	6.8	27.8	16,384	1,190	12,000	8,890	-	-	-
10/25/21	6.8	28.0	16,473	1,210	17,600	9,060	-	-	-
11/1/21	7.2	25.3	16,382	1,110	17,400	7,920	-	-	-
11/8/21	7.1	25.9	17,585	1,240	18,400	8,220	-	-	-
11/15/21	7.1	25.6	21,181	1,220	17,500	8,590	-	-	-
11/22/21	7.1	26.5	21,182	1,240	18,100	8,560	-	-	-
11/29/21	7.2	24.7	18,125	1,260	18,500	8,860	-	-	-
12/6/21	7.3	24.5	18,850	1,230	16,700	8,620	-	-	-
12/13/21	7.2	25.0	17,901	1,200	17,700	9,720	-	-	-
12/20/21	7.2	24.8	18,590	1,270	17,000	9,020	-	-	-
12/27/21	6.9	24.3	20,630	1,260	18,000	8,880	-	-	-
1/3/22	6.8	24.5	19,630	1,220	14,000	8,870	-	-	-
1/10/22	6.8	24.9	22,700	1,620	21,000	8,560	-	-	-
1/17/22	6.9	23.8	18,100	1,200	19,000	8,690	-	-	-
1/24/22	7.0	22.8	19,100	1,220	19,000	8,470	-	-	-
1/31/22	7.0	22.3	19,050	1,180	15,000	8,630	-	-	-
2/7/22	6.8	22.9	20,900	1,130	15,000	9,170	-	-	-
2/14/22	7.0	21.7	18,820	68	12,000	440	-	-	-
2/21/22	7.0	23.3	17,900	1,200	5,600	8,930	-	-	-
2/28/22	6.9	24.3	22,010	1,180	16,000	8,500	-	-	-
3/7/22	7.2	24.5	17,950	56	15,000	383	-	-	-
3/15/22	6.8	24.6	17,292	1,240	11,000	8,320	-	-	-
3/21/22	7.0	23.4	17,350	1,270	17,000	8,080	-	-	-
3/28/22	6.9	24.9	22,150	1,230	17,000	8,470	-	-	-
4/4/22	6.9	24.8	18,200	1,240	16,000	8,910	-	-	-
4/11/22	7.3	24.7	16,420	1,230	15,900	8,580	-	-	-
4/18/22	6.9	25.4	20,110	1,270	16,200	8,940	-	-	-
4/25/22	6.9	25.9	17,810	1,270	16,600	8,250	-	-	-
5/2/22	6.9	26.3	19,060	1,260	17,600	8,340	-	-	-
5/9/22	7.0	26.3	18,100	1,240	17,400	8,350	-	-	-
5/16/22	7.0	26.8	18,700	1,280	16,400	8,450	-	-	-
5/23/22	7.0	27.0	19,020	1,240	17,500	8,610	-	-	-
5/30/22	7.0	27.3	19,350	1,260	16,500	8,610	-	-	-
6/6/22	7.0	27.7	19,690	1,240	17,000	8,330	-	-	-
6/13/22	7.2	27.3	21,063	1,230	17,000	8,710	-	-	-
6/20/22	6.9	28.0	13,185	1,170	17,000	8,330	-	-	-
6/27/22	7.0	28.5	19,730	1,160	20,000	7,690	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
7/5/22	7.0	28.5	19,540	1,220	12,000	8,340	-	-	-
7/11/22	7.0	28.5	19,435	1,240	17,000	8,680	-	-	-
7/18/22	7.0	29.0	18,731	1,240	16,000	8,710	-	-	-
7/27/22	7.0	29.0	18,750	1,270	15,000	8,770	-	-	-
8/1/22	7.1	29.0	19,530	1,290	19,000	8,820	-	-	-
8/8/22	7.0	29.1	21,159	1,230	15,000	9,760	-	-	-
8/15/22	7.0	29.3	19,333	1,180	16,000	8,200	-	-	-
8/22/22	6.9	29.4	20,775	1,150	16,000	8,120	-	-	-
8/29/22	7.0	29.1	21,551	916	15,000	7,110	-	-	-
9/8/22	7.1	29.1	19,927	1,000	12,000	7,390	-	-	-
9/12/22	7.0	29.1	18,935	1,210	16,000	8,070	-	-	-
9/19/22	6.9	29.2	20,330	1,240	15,000	8,590	-	-	-
9/26/22	7.0	29.0	18,671	1,250	14,000	8,620	-	-	-
11/7/22	7.0	26.4	17,533	1,240	14,000	8,820	-	-	-
11/14/22	7.1	25.4	16,510	820	13,000	6,980	-	-	-
11/21/22	7.1	25.1	19,861	1,240	11,000	8,230	-	-	-
11/28/22	6.9	25.3	18,755	1,230	12,000	8,630	-	-	-
12/5/22	7.0	25.5	19,351	1,230	12,000	8,300	-	-	-
12/12/22	7.1	25.5	19,547	1,070	13,000	7,120	-	-	-
12/19/22	7.0	24.0	14,753	1,230	14,000	8,620	-	-	-
12/26/22	7.0	23.1	18,711	1,240	13,000	8,500	-	-	-
1/2/23	7.1	24.4	19,436	1,210	12,000	8,270	-	-	-
1/9/23	7.1	23.9	19,168	1,240	13,000	9,010	-	-	-
1/16/23	7.0	22.9	19,868	1,240	17,000	8,870	-	-	-
1/23/23	7.1	22.9	19,163	1,240	14,000	8,740	-	-	-
1/30/23	7.1	23.7	21,366	1,280	15,000	8,270	-	-	-
2/6/23	7.1	23.6	18,255	1,220	12,000	8,790	-	-	-
2/13/23	7.1	23.7	17,976	1,250	14,000	8,840	-	-	-
2/21/23	7.1	24.5	19,385	1,280	12,000	8,910	-	-	-
2/28/23	7.1	24.8	20,733	1,260	13,000	9,890	-	-	-
3/16/23	7.1	23.2	19,255	1,270	15,000	9,110	-	-	-
4/19/23	7.1	26.0	18,917	1,260	12,000	8,680	-	-	-
5/23/23	6.9	27.6	19,808	1,270	17,000	8,930	-	-	-
6/28/23	6.9	29.2	19,265	1,260	740	9,590	-	-	-
7/25/23	7.0	29.7	19,195	1,260	14,000	9,000	-	-	-
9/12/23	7.1	28.0	18,297	1,260	15,000	9,870	2.86+/-1.69	1.15U+/-.533	.946U+/-.417
10/26/23	7.1	28.2	18,547	1,220	12,000	8,870	-	-	-
11/21/23	7.1	27.2	18,968	1,260	13,000	8,800	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
12/17/23	6.95	23.9	18,231	1,200	16,000	8,430	-	-	-
1/29/24	7.21	23.0	18,870	1,160	15,000	7,770	-	-	-
2/28/24	7.39	23.1	17,375	1,160	13,000	8,760	-	-	-
3/26/24	6.85	24.4	19,255	1,230	12,000	8,480	-	-	-
4/29/24	7.03	24.6	19,164	1,100	13,000	7,940	-	-	-
5/28/24	6.93	28.3	20,067	1,440	12,000	8,900	-	-	-
6/26/24	6.95	27.8	15,817	1,130	14,000	7,996	-	-	-
7/31/24	7.05	28.9	15,929	1,100	12,000	8,750	-	-	-
8/28/24	7.01	29.3	14,781	1,130	14,000	9,060	-	-	-
9/24/24	7.04	28.5	17,575	1,120	14,000	8,390	-	-	-
10/30/24	7.06	27.7	18,810	1,070	15,000	8,340	-	-	-
11/25/24	7.22	24.8	19,743	1,060	14,000	8,420	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
8/7/19	7.4	29.4	2,950	104.0	1,900	814	-	-	-
8/13/19	7.3	29.2	2,520	92.1	1,900	1,190	-	-	-
8/21/19	7.2	28.9	1,574	75.0	1,200	423	-	-	-
8/27/19	7.6	28.3	2,120	70.7	1,400	565	-	-	-
9/5/19	7.8	28.8		67.3	1,500	786	-	-	-
9/12/19	7.8	28.8	2,671	79.1	1,500	676	-	-	-
9/18/19	7.6	28.8	2,971	77.0	1,700	960	-	-	-
9/24/19	7.4	28.8	3,489	109.0	1,730	1,190	-	-	-
10/1/19	7.5	28.7	4,074	130.0	2,600	1,430	-	-	-
10/10/19				157.0	2,700	1,660	-	-	-
10/17/19	7.4	29.0	4,842	151.0	3,000	1,570	-	-	-
10/23/19	7.4	28.4	4,039	133.0	1,700	1,490	-	-	-
10/28/19	7.8	28.1	4,211	143.0	2,800	1,450	-	-	-
11/6/19	7.5	27.8	4,336	149.0	2,600	1,680	-	-	-
11/12/19	7.5	28.0	4,520	151.0	2,500	1,440	-	-	-
11/19/19	7.3	27.0	4,751	187.0	2,600	1,830	-	-	-
11/25/19	7.5	25.5	4,669	150.0	3,120	1,720	-	-	-
12/2/19	7.8	25.5	4,538	151.0	2,900	1,720	-	-	-
12/9/19	7.9	25.7	4,919	135.0	2,800	1,660	-	-	-
12/18/19	7.4	24.3	3,875	130.0	2,300	1,610	-	-	-
12/23/19	7.6	24.0	3,522	110.0	2,000	979	-	-	-
12/30/19	7.8	24.6	3,579	112.0	2,400	1,060	-	-	-
1/7/20	7.2	23.9	3,499	106.0	2,200	1,090	-	-	-
1/15/20	7.8	23.8	3,374	99.6	2,260	856	-	-	-
1/20/20	7.7	22.4	1,923	112.0	2,300	963	-	-	-
1/29/20	7.6	23.4	3,596	136.0	1,700	895	-	-	-
2/5/20	7.5	22.9	3,137	92.1	1,200	890	-	-	-
2/11/20	7.5	24.0	2,967	87.5	1,600	847	-	-	-
2/19/20	7.7	24.9	2,850	86.1	1,800	806	-	-	-
2/26/20	7.6	24.6	3,148	114.0	2,300	966	-	-	-
3/3/20	7.6	24.7	3,438	111.0	2,200	1,080	-	-	-
3/10/20	7.7	24.3	3,889	121.0	2,300	1,180	-	-	-
3/18/20				144.0		1,310	-	-	-
3/25/20	7.3	24.6	1,419	147.0	2,600	1,500	-	-	-
4/1/20	7.7	24.9	4,988	184.0	3,400	1,580	-	-	-
4/7/20	7.6	25.1	4,612	190.0	3,300	1,600	-	-	-
4/14/20	7.4	26.2	5,068	218.0	3,300	1,700	-	-	-
4/21/20	7.4	25.4	5,570	234.0	3,900	1,730	-	-	-
4/28/20	7.9	25.8	5,800	221.0	3,600	1,800	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
5/4/20	7.4	26.1	5,741	222.0	3,200	1,740	-	-	-
5/12/20	7.4	25.7	5,896	292.0	3,200	1,960	-	-	-
5/19/20	7.2	26.5	5,983	563.0	3,700	1,800	-	-	-
5/26/20	7.4	27.0	4,555	235.0	3,300	1,880	-	-	-
6/2/20	7.3	27.6	4,510	196	2,700	1,550	-	-	-
6/9/20	7.5	27.6	2,591	114	1,800	840	-	-	-
6/15/20	7.3	27.6	3,756	135	2,000	864	-	-	-
6/23/20	7.7	28.8	3,810	155	2,400	1,080	-	-	-
6/30/20	7.6	29	4,300	171	2,400	1,320	-	-	-
7/8/20	7.5	29.2	5,990	199	2,700	1,510	-	-	-
7/14/20	7.6	29.1	5,150	232	3,500	1,580	-	-	-
7/21/20	7.7	28.8	3,625	115	2,200	748	-	-	-
7/27/20	7.5	28.5	1,098	133	2,000	1,020	-	-	-
8/3/20	7.6	28.6	3,448	128	2,000	870	-	-	-
8/3/20	7.8	29.2	4,202	163	2,200	1,230	-	-	-
8/17/20	7.6	29.2	4,735	207	3,200	1,520	-	-	-
8/24/20	7.6	28.4	3,043	129	1,800	855	-	-	-
9/7/20	7.5	29.5	2,891	97	1,800	582	-	-	-
9/14/20	7.5	28.5	1,687	45	910	284	-	-	-
9/21/20	7.5	29.5	1,791	41	1,100	388	-	-	-
9/28/20	7.3	29.0	1,807	60	1,200	527	-	-	-
10/5/20	7.4	28.3	1,853	55.4	1,200	451	-	-	-
10/12/20	7.6	28.6	1,887	27.8	1,000	347	-	-	-
10/19/20	7.6	28.1	2,043	62.1	1,400	531	-	-	-
10/26/20	7.4	28.2	2,651	96.2	2,100	729	-	-	-
11/2/20	7.4	28.1	2,843	111.0	2,200	830	-	-	-
11/10/20	7.4	28.0	2,850	99.6	1,900	888	-	-	-
11/16/20	7.5	27.4	2,835	69.7	1,600	655	-	-	-
11/23/20	7.4	26.8	2,530	66.8	1,600	622	-	-	-
11/30/20	7.5	26.8	3,161	107	2,100	945	-	-	-
12/7/20	7.2	25.1	2,151	54.6	1,400	536	-	-	-
12/14/20	7.3	25.2	2,174	42.9	1,600	480	-	-	-
12/22/20	7.2	25.0	2,161	43.4	1,300	473	-	-	-
12/28/20	7.4	25.1	2,218	42	1,300	448	-	-	-
1/4/21	7.4	25.3	2,310	39.0	1,300	462	-	-	-
1/11/21	7.4	25.2	2,415	51.4	1,600	537	-	-	-
1/18/21	7.8	23.2	2,581	72.2	1,900	641	-	-	-
1/25/21	7.7	23.3	2,618	76.7	1,800	728	-	-	-
2/1/21	7.7	23.3	2,625	99.2	1,800	866	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
2/8/21	7.7	23.4	2,628	106.0	2,100	943	-	-	-
2/15/21	7.7	25.8	3,221	125.0	2,600	1,030	-	-	-
2/22/21	7.7	23.9	3,131	111.0	2,000	999	-	-	-
3/1/21	7.8	24.3	2,722	122.0	2,400	1,020	-	-	-
3/8/21	7.8	23.3	2,720	121.0	2,500	1,000	-	-	-
3/15/21	7.9	24.3	3,893	126.0	2,600	1,030	-	-	-
3/22/21	7.8	24.0	3,841	126.0	2,400	1,050	-	-	-
3/29/21	7.9	24.7	4,090	121	2,600	1,070	-	-	-
4/5/21	8.1	24.4	4,050	135.0	2,400	1,090	-	-	-
4/13/21	8.0	24.3	4,083	98.5	2,100	797	-	-	-
4/20/21	8.1	25.3	3,840	123.0	2,580	1,010	-	-	-
4/27/21	8.2	25.4	3,518	108.0	2,100	898	-	-	-
5/3/21	8.1	26.1	3,972	142.0	2,300	1,070	-	-	-
5/10/21	8.0	26.0	3,968	145.0	2,400	1,070	-	-	-
5/17/21	8.2	26.0	3,892	125.0	2,300	993	-	-	-
5/24/21	7.9	26.3	3,651	116.0	2,000	921	-	-	-
5/31/21	8.0	26.6	3,471	114		913	-	-	-
6/7/21	8.0	26.8	3,391	110.0	1,800	864	-	-	-
6/14/21	8.0	27.4	3,080	104.0	1,900	853	-	-	-
6/21/21	8.1	27.4	3,066	103.0	1,800	893	-	-	-
6/28/21	7.9	27.3	2,983	102	1,800	863	-	-	-
7/8/21	7.9	27.1	2,920	56.4	8,300	363	-	-	-
7/12/21	7.8	27.1	5,000	45.0	850	310	-	-	-
7/19/21				36.3	1,100	308	-	-	-
7/26/21	8.2	28.4	18,661	45.8	1,400	393	-	-	-
8/2/21	8.0	28.2	15,902	16.1	1,100	281	-	-	-
8/9/21	8.3	28.7	17,533	17.5	1,200	301	-	-	-
8/16/21	7.9	28.0	16,201	9.4	810	115	-	-	-
8/23/21	7.9	28.1	16,313	5.4	1,100	250	-	-	-
8/30/21	7.9	28.2	16,449	6	970	145	-	-	-
9/6/21	8.0	28.2	16,512		740	147	-	-	-
9/13/21	8.0	28.3	16,788	46.1	1,400	460	-	-	-
9/21/21	8.2	28.2	14,792	12.7	6,700	195	-	-	-
9/27/21	7.9	28.4	16,010	14.3	850	109	-	-	-
10/4/21	7.9	27.9	15,960	18.9	790	213	-	-	-
10/13/21	7.6	28.2	1,376	14.2	990	212	-	-	-
10/20/21	7.6	27.9	2,185	53.0	1,200	494	-	-	-
10/25/21	7.4	27.9	2,243	60.2	1,470	560	-	-	-
11/1/21	7.5	26.2	2,113	58.8	1,430	549	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
11/8/21	7.6	26.2	2,031	38.8	1,250	357	-	-	-
1/15/21	7.6	25.5	2,019	41.0	1,190	347	-	-	-
11/22/21	7.7	26.1	2,011	35.5	1,190	338	-	-	-
11/29/21	7.7	24.7	2,172	57.9	1,400	488	-	-	-
12/6/21	7.7	24.7	2,410	71.4	1,380	543	-	-	-
12/13/21	7.8	24.9	2,510	78.4	1,530	591	-	-	-
12/20/21	7.6	25.0	2,305	78.1	1,540	583	-	-	-
12/27/21	7.7	24.4	2,515	66.6	1,530	583	-	-	-
1/3/22	7.3	24.3	2,447	75.9	1,100	570	-	-	-
1/10/22	7.5	24.6	2,130	76.1	1,800	535	-	-	-
1/17/22	7.5	23.8	2,240	61.9	1,100	480	-	-	-
1/24/22	7.5	22.9	2,200	60.7	1,000	478	-	-	-
1/31/22	7.5	22.5	2,230	63.0	1,400	467	-	-	-
2/7/22	7.4	22.3	1,990	61.5	1,200	464	-	-	-
2/14/22	7.5	21.7	2,100	62.9		456	-	-	-
2/21/22	7.4	23.5	1,980	60.8	1,300	448	-	-	-
2/28/22	7.6	23.9	1,961	57.0	1,500	406	-	-	-
3/7/22	7.6	24.4	1,860	55.8		410	-	-	-
3/15/22	7.2	24.2	1,926	57.5	1,100	396	-	-	-
3/21/22	7.5	23.8	1,783	56.0	1,000	339	-	-	-
3/28/22	7.6	24.6	1,822	54.2	900	324	-	-	-
4/4/22	7.6	24.7	1,695	51.5	870	323	-	-	-
4/11/22	6.9	25.0	1,770	49.1	936	306	-	-	-
4/18/22	7.4	25.2	1,830	50.0	916	310	-	-	-
4/25/22	7.5	25.5	1,660	52.2	986	295	-	-	-
5/2/22	7.5	25.8	1,622	50.0	1,020	299	-	-	-
5/9/22	7.6	26.2	1,530	40.5	782	275	-	-	-
5/16/22	7.6	26.2	1,540	48.1	908	287	-	-	-
5/23/22	7.5	26.6	1,532	45.6	867	288	-	-	-
5/30/22	7.6	26.9	1,536	48.3	902	270	-	-	-
6/6/22	7.4	27.3	1,772	45.3	930	315	-	-	-
6/13/22	7.0	27.0	1,875	49.4	1,100	355	-	-	-
6/20/22	7.1	27.8	1,925	35.0	1,100	341	-	-	-
6/27/22	7.2	27.9	1,713	43.7	920	295	-	-	-
7/5/22	7.3	28.2	1,646	44.4	900	301	-	-	-
7/11/22	7.1	28.3	1,619	47.0	770	312	-	-	-
7/18/22	7.4	28.9	1,562	45.0	820	287	-	-	-
7/27/22	7.5	28.7	1,480	45.2	770	261	-	-	-
8/1/22	7.4	29.0	1,558	42.1	800	275	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
8/8/22	7.4	28.8	1,972	47.7	960	374	-	-	-
8/15/22	7.4	29.3	1,742	40.8	1,000	363	-	-	-
8/22/22	7.4	29.2	1,959	41.0	1,100	363	-	-	-
8/29/22	7.4	29.0	1,963	43.8	910	350	-	-	-
9/8/22	7.5	29.3	1,789	42.0	1,200	300	-	-	-
9/12/22	7.5	29.0	1,882	41.1	940	330	-	-	-
9/19/22	7.4	29.0	1,939	47.0	1,100	347	-	-	-
9/26/22	7.4	28.8	1,737	38.9	1,000	317	-	-	-
11/7/22	7.4	26.0	1,425	33.5	900	228	-	-	-
11/14/22	7.4	25.7	1,958	28.0	960	216	-	-	-
11/21/22	7.5	24.4	1,529	28.9	910	212	-	-	-
11/28/22	7.4	25.1	1,516	28.8	930	223	-	-	-
12/5/22	7.4	25.8	1,631	33.5	980	249	-	-	-
12/12/22	7.4	25.6	1,695	39.3	1,100	257	-	-	-
12/19/22	7.4	24.2	1,741	37.9	950	301	-	-	-
12/26/22	7.5	23.4	1,908	44.8	1,200	319	-	-	-
1/2/23	7.4	24.1	1,832	41.7	1,100	296	-	-	-
1/9/23	7.5	23.7	1,758	39.9	1,000	305	-	-	-
1/16/23	7.5	22.8	1,775	35.4	1,000	312	-	-	-
1/23/23	7.5	22.8	1,717	47.3	1,000	311	-	-	-
1/30/23	7.5	23.4	1,714	42.6	1,000	288	-	-	-
2/6/22	7.4	23.5		42.4	1,000		-	-	-
2/13/23	7.5	23.5	1,727	47.5	930		-	-	-
2/21/23	7.5	24.3	1,775	48.1	880		-	-	-
2/28/23	7.4	24.8	1,822	52.4	900		-	-	-
3/16/23	7.4	23.4	1,808	55.1	910	361	-	-	-
4/19/23	7.4	26.1	1,622	50.4	880	306	-	-	-
5/23/23	7.4	27.8		55.5	970	315	-	-	-
6/28/23	7.4	29.1	1,444	39.3		249	-	-	-
7/25/23	7.4	30.2	1,393	37.3	930	254	-	-	-
9/12/23	7.4	27.9	1,737	40.1	720	155	4.89+/-2.68	2.28+/-1.14	4.18+/-1.03
10/6/23	7.5	28.4	1,417	48.2	910	257	-	-	-
11/21/23	7.5	27.3	1,485	50.5	840	280	-	-	-
12/17/23	7.4	23.8	1,510	41.1	860	259	-	-	-
1/29/24	7.3	22.9	1,262	45.3	830	197	-	-	-
2/28/24	7.4	23.0	1,126	47.2	600	157	-	-	-
3/26/24	7.0	24.3	1,119	51.8	580	183	-	-	-
4/29/24	7.4	24.4	1,637	60.6	780	313	-	-	-
5/28/24	7.5	28.1	1,638	59.4	840	292	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
6/26/24	7.4	27.8	1,257	44.8	700	228	-	-	-
7/31/24	7.34	28.7	1,128	43.3	680	182	-	-	-
8/28/24	7.32	29.3	1,008	27.5	500	140	-	-	-
9/24/24	7.34	28.3	1,672	30.1	420	721	-	-	-
10/30/24	7.22	27.8	8,978	479.0	2,000	3,090	-	-	-
11/25/24		24.5	8,142	336.0	5,100	2,560	-	-	-

Table 2-5 - Summary of Monthly Water Levels for the Monitoring Wells

	MW-1 (feet NAVD)			MW-2 (feet NAVD)		
Month	Maximum Daily Water Level	Minimum Daily Water Level	Average of Daily Water Level Data	Maximum Daily Water Level	Minimum Daily Water Level	Average of Daily Water Level Data
8/1/19	2.83	0.53	1.43	3.97	-1.45	1.78
9/1/19	1.87	0.15	0.88	1.08	-2.31	0.73
10/1/19	2.67	0.52	1.52	3.13	-1.8	1.29
11/1/19	2.31	0.4	1.25	1.34	-1.36	1.1
12/1/19	2.38	0.10	1.05	2.44	-0.99	1.08
1/1/20	1.83	-0.09	0.78	1.42	-0.13	0.76
2/1/20	3.20	-0.24	0.68	1.39	-0.39	0.65
3/1/20	1.95	-0.24	1.1	0.53	-2.14	-0.14
4/1/20	2.71	0.80	1.57	0.31	-1.48	0.05
5/1/20	2.78	0.09	1.63	1.53	-1.16	0.27
6/1/20	6.60	-0.42	1.99	2.49	-0.68	0.80
7/1/20	3.06	0.18	1.93	2.13	-1.81	0.63
8/1/20	3.08	0.88	1.99	2.18	-2.01	0.68
9/1/20	8.33	0	2.33	3.24	-1.03	1.24
10/1/20	30.31	1.45	2.30	1.68	-1.45	0.94
11/1/20	3.91	0	2.04	2.54	-2.52	0.74
12/1/20	2.87	0.94	1.77	1.28	-1.81	0.58
1/1/21	2.87	0	0	0	0	0
2/1/21	2.87	0	0	0	0	0
3/1/21	1.98	-5.45	1.41	29.01	-6.39	6.14
4/1/21	2.58	0	1.61	7.72	-0.8	2.25
5/1/21	2.34	0.65	1.45	16.93	-5.95	5.65
6/1/21	2.53	0.97	1.75	8.09	-5.82	0.04
7/1/21	3.27	0	2.03	3.89	-5.95	0.36
8/1/21	3.34	1.12	2.22	15.35	-6.36	1.08
9/1/21	3.22	0	2.12	0	-6.12	-2.95
10/1/21	2.91	1.33	2.16	5.85	-6.15	-5.48
11/1/21	3.42	0	2.1	0	-6.4	-6.28
12/1/21	2.5	1.1	2.11	-2.01	-6.39	-4.75
1/1/22	3.01	1.04	1.78	-2.161	-3.57	-2.43
2/1/22	2.61	0	1.54	0	0	0
3/1/22	2.39	-8.56	1.61	0	0	0
4/1/22	2.23	-8.56	1.14	0	0	0

Table 2-5 - Summary of Monthly Water Levels for the Monitoring Wells

	MW-1 (feet NAVD)			MW-2 (feet NAVD)		
Month	Maximum Daily Water Level	Minimum Daily Water Level	Average of Daily Water Level Data	Maximum Daily Water Level	Minimum Daily Water Level	Average of Daily Water Level Data
5/1/22	2.9	1.07	1.93	21.25	-6.65	-0.05
6/1/22	3.1	0	2.01	6.19	-7.17	-6.26
7/1/22	2.61	-8.56	-1.93	20.85	-6.61	-4.35
8/1/22	0	-8.49	-	0	-6.35	-5.63
9/1/22	15.15	-7.69	0.72	-	-	-2.38
11/1/22	0.38	-0.69	-0.19	0.9	-2.57	0.36
12/1/22	0.53	-0.85	-0.29	0.46	-2.82	0.12
1/1/23	0.25	-0.89	-0.45	0.70	-2.63	-0.16
2/1/23	0.02	-0.97	-0.48	0	-2.42	-0.34
3/1/23	0.36	-0.85	-	0.14	-2.64	-0.14
4/1/23	0.43	-0.92	-	0.67	-293	-0.02
5/1/23	0.49	-0.8	-	0.46	-2.51	-0.07
6/1/23	0.75	-0.58	-0.03	2.89	-2.6	0.41
7/1/23	0.33	-0.76	-0.22	0.97	-2.4	0.09
9/1/23	-	-0.51	0.05	1.49	-1.06	0.64
10/1/23	-	-0.49	0.02	1	-	0.51
11/1/23	0.22	-0.75	-0.04	1.5	-1.93	0.45
12/1/23	1.09	-0.77	-0.15	1.67	-1.74	0.34
1/1/24	0.67	-0.87	-0.24	1.89	-2.22	0.43
2/1/24	173	-0.79	-0.32	0.7	-2.16	0.06
3/1/24	0.29	-0.84	-0.35	0.81	-0.57	-0.02
4/1/24	0.4	-0.85	-0.34	0.66	-1.58	0.05
5/1/24	0.29	-0.69	-0.23	0.99	-0.52	0.14
6/1/24	0.65	-0.56	-0.04	3.1	0	0.61
7/1/24	0.54	-0.64	-0.13	1.73	0.1	0.47
8/1/24	1.23	-0.54	0	2.95	-1.51	0.69
9/1/24	2.52	-0.58	0.29	4.35	0	1.17
10/1/24	2.57	-0.62	0.19	4.38	-0.2	1.29
11/1/24	1.12	-0.41	0.51	0.63	-0.56	-0.07

Appendix

Florida Department of Environmental Protection
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

SENT VIA ELECTRONIC MAIL

In the Matter of an Application for Permit by: July 16, 2020

Timothy Fitzsimmons, Chief Executive Officer
Useppa Utility Company
P.O. Box 640
Bokeelia, Florida 33922
tfitz5@comcast.net

FDEP UIC Permit No.: 045884-005-UO/5O
FDEP WACS Facility ID: 98998
Lee County
Class V Injection Well System, IW-1
Operation, Useppa Island RO WTP

NOTICE OF PERMIT

Enclosed is Permit Number 045884-005-UO/5O to operate a Class V Injection Well System.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, (F.S.), by the filing of a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 323993000, agency_clerk@dep.state.fl.us; and by filing a copy of the Notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

PERMITTEE: **Timothy Fitzsimmons, Chief Executive Officer**
Useppa Utility Company
Useppa Island RO WTP

UIC Permit Number: **045884-005-UO/50**
WACS Facility ID: **98998**
Date: **July 16, 2020**

EXECUTING AND CLERKING:

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Joseph Haberfeld

Joseph Haberfeld, P.G.
Aquifer Protection Program
Division of Water Resource Management

CERTIFICATE OF SERVICE

The undersigned duly designated clerk hereby certifies that this NOTICE OF PERMIT and all copies were sent on the filing date Thursday, July 16, 2020, to the following listed persons:

Joseph Haberfeld, FDEP/TLH	*joe.haberfeld@floridadep.gov*
Douglas Thornton, FDEP/TLH	*douglas.thornton@floridadep.gov*
Cindy Fischler, FDEP/TLH	*cindy.fischler@floridadep.gov*
James Dodson, FDEP/TLH	*james.dodson@floridadep.gov*
Nolin Moon, FDEP/SD	*nolin.moon@floridadep.gov*
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Edith Chuy, FDEP/TLH	*edith.chuy@floridadep.gov*
Jason Meadows, USEPA/ATL	*meadows.jasonb@epa.gov*

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section.120.52, Florida Statutes, (F.S.), with the designated Department Clerk, receipt of which is hereby acknowledged.

Lisa Williams
Clerk

07/16/2020
Date

FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

Underground Injection Control
Class V, Group 4, Injection Well System
Operation Permit

Permittee

Timothy Fitzsimmons, Chief Executive Officer
Useppa Utility Company
P.O. Box 640
Bokeelia, Florida 33922
tfitz5@comcast.net

Permit/Certification

UIC Permit Number: 045884-005-UO/5O
WACS Facility ID: 98998
Date of Issuance: July 16, 2020
Date of Expiration: July 16, 2025
Permit Processor: Douglas Thornton

Facility

Useppa Island Reverse Osmosis
Water Treatment Plant
Useppa Island, Florida 33924

Location

County: Lee
Latitude: 26° 39' 40" N
Longitude: 82° 12' 51" W

Project: Class V Injection Well System IW-1.

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and the rules adopted thereunder, particularly Chapter 62-528, Florida Administrative Code (F.A.C.). The above-named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department of Environmental Protection (Department) and made a part hereof and specifically described as follows.

TO OPERATE: A non-hazardous underground injection control (UIC) well system, consisting of one Class V injection well (IW-1) and two associated monitor wells (MW-1 and MW-2) for the disposal of reverse osmosis concentrate from the Useppa Island Reverse Osmosis Water Treatment Plant. The maximum injection rate for IW-1 shall be 50 gallons per minute (GPM) and the maximum injection volume for IW-1 shall be 0.072 million gallons per day (MGD). The injection well is constructed with a 10-inch diameter PVC casing set to 50 feet below land surface (bls) with a cemented annulus and total depth of 60 feet bls. A single-zone monitor well (MW-1) is completed in the Surficial aquifer from 5 to 15 feet bls. A single-zone monitor well (MW-2) is completed in the Surficial aquifer from 2 to 7 feet bls.

IN ACCORDANCE WITH: The Application to Operate DEP Form No. 62-528.900(1) received, July 29, 2019, response to the Department's request for additional information dated September 19, 2019, and supporting information submitted to the Aquifer Protection Program (APP) Tallahassee office.

LOCATION: Useppa Island Reverse Osmosis Water Treatment Plant, Useppa Island, Florida 33924, in Lee County.

The injection and monitor wells, as designated below by Well Name and Water Assurance Compliance System (WACS) Testsite identification (ID), and construction details at this facility are designated as follows:

Injection Well(s; IW)

Well Name	WACS Effluent Testsite ID	Total Well Depth (feet bls)	Casing Diameter (in)	Casing or Tubing Type	Casing Depth or Interval (feet bls)
IW-1	13974	60	10	SCH 40 PVC	50
			Open Hole		50 – 60

Injection Well Notes: Constructed with new, unused Schedule 40 PVC fully cemented to land surface. When initially drilled as an exploratory well, borehole extended to a depth of 180 feet bls and was backfilled with cement grout to 60 feet bls.

Monitor Well(s; MW)

Well Name	WACS monitor well Testsite ID	Monitoring Zone	Casing Diameter (in)	Casing Type	Casing Depth (feet bls)	Monitoring Depth (feet bls)
MW-1			2	PVC	15	
	29017A	Surficial Aquifer				5 – 15
MW-2			2	PVC	2	
	29018A	Surficial Aquifer				2 – 7

Monitor Well Notes: constructed with new, unused Schedule 40 PVC with an annulus fully cemented to land surface.

SUBJECT TO: Specific Conditions I-VI and General Conditions 1-24.

Specific Conditions

I. OPERATING REQUIREMENTS

A. General

1. Only non-hazardous injectate as described in this permit and purge water from the on-site monitoring wells (associated with the injection well system) may be discharged into the injection wells. *[62-528.400(1), F.A.C.]*

2. The flow to the injection wells at each wellhead shall be monitored and controlled at all times to ensure the maximum fluid velocity down the well during operation does not exceed the respective flow rate indicated below, and shall not exceed 10 feet per second except during planned testing, maintenance, or emergency conditions in which case the flow rate shall not exceed 12 feet per second:

Well	Peak Flow Rate	
	GPM	MGD
IW-1	50	0.072

[62-528.415(1)(f), F.A.C.]

3. No underground injection is allowed that causes or allows movement of fluid into an underground source of drinking water (USDW) if such fluid movement may cause a violation of any Primary or Secondary Drinking Water Standard unless otherwise exempted or permitted, or may otherwise affect the health of persons. *[62-528.440(2)(c), F.A.C.]*

4. All equipment of this facility shall be operated and maintained so as to function consistently as designed in removing pollutants. The wastewater stream shall remain non-hazardous at all times. *[62-528.307(3)(b) and 62-528.400(1), F.A.C.]*

5. In the event a well must be plugged or abandoned, the permittee shall obtain a permit from the Department as required by Chapter 62-528, (F.A.C.). When no longer used for their intended purpose, these wells shall be properly plugged and abandoned. Within 180 days of well abandonment, the permittee shall submit to the Department the proposed plugging method, pursuant to Rule 62-528.460, F.A.C. *[62-528.460(1) and 62-528.435(6), F.A.C.]*

6. In accordance with Rules 62-4.090 and 62-528.455(3)(a), F.A.C., the permittee shall submit an application for permit renewal at least 60 days prior to expiration of this permit. *[62-528.307(3)(a), F.A.C.]*

7. Hurricane Preparedness: Preparations to be made by permittee upon issuance of a "Hurricane Watch" by the National Weather Service include, but are not limited to:
   a. Secure all onsite salt and other stockpiled additive materials to prevent surface and/or ground water contamination.
   b. Properly secure equipment to prevent damage to well(s) and onsite treatment process equipment.

   [62-528.307(1)(f), F.A.C.]

B. Surface Equipment

1. The integrity of the monitoring zone sampling systems shall be maintained at all times. Sampling lines shall be clearly and unambiguously identified by monitoring zone at the point at which samples are drawn. All reasonable and prudent precautions shall be taken to ensure that samples are properly identified by monitoring zone and that samples obtained are representative of those zones. Sampling lines and equipment shall be kept free of contamination with independent discharges and no interconnections with any other lines.
   [62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]

2. The surface equipment for each injection well disposing of domestic (municipal) effluent shall maintain compliance with Rule 62-600.540(4), F.A.C., for water hammer control, screening, access for logging and testing, and reliability and flexibility in the event of damage to the well and effluent piping.
   [62-600.540(4), 62-528.307(1)(f), and 62-528.307(3)(b), F.A.C.]

3. Injection wells not disposing of domestic (municipal) effluent shall maintain compliance with Rule 62-528.450(2)(j), F.A.C., for water hammer control, as well as access for logging and testing, and reliability and flexibility in the event of damage to the well and effluent piping.
   [62-528.450(2)(j), 62-528.307(1)(f), and 62-528.307(3)(b), F.A.C.]

4. The surface equipment and piping for the injection and monitoring wells shall be kept free of corrosion at all times.
   [62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]

5. Spillage onto the injection well pad(s) during construction activities, and any waters spilled during mechanical integrity testing, maintenance, testing, or repairs to the system(s) shall be contained on the pad(s) and directed to a sump which in turn discharges to the pumping station wet well, or via other approved means to the injection well system, or by another method approved by the Department. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*

6. The injection well pads are not, unless specific approval is obtained from the Department, to be used for storage of any material or equipment at any time.
   [62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]

II. QUALITY ASSURANCE/QUALITY CONTROL

1. The permittee shall ensure that the operation of this injection well system shall be as described in the application and supporting documents. Any proposed modifications to the permit, construction procedures, testing procedures, completion procedures, operation procedures, or any additional work not described in the application or supporting documents shall be submitted in writing to the Tallahassee office of the Aquifer Protection Program for review and clearance prior to implementation. Changes of negligible impact to the environment and staff time will be reviewed by the program manager, cleared when appropriate and incorporated into this permit. Changes or modifications other than those described above will require submission of a completed application and appropriate processing fee as per Rule 62-4.050, F.A.C. *[62-4.050, F.A.C.]*

2. Proper operation and maintenance include effective performance and appropriate quality assurance procedures; adequate operator staffing and training; and adequate laboratory and process controls. *[62-528.307(3)(b), F.A.C.]*

3. All water quality samples required by this permit shall be collected in accordance with the appropriate Department Standard Operation Procedures (SOP), pursuant to Rule 62-160.210, F.A.C., *Approved Field Procedures*. A certified laboratory shall conduct the analytical work, as provided by Rule 62-160.300, F.A.C., *Laboratory Certification*. Department approved test methods shall be utilized, unless otherwise stated in this permit. All calibration procedures for field testing and laboratory equipment shall follow manufacturer's instrumentation manuals and satisfy the requirements of the Department SOPs. A listing of the SOPs pertaining to field and laboratory activities is available at the FDEP website at: https://floridadep.gov/dear/quality-assurance/content/dep-sops. *[62-4.246, 62-160, F.A.C.]*

4. All indicating, recording and totalizing devices associated with the injection well system shall be maintained in good operating condition and calibrated annually at a minimum. The pressure gauges, flow meter, and chart recorders shall be calibrated using standard engineering methods. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*

5. All reports submitted to satisfy the requirements of this permit shall be signed by a person authorized under Rule 62-528.340(1), F.A.C., or a duly authorized representative of that person under Rule 62-528.340(2), F.A.C. All reports required by this permit which are submitted to the Department shall contain the following certification as required by Rule 62-528.340(4), F.A.C.:

   I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the

information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

[62-528.340(1), (2), and (4), F.A.C.]

6. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department as being more representative of ground water conditions. *[62-520.310(5), F.A.C.]*

III. TESTING AND REPORTING REQUIREMENTS

A. General

1. The permittee shall submit monthly to the Department the results of all injection well and monitoring well data required by this permit no later than the last day of the month immediately following the month of record. The report shall include:
   a. A cover page summarizing the current status of all monthly activities, including, but not limited to, the certification and signature required in condition II.5.
   b. Operational and water quality data in a tabular format. The following identifying information must be included on each data sheet:
      i. Facility Name
      ii. Well Name
      iii. UIC Permit Number
      iv. WACS Facility ID
      v. WACS Testsite ID number (on appropriate data sheet) as provided on the Injection Well and Monitoring Well tables on page 2 of this permit.
   c. Laboratory pages and original supporting documentation including DEP Form FD 9000-24, *Groundwater Sampling Log*, for the purging of each monitor well.

[62-528.307(3)(d), F.A.C.]

2. The report may be sent via electronic mail in Adobe™ (.pdf) format to the following Program e-mail addresses:

South District Office	SouthDistrict@dep.state.fl.us
Tallahassee - UIC Program	TAL_UIC@dep.state.fl.us

If a paper copy of the report is submitted, it should be sent to Department staff at the following addresses:

South District Office	2295 Victoria Avenue, Suite 364, Ft. Myers, Florida 33901-3875
Tallahassee - UIC Program	2600 Blair Stone Road, MS 3530 Tallahassee, Florida, 32399-2400

[62-528.307(3)(d), F.A.C.]

B. Monitoring

1. The injection system shall be monitored in accordance with Rules 62-528.425(1)(g) and 62-528.430(2), F.A.C. The following injection well performance data and monitor zone data shall be recorded and reported in the Monthly Operating Report (MOR) as indicated below. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. *[62-528.307(3)(d) and 62-528.430(2), F.A.C.]*

PARAMETER	UNIT	RECORDING FREQUENCY OR SAMPLING METHOD	FREQUENCY OF ANALYSES		
			IW-1 *13974*	MW-1 *29017A*	MW-2 *29018A*
Injection Well Pressure, max.	psi	continuous	D/M [a]		
Injection Well Pressure, min.	psi	continuous	D/M [a]		
Injection Well Pressure, avg.	psi	continuous	D/M [a]		
Flow Rate, max.	gpm	daily	D/M		
Volume Injected	MG	daily/monthly	D/M		
Water Level or Pressure, max.	ft NAVD or psi	continuous		D/M [a]	D/M [a]
Water Level or Pressure, min.	ft NAVD or psi	continuous		D/M [a]	D/M [a]
Water Level or Pressure, avg.	ft NAVD or psi	continuous		D/M [a]	D/M [a]
pH [b]	std. units	grab/purge	M	M	M
Specific Conductance [b]	µmhos/cm	grab/purge	M	M	M
Temperature [b]	°C	grab/purge	M	M	M
Chloride	mg/L	grab/purge	M	M	M
Sulfate	mg/L	grab/purge	M	M	M
Total Dissolved Solids	mg/L	grab/purge	M	M	M
Gross Alpha	pCi/L	grab/purge	Q	S	S
Radium^{226}	pCi/L	grab/purge	Q	S	S
Radium^{228}	pCi/L	grab/purge	Q	S	S

D – daily; M – monthly; Q – Quarterly; S – Semiannual (twice per year)

[a] – Operational data reporting for pressures and water levels: daily max, min and average from continuous reporting; monthly max, min and average (calculated from daily averages).

[b] – Field samples

Refer to the Tables on Page 2 for the appropriate WACS testsite IDs to be used for reporting.

2. Monitor well purging and field stabilization parameter measurement is required prior to the collection of laboratory samples for the Monthly Operating Reports (MORs). The facility shall conduct the monitor well sampling following the monitor well sampling protocols taken from FS 2200-Groundwater Sampling in the DEP-SOP-001/01 Field Sampling Procedures Manual. The following protocol for UIC monitor wells is based on this standard and the facility shall follow this purging protocol. The results of the purging techniques and field stabilization parameters shall be provided on DEP Form FD 9000-24 or a similar alternative approved by DEP, and the completed forms shall be submitted to DEP with the MORs.
    a. Calculate the volume of water in the well casing (or sample pipe if installed), and the monitoring interval. For dual zone monitor wells calculate the upper monitor zone volume with allowance for reduced volume due to the hollow cylinder created by the lower zone tubing. Purge until the water level has stabilized (well recovery rate equals the purge rate), purging a minimum of one well volume, and then collect the first set of stabilization parameters.
    b. Thereafter, collect stabilization parameters after every ¼ well volume beyond the initial one volume.
    c. Purging shall be complete when three consecutive readings of the parameters listed below are within the following ranges[1] **and** a minimum of 1.5 well casing volumes of fluid since the beginning of purging have been evacuated from the monitoring well:
        - pH ± 0.2 Standard Units
        - Specific Conductance ± 5.0% of reading
        - Temperature ± 0.2° C
        - Dissolved Oxygen ≤ 20% Saturation or ± 0.2 mg/L
        - Turbidity ≤20 NTU
    d. If necessary, continue to take the above readings every additional ¼ well volume until three consecutive readings meet the above criteria.
    e. Typical field conditions may not allow the temperature parameter to be met. The sampling team leader may decide whether to collect a sample if a parameter has not been met (DEP SOP FS2212 Section 3.6). Documentation as to why the sample was collected without meeting a field parameter must be recorded in the groundwater sampling log.
    f. If three consecutive ¼ well volume readings have not reached the stabilization criteria listed above by the time the fifth well volume has been reached, the monitoring well sample shall be taken, and document the reason(s) in the groundwater sampling log.

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[1] Provided dissolved oxygen in the groundwater of the zone being monitored is ≤ 20% of saturation for the measured temperature and turbidity is ≤ 20 NTUs. This assumption holds true for groundwater in most zones of the Floridan aquifer.

g. If a sampling pipe is used for purging, the sampling pipe volume will substitute for the well casing volume.

The Department will consider an alternate purging method meeting monitor well sampling protocol in FS 2200-Groundwater Sampling in the DEP-SOP-001/01 Field Sampling Procedures Manual in the case where the above procedure causes a hardship to the facility. The permittee shall request an alternate method and receive written Department approval before implementing it. *[62-160.210(1) and 62-528.430(2), F.A.C.]*

3. The flow from the monitoring zones during well evacuation and sampling shall not be discharged to surface waters or aquifers containing an underground source of drinking water. Waters purged from monitoring wells in preparation for sampling shall be diverted to the injection well head via the pad drainage system, wet well, or treatment plant. *[62-4.030, 62-620.320, F.A.C.]*

IV. ABNORMAL EVENTS

1. In the event the permittee is temporarily unable to comply with any of the conditions of a permit due to breakdown of equipment, power outages or destruction by hazard of fire, wind, or by other cause, the permittee of the facility shall notify the South District Office. *[62-528.415(4)(a), F.A.C.]*
2. Notification shall be made in person, by telephone, or by electronic mail (e-mail) within 24 hours of breakdown or malfunction to the South District Office. *[62-528.307(1)(x), F.A.C.]*
3. A written report of any noncompliance referenced in Specific Condition Number VII.1. above shall be submitted to the South District Office and the APP Tallahassee office within five days after its occurrence. The report shall describe the nature and cause of the breakdown or malfunction, the steps being taken or planned to be taken to correct the problem and prevent its reoccurrence, emergency procedures in use pending correction of the problem, and the time when the facility will again be operating in accordance with permit conditions. *[62-528.415(4)(b), F.A.C.]*
4. **Reporting Requirements**

The permittee shall report to the Department's South District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to

continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

a. The following shall be included as information which must be reported within 24 hours under this condition:
   1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
   2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
   3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
   4) Any unauthorized discharge to surface or ground waters.

b. Oral reports as required by this subsection shall be provided as follows:
   1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the STATE WATCH OFFICE TOLL FREE NUMBER 800-320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Watch Office:
      a) Name, address, and telephone number of person reporting;
      b) Name, address, and telephone number of permittee or responsible person for the discharge;
      c) Date and time of the discharge and status of discharge (ongoing or ceased);
      d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
      e) Estimated amount of the discharge;
      f) Location or address of the discharge;
      g) Source and cause of the discharge;
      h) Whether the discharge was contained on-site, and cleanup actions taken to date;
      i) Description of area affected by the discharge, including name of water body affected, if any; and
      j) Other persons or agencies contacted
   2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's South District office within 24 hours from the time the permittee becomes aware of the circumstances.

c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the

environment, the Department's South District office shall waive the written report.

[403.077(2)(d), F.S., 62-528.307(1)(e) and 62-528.307(1)(x), F.A.C.]

5. **Pollution Notification**

   a. In accordance with subsection 403.077, F.S., in the event of a reportable pollution release, an owner or operator of the installation at which the reportable pollution release occurs must provide to the department information reported to the State Watch Office within the Division of Emergency Management pursuant to any department rule, permit, order, or variance, within 24 hours after the owner's or operator's discovery of such reportable pollution release. The Department's Pollution Notice website is at https://floridadep.gov/pollutionnotice.

   b. If multiple parties are subject to the notification requirements based on a single reportable pollution release, a single notification made by one party in accordance with this section constitutes compliance on behalf of all parties subject to the requirement. However, if the notification is not made in accordance with this section, the department may pursue enforcement against all parties subject to the requirement.

   c. If, after providing notice pursuant to paragraph (a), the owner or operator of the installation determines that a reportable pollution release did not occur or that an amendment to the notice is warranted, the owner or operator may submit a letter to the department documenting such determination.

   d. If, after providing notice pursuant to paragraph (a), the installation owner or operator discovers that a reportable pollution release has migrated outside the property boundaries of the installation, the owner or operator must provide an additional notice to the department that the release has migrated outside the property boundaries within 24 hours after its discovery of the migration outside of the property boundaries.

[403.077(2)(d), F.S., 62-528.307(1)(e) and 62-528.307(1)(x), F.A.C.]

V. EMERGENCY DISPOSAL

1. All applicable federal, state and local permits must be in place to allow for any alternate discharges due to emergency or planned outage conditions. *[62-528.415(4)(c)1, F.A.C.]*

2. Any proposed changes in emergency disposal methods shall be submitted to the South district office and the Tallahassee office for review and approval prior to implementation. *[62-528.415(4)(c), F.A.C.]*

3. The emergency disposal method must be fully operational in the event of planned or emergency outages of the injection well system. *[62-528.415(4)(c)2, F.A.C.]*

General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to section 403.141, F.S. *[62-528.307(1)(a), F.A.C.]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action. *[62-528.307(1)(b), F.A.C.]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit. *[62-528.307(1)(c), F.A.C.]*
4. This permit conveys no title to land, water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-528.307(1)(d), F.A.C.]*
5. This permit does not relieve the permittee from liability for harm to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties there from; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. *[62-528.307(1)(e), F.A.C.]*
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, or are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules. *[62-528.307(1)(f), F.A.C.]*
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

a. Have access to and copy any records that must be kept under conditions of this permit;
b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
d. Reasonable time will depend on the nature of the concern being investigated.

[62-528.307(1)(g), F.A.C.]

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
   a. A description of and cause of noncompliance; and
   b. The period of noncompliance, including dates and times; or, if not corrected the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent the recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

   [62-528.307(1)(h), F.A.C.]

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.*[62-528.307(1)(i), F.A.C.]*

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. *[62-528.307(1)(j), F.A.C.]*

11. This permit is transferable only upon Department approval in accordance with rules 62-4.120 and 62-528.350, F.A.C. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.*[62-528.307(1)(k), F.A.C.]*

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.*[62-528.307(1)(l), F.A.C.]*

13. The permittee shall comply with the following:
    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records shall be extended automatically unless the Department determines that the records are no longer required.
    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
    c. Records of monitoring information shall include:
        1) the date, exact place, and time of sampling or measurements;
        2) the person responsible for performing the sampling or measurements;
        3) the dates analyses were performed;
        4) the person responsible for performing the analyses;
        5) the analytical techniques or methods used;
        6) the results of such analyses.
    d. The permittee shall furnish to the Department, within the time requested in writing, any information which the Department requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
    e. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

    [62-528.307(1)(m), F.A.C.]

14. All applications, reports, or information required by the Department shall be certified as being true, accurate, and complete. *[62-528.307(1)(n), F.A.C.]*

15. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each scheduled date. *[62-528.307(1)(o), F.A.C.]*

16. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *[62-528.307(1)(p), F.A.C.]*

17. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-528.307(1)(q), F.A.C.]*

18. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. *[62-528.307(1)(r), F.A.C.]*

19. This permit may be modified, revoked and reissued, or terminated for cause, as provided in 40 C.F.R. sections 144.39(a), 144.40(a), and 144.41 (1998). The filing of a request by the permittee for a permit modification, revocation or reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. *[62-528.307(1)(s), F.A.C.]*

20. The permittee shall retain all records of all monitoring information concerning the nature and composition of injected fluid until five years after completion of any plugging and abandonment procedures specified under rule 62-528.435, F.A.C. The permittee shall deliver the records to the Department office that issued the permit at the conclusion of the retention period unless the permittee elects to continue retention of the records. *[62-528.307(1)(t), F.A.C.]*

21. All reports and other submittals required to comply with this permit shall be signed by a person authorized under rules 62-528.340(1) or (2), F.A.C. All reports shall contain the certification required in rule 62-528.340(4), F.A.C. *[62-528.307(1)(u), F.A.C.]*

22. The permittee shall notify the Department as soon as possible of any planned physical alterations or additions to the permitted facility. In addition, prior approval is required for activities described in rule 62-528.410(1)(h). *[62-528.307(1)(v), F.A.C.]*

23. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or injection activity which may result in noncompliance with permit requirements. *[62-528.307(1)(w), F.A.C.]*

24. The permittee shall report any noncompliance which may endanger health or the environment including:
    a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or
    b. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

    Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
    [62-528.307(1)(x), F.A.C.]

Issued this 16th day of July 2020
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Joseph Haberfeld

Joseph Haberfeld, P.G.
Aquifer Protection Program
Division of Water Resource Management

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO:	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

FLORIDA DEPARTMENT OF
Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Alexis A. Lambert
Secretary

Facility Name: Useppa Island RO WTP Class V Injection Well IW-1
Permit Number: 045884-005-UO/5O
WACS Number: 98998
County: Lee

RE: Permit Renewal Reminder Notice

Mr. Donald Beckstead,

The Underground Injection Control permit, 045884-005-UO/5O, expires on July 16th, 2025 (see attached permit). A timely renewal of a permit must be made **at least 60 days prior to the expiration date** as per Rule 62-4.090, F.A.C. A timely application is one in which the following are received at least 60 days prior to the expiration date:

- An application form signed by a person meeting the definition of a signatory in Rule 62-528.340(1), F.A.C. If one is not already on file, a Letter of Authorization is required.
- The Professional Engineer section of application form 62-528.900(1) containing the name, signature, and seal of the Engineer.
- A check made out to the Florida Department of Environmental Protection or FDEP for the correct amount as per Rule 62-4.050(4)(m), F.A.C. The fee may also be paid online at the FDEP Business portal after the receipt of the application.

If the application is for the UIC facility's first operation permit, the application is **not** a renewal under Rule 62-4.090, F.A.C., and should be made six to nine months prior to the construction permit expiration. In this case, continued operations under the construction/testing permit is **not** authorized beyond the construction permit expiration date.

It will greatly facilitate processing if all information can be transmitted electronically (except the check), preferably using a pdf or Adobe® file, or a CD. Mailed permit applications and checks must be sent to the Tallahassee office of the Department at the address shown below.

E-mail the pdf permit application to the people listed below on the cc: list.

or

Attachment 4-2
Communication Date 06/13/25

Send a CD and check to:
Richard Lobinske
Environmental Administrator
Aquifer Protection Program
Florida Department of Environmental Protection
2600 Blair Stone Road, Mail Station 3500
Tallahassee, Florida 32399-2400
Phone: 850-245-8655
Email Address: Richard.Lobinske@FloridaDEP.gov

Sincerely,

Cheryl Greenwell
Environmental Specialist II
Aquifer Protection Program
Florida Department of Environmental Protection
2600 Blair Stone Road, Mail Station 3500
Tallahassee, Florida 32399-2400
Phone: 850-245-8180
Email Address: Cheryl.Greenwell@FloridaDEP.gov

Cc:

Richard Lobinske, FDEP/TLH	Richard.Lobinske@FloridaDEP.gov
James Dodson, FDEP/TLH	James.Dodson@FloridaDEP.gov
Gabriele Starrach FDEP/SD	Gabriele.Starrach@FloridaDEP.gov

FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

Facility Name: Useppa Island RO Water Treatment Plant Class V Injection Well IW-1
Permit Number: 045884-005-UO/5O
WACS Number: 98998
County: Lee

RE: Permit Renewal Reminder Notice

Mr. Fitzsimmons,

The Underground Injection Control permit, 045884-005-UO/5O, expires on July 16th, 2025, (see attached permit). A timely renewal of a permit must be made **at least 60 days prior to the expiration date** as per Rule 62-4.090, F.A.C. A timely application is one in which the following are received at least 60 days prior to the expiration date:

- An application form signed by a person meeting the definition of a signatory in Rule 62-528.340(1), F.A.C. If one is not already on file, a Letter of Authorization is required.
- The Professional Engineer section of application form 62-528.900(1) containing the name, signature, and seal of the Engineer.
- A check made out to the Florida Department of Environmental Protection or FDEP for the correct amount as per Rule 62-4.050(4)(m), F.A.C. The fee may also be paid online at the FDEP Business portal after the receipt of the application.

If the application is for the UIC facility's first operation permit, the application is **not** a renewal under Rule 62-4.090, F.A.C., and should be made six to nine months prior to the construction permit expiration. In this case, continued operations under the construction/testing permit is **not** authorized beyond the construction permit expiration date.

It will greatly facilitate processing if all information can be transmitted electronically (except the check), preferably using a pdf or Adobe® file, or a CD. Mailed permit applications and checks must be sent to the Tallahassee office of the Department at the address shown below.

E-mail the pdf permit application to the people listed below on the cc: list.

or

Date: October 22, 2024

Attachment 4-2
Communication Date 10/22/24

Send a CD and check to:
Richard Lobinske
Environmental Administrator
Aquifer Protection Program
Florida Department of Environmental Protection
2600 Blair Stone Road, Mail Station 3500
Tallahassee, Florida 32399-2400
Phone: 850-245-8655
Email Address: Richard.Lobinske@FloridaDEP.gov

Sincerely,

Cheryl Greenwell
Environmental Specialist II
Aquifer Protection Program
Florida Department of Environmental Protection
2600 Blair Stone Road, Mail Station 3500
Tallahassee, Florida 32399-2400
Phone: 850-245-8180
Email Address: Cheryl.Greenwell@FloridaDEP.gov

Cc:

Richard Lobinske, FDEP/TLH	Richard.Lobinske@FloridaDEP.gov
James Dodson, FDEP/TLH	James.Dodson@FloridaDEP.gov
Annette Solveigh, FDEP/TLH	Annette.Solveigh@FloridaDEP.gov
Nolin Moon, FDEP/SD	Nolin.Moon@FloridaDEP.gov

Date: October 22, 2024

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

February 19, 2024

Donald Beckstead, President
Useppa Utility Company
P.O. Box 640
Bokeelia, FL 33922
DBeckstead@useppa.com

Re: Return to Compliance Letter
Useppa Island RO WTP
Permit: 045884-005-UO/5O
WACS ID: 98998
Lee County - UIC

Dear Mr. Beckstead:

Department personnel conducted a Bi-Annual inspection of the above-referenced facility on May 8, 2023. Based on the information provided during and following this inspection, the facility was determined to be in compliance for this inspection. A link to the inspection report is below for your records and any non-compliance items which may have been identified at the time of this inspection have been corrected.

The Department appreciates your compliance efforts. Should you have any questions or comments, please contact Robert Reid of the South District Office at (239) 344-5656 or via e-mail at Robert.B.Reid@FloridaDEP.gov.

Sincerely,

Landon Reigelman
Environmental Manager
South District Office
Florida Department of Environmental Protection

Attachment 4-2
Communication Date 02/19/24

Enclosures: June 1, 2023 CAO Letter (https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=35.144847.1]&[profile=Discovery_Compliance])"

cc: Billy Gay, Useppa Utility, BGay@useppa.com
Lina Quintero, US Water Services Corporation, LQuintero@uswatercorp.net
Natalie Harvey, US Water Services Corporation, NHarvey@uswatercorp.net
Selina Makofsky, US Water Services Corporation, SMakofsky@uswatercorp.net
William Edwards, US Water Services Corporation, WJEdwards@uswatercorp.net
Jonathan Schmidt, US Water Services Corporation, JSchmidt@uswatercorp.net

Reid, Robert B

From: Billy Gay <bgay@useppa.com>
Sent: Monday, February 12, 2024 3:12 PM
To: Reid, Robert B
Cc: Donald Beckstead
Subject: Re: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Thr new well head was installed November 1st 2023, I used a special made well head ordered from Core & Main, new stainless steel bolts and a new 10 inch gasket. The well was down for approximately 1 hour

Sent from Samsung Galaxy smartphone.
Get Outlook for Android

Billy Gay
Utility Manager

Useppa Island Club
PO Box 640, Bokeelia, FL 33922

Email: bgay@useppa.com

Main: (239) 283-1061
Direct: (239) 308-9235
Web: www.useppa.com

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Monday, February 12, 2024 3:07:38 PM
To: Billy Gay <bgay@useppa.com>
Cc: Donald Beckstead <dbeckstead@useppa.com>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good afternoon, Billy,

To accurately document the Utility's UIC well head replacement, the Department requests a summary of the work performed that includes the materials used, the dates the work was performed and the total time the injection well was offline.

If I can be of any assistance, please contact me.

Kindest regards,

Attachment 4-2
Communication Date 02/12/24

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Billy Gay <bgay@useppa.com>
Sent: Monday, February 12, 2024 8:18 AM
To: Natalie Harvey <nharvey@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Subject: Re: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

I honestly don't know or understand what you want!!! I replaced the well head, it's really just that simple

Sent from Samsung Galaxy smartphone.
Get Outlook for Android

Billy Gay
Utility Manager
Useppa Island Club
PO Box 640, Bokeelia, FL 33922
Email: bgay@useppa.com
Main: (239) 283-1061
Direct: (239) 308-9235
Web: www.useppa.com

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Friday, February 9, 2024 10:34:00 AM
To: Billy Gay <bgay@useppa.com>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good morning Billy,

I received a call from Robert with DEP today requesting an update on the summary of the wellhead replacement work completed.
As mentioned in my previous email, do you have any details on the replacement?
Once we provide the summary to him, Useppa can be placed back into compliance by DEP.
Only a couple sentences on the work completed should be satisfactory.

Thank you,

Natalie Harvey, MSE
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Thursday, December 21, 2023 11:19 AM
To: Billy Gay <bgay@useppa.com>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Donald Beckstead <dbeckstead@useppa.com>; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Thank you Billy for the response. Do you happen to have any details on the wellhead you purchased?
Size, material, manufacturer? That should be sufficient along with date installed.

Thank you,

Natalie Harvey, MSE
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Monday, December 11, 2023 9:31 AM
To: Billy Gay <bgay@useppa.com>; Natalie Harvey <nharvey@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Donald Beckstead <dbeckstead@useppa.com>; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good morning, Natalie,

I appreciate your assistance. I recognize your concerns regarding the O&M manual, and I am available to help you. Since the pressure gauges are new, documentation showing that they are less than a year old and showing that they have been installed on the UIC system are needed. The other item still pending is the written summary of the wellhead replacement work, as described earlier.

Please don't hesitate to contact me with any questions or concerns

Kindest regards,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Billy Gay <bgay@useppa.com>
Sent: Friday, December 8, 2023 11:26 AM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>; Natalie Harvey <nharvey@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Donald Beckstead <dbeckstead@useppa.com>; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>
Subject: Re: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Natalie, I asked Universal Controls to calibrate the pressure gauges on the injection well and they told me because the gauges were new and not a year old that they were still under the factory calibration. They wouldn't do the calibration.

Sent from Samsung Galaxy smartphone.
Get Outlook for Android

Billy Gay
Utility Manager
Useppa Island Club
PO Box 640, Bokeelia, FL 33922
Email: bgay@useppa.com
Main: (239) 283-1061
Direct: (239) 308-9235
Web: www.useppa.com

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Friday, December 8, 2023 11:04:51 AM
To: Natalie Harvey <nharvey@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Donald Beckstead <dbeckstead@useppa.com>; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; Billy Gay <bgay@useppa.com>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good morning,

Thank you for the revised MORs and laboratory reports. These items from the March 27, 2023 compliance assistance offer are resolved.

Kindest regards,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Thursday, December 7, 2023 2:45 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Cc: Lina Quintero <lquintero@uswatercorp.net>; dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; Billy Gay <bgay@useppa.com>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
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Good afternoon Robert,

Yes the wellhead has been completed. Please see attached.

William, can you please coordinate with Billy to get a copy of the pressure gauge calibration?

I will do my best to update the O&M manual but this may require more assistance.

Thank you,

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Natalie Harvey
Sent: Thursday, December 7, 2023 2:35 PM
To: 'South District' <SouthDistrict@dep.state.fl.us>; TAL_UIC@dep.state.fl.us; 'southdistrict@floridadep.gov' <southdistrict@floridadep.gov>; 'TAL_UIC@floridadep.gov' <TAL_UIC@floridadep.gov>
Cc: Lina Quintero <lquintero@uswatercorp.net>; dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; 'Reid, Robert B' <Robert.B.Reid@FloridaDEP.gov>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good afternoon,

Please see the following MORs that have been revised from the Department's request stated in response to the March 27, 2023 Compliance Assistance Offer letter:
(Newly added data is highlighted in yellow for easy reference)

		Comments
Jan-21	Already Submitted	
Feb-21		
Mar-21		
Apr-21	Sampled on 4/15/2021	Please see revised MOR attached
May-21		
Jun-21		
Jul-21	Already Submitted	
Aug-21		
Sep-21		
Oct-21		
Nov-21	Sampled on 11/16/2021	Please see revised MOR attached
Dec-21		
Jan-22	Sampled on 1/13/2022	Please see revised MOR attached
Feb-22		
Mar-22		
Apr-22	Already Submitted	
May-22		
Jun-22		
Jul-22	No data for Q3	Please see revised MOR attached stating ANC for this quarter
Aug-22	No data for Q3	
Sep-22	No data for Q3	
Oct-22		
Nov-22		
Dec-22	Sampled on 12/8/2022	Please see revised MOR attached
Jan-23		
Feb-23	Sampled on 2/14/2023	Please see revised MOR attached
Mar-23		

Additional Requested Revisions from June CAO Letter:

April 2023 MOR – please see laboratory reports and groundwater sampling logs attached.

May 2023 MOR – Please see MW-1 groundwater sampling log attached and IW-1/MW-1/MW-2 radionuclides included in revised MOR.

Thank you,

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Wednesday, December 6, 2023 11:52 AM
To: Natalie Harvey <nharvey@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good morning, Natalie,

Thank you for quick reply and the updates. Has the work on the wellhead been completed?

I see the calibration of the UIC flow meter in the attachments you provided; however, I did not find the pressure gauge calibration. The inspection report requests the following to be included in the O&M manual, in addition to what was provided:

- the WACS Facility ID on the cover page, a summary of the current operating limitations,
- a copy of the current operating permit, copies of (annual) calibration documents,
- SOP's that describe sampling procedures, parameters, and disposal of purge waters.
- an Emergency Plan for well shutdown and equipment failures,
- SOP to ensure emergency disposal does not exceed permitted capacity,
- and Hurricane Preparedness procedures.

[62-528.307(3)(b), F.A.C.]

Please refer to the current permit for conditions, monitoring requirements and limitations. Please copy me on the revised MORs that you submit. I appreciate your assistance and please contact me if you have any questions.

Kindest regards,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Tuesday, December 5, 2023 2:04 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Cc: Lina Quintero <lquintero@uswatercorp.net>; dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good afternoon Robert,

1. *Please provide a current O&M manual for the UIC system. – Please see attached images from UIC O&M Manual*
2. *Please provide updated MORs as stated in response to the March 27, 2023 Compliance Assistance Offer letter.*
3. *Please submit the requested calibration records. – Please see attached*
4. ~~*Please conduct and provide Semi-annual monitoring results of Gross Alpha Particle, Radium 226 and Radium 228 from IW-1, MW-1 and MW-2.**~~
5. *Please revise and re-submit the April monthly operating report to include missing laboratory reports and groundwater sampling logs.*
6. *Please revise and re-submit the May report to include the MW-1 groundwater sampling log and radionuclides and the table of IW-1 radionuclides"*

I will coordinate updating the MORs this week. I was not aware they were not resubmitted to the Department.

Thank you,

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Tuesday, December 5, 2023 11:31 AM
To: dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Reigelman, Landon <Landon.Reigelman@FloridaDEP.gov>; Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>; Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>; Natalie Harvey <nharvey@uswatercorp.net>; Warmke, Daniel <Daniel.Warmke@FloridaDEP.gov>; Dodson, James <James.Dodson@FloridaDEP.gov>; Lobinske, Richard <Richard.Lobinske@FloridaDEP.gov>
Subject: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good morning,

The department has not received the documentation requested on October 6, 2023, outlined below, to resolve items detailed in the facility's inspection report and compliance assistance offer letters, dated March 27, 2023 and June 1, 2023. Please respond by December 15, 2023. Your failure to respond promptly may result in a Warning Letter and the initiation of formal enforcement proceedings.

From the October 6, 2023 correspondence:

"Thank you for the reply. The O&M manual included with your response appears to be specific to the water treatment plant. Please refer to the attached checklist showing the items expected in the O&M manual for the injection well system.

If you have not already done so per the permit, please submit to Tallahassee the plan for replacing the wellhead detailing the work to be performed, the duration the well will be offline, and the date work will be begin. The geologist is Daniel Warmke, who is copied above. Please copy me on the plan submittal as well. When the plan is approved, the work can begin.

Per our telephone conversation today, the following items from the Compliance Assistance Offer Letters are to be resolved ***no later than Friday, October 13, 2023****:*

1. *Please provide a current O&M manual for the UIC system.*
2. *Please provide updated MORs as stated in response to the March 27, 2023 Compliance Assistance Offer letter.*
3. *Please submit the requested calibration records.*
4. ~~*Please conduct and provide Semi-annual monitoring results of Gross Alpha Particle, Radium 226 and Radium 228 from IW-1, MW-1 and MW-2.**~~
5. *Please revise and re-submit the April monthly operating report to include missing laboratory reports and groundwater sampling logs.*
6. *Please revise and re-submit the May report to include the MW-1 groundwater sampling log and radionuclides and the table of IW-1 radionuclides"*

*Semi-annual and quarterly radionuclides results were submitted with the September 2023 MOR. If the IW wellhead has been replaced, please provide a brief construction summary of the date and time construction commenced and ended and the components that were replaced and repaired. Please provide photos of the finished work.

Please contact me with any questions or concerns you may have.

Kindest regards,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Reid, Robert B
Sent: Friday, October 6, 2023 9:59 AM
To: Selina Makofsky <smakofsky@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Reigelman, Landon <Landon.Reigelman@FloridaDEP.gov>; Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>; Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>; Natalie Harvey <nharvey@uswatercorp.net>; Warmke, Daniel <Daniel.Warmke@FloridaDEP.gov>; Dodson, James <James.Dodson@FloridaDEP.gov>; Lobinske, Richard <Richard.Lobinske@FloridaDEP.gov>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good morning,

Thank you for the reply. The O&M manual included with your response appears to be specific to the water treatment plant. Please refer to the attached checklist showing the items expected in the O&M manual for the injection well system.

If you have not already done so per the permit, please submit to Tallahassee the plan for replacing the wellhead detailing the work to be performed, the duration the well will be offline, and the date work will be begin. The geologist is Daniel Warmke, who is copied above. Please copy me on the plan submittal as well. When the plan is approved, the work can begin.

Per our telephone conversation today, the following items from the Compliance Assistance Offer Letters are to be resolved **no later than Friday, October 13, 2023**:

1. Please provide a current O&M manual for the UIC system.
2. Please provide updated MORs as stated in response to the March 27, 2023 Compliance Assistance Offer letter.
3. Please submit the requested calibration records.
4. Please conduct and provide Semi-annual monitoring results of Gross Alpha Particle, Radium 226 and Radium 228 from IW-1, MW-1 and MW-2.
5. Please revise and re-submit the April monthly operating report to include missing laboratory reports and groundwater sampling logs.
6. Please revise and re-submit the May report to include the MW-1 groundwater sampling log and radionuclides and the table of IW-1 radionuclides.

Please contact me with any question or concerns.

Best,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Selina Makofsky <smakofsky@uswatercorp.net>
Sent: Thursday, October 5, 2023 2:10 PM

To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Reigelman, Landon <Landon.Reigelman@FloridaDEP.gov>; Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>; Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>; Natalie Harvey <nharvey@uswatercorp.net>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hello

I apologize for the delay in my response I had been hoping to collect more information for you.

1 – my understanding is that the attached document was sent in on 8/16/23. Is this document unacceptable?
7 – The new well head has been approved by Donald Beckstead and was ordered on 10/3/23. It will be installed upon receipt. (we anticipate completion by the end of the month).

The remaining items are being addressed by various staff. I will provide more information upon receipt.

Selina J. Makofsky
Florida Compliance - Assistant Manager
U.S. Water Services Corporation
4939 Cross Bayou Boulevard
New Port Richey, FL 34652
Office (866) 753-8292 Ext. 229
Cell (727) 836-0048
smakofsky@uswatercorp.net
After hours emergency reporting: 1-866-753-8292

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Tuesday, September 26, 2023 11:59 AM
To: Natalie Harvey <nharvey@uswatercorp.net>
Cc: Selina Makofsky <smakofsky@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Reigelman, Landon <Landon.Reigelman@FloridaDEP.gov>; Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>; Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning,

Following a review of the Utility's response to the DEP Compliance Assistance Offer letter, the below items remain unresolved:

1. Please provide an updated Operation and Maintenance manual.

2. Please provide updated MORs as stated in response to the March 27, 2023 Compliance Assistance Offer letter.
3. Please submit the requested calibration records.
4. Please conduct and provide Semi-annual monitoring results of Gross Alpha Particle, Radium 226 and Radium 228 from IW-1, MW-1 and MW-2.
5. Please revise and re-submit the April monthly operating report to include missing laboratory reports and groundwater sampling logs
6. Please revise and re-submit the May report to include the MW-1 groundwater sampling log and radionuclides and the table of IW-1 radionuclides.
7. Please furnish documentation showing that the wellhead will function as designed and is free of all rust and corrosion. The injection wellhead's rusted surfaces appear to have been painted over. However, since the wellhead's metal was observed to be severely rusted, buckled and cracked at the time of inspection, the Department must have reasonable assurance that it will consistently function as designed.

Please respond by Tuesday, October 3, 2023.

Sincerely,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Monday, July 31, 2023 4:23 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>; South District <SouthDistrict@dep.state.fl.us>
Cc: Selina Makofsky <smakofsky@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good afternoon,

Please see response letter attached for the Useppa Island CAO.

Thank you,

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Friday, June 30, 2023 3:07 PM
To: Natalie Harvey <nharvey@uswatercorp.net>
Cc: Selina Makofsky <smakofsky@uswatercorp.net>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

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Natalie,

Thank you for the request. The new response due date is July 31, 2023. If I can be of further assistance, please don't hesitate to contact me.

Hope you enjoy your weekend too.

Best,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Friday, June 30, 2023 2:58 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Cc: Selina Makofsky <smakofsky@uswatercorp.net>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good afternoon Robert,

I would like to request a time extension for this response letter to the CAO for the Useppa Island RO WTP.
I would like to extend another month and submit the report on July 31st.

Progress is being made, but I want to make sure all the MORs resubmitted and have pictures of the completed items as part of the response for this.

Thank you and have a great weekend!

Sincerely,

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

January 23, 2024

Donald Beckstead, President
Useppa Utility Company
P.O. Box 640
Bokeelia, FL 33922
DBeckstead@useppa.com

Re: Return to Compliance Letter
Useppa Island RO WTP
Permit: 045884-005-UO/5O
WACS ID: 98998
Lee County - UIC

Dear Mr. Beckstead:

Department personnel conducted a File Review of the above-referenced facility on March 2, 2023. Based on the information provided following this review, the facility was determined to be in compliance with this File Review. A copy of the Compliance Assistance Offer Letter is linked below for your records and any non-compliance items which may have been identified at the time of the File Review have been corrected.

The Department appreciates your compliance efforts. Should you have any questions or comments, please contact Robert Reid of the South District Office at (239) 344-5656 or via e-mail at Robert.B.Reid@FloridaDEP.gov.

Sincerely,

Elizabeth Sweigert
Assistant Director of District Management
South District Office
Florida Department of Environmental Protection

Attachment 4-2
Communication Date 01/23/24

Enclosures: March 2, 2023 CAO Letter (https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=35.143264.1]&[profile=Discovery_Compliance])

cc: Billy Gay, Useppa Utility, BGay@useppa.com
Lina Quintero, US Water Services Corporation, LQuintero@uswatercorp.net
Natalie Harvey, US Water Services Corporation, NHarvey@uswatercorp.net
Selina Makofsky, US Water Services Corporation, SMakofsky@uswatercorp.net
William Edwards, US Water Services Corporation, WJEdwards@uswatercorp.net
Jonathan Schmidt, US Water Services Corporation, JSchmidt@uswatercorp.net

Reid, Robert B

From: Reid, Robert B
Sent: Thursday, December 14, 2023 11:06 AM
To: Natalie Harvey
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Natalie,

Thank you for the updates. This item is resolved.

Kindest regards,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

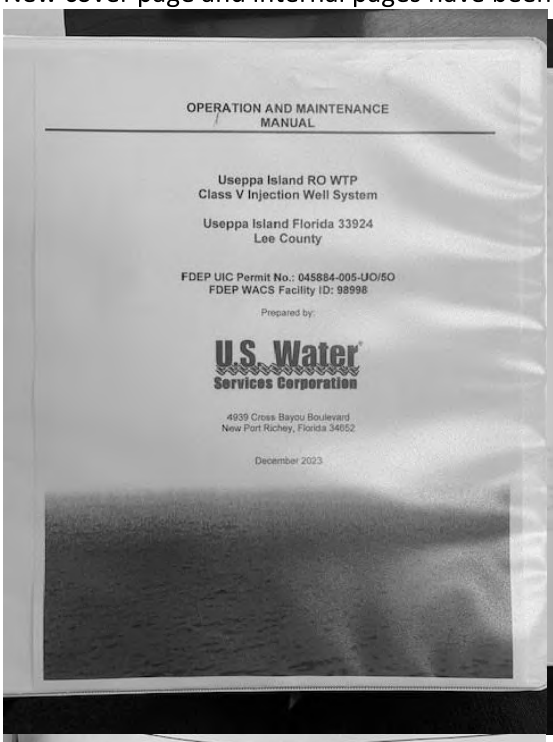
From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Thursday, December 14, 2023 10:56 AM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

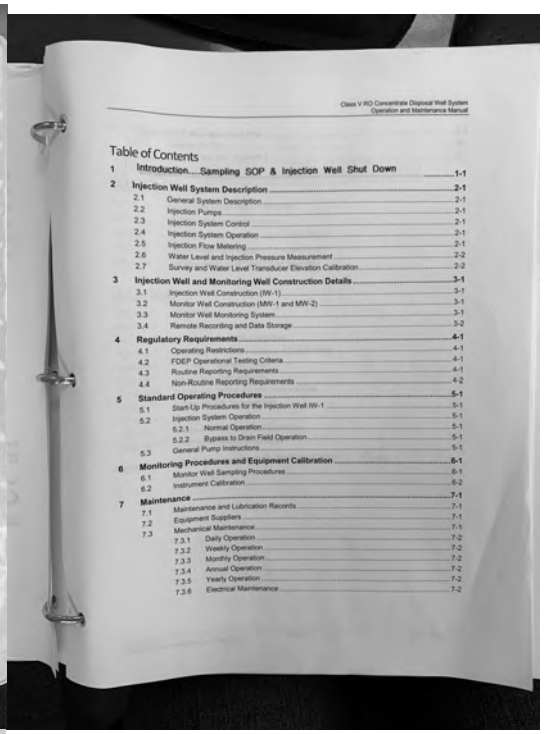
EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

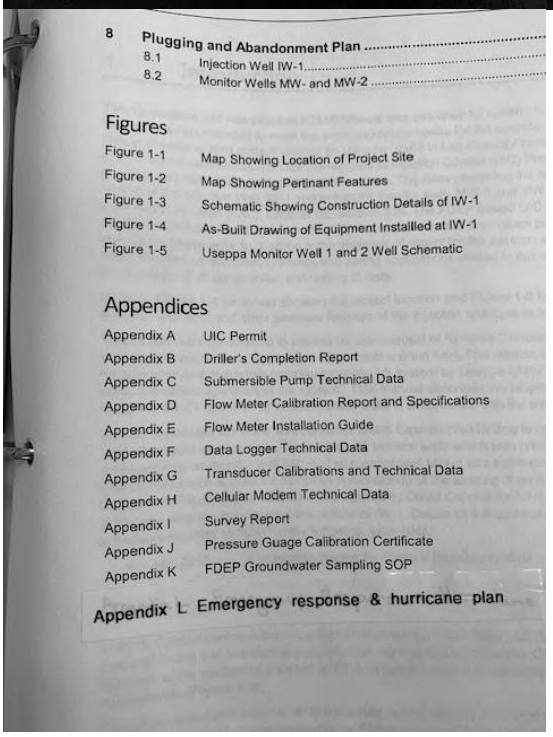
Hi Robert,

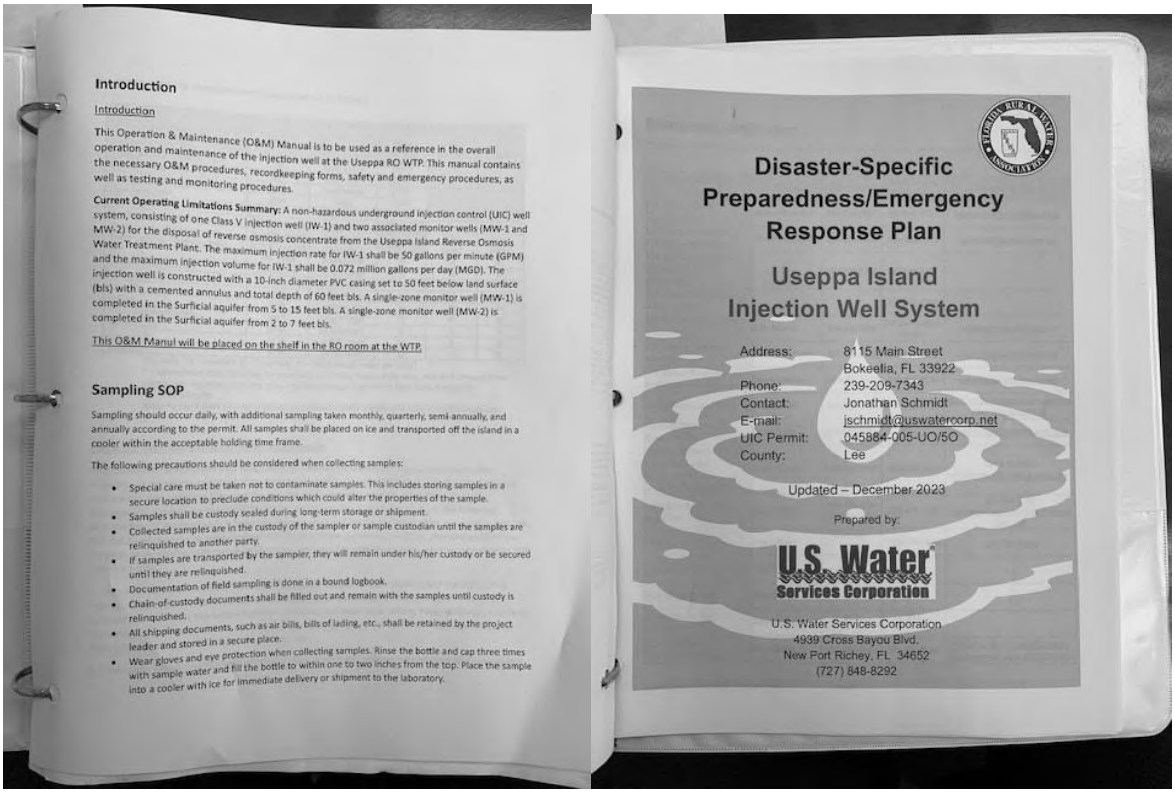
Attachment 4-2
Communication Date 12/14/23

New cover page and internal pages have been added to the O&M Manual:









Introduction

Introduction

This Operation & Maintenance (O&M) Manual is to be used as a reference in the overall operation and maintenance of the injection well at the Useppa RO WTP. This manual contains the necessary O&M procedures, recordkeeping forms, safety and emergency procedures, as well as testing and monitoring procedures.

Current Operating Limitations Summary: A non-hazardous underground injection control (UIC) well system, consisting of one Class V injection well (IW-1) and two associated monitor wells (MW-1 and MW-2) for the disposal of reverse osmosis concentrate from the Useppa Island Reverse Osmosis Water Treatment Plant. The maximum injection rate for IW-1 shall be 50 gallons per minute (GPM) and the maximum injection volume for IW-1 shall be 0.072 million gallons per day (MGD). The injection well is constructed with a 10-inch diameter PVC casing set to 50 feet below land surface (bls) with a cemented annulus and total depth of 60 feet bls. A single-zone monitor well (MW-1) is completed in the Surficial aquifer from 5 to 15 feet bls. A single-zone monitor well (MW-2) is completed in the Surficial aquifer from 2 to 7 feet bls.

This O&M Manul will be placed on the shelf in the RO room at the WTP.

Sampling SOP

Sampling should occur daily, with additional sampling taken monthly, quarterly, semi-annually, and annually according to the permit. All samples shall be placed on ice and transported off the island in a cooler within the acceptable holding time frame.

The following precautions should be considered when collecting samples:

- Special care must be taken not to contaminate samples. This includes storing samples in a secure location to preclude conditions which could alter the properties of the sample.
- Samples shall be custody sealed during long-term storage or shipment.
- Collected samples are in the custody of the sampler or sample custodian until the samples are relinquished to another party.
- If samples are transported by the sampler, they will remain under his/her custody or be secured until they are relinquished.
- Documentation of field sampling is done in a bound logbook.
- Chain-of-custody documents shall be filled out and remain with the samples until custody is relinquished.
- All shipping documents, such as air bills, bills of lading, etc., shall be retained by the project leader and stored in a secure place.
- Wear gloves and eye protection when collecting samples. Rinse the bottle and cap three times with sample water and fill the bottle to within one to two inches from the top. Place the sample into a cooler with ice for immediate delivery or shipment to the laboratory.

Disaster-Specific Preparedness/Emergency Response Plan

Useppa Island Injection Well System

Address: 8115 Main Street, Bokeelia, FL 33922
Phone: 239-209-7343
Contact: Jonathan Schmidt
E-mail: jschmidt@uswatercorp.net
UIC Permit: 045884-005-UO/5O
County: Lee

Updated – December 2023

Prepared by:

U.S. Water Services Corporation
U.S. Water Services Corporation
4939 Cross Bayou Blvd.
New Port Richey, FL 34652
(727) 848-8292

Natalie Harvey, MSE
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

U.S. Water Services Corporation

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Thursday, December 14, 2023 8:01 AM
To: Natalie Harvey <nharvey@uswatercorp.net>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good morning, Natalie,

Those additions will work. When you have the final version, please forward pictures of the updated manual. Thank you, again, for your assistance in resolving these matters from the CAOL. Let me know the status of the remaining two items.

Kindest regards,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Wednesday, December 13, 2023 4:25 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hi Robert,

I have added the capacities in the document below. If this is the last item needed, I will finalize, print, and update the manual to send back to Useppa.

Injection Well Shut Down

Injection Well Shutdown Steps:

1. Shut down RO WTP – Flip HOA switch to off.
2. Turn the concentrate line pump off (make sure standby pump is also off)
3. Close 2" ball valve on injection well

Injection Well Capacity:

Underground Injection Well U-001: An existing 0.054 MGD Daily Maximum Flow permitted capacity underground injection well system consisting of one Class V underground injection well permitted under Department permit number 45884-003-UC, WACS ID 98998 discharging to Class G-III ground water.

Alternate Discharge Procedure

The reverse osmosis concentrate from the water treatment facility is discharged to underground injection well system U-001, permit number 45884-006-IW5C, WACS ID: 98998, with a design capacity of 0.054 MGD. Land application drainfield system G-001 serves as a backup to the injection well.

1. Close valve from WTP to injection well
2. Injection well pumps remain on
3. Open up the ball valve to the emergency drainfield system.
4. If both the injection well and drainfield reach permitted capacity, water production must be halted and the WTP shut down.

Drainfield Capacity:

Land Application G-001: An existing 0.015 MGD Daily Maximum Flow permitted capacity land application drainfield system G-001consisting of a dual cell drainfield. Each cell is 25-feet by 20-feet and are located approximately at latitude 26° 39' 15" N, longitude 82° 12' 45" W. G-001 is used as back up to the underground injection well.

Thank you,

Natalie Harvey, MSE
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

U.S. Water Services Corporation

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Tuesday, December 12, 2023 1:54 PM

To: Natalie Harvey <nharvey@uswatercorp.net>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good afternoon, Natalie,

Thank you for sending me these documents to review. I think they are nearly complete with just some minor details remaining.

Please include the reuse capacities from the attached wastewater permit in the alternate (emergency) discharge description, and detail the procedures to take if the land application capacity limit will be reached. The operator suggested that production would be halted in this scenario, as the injection well's permitted capacity is 0.054 MGD daily maximum flow, while the drainfield is permitted for 0.015 MGD daily maximum flow. Also, the table of contents should be updated to include the new information. I'm happy to review the changes as well.

Please remember to submit a summary of the wellhead replacement work, as I described earlier, and documentation showing the pre-calibrated pressure transducers are less than one-year-old.

Alert me to any further question you may have.

Kindest regards,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Monday, December 11, 2023 4:32 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Thank you Robert for the help! Okay, so this is what I have!

- the WACS Facility ID on the cover page, a summary of the current operating limitations, - check
- a copy of the current operating permit, copies of (annual) calibration documents, - check
- SOP's that describe sampling procedures, parameters, and disposal of purge waters. – check
- an Emergency Plan for well shutdown and equipment failures, - check
- SOP to ensure emergency disposal does not exceed permitted capacity, - check (alternate discharge procedure)
- and Hurricane Preparedness procedures. – part of ERP, check

[62-528.307(3)(b), F.A.C.]

Natalie Harvey

U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Monday, December 11, 2023 10:48 AM
To: Natalie Harvey <nharvey@uswatercorp.net>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Natalie,

These O&M documents were provided for the South Seas facility. Perhaps you can use them as guidelines and customize them for the Emergency Section of the Useppa manual.

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Friday, December 8, 2023 11:07 AM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Yay 😊 Sorry it took so long Robert.

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Friday, December 8, 2023 11:05 AM
To: Natalie Harvey <nharvey@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; Billy Gay <bgay@useppa.com>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning,

Thank you for the revised MORs and laboratory reports. These items from the March 27, 2023 compliance assistance offer are resolved.

Kindest regards,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Thursday, December 7, 2023 2:45 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Cc: Lina Quintero <lquintero@uswatercorp.net>; dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; Billy Gay <bgay@useppa.com>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
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Good afternoon Robert,

Yes the wellhead has been completed. Please see attached.

William, can you please coordinate with Billy to get a copy of the pressure gauge calibration?

I will do my best to update the O&M manual but this may require more assistance.

Thank you,

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Natalie Harvey
Sent: Thursday, December 7, 2023 2:35 PM
To: 'South District' <SouthDistrict@dep.state.fl.us>; TAL_UIC@dep.state.fl.us; 'southdistrict@floridadep.gov' <southdistrict@floridadep.gov>; 'TAL_UIC@floridadep.gov' <TAL_UIC@floridadep.gov>
Cc: Lina Quintero <lquintero@uswatercorp.net>; dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; 'Reid, Robert B' <Robert.B.Reid@FloridaDEP.gov>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good afternoon,

Please see the following MORs that have been revised from the Department's request stated in response to the March 27, 2023 Compliance Assistance Offer letter:
(Newly added data is highlighted in yellow for easy reference)

		Comments
Jan-21	Already Submitted	
Feb-21		
Mar-21		
Apr-21	Sampled on 4/15/2021	Please see revised MOR attached
May-21		
Jun-21		
Jul-21	Already Submitted	
Aug-21		
Sep-21		
Oct-21		
Nov-21	Sampled on 11/16/2021	Please see revised MOR attached
Dec-21		
Jan-22	Sampled on 1/13/2022	Please see revised MOR attached
Feb-22		
Mar-22		
Apr-22	Already Submitted	
May-22		
Jun-22		

Jul-22	No data for Q3	Please see revised MOR attached stating ANC for this quarter
Aug-22	No data for Q3	
Sep-22	No data for Q3	
Oct-22		
Nov-22		
Dec-22	Sampled on 12/8/2022	Please see revised MOR attached
Jan-23		
Feb-23	Sampled on 2/14/2023	Please see revised MOR attached
Mar-23		

Additional Requested Revisions from June CAO Letter:

April 2023 MOR – please see laboratory reports and groundwater sampling logs attached.
May 2023 MOR – Please see MW-1 groundwater sampling log attached and IW-1/MW-1/MW-2 radionuclides included in revised MOR.

Thank you,

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Wednesday, December 6, 2023 11:52 AM
To: Natalie Harvey <nharvey@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good morning, Natalie,

Thank you for quick reply and the updates. Has the work on the wellhead been completed?

I see the calibration of the UIC flow meter in the attachments you provided; however, I did not find the pressure gauge calibration. The inspection report requests the following to be included in the O&M manual, in addition to what was provided:

- the WACS Facility ID on the cover page, a summary of the current operating limitations,
- a copy of the current operating permit, copies of (annual) calibration documents,
- SOP's that describe sampling procedures, parameters, and disposal of purge waters.
- an Emergency Plan for well shutdown and equipment failures,
- SOP to ensure emergency disposal does not exceed permitted capacity,
- and Hurricane Preparedness procedures.

[62-528.307(3)(b), F.A.C.]

Please refer to the current permit for conditions, monitoring requirements and limitations. Please copy me on the revised MORs that you submit. I appreciate your assistance and please contact me if you have any questions.

Kindest regards,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Tuesday, December 5, 2023 2:04 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Cc: Lina Quintero <lquintero@uswatercorp.net>; dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>
Subject: RE: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good afternoon Robert,

1. *Please provide a current O&M manual for the UIC system. – Please see attached images from UIC O&M Manual*
2. *Please provide updated MORs as stated in response to the March 27, 2023 Compliance Assistance Offer letter.*
3. *Please submit the requested calibration records. – Please see attached*
4. ~~*Please conduct and provide Semi-annual monitoring results of Gross Alpha Particle, Radium 226 and Radium 228 from IW-1, MW-1 and MW-2.**~~
5. *Please revise and re-submit the April monthly operating report to include missing laboratory reports and groundwater sampling logs.*
6. *Please revise and re-submit the May report to include the MW-1 groundwater sampling log and radionuclides and the table of IW-1 radionuclides"*

I will coordinate updating the MORs this week. I was not aware they were not resubmitted to the Department.

Thank you,

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Tuesday, December 5, 2023 11:31 AM
To: dbeckstead@useppa.com; Selina Makofsky <smakofsky@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Reigelman, Landon <Landon.Reigelman@FloridaDEP.gov>; Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>; Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>; Natalie Harvey <nharvey@uswatercorp.net>; Warmke, Daniel <Daniel.Warmke@FloridaDEP.gov>; Dodson, James <James.Dodson@FloridaDEP.gov>; Lobinske, Richard <Richard.Lobinske@FloridaDEP.gov>
Subject: Response Required Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good morning,

The department has not received the documentation requested on October 6, 2023, outlined below, to resolve items detailed in the facility's inspection report and compliance assistance offer letters, dated March 27, 2023 and June 1, 2023. Please respond by December 15, 2023. Your failure to respond promptly may result in a Warning Letter and the initiation of formal enforcement proceedings.

From the October 6, 2023 correspondence:

"Thank you for the reply. The O&M manual included with your response appears to be specific to the water treatment plant. Please refer to the attached checklist showing the items expected in the O&M manual for the injection well system.

If you have not already done so per the permit, please submit to Tallahassee the plan for replacing the wellhead detailing the work to be performed, the duration the well will be offline, and the date work will be begin. The geologist is Daniel Warmke, who is copied above. Please copy me on the plan submittal as well. When the plan is approved, the work can begin.

Per our telephone conversation today, the following items from the Compliance Assistance Offer Letters are to be resolved ***no later than Friday, October 13, 2023****:*

1. *Please provide a current O&M manual for the UIC system.*
2. *Please provide updated MORs as stated in response to the March 27, 2023 Compliance Assistance Offer letter.*
3. *Please submit the requested calibration records.*
4. ~~*Please conduct and provide Semi-annual monitoring results of Gross Alpha Particle, Radium 226 and Radium 228 from IW-1, MW-1 and MW-2.**~~
5. *Please revise and re-submit the April monthly operating report to include missing laboratory reports and groundwater sampling logs.*
6. *Please revise and re-submit the May report to include the MW-1 groundwater sampling log and radionuclides and the table of IW-1 radionuclides"*

*Semi-annual and quarterly radionuclides results were submitted with the September 2023 MOR. If the IW wellhead has been replaced, please provide a brief construction summary of the date and time construction commenced and ended and the components that were replaced and repaired. Please provide photos of the finished work.

Please contact me with any questions or concerns you may have.

Kindest regards,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Reid, Robert B
Sent: Friday, October 6, 2023 9:59 AM
To: Selina Makofsky <smakofsky@uswatercorp.net>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Reigelman, Landon <Landon.Reigelman@FloridaDEP.gov>; Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>; Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>; Natalie Harvey <nharvey@uswatercorp.net>; Warmke, Daniel <Daniel.Warmke@FloridaDEP.gov>; Dodson, James <James.Dodson@FloridaDEP.gov>; Lobinske, Richard <Richard.Lobinske@FloridaDEP.gov>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Good morning,

Thank you for the reply. The O&M manual included with your response appears to be specific to the water treatment plant. Please refer to the attached checklist showing the items expected in the O&M manual for the injection well system.

If you have not already done so per the permit, please submit to Tallahassee the plan for replacing the wellhead detailing the work to be performed, the duration the well will be offline, and the date work will be begin. The geologist is Daniel Warmke, who is copied above. Please copy me on the plan submittal as well. When the plan is approved, the work can begin.

Per our telephone conversation today, the following items from the Compliance Assistance Offer Letters are to be resolved **no later than Friday, October 13, 2023**:

1. Please provide a current O&M manual for the UIC system.
2. Please provide updated MORs as stated in response to the March 27, 2023 Compliance Assistance Offer letter.
3. Please submit the requested calibration records.
4. Please conduct and provide Semi-annual monitoring results of Gross Alpha Particle, Radium 226 and Radium 228 from IW-1, MW-1 and MW-2.
5. Please revise and re-submit the April monthly operating report to include missing laboratory reports and groundwater sampling logs.
6. Please revise and re-submit the May report to include the MW-1 groundwater sampling log and radionuclides and the table of IW-1 radionuclides.

Please contact me with any question or concerns.

Best,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Selina Makofsky <smakofsky@uswatercorp.net>
Sent: Thursday, October 5, 2023 2:10 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Cc: Lina Quintero <lquintero@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Reigelman, Landon <Landon.Reigelman@FloridaDEP.gov>; Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>; Starrach, Gabriele <Gabriele.Starrach@FloridaDEP.gov>; Natalie Harvey <nharvey@uswatercorp.net>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
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Hello

I apologize for the delay in my response I had been hoping to collect more information for you.

1 – my understanding is that the attached document was sent in on 8/16/23. Is this document unacceptable?
7 – The new well head has been approved by Donald Beckstead and was ordered on 10/3/23. It will be installed upon receipt. (we anticipate completion by the end of the month).

The remaining items are being addressed by various staff. I will provide more information upon receipt.

Selina J. Makofsky
Florida Compliance - Assistant Manager
U.S. Water Services Corporation
4939 Cross Bayou Boulevard
New Port Richey, FL 34652
Office (866) 753-8292 Ext. 229
Cell (727) 836-0048
smakofsky@uswatercorp.net
After hours emergency reporting: 1-866-753-8292

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Tuesday, September 26, 2023 11:59 AM
To: Natalie Harvey <nharvey@uswatercorp.net>
Cc: Selina Makofsky <smakofsky@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>; Reigelman, Landon <Landon.Reigelman@FloridaDEP.gov>; Newburg, Deanna <Deanna.Newburg@FloridaDEP.gov>; Starrach, Gabriele

<Gabriele.Starrach@FloridaDEP.gov>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

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Good morning,

Following a review of the Utility's response to the DEP Compliance Assistance Offer letter, the below items remain unresolved:

1. Please provide an updated Operation and Maintenance manual.
2. Please provide updated MORs as stated in response to the March 27, 2023 Compliance Assistance Offer letter.
3. Please submit the requested calibration records.
4. Please conduct and provide Semi-annual monitoring results of Gross Alpha Particle, Radium 226 and Radium 228 from IW-1, MW-1 and MW-2.
5. Please revise and re-submit the April monthly operating report to include missing laboratory reports and groundwater sampling logs
6. Please revise and re-submit the May report to include the MW-1 groundwater sampling log and radionuclides and the table of IW-1 radionuclides.
7. Please furnish documentation showing that the wellhead will function as designed and is free of all rust and corrosion. The injection wellhead's rusted surfaces appear to have been painted over. However, since the wellhead's metal was observed to be severely rusted, buckled and cracked at the time of inspection, the Department must have reasonable assurance that it will consistently function as designed.

Please respond by Tuesday, October 3, 2023.

Sincerely,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Monday, July 31, 2023 4:23 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>; South District <SouthDistrict@dep.state.fl.us>
Cc: Selina Makofsky <smakofsky@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>; Jonathan Schmidt <jschmidt@uswatercorp.net>; William Edwards Sr. <wjedwards@uswatercorp.net>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good afternoon,

Please see response letter attached for the Useppa Island CAO.

Thank you,

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

From: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Sent: Friday, June 30, 2023 3:07 PM
To: Natalie Harvey <nharvey@uswatercorp.net>
Cc: Selina Makofsky <smakofsky@uswatercorp.net>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

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Natalie,

Thank you for the request. The new response due date is July 31, 2023. If I can be of further assistance, please don't hesitate to contact me.

Hope you enjoy your weekend too.

Best,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Friday, June 30, 2023 2:58 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>

Cc: Selina Makofsky <smakofsky@uswatercorp.net>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good afternoon Robert,

I would like to request a time extension for this response letter to the CAO for the Useppa Island RO WTP.
I would like to extend another month and submit the report on July 31st.
Progress is being made, but I want to make sure all the MORs resubmitted and have pictures of the completed items as part of the response for this.

Thank you and have a great weekend!

Sincerely,

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

Customer
Service
Survey

U.S. Water Services Corporation

Water and Wastewater Utility Operations, Maintenance, Engineering, Management, Construction

July 31, 2023

Elizabeth Sweigert
Assistant Director of District Management
South District Office
Florida Department of Environmental Protection

Response to Compliance Assistance Offer for Useppa Island RO WTP Permit: 045884-005-UO/5O

Dear Ms. Sweigert,

Below for the Department's review are responses to the deficiencies noted in the Compliance Assistance Offer dated June 1, 2023:

1. Submit to the Department documentation showing the Operation and Maintenance manual has been updated. Updates should include:
   - the WACS Facility ID on the cover page, a summary of the current operating limitations,
   - a copy of the current operating permit, copies of (annual) calibration documents,
   - SOP's that describe sampling procedures, parameters, and disposal of purge waters.
   - an Emergency Plan for well shutdown and equipment failures,
   - SOP to ensure emergency disposal does not exceed permitted capacity,
   - and Hurricane Preparedness procedures.

   [62-528.307(3)(b), F.A.C.]

   Response: The O&M Manual will be updated as requested.

2. Submit updated MORs have not been received as requested in the Compliance Assistance Offer letter dated March 27, 2023. [62.528.307(1)(m), F.A.C.]

   Response: Updated MORs will be submitted to the Department.

3. Submit documentation showing that all indicating, recording, and totaling devices have been calibrated. [62-528.307(1)(f), and 62-528.307(3)(b), F.A.C.]

   Response: Please see attached calibration report for the flow meters.

4. Submit documentation showing the injection well, sampling port, and monitoring wells are properly labeled. [62-528.307(1)(f), F.A.C.]

   Response: All wells have been labeled accordingly.

4939 Cross Bayou Boulevard * New Port Richey * Florida * 34652
Tel: 727-848-8292 Fax: 727-848-7701 Toll Free: 866-753-8292

Attachment 4-2
Communication Date 07/31/23

5. Submit documentation showing replacement of the injection wellhead and repair of the main line that is leaking. [62-528.307(1)(f), F.A.C.]

   Response: The main line has been repaired and wellhead has been sanded and painted.

6. Submit documentation showing all injection well piping and air-release valve are freshly painted and free of rust and corrosion. [62-528.307(1)(f), F.A.C.]

   Response: All injection well piping and air release valve have been painted and are free of rust and corrosion.

7. Submit documentation showing waters from monitor well purging are diverted to the injection well head via a pad drainage system, wet well, or treatment plant. [62-4.030, 62.620.320. F.A.C.]

   Response**:** Water from the monitor wells is disposed at the headworks of the WWTP and injection well waters are disposed back to the injection well.

8. Submit documentation/explanation showing that future monitor well sampling and purging procedures will adhere to those in FS 2200, DEP Sampling SOP.

   Response**:** The past few months of sampling have already exemplified compliance with purging procedures and this will be continued in the future.

If there are any questions or concerns regarding any of the responses, please don't hesitate to contact me via e-mail at nharvey@uswatercorp.net.

Sincerely,

Natalie Harvey
US Water Compliance Assistant

Cavanaugh, Tristan T.

From: Reid, Robert B
Sent: Friday, June 30, 2023 3:07 PM
To: Natalie Harvey
Cc: Selina Makofsky
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

Natalie,

Thank you for the request. The new response due date is July 31, 2023. If I can be of further assistance, please don't hesitate to contact me.

Hope you enjoy your weekend too.

Best,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Natalie Harvey <nharvey@uswatercorp.net>
Sent: Friday, June 30, 2023 2:58 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Cc: Selina Makofsky <smakofsky@uswatercorp.net>
Subject: RE: Useppa Island RO WTP, WACS ID: 98998, UIC - JUNE 1 CAO Letter

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good afternoon Robert,

I would like to request a time extension for this response letter to the CAO for the Useppa Island RO WTP.
I would like to extend another month and submit the report on July 31st.
Progress is being made, but I want to make sure all the MORs resubmitted and have pictures of the completed items as part of the response for this.

Thank you and have a great weekend!

Sincerely,

Attachment 4-2
Communication Date 06/30/23

Natalie Harvey
U.S. Water Services Corporation
5605 2nd St. W. Lehigh Acres FL 33971
nharvey@uswatercorp.net
Mobile: 239-209-9805

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

June 1, 2023

Donald Beckstead, President
Useppa Utility Company
P.O. Box 640
Bokeelia, FL 33922
dbeckstead@useppa.com

Re: Compliance Assistance Offer
Useppa Island RO WTP
Permit: 045884-005-UO/5O
WACS ID: 98998
Lee County - UIC

Dear Mr. Beckstead:

A Bi-Annual Inspection was conducted at your facility on May 8, 2023. During this inspection, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving these matters.

Potential non-compliance with the requirements of Chapter 403, Florida Statutes, Chapters 62-4, 62-528 and 62-620, Florida Administrative Code, were observed. Please see the attached inspection report for a full account of Department observations and recommendations.

We request you review the items of concern noted and respond in writing within **30 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

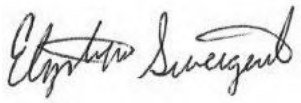
1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid, or
3. Arrange for the case manager to visit your facility to discuss the item(s) of concern.

It is the Department's desire that you are able to adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Attachment 4-2
Communication Date 06/01/23

Please address your response and any questions to Robert Reid of the South District Office at (239) 344-5656 or via e-mail at Robert.B.Reid@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,



Elizabeth Sweigert
Assistant Director of District Management
South District Office
Florida Department of Environmental Protection

Enclosure: Inspecting Report

cc: Melisa Rotteveel, U.S. Water Services Corporation, mrotteveel@uswatercorp.net
Jonathan Schmidt, U.S. Water Services Corporation, jschmidt@uswatercorp.net
Lina Quintero, U.S. Water Services Corporation, lquintero@uswatercorp.net
Selina Makofsky, U.S. Water Services Corporation, smakofsky@uswatercorp.net
Tonya Luning, U.S. Water Services Corporation, tluning@uswatercorp.net

FLORIDA DEPARTMENT OF Environmental Protection

South District Office
PO Box 2549
Fort Myers FL 33902-2549
Southdistrict@dep.state.fl.us

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

Facility: Useppa Island Utility Lee County – UIC **Contact E-mail:** jschmidt@uswatercorp.net **File Number:** 045884-005-UO/5O	**WACS ID:** 98998 Operational Permit **Permit Expiration:** 07/16/2025 **Well Field Status:** Operational

Inspection Date: May 8, 2022	**Purpose of Visit (Inspection Type)**	Bi-Annual (INSP) √ Compliance (INSP) √ Construction (COI) ☐ Enforcement (INSP) ☐ Complaint (CI) ☐ **Other** ☐ ( )		
Wells authorized in permit:	**Class I**	N/A	**Monitoring wells**	MW-1 and MW-2
	Class V	IW-1	**Other**	
Wells inspected at visit:	**Class I**		**Monitoring wells**	MW-1 and MW-2
	Class V	IW-1	**Other**	
Is operator's license current and posted? ☐Yes ☐No ☒N/A (OM; only applicable to DW/ASR)				

Facility Contact(s) at time of inspection:	Phone:	Email:
Jonathan Schmidt	(239) 209-7343	jschmidt@uswatercorp.net
William J. Edwards	(863) 558-2327	wjedwards@uswatercorp.net

Compliance areas evaluated: (Red is COMET violation codes)

***IC**: In Compliance; **NC**: Out of Compliance **SC**: Significant Non-Compliance **NA**: Not Applicable, **NE**: Not Evaluated*

Operating Requirements		Monitoring, Records, & Reports		Facility Site Review (OM)		Calibration (OM)	
IC	1. Volume (WI)	NC	6. Records of MOR (MM)	NC	8. Wellheads	NC	14. Pressure Gauges
IC	2. Pressure (IP)	IC	7. Lab Reports (electronic or hard copies) (MR)	N/A	9. Annulus Tank	IC	15. Flow Meters
IC	3. Emergency (OM)			NC	10. Rust & Corrosion	N/A	16. Chart Recorders
IC	4. Valid Permit (OP)			NC	11. Labeling	IC	17. Other Equipment (SCADA)
NC	5. O&M Manual (OM)			NC	12. Purging	NC	18. Calibration Certificates
				NC	13. Maintenance		

Facility Inspection Worksheet

GENERAL

	Rule	Operating Requirements	N/A	Yes	No	COMET CODE	Notes
1	62-528.415(4)(c)	Emergency Discharge method permitted and operational	☐	☒	☐	(OM)	See notes below
2	62-528.415(4)(b)	Abnormal Events reported	☒	☐	☐	(FN)	See notes below.
3	62-528.307)(1)(l)	Current Permit on site	☐	☒	☐	(OP)	
4	62-528.415(3)	Up-To-Date Operation and Maintenance Manual on site	☐	☐	☒	(OM)	See notes below.

	Rule	Monitoring, Records, And Reports	N/A	Yes	No	COMET CODE	Notes
5	62.528.307(1)(m)	Monitoring Records & Reports on site and current (MOR's)	☐	☐	☒	(MM)	See notes below.
6		Specific Injectivity Test available	☒	☐	☐	(MM)	
7		Fall-Off Test available	☒	☐	☐	(MM)	
8	62-528.307(1)(m)	Lab Reports available	☐	☒	☐	(MR)	
9	62-528.307(f)	SCADA System functioning properly	☐	☒	☐	(OM)	

	Pump Station			
10	Total Number of Pumps	N/A	Number of Pumps operating at time of inspection:	N/A
11	Type of Pumps	N/A	Number of pumps operational at time of inspection:	N/A

	Rule	Pump Station	N/A	Yes	No	COMET CODE	Notes
12	62-600.540(4)(h)	Designated Stand-by pump	☒	☐	☐	(OM)	
13	62-600.540(4)(a)	Lightning Arrestor on Pump Station	☒	☐	☐	(OM)	
14	62-528.307(1)(f)	Pump free of leaks	☒	☐	☐	(OM)	
15	62-528.307(1)(f)	Pump station free of rust and corrosion If corroded, note degree (Minor, Moderate, Severe)	☒	☐	☐	(OM)	
16	62-528.307(1)(f)	Pressure gauge operational	☒	☐	☐	(OM)	

Notes: Emergency discharge is a 0.015 MGD drain field. When emergency disposal is necessary, the facility will pause operation of the water treatment plant to ensure that emergency disposal capacity is not exceeded.
No abnormal events were reported during the two-year review period.
The O&M manual provided did not appear to be updated and several items should be included (summarized at the end of this report).
Updated MORs have not been received as requested in the Compliance Assistance Offer letter dated March 27, 2023,

Injection Well # IW-1								
1	Rule: 62-528.415(1)(f)			2	Rule: 62-528.415(1)(a)-(c)			
Max Flow Permitted		Flow at Inspection		Max Wellhead Pressure			Pressure at Inspection	
50 GPM		O GPM		N/A			1.5 PSI	
	Rule	Injection Well Requirements	N/A	Yes	No	COMET CODE	Notes	
3	62-528.307(1)(f)	Injection well labeled by well number	☐	☐	☒	(OM)	See notes below	
4	62-528.425(1)(b)	Gauges & Flow Meter agree with electronic equipment (SCADA)	☐	☒	☐	(OM)		
5	62-600.540(4)	Manual back-up pressure and flow equipment functioning	☐	☒	☐	(OM)		
6	62-528.425(1)(b)	Flow meter functioning	☐	☒	☐	(OM)		
7	62-528.307(1)(f)	Injection Wellhead free of leaks	☐	☐	☒	(OM)	Leak in line connecting wellhead	
8	62-528.307(1)(f)	Injection well / Surface equipment free of rust and corrosion If corroded, note degree (Minor, Moderate, Severe)	☐	☐	☒	(OM)	Severe. See notes below	
9	62-600.540(4)(f)	Pad maintained, not used for storage	☐	☒	☐	(OM)		
10	62-528.307(1)(f)	Sumps are maintained	☒	☐	☐	(OM)		
11	62-528.307(1)(f)	Air release valves free from leaks	☐	☒	☐	(OM)		
12	62-528.415(1)(f)	Maximum Flow within limits	☐	☒	☐	(WI)		
13	62-528.415(1)(a)-(c)	Maximum Pressure within limits	☒	☐	☐	(IP)		
14	62-528.425(1)(b)	Annulus Tank level is readable	☒	☐	☐	(OM)		
15	62-528.307(1)(f) & (m)	Per the MOR, what is the Normal Annular Pressure Range	N/A					
16	62-528.307(1)(f) & (m)	Annular Pressure within Normal Range (tubing and packer) note PSI	☒	☐	☐	(OM)		
17	62-528.307(1)(f) & (m)	Annular Pressure greater than Injection Pressure (tubing and packer) Note PSI	☒	☐	☐	(OM)		
18	62-528.307(1)(f) & (m)	Pressure Gauge Calibrated	☐	☐	☒	(OM)	See notes below	
19	62-528.307(1)(f) & (m)	Flow meters Calibrated	☐	☒	☐	(OM)	5/23/2022	
20	62-528.307(1)(f) & (m)	Chart recorders Calibrated	☒	☐	☐	(OM)		
21	62-528.307(1)(f) & (m)	Latest Calibration ------Dates:	5/23/2022					

Well Compliance Status:					
☐	In-Compliance	☒	Out-Of-Compliance	☐	Significant Out of Compliance

Notes: IW-1 was not labeled at the time of inspection.
Severe rust was observed on the wellhead. Wellhead should be replaced.
A leak in the main line feeding the well should be repaired.
No calibration records were provided for the manual and electronic pressure gauges. All indicating, recording, and totaling devices shall be calibrated annually, at a minimum.

Monitor Well #: MW-1				Associated with Injection Well: IW-1	
UPPER ZONE		LOWER ZONE		Single Zone	
1	Rule: 62-528.425(1)(g)5	2	Rule: 62-528.425(1)(g)5	3	Rule: 62-528.425(1)(g)5
Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level
N/A	N/A	N/A	N/A	N/A	0.117 ft

	Rule	Monitor Well Requirements	N/A	Yes	No	COMET CODE	Notes
4	62-528.307(f)	Monitor well labeled by well number	☐	☐	☒	(OM)	See notes below
5	62-528.307(f)	Sample Ports labeled	☒	☐	☐	(OM)	
6	62-528.425(1)(g)1 62-528.307(f)	Wellhead pressure / Water Level gauges functioning	☐	☒	☐	(OM)	
7	62-528.425(1)(g)1 62-528.307(f)	Wellhead gauges agree with electronic equipment (SCADA)	☒	☐	☐	(MR)	
8	62-528.425(1)(g)1 62-528.307(f)	Transducer in working order	☐	☒	☐	(OM)	
9	62-528.307(1)(f)	Monitor wellhead free from leaks	☒	☐	☐	(OM)	
10	62-528.307(1)(f)	Monitor well / Surface equipment free of rust and corrosion If corroded, note degree (Mild, Moderate, Severe)	☐	☒	☐	(OM)	
11	62-600.540(4)(f)	Pad maintained, not used for storage	☐	☒	☐	(OM)	
12	62-528.307(1)(f)	Sumps are maintained	☒	☐	☐	(OM)	
13	62-528.307(1)(f) & (m)	Pressure Gauge Calibrated	☒	☐	☐	(OM)	
14	62-528.307(1)(f) & (m)	Chart recorders Calibrated	☒	☐	☐	(OM)	
15	62-528.307(1)(f) & (m)	Transducers Calibrated	☐	☐	☒	(OM)	See notes below
16	62-528.307(1)(f) & (m)	Latest Calibration --------- Dates:					
17		Monitoring well purge waters flow to:	Ground. See notes below				
18		Monitoring well purge technique:	External pump				
19		Monitoring well volume purged / time needed:	10.41 gal/14 min				

Well Compliance Status:

☐	In-Compliance	☒	Out-Of-Compliance	☐	Significant Out of Compliance

Notes: MW-1 was not labeled at the time of inspection.
No calibration record was provided for the transducer. All indicating, recording, and totaling devices shall be calibrated annually, at a minimum.
Purge water should be disposed properly, per the permit, instead of allowing to flow onto the ground surface.
The March purging data show improper purge volumes. 1 well volume is 1.97 gal. Therefore, the first purge should be 1.97 gal and subsequent purges should be 0.49 gal (¼ well volume) until stabilization criteria are met. The submitted form shows 5.91 gal were purged in the initial purge, followed by three successive purges of 1.5 gal. The initial purge rate is miscalculated. Depth to water, temperature, pH, conductance, and dissolved oxygen were only recorded on the Sampling log for the first purge. Turbidity, color, and odor were not recorded for any purge in the sequence. No Sample Pump Flow rate was recorded. The Groundwater Sampling Log shall be completed consistent with protocols in FS 2200 in DEP-SOP-001/1 Field Sampling Procedures Manual, which are also outlined in the permit.

Monitor Well #: MW-2				Associated with Injection Well: IW-1	
UPPER ZONE		LOWER ZONE		Single Zone	
1	Rule: 62-528.425(1)(g)5	2	Rule: 62-528.425(1)(g)5	3	Rule: 62-528.425(1)(g)5
Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level
N/A	N/A	N/A	N/A	N/A	-0.082 ft

	Rule	Monitor Well Requirements	N/A	Yes	No	COMET CODE	Notes
4	62-528.307(f)	Monitor well labeled by well number	☐	☒	☐	(OM)	
5	62-528.307(f)	Sample Ports labeled	☒	☐	☐	(OM)	
6	62-528.425(1)(g)1 62-528.307(f)	Wellhead pressure / Water Level gauges functioning	☐	☒	☐	(OM)	
7	62-528.425(1)(g)1 62-528.307(f)	Wellhead gauges agree with electronic equipment (SCADA)	☒	☐	☐	(MR)	
8	62-528.425(1)(g)1 62-528.307(f)	Transducer in working order	☐	☒	☐	(OM)	
9	62-528.307(1)(f)	Monitor wellhead free from leaks	☐	☒	☐	(OM)	
10	62-528.307(1)(f)	Monitor well / Surface equipment free of rust and corrosion If corroded, note degree (Mild, Moderate, Severe)	☐	☒	☐	(OM)	
11	62-600.540(4)(f)	Pad maintained, not used for storage	☐	☒	☐	(OM)	
12	62-528.307(1)(f)	Sumps are maintained	☒	☐	☐	(OM)	
13	62-528.307(1)(f) & (m)	Pressure Gauge Calibrated	☒	☐	☐	(OM)	
14	62-528.307(1)(f) & (m)	Chart recorders Calibrated	☒	☐	☐	(OM)	
15	62-528.307(1)(f) & (m)	Transducers Calibrated	☐	☐	☒	(OM)	See notes below.
16	62-528.307(1)(f) & (m)	Latest Calibration --------- Dates:					
17		Monitoring well purge waters flow to:	Ground. See notes below.				
18		Monitoring well purge technique:	External pump				
19		Monitoring well volume purged / time needed:	6.66 gal/14 min				

Well Compliance Status:

☐	In-Compliance	☒	Out-Of-Compliance	☐	Significant Out of Compliance

Notes: MW-2 was not labeled at the time of inspection.
All indicating, recording, and totaling devices shall be calibrated annually, at a minimum. Purge water should be disposed properly, per the permit, instead of allowing to flow onto the ground surface.
The March purging data show improper purge volumes. 1 well volume is 0.72 gal. Therefore, the first purge should be 0.72 gal and subsequent purges should be 0.18 gal (¼ well volume) until stabilization criteria are met. The submitted form shows 2.16 gal were purged in the initial purge, followed by three successive purges of 1.5 gal. The initial purge rate is miscalculated. Depth to water, temperature, pH, conductance, and dissolved oxygen were only recorded on the Sampling log for the first purge. Turbidity, color, and odor were not recorded for any purge in the sequence. No Sample Pump Flow rate was recorded. The Groundwater Sampling Log shall be completed consistent with protocols in FS 2200 in DEP-SOP-001/1 Field Sampling Procedures Manual, which are also outlined in the permit.

This well is also permitted as the intermediate monitoring well for the (FLA014494) domestic wastewater facility's GWMP (perc pond).

Facility/Well Compliance Status:					
☐	In-Compliance	☒	Out-Of-Compliance	☐	Significant Out of Compliance

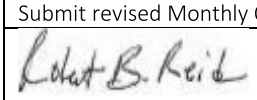
Comments/Rule or Permit Violations/ Recommended Actions:

Submit to the Department documentation showing the Operation and Maintenance manual has been updated. Updates should include:

- the WACS Facility ID on the cover page, a summary of the current operating limitations,
- a copy of the current operating permit, copies of (annual) calibration documents,
- SOP's that describe sampling procedures, parameters, and disposal of purge waters.
- an Emergency Plan for well shutdown and equipment failures,
- SOP to ensure emergency disposal does not exceed permitted capacity,
- and Hurricane Preparedness procedures.

[62-528.307(3)(b), F.A.C.]

Submit updated MORs have not been received as requested in the Compliance Assistance Offer letter dated March 27, 2023. [62.528.307(1)(m), F.A.C.]
Submit documentation showing that all indicating, recording, and totaling devices have been calibrated. [62-528.307(1)(f), and 62-528.307(3)(b), F.A.C.]
Submit documentation showing the injection well, sampling port, and monitoring wells are properly labeled. [62-528.307(1)(f), F.A.C.]
Submit documentation showing replacement of the injection wellhead and repair of the main line that is leaking. [62-528.307(1)(f), F.A.C.]
Submit documentation showing all injection well piping and air-release valve are freshly painted and free of rust and corrosion. [62-528.307(1)(f), F.A.C.]
Submit documentation showing waters from monitor well purging are diverted to the injection well head via a pad drainage system, wet well, or treatment plant. [62-4.030, 62.620.320. F.A.C.]
Submit documentation/explanation showing that future monitor well sampling and purging procedures wiil adhere to those in FS 2200, DEP Sampling SOP.
Submit revised Monthly Operational Reports as detailed in the March 27, 2023 Compliance Assistance Offer.

 Robert Reid – 05/18/2023	Landon Reigelman – 05/23/2023
FDEP Inspector - Date	Inspector's Manager - Date

Useppa Utility RO WTP, WACS ID 98998

Inspection Photo Log May 8, 2023

Robert Reid

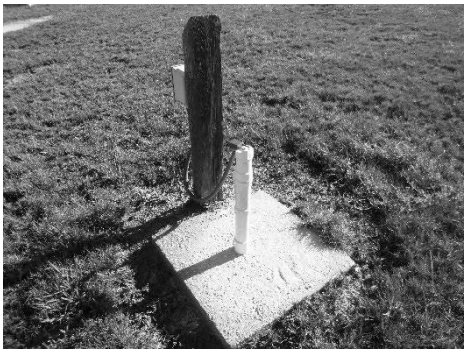
IW-1

Leaking main RO line and pressure gauge

IW-1 Pressure gauge

IW-1 Wellhead

IW-1 sample port and air-release valve



MW-1

U.S. Water Services Corporation

Water and Wastewater Utility Operations, Maintenance, Engineering, Management, Construction

April 28, 2023

Robert Reid
South District - Florida Department of Environmental Protection
PO Box 2549
Fort Myers, FL 33902

RE: Compliance Assistance Offer
Useppa Island RO WTP
Permit: 045884-005-UO/5O WACS ID: 98998
Lee County – UIC

Dear Mr. Reid:

This letter is in response to the Florida Department of Environmental Protection's Compliance Assistance Offer letter dated March 27, 2023, for Useppa Island RO WTP. Responses to the requested documents are as follows:

1. The Department records indicate your facility submitted analytical results for Gross Alpha Particle, Radium 226, and Radium 228 monitoring at IW-1 only for January 2021, July 2021, and April 2022, which were required to be performed quarterly per Rule 62-528.307 (3)(d), Florida Administrative Code, or according to your permit.

Response: Missing quarterly reports for Gross Alpha Particle, Radium 226, and Radium 228 at IW-1 are provided as attachments to this letter. The MORs will be revised and resubmitted to the department.

Jan-21	Already Submitted
Feb-21	
Mar-21	
Apr-21	Sampled on 4/15/2021
May-21	
Jun-21	
Jul-21	Already Submitted
Aug-21	
Sep-21	
Oct-21	
Nov-21	Sampled on 11/16/2021
Dec-21	
Jan-22	Sampled on 1/13/2022
Feb-22	

4939 Cross Bayou Boulevard * New Port Richey * Florida * 34652
Tel: 727-848-8292 Fax: 727-848-7701 Toll Free: 866-75

Attachment 4-2
Communication Date 04/28/23

Mar-22	
Apr-22	Already Submitted
May-22	
Jun-22	
Jul-22	No data for Q3
Aug-22	No data for Q3
Sep-22	No data for Q3
Oct-22	
Nov-22	
Dec-22	Sampled on 12/8/2022
Jan-23	
Feb-23	Sampled on 2/14/2023
Mar-23	

2. Department records indicate your facility did not submit analytical results for Gross Alpha Particle, Radium 226, and Radium 228 testing for both MW-1 and MW-2, which were required to be performed semi-annually per Rule 62-528.307 (3)(d), Florida Administrative Code, or according to your permit.

Response: This will be completed in accordance with the permit moving forward. The semi-annual collection requirements for MW-1 and MW-2 have been placed on the schedule.

If you need any additional information, please let us know.

Sincerely,

Selina J. Makofsky
Florida Compliance - Assistant Manager
US Water Services Corporation
(866) 753-8292 Ext. 229
(727) 836-0048 (cell)
smakofsky@uswatercorp.net
ATT: lab reports

Reid, Robert B

From: Reid, Robert B
Sent: Wednesday, April 12, 2023 12:41 PM
To: Selina Makofsky
Cc: Melisa Rotteveel; Natalie Harvey; Lina Quintero; Newburg, Deanna; Reigelman, Landon
Subject: RE: USEPPA Island RO WTP

Good afternoon Selina,

It was a pleasure speaking with you today regarding the Compliance Assistance Offer letter to Useppa Utility (98998) dated March 27, 2023. Per your request, the response date is changed to May 1, 2023. If I can be of further assistance, please don't hesitate to contact me.

Sincerely,

Robert Reid, MS, GIT
Florida Department of Environmental Protection
South District
Engineering Specialist III
Robert.B.Reid@FloridaDEP.gov
Office: 239-344-5656

PLEASE NOTE: *Florida has a very broad public records law. Electronic communications regarding state business are public records available upon request. Your e-mail communications may therefore be subject to public disclosure.*

From: Selina Makofsky <smakofsky@uswatercorp.net>
Sent: Tuesday, April 11, 2023 5:18 PM
To: Reid, Robert B <Robert.B.Reid@FloridaDEP.gov>
Cc: Melisa Rotteveel <mrotteveel@uswatercorp.net>; Natalie Harvey <nharvey@uswatercorp.net>; Lina Quintero <lquintero@uswatercorp.net>
Subject: USEPPA Island RO WTP

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hello

I apologize for this late request however we were unable to complete the revisions to the MORs today as planned.
As such, I respectively request an extension to this deadline.

We appreciate your time and cooperation.

Thank you.

Selina J. Makofsky

Attachment 4-2
Communication Date 04/04/23

Florida Compliance - Assistant Manager
U.S. Water Services Corporation
4939 Cross Bayou Boulevard
New Port Richey, FL 34652
Office (866) 753-8292 Ext. 229
Cell (727) 836-0048
smakofsky@uswatercorp.net
After hours emergency reporting: 727-359-8457

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

March 27, 2023

Donald Beckstead, President
Useppa Utility Company
P.O. Box 640
Bokeelia, FL 33922

Re: Compliance Assistance Offer
Useppa Island RO WTP
Permit: 045884-005-UO/5O
WACS ID: 98998
Lee County - UIC

Dear Mr. Beckstead:

A File Review of your facility was conducted on March 2, 2023. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving these matters.

Specifically, Department records indicate your facility submitted analytical results for Gross Alpha Particle, Radium 226, and Radium 228 monitoring at IW-1 only for January 2021, July 2021, and April 2022, which were required to be performed quarterly per Rule 62-528.307 (3)(d), Florida Administrative Code, or according to your permit.

Additionally, Department records indicate your facility did not submit analytical results for Gross Alpha Particle, Radium 226, and Radium 228 testing for both MW-1 and MW-2, which were required to be performed semi-annually per Rule 62-528.307 (3)(d), Florida Administrative Code, or according to your permit.

We request you review the items of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid, or

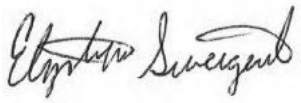
Attachment 4-2
Communication Date 03/27/23

3. Arrange for the case manager to visit your facility to discuss the item(s) of concern.

It is the Department's desire that you are able to adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Robert Reid of the South District Office at (239) 344-5656 or via e-mail at Robert.B.Reid@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,



Elizabeth Sweigert
Assistant Director of District Management
South District Office
Florida Department of Environmental Protection

cc: Melisa Rotteveel, U.S. Water Services Corporation, mrotteveel@uswatercorp.net
Jonathan Schmidt, U.S. Water Services Corporation, jschmidt@uswatercorp.net
Lina Quintero, U.S. Water Services Corporation, lquintero@uswatercorp.net
Selina Makofsky, U.S. Water Services Corporation, smakofsky@uswatercorp.net
Tonya Luning, U.S. Water Services Corporation, tluning@uswatercorp.net

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

September 14, 2021

VIA ELECTRONIC MAIL

Timothy Fitzsimmons, CEO
Useppa Utility Company
PO Box 640
Bokeelia, FL 33922
Email: tfitz@comcast.net

Re: In Compliance Letter
Useppa Island RO WTP, Useppa Island, FL 33924
Permit Numbers: 045884-005-UO/5O
WACS ID: 98998
Lee County – UIC

Dear Mr. Fitzsimmons:

Department personnel conducted a routine bi-annual inspection of the underground injection control program system at the above-referenced facility on September 2, 2021. Based on the information provided by the onsite staff and the observations of the Department inspectors, the condition of the underground injection control system was rated as in-compliance with certain notations about minor items at this facility. A copy of the inspection report with the reference notations is attached for your records.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Gabriele Starrach at 239-344-5653 or via e-mail at: Gabriele.Starrach@FloridaDEP.gov.

Sincerely,

Gary A. Maier
Program Administrator
Program and Citizen Support Services

Enclosure: Inspection Report

cc: Jonathan Schmidt, jschmidt@uswatercorp.net
Scott Palmore, spalmore@uswatercorp.net

Attachment 4-2
Communication Date 09/14/21

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

Facility: Useppa Island RO WTP Useppa Island Captiva, Florida 33924 Contact E-mail: jschmidt@uswatercorp.net File Number: 045884-005-UO/5O	Lee County – UIC Facility description, WACs ID: 98998 Operational Permit Permit Expiration: July 16, 2025 Status of Well Field: Operational

Inspection Date:September 2, 2021	**Purpose of Visit (Inspection Type)**	Bi-Annual (INSP) ∨ Compliance (INSP) ∨ Construction (COI) ☐ Enforcement (INSP) ☐ Complaint (CI) ☐ **Other** ☐ (_____)		
Wells authorized in permit	**Class I**	N/A	**Monitoring wells**	MW-1, MW-2
	Class V	IW-1	**Other:**	N/A
Wells inspected at visit	**Class I**	N/A	**Monitoring wells**	MW-1, MW-2
	Class V	IW-1	**Other MWs**	N/A
Is operator's license current and posted? ☒Yes ☐No ☐N/A (OM; only applicable to /PW/DW/ASR)				

Facility Contact(s) at time of inspection	Phone	Email
Scott Palmore	239-478-1937	spalmore@uswatercorp.net

Compliance areas evaluated (Red = COMET violation codes)

***IC**: In Compliance; **MNC**: Minor Non-Compliance **SC**: Significant Non-Compliance **NA**: Not Applicable, **NE**: Not Evaluated*

Operating Requirements		**Monitoring, Records, & Reports**		**Facility Site Review(OM)**		**Calibration(OM)**	
IC	1. Volume(WI)	**IC**	7. Records of MOR(MM)	**IC**	9. Wellheads	**IC**	15.Pressure Gauges
IC	2. Pressure(IP)	**IC**	8. Lab Reports (Elec. or hard copies)(MR)	**N/A**	10. Annulus Tank	**IC**	16.Flow Meters
IC	3. Emergency(OM)	IC	9. Financial Responsibility	**IC**	11. Rust & Corrosion	**N/A**	17.Chart Recorders
IC	4. Valid Permit(OP)			**IC**	12. Labeling	**IC**	18.Other Equipment(SCADA)
IC	5. O&M Manual(OM)			**IC**	13. Purging	**IC**	19.Calibration Certificates
				IC	14. Maintenance		

Facility/Well Compliance Status:					
☒	In-Compliance	☐	Minor Non Compliance	☐	Significant Out Of Compliance

Gabriele Stewart

FDEP Inspector- 9/13/2021

Mary A. Mair 9/13/2021

Review Manager-Date

Facility Inspection Worksheet

GENERAL

	Rule	Operating Requirements	N/A	Yes	No	COMET CODE	Notes
1	62-528.415(4)(c)	Emergency Disposal method permitted and operational	☐	☒	☐	(OM)	
2	62-528.415(4)(b)	Abnormal Events reported	☐	☒	☐	(FN)	
3	62-528.307)(1)(l)	Current Permit on site	☐	☒	☐	(OP)	
4	62-528.415(3)	Operation and Maintenance Manual	☐	☒	☐	(OM)	
	Rule	Monitoring, Records, And Reports	N/A	Yes	No	COMET CODE	Notes
5	62.528.307(1)(m)	Monitoring Records & Reports on site and current (MOR's)	☐	☒	☐	(MM)	
6		Specific Injectivity Test available	☐	☒	☐	(MM)	
7		Fall-Off Test available	☐	☒	☐	(MM)	
8	62-528.307(1)(m)	Lab Reports available	☐	☒	☐	(MR)	
9	62-528.307(f)	SCADA System functioning properly	☐	☒	☐	(OM)	
	Rule	Calibration	N/A	Yes	No	COMET CODE	Notes
10	62-528.307(1)(f) & (m)	Pressure Gauge	☐	☒	☐	(OM)	
11	62-528.307(1)(f) & (m)	Flow meters	☐	☒	☐	(OM)	
12	62-528.307(1)(f) & (m)	Chart recorders	☒	☐	☐	(OM)	
13	62-528.307(1)(f) & (m)	Transducers	☐	☒	☐	(OM)	
14	62-528.307(1)(f) & (m)	Latest Calibration ----------Dates:	3/29/2021				
	Pump Station						
	Total Number of Pumps	N/A	Number of Pumps operating at time of inspection		N/A		
	Type of Pumps	N/A	Number of pumps operational at time of inspection:		N/A		
	Injection discharge is powered by residual skid pressure						
	Rule	Pump Station	N/A	Yes	No	COMET CODE	Notes
15	62-600.540(4)(h)	Designated Stand-by pump	☒	☐	☐	(OM)	
16	62-600.540(4)(a)	Lightning Arrestor on Pump Station	☒	☐	☐	(OM)	
17	62-528.307(1)(f)	Pump free of leaks	☒	☐	☐	(OM)	
18	62-528.307(1)(f)	Pump station free of rust and corrosion If no, select degree (Minor, Moderate, Severe)	☒	☐	☐	(OM)	
19	62-528.307(1)(f)	Pressure gauge operational	☒	☐	☐	(OM)	

Notes:

Injection Well # IW-1								
1	Rule: 62-528.415(1)(f)			2	Rule: 62-528.415(1)(a)-(c)			
Max Flow Permitted		Flow at Inspection		Max Wellhead Pressure			Pressure at Inspection	
50 GPM		19 GPM		unk			7 PSI	
	Rule	Injection Well Requirements	N/A	Yes	No	COMET CODE	Notes	
3	Recomended	Injection well labeled by well number	☐	☒	☐	(OM)		
4	62-528.425(1)(b)	Gauges & Flow Meter agree with electronic equipment (SCADA)	☐	☒	☐	(OM)		
5	62-600.540(4)	Manual back-up pressure gauges functioning	☐	☒	☐	(OM)		
6	62-528.425(1)(b)	Flow meter functioning	☐	☒	☐	(OM)		
7	62-528.307(1)(f)	Injection Wellhead free of leaks	☐	☒	☐	(OM)		
27	62-528.307(1)(f)	Injection well / Surface equipment free of rust and corrosion If no, select degree (**Minor**, Moderate, Severe)	☐	☒	☐	(OM)		
9	62-600.540(4)(f)	Pad maintained, not used for storage	☐	☒	☐	(OM)		
10	62-528.307(1)(f)	Sumps are maintained	☒	☐	☐	(OM)		
11	62-528.307(1)(f)	Air release valves free from leaks	☐	☒	☐	(OM)		
12	62-528.415(1)(f)	Maximum Flow NOT exceeded	☐	☒	☐	(WI)		
13	62-528.415(1)(a)-(c)	Maximum Pressure NOT exceeded	☐	☒	☐	(IP)		
14	62-528.425(1)(b)	Annulus Tank level is readable	☒	☐	☐	(OM)		

Notes:

Inspector Comments

Monitor Well # MW-1

UPPER ZONE		LOWER ZONE		OTHER	
48 Rule: 62-528.425(1)(g)5		49 Rule: 62-528.425(1)(g)5		50 Rule: 62-528.425(1)(g)5	
Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level
		unk	unk		

	Rule	Monitor Well Requirements	N/A	Yes	No	COMET CODE	Notes
51	Recomended	Monitor well labeled by well number	☐	☒	☐	(OM)	
52	62-528.307(f)	Sample Ports labeled	☒	☐	☐	(OM)	
53	62-528.425(1)(g)1 62-528.307(f)	Wellhead pressure / Water Level gauges functioning	☒	☐	☐	(OM)	
54	62-528.425(1)(g)1 62-528.307(f)	Wellhead gauges agree with electronic equipment (SCADA)	☒	☐	☐	(MR)	
55	62-528.425(1)(g)1 62-528.307(f)	Transducer in working order	☐	☒	☐	(OM)	
56	62-528.307(1)(f)	Monitor wellhead free from leaks	☐	☒	☐	(OM)	
57	62-528.307(1)(f)	Monitor well / Surface equipment free of rust and corrosion If no, select degree (Mild, Moderate, Severe)	☐	☒	☐	(OM)	
58	62-600.540(4)(f)	Pad maintained, not used for storage	☐	☒	☐	(OM)	
60	62-528.307(1)(f)	Sumps are maintained	☒	☐	☐	(OM)	
61		Monitoring well purge waters flow to :	Injection well				
62		Monitoring well purge technique:	Flowing/Pumping				
63		Monitoring well volume purged:	Per SOP				

Monitor Well # MW-2

UPPER ZONE		LOWER ZONE		OTHER	
48 Rule: 62-528.425(1)(g)5		49 Rule: 62-528.425(1)(g)5		50 Rule: 62-528.425(1)(g)5	
Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level	Wellhead Pressure	Wellhead Water Level
ukn	ukn				

	Rule	Monitor Well Requirements	N/A	Yes	No	COMET CODE	Notes
51	Recomended	Monitor well labeled by well number	☐	☒	☐	(OM)	
52	62-528.307(f)	Sample Ports labeled	☒	☐	☐	(OM)	
53	62-528.425(1)(g)1 62-528.307(f)	Wellhead pressure / Water Level gauges functioning	☒	☐	☐	(OM)	
54	62-528.425(1)(g)1 62-528.307(f)	Wellhead gauges agree with electronic equipment (SCADA)	☒	☐	☐	(MR)	
55	62-528.425(1)(g)1 62-528.307(f)	Transducer in working order	☐	☒	☐	(OM)	
56	62-528.307(1)(f)	Monitor wellhead free from leaks	☐	☒	☐	(OM)	
57	62-528.307(1)(f)	Monitor well / Surface equipment free of rust and corrosion If no, select degree (Mild, Moderate, Severe)	☐	☒	☐	(OM)	
58	62-600.540(4)(f)	Pad maintained, not used for storage	☐	☒	☐	(OM)	
60	62-528.307(1)(f)	Sumps are maintained	☒	☐	☐	(OM)	
61		Monitoring well purge waters flow to :	Injection well				
62		Monitoring well purge technique:	Flowing/Pumping				
63		Monitoring well volume purged:	Per SOP				

Notes:

Inspector Comment

Useppa Island RO WTP, WACS # 98998

Gabriele Starrach

IW-1

Label

Sample port IW-1

MW-1

MW-2

Figure

ATTACHMENT 4-3
FLORIDA DEP CORRESPONDENCE
(PERMIT NO. 5360299)

WAIVER OF 30 DAY and 90 DAY TIME LIMITS
UNDER SECTIONS 120.60(1) and 403.0876(1) and (2), FLORIDA STATUTES

Permit Application Nos.: FLA014494-008-DW3P, FLA146102-006-IW5C/NR, and FLA0144494

Applicant's Name: Useppa Island Utility Co.

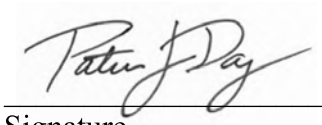
With regard to the above referenced application, the applicant hereby with full knowledge and understanding of applicant's rights under Rules 62-4.055(1) and 62-620.510(1), Florida Administrative Code, Sections 120.60(1) and 403.0876(1), Florida Statutes, waives the right to have the application reviewed and any additional information requested by the State of Florida Department of Environmental Protection within the 30-day time period prescribed by law.

Further, the applicant hereby with full knowledge and understanding of applicant's rights under Rules 62-4.055(5) and 62-620.510(8), Florida Administrative Code, Sections 120.60(1) and 403.0876(2), Florida Statutes, waives the right for the Department's permit approval or denial within 90 days after receipt of timely requested additional material.

Said waivers are made freely and voluntarily by the applicant, with full knowledge, and without any pressure or coercion by anyone employed by the State of Florida Department of Environmental Protection.

This waiver shall expire on the 15th of April, 2026.

The undersigned is authorized to make this waiver on behalf of the applicant.



Signature

Patrick Day, 1/13/25

Name (Please Type or Print)

Attachment 4-3
Communication Date 01/13/26

WAIVER OF 30 DAY and 90 DAY TIME LIMITS
UNDER SECTIONS 120.60(1) and 403.0876(1) and (2), FLORIDA STATUTES

Permit Application Nos.: FLA146102-006-IW5C/NR

Applicant's Name: Useppa Island Utility Co.

With regard to the above referenced application, the applicant hereby with full knowledge and understanding of applicant's rights under Rules 62-4.055(1) and 62-620.510(1), Florida Administrative Code, Sections 120.60(1) and 403.0876(1), Florida Statutes, waives the right to have the application reviewed and any additional information requested by the State of Florida Department of Environmental Protection within the 30-day time period prescribed by law.

Further, the applicant hereby with full knowledge and understanding of applicant's rights under Rules 62-4.055(5) and 62-620.510(8), Florida Administrative Code, Sections 120.60(1) and 403.0876(2), Florida Statutes, waives the right for the Department's permit approval or denial within 90 days after receipt of timely requested additional material.

Said waivers are made freely and voluntarily by the applicant, with full knowledge, and without any pressure or coercion by anyone employed by the State of Florida Department of Environmental Protection.

This waiver shall expire on the 7th of November.

The undersigned is authorized to make this waiver on behalf of the applicant.

Signature

Patrick Day
Name (Please Type or Print)

Attachment 4-3
Communication Date 10/10/25

USEPPA ISLAND UTILITY COMPANY
REVERSE OSMOSIS CONCENTRATE DISPOSAL FACILITY

Lee County

Facility identification # FLA146102

Industrial Wastewater Facility Expiration date: October 26, 2025
Inspection date: April 10th, 2025

July 2025

Prepared on behalf of:
Useppa Island Utility Company
PO Box 640
Bokeelia, FL 33922

Prepared by:
DRMP, Inc.
1404 Dean Street, Suite 101
Fort Myers, FL 33901
(239) 206-5093
COA # 2648

Attachment 4-3
Communication Date 07/09/25

TABLE OF CONTENTS

1. Form 1

2. Form 2DC

3. Supporting Documentation Report for Drainfields

4. Supporting Documentation for Injection Well

5. Supplemental Information

    Process Flow Diagram

    WTP Flow and Concentrate Data

USEPPA ISLAND RO CONCENTRATE DISPOSAL FACILITY
PERMIT RENEWAL APPLICATION

SECTION 1

FORM 1

WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION FORM 1 GENERAL INFORMATION

I IDENTIFICATION NUMBER:

Facility ID FLA146102

II CHARACTERISTICS:

INSTRUCTIONS: Complete the questions below to determine whether you need to submit any permit application forms to the Department of Environmental Protection. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the blank in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements. See Section B of the instructions. See also, Section C of the instructions for definitions of the terms used here.

SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a domestic wastewater facility which results in a discharge to surface or ground waters?		✓	
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters?		✓	
C. Does or will this facility (other than those describe in A. or B.) discharge process wastewater, or non-process wastewater regulated by effluent guidelines or new source performance standards, to surface waters?		✓	
D. Does or will this facility (other than those described in A. or B.) discharge process wastewater to ground waters?		✓	
E. Does or will this facility discharge non-process wastewater, not regulated by effluent guidelines or new source performance standards, to surface waters?		✓	
F. Does or will this facility discharge non-process wastewater to ground waters?		✓	
G. Does or will this facility discharge stormwater associated with industrial activity to surface waters?		✓	
H. Is this facility a non-discharging/closed loop recycle system?		✓	
I. Is this facility a public water system whose primary purpose is the production of potable water for public consumption and which discharges demineralization concentrate to surface water or groundwater?	✓		✓

DEP Form 62-620.910(1)
(Effective July 7, 2006 Revised July 30, 2010)

III NAME OF FACILITY: (40 characters and spaces)

Useppa Island RO Concentrate Disposal

Facility ID FLA146102

IV FACILITY CONTACT: (A. 30 characters and spaces)

A. Name and Title (Last, first, & title)	B. Phone (area code & no.)
Dave Perry, maintenance	239 229-3727

V FACILITY MAILING ADDRESS: (A. 30 characters and spaces; B. 25 characters and spaces)

A. Street or P.O. Box: P.O. Box 640		
B. City or Town: Bokeelia	State: FL	Zip Code: 33922

VI FACILITY LOCATION: (A. 30 characters and spaces; B. 24 characters and spaces; C. 3 spaces (if known); D. 25 characters and spaces; E. 2 spaces; F. 9 spaces)

A. Street, Route or Other Specific Identifier: Useppa Island, FL		
B. County Name: Lee	C. County Code (if known):	
D. City or Town: Useppa Island	E. State: FL	F. Zip Code: 33950

VII SIC CODES: (4-digit, in order of priority)

1. Code #: 7011	(Specify) Inn	2. Code #: 9999	(Specify) Residential
3. Code #: 5812	(Specify) Restaurant	4. Code #:	(Specify)

VIII OPERATOR INFORMATION: (A. 40 characters and spaces; B. 1 character; C. 1 character (if other, specify); D. 12 characters; E. 30 characters and spaces; F. 25 characters and spaces; G. 2 characters; H. 9 characters)

A. Name: US Water Corp		B. Is the name in VIII A. the owner? ☐ Yes ☑ No	
C. Status of Operator: F = Federal; S = State; P = Private; O = Other; M = Public (other than F or S)	(code) P	(specify) Private	D. Phone No.: 239 543-2226
E. Street or P. O. Box: 9841 Bernwood Pl. Drive, Suite 120			
F. City or Town: Fort Myers		G. State: FL	H. Zip Code: 33966

IX INDIAN LAND: Is the facility located on Indian lands? ☐ Yes ☒ No

Facility ID FLA146102

X EXISTING ENVIRONMENTAL PERMITS:

A. NPDES Permit No.	B. UIC Permit No.	C. Other (specify)	D. Other (specify)

XI MAP: Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII NATURE OF BUSINESS (provide a brief description)

This system disposes of process concentrate water from a reverse osmosis drinking water plant to a shallow injection well with a land application backup. This application is to include the shallow well.

XIII CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Donald Beckstead
A. Name (type or print)

B. Signature

President Useppa Utilities
Official Title (type or print)

7/7/25
C. Date Signed

SECTION 2

FORM 2DC

PERMIT APPLICATION FORM 2DC

PERMIT TO DISCHARGE DEMINERALIZATION CONCENTRATE

APPLICATION FORM 2DC FOR A PERMIT TO DISCHARGE DEMINERALIZATION CONCENTRATE FROM A NEW OR EXISTING PUBLIC WATER SUPPLY FACILITY

Instructions for selected items are included in the "INSTRUCTIONS – FORM 2DC." Refer to these instructions before filling out each item.

SECTION I FACILITY DESCRIPTION

THIS SECTION MUST BE COMPLETED BY ALL APPLICANTS, REGARDLESS OF THE SIZE OF THE FACILITY OR DISCHARGE FLOW

1. Size of Demineralization Concentrate Discharge

(If the facility's demineralization concentrate discharge is <50,000 gal/day,* the facility is a "Small Water Utility Business" as defined in Section 403.0882(2)(b), F.S., and the instructions for this form)

☐ <50,000 gal/day
(Facilities with concentrate flows in this range must complete all sections of this form)

☑ ≥50,000 gal/day
(Facilities with concentrate flows in this range must complete Sections I,II,III,IV, and VI of this form)

2. Application Type

☐ New
☐ Revision
☑ Renewal

3. Type of Demineralization Technology

☑ Reverse Osmosis
☐ Electrodialysis
☐ Electrodialysis Reversal
☐ Other (describe)_____

*Daily average for maximum month in one year

4. Attach a map or aerial photograph indicating the locations of the facility and all outfalls and discharge points. The figure attached to Form 1 may be adapted to include this information.

5. Attach a line drawing showing the water flow through the facility. Indicate source water; operations contributing demineralization concentrate to the effluent; and all discharges to waters, and indicate whether they are associated with demineralization. Indicate all waste streams, including solids, which are associated with demineralization but which are not discharged to waters, and indicate their disposition. Construct a water balance on the line drawing by showing average and maximum flows between intakes, operations, treatment units, and discharges. For each discharge, provide a description of the following:

A. All operations contributing to the effluent, including process wastewater, sanitary wastewater, filter backwash, membrane wash water, color removal wash water, etc.;

B. The design maximum flow contributed by each operation;

C. The treatment received by the effluent; and

D. Material Safety Data Sheets (MSDS), dosage rates, frequency of addition, or similar information for any chemical additives or biocides.

SECTION II SOURCE WATER DESCRIPTION

THIS SECTION MUST BE COMPLETED BY ALL APPLICANTS, REGARDLESS OF THE SIZE OF THE FACILITY OR DISCHARGE FLOW

1. For each source water, supply the following information:

A. Source Water Identification (aquifer name, screened or intake depth interval, geological formation, or name of surface water body)	B. Classification of Source Water (See instructions for this form and Chapter 62-520 or 62-302, F.A.C.)
Mid Hawthorne Aquifer	G-II

2. Attach analytical data reports documenting water quality characterization for the source water. Note: Source water characterization is required for completion of this application. Where appropriate, results may be summarized in the tables in Section V of this form, in the columns titled "Intake."

SECTION III TYPE OF DISPOSAL SYSTEM

THIS SECTION MUST BE COMPLETED BY ALL APPLICANTS, REGARDLESS OF THE SIZE OF THE FACILITY OR DISCHARGE FLOW

1. Types of disposal system(s) used by the facility:

(check all applicable items)

- ☐ Surface water discharge
- ☑ Ground water discharge (other than underground injection)
- ☑ Underground injection
- ☐ Blending at a DEP-permitted wastewater facility
- ☐ Blending with reclaimed water
- ☐ Other (describe) _____

Note: If underground injection is the sole form of disposal for demineralization concentrate at the facility, a separate wastewater permit for demineralization concentrate discharge is not required.

2. Provide a complete description of the disposal system(s) used by the subject facility.

Shallow Injection well is the primary disposal with dual absorption fields as a back up for discharge of brine water from a Reverse Osmosis Unit.

3. For surface water discharge, complete the following items:

A. Outfall Location

1. Outfall No. (List)	2. Latitude			3. Longitude		
	Deg.	Min.	Sec.	Deg.	Min.	Sec.

B. Outfall Design

1. Outfall No. (List)	2. Design Configuration and Materials	3. Distance from Shore (ft.)	4. Diameter (ft.)	5. Invert elevation of discharge (ft. NGVD)	6. Minimum Water Depth at POD (ft.)

C. Identify the concentrate discharge flow from each outfall.

D. What is the minimum 7-day 10-year low flow of the receiving water at each outfall (if applicable)?

E. Is this a new discharge?

☐ YES
☐ NO

F. Is this an expansion of an existing discharge?

☐ YES
☐ NO

G. New or expanded discharges are subject to the antidegradation requirements in Rules 62-4.242, F.A.C., and 62-302.300, F.A.C. If the response is YES to either Item E. or F., above, provide documentation that the discharge will meet the antidegradation requirements in these rules by attaching a separate report.

Note: Discharges from Small Water Utility Businesses are presumed to be allowable and permittable pursuant to the criteria in Sections 403.0882(6)(a)1,2, and 3, F.S., which are listed in Section IV of this form, provided that none of the conditions in Sections 403.0882(6)(b)1. through 7., F.S., are present.

H. Provide documentation demonstrating that the discharge meets all applicable water quality criteria in Chapter 62-302, F.A.C. Refer to Section V, as needed.

I. Mixing Zone for Ionic Imbalance Toxicity or Other Parameters.

(a) Do you Request a Mixing Zone under paragraph 62-4.244(3)(d), F.A.C., for acute toxicity due to ionic imbalance?

Note: The term "ionic imbalance toxicity" refers only to the failure of whole effluent toxicity tests due predominantly to the presence of constituents naturally occurring in the source water (Section 403.0882(4), F.S.). The maximum size of the mixing zone available under Rule 62-4.244(3)(d), F.A.C., shall be no greater than two times the water depth at the POD. (ref. sub-subparagraph 62-4.244(3)(d)1.b., F.A.C.)

☐ YES (provide water depth at the POD and method of determination)

☐ NO

(b) If the response to Item I above is YES, is the facility a Small Water Utility Business as defined in Section 403.0882, F.S., and the instructions for this form?

☐ YES (complete Section IV, Item 1, regarding mixing zone requests for Small Water Utility Businesses)

☐ NO (continue)

(c) If the response to Item I.(b), above, is NO (i.e., the facility is not a Small Water Utility Business), but the Applicant is requesting a mixing zone for acute toxicity due to ionic imbalance under paragraph 62-4.244(3)(d), F.A.C., and if the demineralization concentrate discharge is already in existence, attach the results of tests conducted in accordance with the Major Seawater Ion Imbalance Testing (MSIIT) protocol, as updated in 2004, demonstrating ionic imbalance toxicity.

Note for discharge to Outstanding Florida Waters (OFWs): Pursuant to Section 403.061(11)(b), F.S., mixing zones for demineralization concentrate discharges are prohibited, except for chronic toxicity due to ionic imbalance under Section 403.0882(4), F.S., for facilities that are otherwise permittable under Section 403.0882, F.S. Section 403.061(11)(b), F.S., and Rule 62-4.244, F.A.C., do not allow mixing zones in OFWs for other constituents.

(d) If the response to Item I.(a), above, is NO, and a mixing zone is requested for any other parameter, documentation for each parameter for which a mixing zone is requested must be provided, in accordance with the requirements of paragraph 62-4.244(3)(a), F.A.C.

J. Bioassay Toxicity Testing Data

Identify all bioassay tests for acute and chronic toxicity conducted on the demineralization concentrate discharge from this facility within the last 3 years. Describe the purposes of the tests, indicate the test result [acute test: LC_{50} >20% effluent; chronic test: No Observed Effect Concentration (NOEC)], and indicate whether each test passed or failed. Use the space below, or attach additional sheets, if needed.

K. If any of the acute or chronic toxicity tests in the preceding item of this section failed, provide the analytical results, if available, for calcium, potassium, sodium, magnesium, chloride, bromide, sulfate, alkalinity, specific conductance/salinity, carbonate, and fluoride in the source water and/or concentrate in order to demonstrate whether the failure was predominantly due to naturally occurring constituents from the source water, pursuant to Section 403.0882(4) F.S.

4. For underground injection discharge, complete the following items:

Note: All facilities that discharge by underground injection must obtain an Underground Injection Control (UIC) permit in accordance with Chapter 62-528, F.A.C., and, if an additional disposal system is used, may also be required to obtain a permit in accordance with subsection 62-620.625(6), F.A.C., and Section 403.0882, F.S.

A. Is injection:

- ☐ the sole disposal system used by the facility?
- ☑ the primary disposal system for the facility?
  If so, identify other disposal system(s) used by the facility dual drainfields
- ☐ a backup discharge for another disposal system?
  If so, identify other disposal system(s) used by the facility _____

B. Underground Injection Well Facility Location

County	Lee
City or Town (if applicable)	Useppa Island
Street or Description	See location map
Latitude	26 ° 39 ' 43.2 "N
Longitude	82 ° 12 ' 44.3 "W
Dates Coordinates Determined	3/22/2020
Method Used to Obtain Coordinates	Google Earth

C. Underground Injection Well Facility

Identification Number or Permit Application Number	45884-003-UC/5O

D. Design Capacity of the Underground Injection Well Facility

Current Design Capacity		.054	Mgd
Proposed Incremental Design Capacity	+	0	Mgd
Proposed Total Design Capacity	=	.054	Mgd

E. Basis of Design Flow

- ☐ Annual Average Daily Flow
- ☐ Maximum Monthly Average Daily Flow
- ☐ Three-Month Average Daily Flow
- ☑ Other

If other, specify. Maximum Per Day

F. Is injection continuous or intermittent?

- ☐ Continuous
- ☑ Intermittent

If the discharge is intermittent, describe the discharge frequency and duration and the discharge method during periods when demineralization concentrate is not injected.

5. For land application, complete the following items:

A. Type of Land Application System

- ☐ Spray field. Date of initial operation _____
- ☐ Infiltration basin. Date of initial operation _____
- ☐ Percolation/evaporation pond. Date of initial operation _____
- ☐ Infiltration gallery. Date of initial operation _____
- ☑ Other land application system. Describe 2 Drainfields, Date of initial operation 7/1999

B. Size of Application Areas and Application Rates

Site	Area (acres)	Rate (inches/week)	Capacity (mgd)
Useppa Island Dual Drainfields	.23	561.5***	.05
Total	.23	561.5	.05

C. Ground water Quality Evaluation: For the proposed land application system, explain how the ground water quality criteria in Chapter 62-520, F.A.C. will be met at the edge of the zone of discharge. Dimensions for zones of discharge are established in subsection 62-522.410(2), F.A.C. Additionally, provide background water quality data for the receiving groundwater, in accordance with subparagraph 62-620.625(6)(a)8., F.A.C.

D. Is the land application system: ☑ Existing ☐ New

E. Is the land-applied discharge blended, or proposed to be blended if the facility is new?: ☐ YES ■ NO
If YES, indicate the type of waste stream with which the concentrate discharge is blended (check all of the following that apply):

☐ Reclaimed water (If the discharge is blended with reclaimed water, please complete Item III.6., below)
☐ Domestic or Industrial Wastewater (If the discharge is blended with wastewater please complete Item III.7., below)
☐ Other; specify _____

F. Design Capacity of the Land Application System

Current Design Capacity		.050	Mgd
Proposed Incremental Design Capacity	+	0	Mgd
Proposed Total Design Capacity	=	.050	Mgd

G. Basis of Land Application System Design Flow

☐ Annual Average Daily Flow
☑ Maximum Monthly Average Daily Flow
☐ Three Month Average Daily Flow
☐ Other

If other, specify _____

H. Is land application continuous or intermittent**?**

☐ Continuous ☑ Intermittent

If the discharge is intermittent, describe the discharge frequency and length of discharge periods, and the discharge method during periods when demineralization concentrate is not land applied.

I. Underdrains and Perimeter Ditches

a. Is the land application system underdrained? ☐ YES ■ NO

b. If yes, describe how effluent from the underdrain system discharges, whether it drains to surface water or ground water, and include the discharge in the appropriate part of Section III of this application, with discharge characterization, as needed.

c. Are perimeter ditches used? ☐ YES ☐ NO

d. If the response to Item c. is YES, will the perimeter ditches be excavated to a depth which will intersect the seasonal high ground water table or the ground water mound during any portion of the year?

☐ YES ☐ NO

e. If the response to Item c. is YES, describe measures that will be implemented to assure compliance with applicable ground water quality standards.

6. For blending with reclaimed water as defined in subsection 62-610.200 F.A.C., complete the following items:

Note: If a single municipality or utility owns and operates both the water treatment facility that generates the concentrate and the domestic wastewater facility that produces the reclaimed water, a separate discharge permit is not required for the concentrate discharge in accordance with paragraph 62-610.865(7)(b), F.A.C. In this case, however, the domestic wastewater permit must be revised to incorporate all aspects of demineralization concentrate blending in accordance with the requirements of Rule 62-610.865, F.A.C.

A. Attach a copy of an executed agreement between the water treatment facility owner and the domestic wastewater facility owner regarding acceptable project performance in accordance with paragraph 62-610.865(7)(c), F.A.C.

B. Provide documentation that the facility will comply with the concentrate storage requirements in subsection 62-610-.865(10), F.A.C.

C. Provide documentation that the facility will comply with the concentrate monitoring requirements in subsection 62-610.865(8), F.A.C.

D. Provide documentation of concentrate, reclaimed water, and blend quality in accordance with the requirements of subsection 62-610.865(6), F.A.C.

7. For blending at a Department-permitted wastewater facility, complete the following items:

Note: In accordance with the requirements of subparagraph 62-620.625(6)(a)4., F.A.C., blending of concentrate for purposes of treatment or disposal with wastewater from a Department-permitted wastewater facility may require a separate permit unless the receiving wastewater facility permit is revised to incorporate all aspects of concentrate treatment or disposal in accordance with the requirements of subsection 62-620.200, F.A.C., to provide reasonable assurance that the discharge will meet applicable water quality standards.

A. Identify the type of receiving facility and DEP wastewater permit number:

☐ Domestic wastewater facility -- permit number _____
☐ Industrial wastewater facility -- permit number _____

B. Identify the point at which concentrate is blended at the facility:

☐ Blended with effluent (after treatment and prior to discharge)
☐ Blended at another point within the treatment process. Specify _____

C. What is the permitted capacity of the wastewater facility? Specify the averaging period used.

D. What is the proposed blend ratio of demineralization concentrate and wastewater or effluent?

E. Provide a characterization of the blended wastewater.

F. Attach a copy of an executed agreement between the water treatment facility owner and the wastewater facility owner that establishes a framework for operating protocols and provisions and a division of responsibilities regarding water quality between the two parties.

SECTION IV REQUIREMENTS FOR SMALL WATER UTILITY BUSINESSES

THIS SECTION MUST BE COMPLETED FOR FACILITIES MEETING THE DEFINITION OF SMALL WATER UTILITY BUSINESS THAT DISCHARGE TO SURFACE WATERS

1. The following items address the information required in Section 403.0882(6)(a), F.S., to demonstrate that the discharge is presumed to be allowable and permittable in all waters:

A. Will the discharge achieve a 4:1 dilution ratio within a distance $\leq$ 2 times the water depth from the Point of Discharge under all flow conditions, consistent with sub-subparagraph 62-4.244(3)(d)1.b., F.A.C.?

☐ YES
☐ NO

B. Will the discharge meet all applicable water quality standards pursuant to Rule 62-302.530, F.A.C. within a distance $\leq$2 times the water depth from the Point of Discharge under all flow conditions, consistent with Rule 62-4.244(3)(d)1.b., F.A.C.? Provide data and/or calculations, as needed.

☐ YES
☐ NO

C. Does the discharge meet the following criteria? (Attach analytical data, on an annual average basis, if multiple sampling events have been performed)

Carbonaceous Biochemical Oxygen Demand (five day)	5 mg/L
Total Suspended Solids	5 mg/L
Total Nitrogen as Nitrogen	3 mg/L
Total Phosphorus as Phosphorus	1 mg/L

☐ YES
☐ NO

D. If fecal coliforms are present in the source water, does the concentration of fecal coliforms in the demineralization concentrate discharge meet applicable water quality standards for the receiving water classification pursuant to Rule 62-302.530, F.A.C.? (provide confirmatory data in Section V of this form)

☐ YES
☐ NO

Note: If the responses to Items IV.1.A., B., C., and D. were all "YES," then continue to Item IV.2. If any responses were "NO," then the discharge does not meet the presumption of allowability and permittability. However, the concentrate discharge potentially may be permitted in accordance with other provisions of Section 403.0882, F.S., and Chapter 62-620, F.A.C. Continue to Section V.

2. The following items address the information required in Section 403.0882(6)(b), F.S., to evaluate whether there are any specific factors that may disqualify the discharge from meeting the presumption of allowability and permittability, as follows:

A. Is the point of discharge located at a reasonably accessible point for operation and maintenance, regulatory inspection, sampling, and other appropriate activities? (Provide a map or other documentation demonstrating this, and describing how the selected discharge location will minimize water quality impacts to the greatest possible extent)

☐ YES
☐ NO

B. Is the receiving water an Outstanding Florida Water other than the Indian River Lagoon?

☐ YES
☐ NO

C. Is the discharge directly into Class I or Class II surface waters?

☐ YES
☐ NO

D. If the discharge is into a surface water with a Department-established Total Maximum Daily Load (TMDL), does any constituent present in the discharge not meet the established load for the receiving water?

☐ YES, one or more constituents present in the discharge does not meet the Department established load for the receiving water
☐ NO, all constituents present in the discharge meet Department-established loads.
☐ NA (Not Applicable: The discharge is not into a surface water with a Department-established TMDL)

E. Have any bioassay toxicity tests previously performed for a Department issued surface water discharge permit for the facility failed? If such results were provided as a response to Section III, Items 3.J. and K., regarding toxicity testing results, indicate so in the space below

☐ YES
☐ NO
☐ NA, no toxicity tests have been conducted.

Note: If the response to IV.2.A is NO or if the response to any one of Items IV.2.B., C., D., or E.. is YES, then the discharge does not meet the presumption of allowability and permittability.

SECTION V CONCENTRATE DISCHARGE CHARACTERIZATION

THIS SECTION MUST BE COMPLETED BY ALL APPLICANTS, REGARDLESS OF THE SIZE OF THE FACILITY OR DISCHARGE FLOW.

1. Provide documentation that all sampling for the analytical results reported in this section was performed in accordance with Chapter 62-160, F.A.C.

See Attached Analysis

2. Provide documentation that laboratory tests reported in this section were performed by laboratories certified by the Department of Health (DOH) as required by Chapter 62-160, F.A.C.

See attached lab reports

3. Provide documentation that all field activities, including on-site tests and sample collection, whether performed by a laboratory or a certified operator, reported in this section follow all applicable procedures described in DEP-SOP-001/01 (February 1, 2004). Alternate field procedures and laboratory methods may be used where they have been approved according to the requirements of Rules 62-160.220, and 62-160.330, F.A.C.

See Attached Sampling Reports

4. Does the facility discharge demineralization concentrate to ground waters?

☑ YES (Provide a characterization of the demineralization concentrate discharged to ground water for the primary and secondary ground water standards as identified in Chapter 62-520, F.A.C.)
☐ NO

5. Does the facility discharge demineralization concentrate to surface waters?

☐ YES (Provide a characterization of the demineralization concentrate discharged to surface waters pursuant to Parts A, B, and C of the following tables in this section.)
☑ NO

6. Does the facility discharge any constituents of chemical additives or biocides identified in Item I.5.D. of this form?

☐ YES (Provide a characterization of the chemical additives or biocides discharged to surface waters)
☑ NO

2. Certifications For Permit Renewals

This is to certify the engineering features of this project have been examined by me and found to be in conformity with sound engineering principles, applicable to the treatment and/or disposal of demineralization concentrate characterized in the permit application. There is reasonable assurance, in my professional judgment, that the subject facilities, when properly maintained and operated, will discharge a demineralization concentrate that complies with all applicable statutes of the State of Florida and the rules of the Department.

Signature

Patrick Day
Name (please type)

(Affix Seal)

DRMP, Inc.
Company Name

1404 Dean St, Suite 101.
.Fort Myers, FL 33901

Florida Registration No.: 56709.

Telephone No:: 239 357-7194

Date 07/09/2025

Email address pday@drmp.com.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Donald Beckstead, President Useppa Utilities
Name & Official Title (Please type or print)

239 283-1061
Telephone No. (area code & No.)

Signature

7/7/25
Date Signed

E-mail Address: dbeckstead@useppa.com

SECTION 3

SUPPORTING COUMENTATION FOR DRAINFIELDS

CONCENTRATE DRAINFIELD REPORT

The Useppa Island Water Plant uses a Reverse Osmosis (RO) System for water treatment. The RO produces a concentrate that is disposed of though one of two systems. The primary disposal is through shallow well injection. The backup system is the use of two drainfields. The injection well is permitted for 0.054 MGD Daily Maximum Flow while the backup drainfields are permitted for 0.015 MGD Maximum Daily Flow. Both systems are included in permit # FLA 146102.

The two drainfields are each 25 x 20 feet and are piped in a parallel fashion with valves directing flow to the individual drainfields. These drainfields were the primary disposal of the concentrate form the installation of the RO system until the injection well became operational in 2019. Since 2019 no concentrate has been directed to the drainfields. It is anticipated that no conctrate will be sent to the drainfields unless thee is a maintenance issue with the injection well. In this case the RO system will have to monitored so no more than 0.015 MGD of concentrate is sent to eh drainfields. The drianfields exist for backup disposal only.

SECTION 4

SUPPORTING COUMENTATION FOR INJECTION WELL
(Sent in email as a separate document to preserve electronic signature)

USEPPA ISLAND RO CONCENTRATE DISPOSAL FACILITY
PERMIT RENEWAL APPLICATION

SECTION 5

SUPPLEMENTAL DATA

Useppa WTP Flow Data

Sate	Raw Water (MGD)	Permeate (MGD)	Concenttrate (MGD)
Feb-25	0.40143	0.29036	0.11107
Jan-25	0.36871	0.24774	0.12097
Dec-24	0.46000	0.33290	0.12710
Nov-24	0.30733	0.22200	0.08533
Oct-24	0.18890	0.14213	0.04677
Sep-24	0.38834	0.29367	0.09467
Aug-24	0.48000	0.36581	0.11419
Jul-24	0.46645	0.35000	0.11645
Jun-24	0.44500	0.34200	0.10300
May-24	0.53903	0.42161	0.11742
Apr-24	0.52934	0.41467	0.11467
Mar-24	0.50419	0.39258	0.11161
Feb-24	0.48828	0.37690	0.11138
Jan-24	0.42097	0.32742	0.09355
Dec-23	0.52194	0.40323	0.11871
Nov-23	0.50353	0.38620	0.11733
Oct-23	0.51065	0.39581	0.11484
Sep-23		No Data	
Aug-23	0.61339	0.33839	0.27500
Jul-23	0.48581	0.34613	0.13968
Jun-23	0.44933	0.31600	0.13333
May-23	0.47129	0.33194	0.13935
Apr-23	0.59900	0.34100	0.25800
Mar-23	0.45678	0.32839	0.12839

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

USEPPA ISLAND RO LOCATION MAP
PROJ#25-0259.000

EXHIBIT
1

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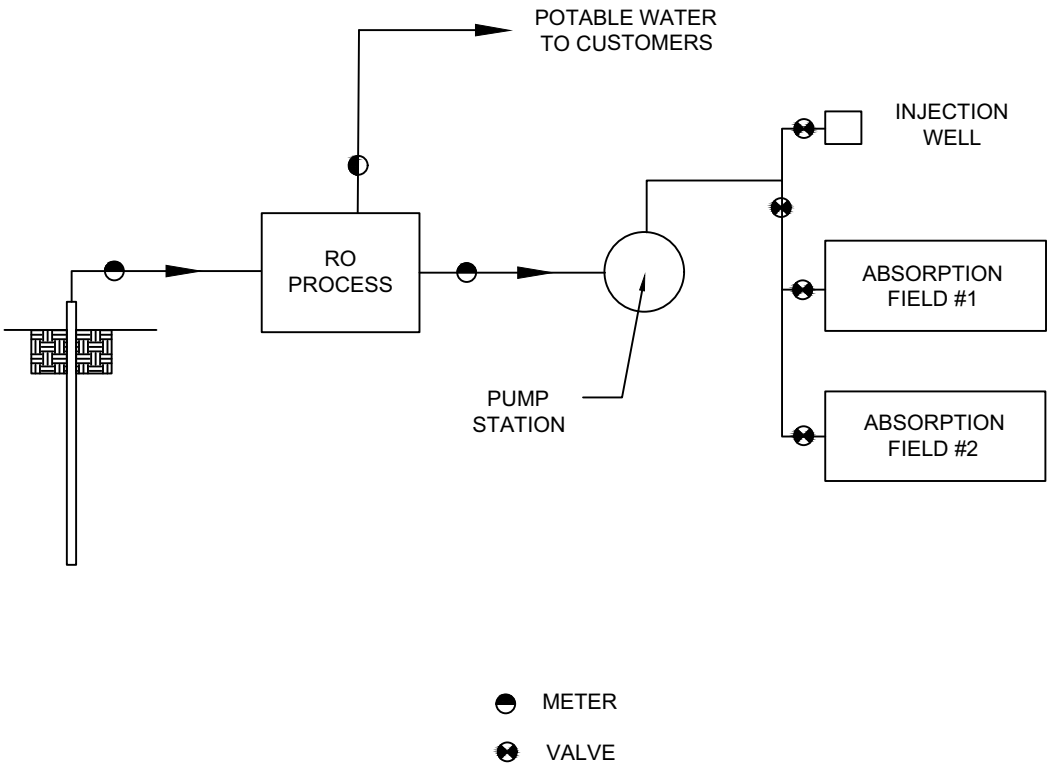

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USEPPA ISLAND RO
PROCESS FLOW DIAGRAM
PROJ#25-0259.000

EXHIBIT
2

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MATERIAL SAFETY DATA SHEET

AMERICAN WATER CHEMICALS
9203-A KING PALM DRIVE
TAMPA FL 33619

AWC A-102 PLUS

AWC A-102 PLUS

Section I – Identification of Product and Company

AMERICAN WATER CHEMICALS 9203-A KING PALM DRIVE TAMPA FL 33619	Telephone Number: (813)-246-5448 Chemtrec phone Number: (800) 424-9300
Date Prepared: March 20, 1999	Date Revised: April 12, 2007

Section II - Hazard Ingredients/Composition Information

This product is not hazardous as defined by OSHA regulations.

No component is considered to be a carcinogen by the National Toxicology Program, the International Toxicology Program, the international Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

Information for specific product ingredients as required by the U.S.OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

Section III – Hazards Identification

EMERGENCY OVERVIEW

CAUTION

May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Emergency Response Guide is not applicable

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water.

Health Hazards (Effects of Acute and Chronic Overexposure)
Inhalation: Mists/aerosols may cause irritation to upper respiratory tract.
Eye Contact: May cause moderate irritation to the eyes.
Skin Contact: Primary route of exposure; may cause slight irritation to the skin.
Ingestion (Swallowing): May cause slight gastrointestinal irritation.
Other Signs and Symptoms of Overexposure: May cause redness or itching of skin.
Medical Conditions Generally Aggravated by Exposure: Not known.

Section IV – First Aid Procedures

Inhalation: Immediately remove to fresh air. Get medical attention if nasal, throat or lung irritation develops.
Eye Contact: Remove contact lenses. Hold eyelids apart. Immediately flush with plenty of low pressure water for at least 15 minutes. Call a physician. Remove material from skin and clothing.
Skin Contact: Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Thoroughly wash before reuse or discard. Wash skin with soap and water until clean. Get medical help if irritation occurs.
Ingestion (Swallowing): If conscious, immediately give several glasses of water or milk. Do not induce vomiting. (Do not give food to an unconscious person). Take immediately to hospital or physician.

Section V - Fire and Explosion Hazard Data

Flash Point (Method Used) Not applicable, aqueous solution	**Flammable Limits:** Not applicable, aqueous solution
Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide.	
Special Fire Fighting Procedures and Protective Equipment: Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).	
Hazardous Decomposition or Combustion Byproducts: Elemental oxides	

Section VI – Accidental Release Measures

Steps to Be Taken in Case Material is Released or Spilled:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
Disposal Instructions:
Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharge under a permit. Product as is- Incinerate or land dispose in an approved land fill.

Section VII - Precautions for Safe Handling and Storage

Handling:
Normal chemical handling.
Storage:
Keep container closed when not in use. Protect from freezing. Do not store at elevated temperatures. Use proper containers.

Section VIII – Exposure Controls and Personal Protection

Exposure Limits: This product is not hazardous as defined by OSHA regulations **Engineering Controls:** Adequate ventilation
Respiratory Protection (Specify Type) Use NIOSH/MSIIA approved respiratory protection equipment (full face piece recommended) when airborne exposure is excessive. If used, full facepiece replaces need for chemical goggles. Consult respirator manufacturer to determine appropriate type of equipment for given application. The respirator use limitations specified by NIOSH/MSHA or the manufacture must be observed. Respiratory protection programs must be in compliance with 29CFR1910.134.
Other Protective Clothing or Equipment: Eyewash facility and safety shower in immediate area. Moreover, when handling large amounts, use of impervious aprons and boots suggested.
Skin Protection: Neoprene gloves. Wash off after each use. Place as necessary.
Eye Protection: Splash proof chemical goggles.
Work/Hygienic Practices: Follow general work/hygienic practices. However, obey all federal, state and local regulations.

Section IX - Physical/Chemical Characteristics

Boiling Point: >100°C (212°F)	Crystallizing point: <0°C (32°F)
Vapor Pressure (mm Hg @ 20°C): NE	Specific Gravity (H2O = 1): 1.10±0.05
Vapor Density (AIR = 1): NE	Viscosity (Brookfield)@25°C: <100 cps
Solubility in Water: Complete	pH: 3.0 – 4.0
Appearance and Odor: Clear, colorless to light yellow liquid, with a characteristic odor.	

NR: NOT REQUIRED, NE: NOT ESTABLISHED, NA: NOT APPLICABLE

Section X – Stability & Reactivity Data

Stability/Instability: Stable under normal storage conditions.
Incompatibility (Materials to Avoid): May react with strong oxidizers
Hazardous Polymerization: Does not occur
Decomposition Products: Elemental Oxides

Section XI – Toxicological Information

Available data on closely related material indicates the following:	
ORAL LD_{50}(Rats):	>2,400 mg/kg (Estimated value)
DERMAL LD_{50}(Rabbits):	>7,940 mg/kg (Estimated value)
EYE IRRITATION:	Not established
SKIN IRRITATION:	Not established

Section XII – Ecological Information

Available data on closely related material indicates the following:

Aquatic Toxicity:
Daphnia Magna 48 Hr acute toxicity LC_{50}=2700 mg/L, no effect level = 1540 mg/L
Fathead Minnow 96 Hr acute toxicity, no effect level = 5000 mg/L

Biodegradation:
BOD-28 = 1 mg/g
BOD-5 = 1 mg/g
COD = 116 mg/g
TOC = 26 mg/g

Section XIII – Disposal Considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is not applicable.

The state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

Section XIV- Transport Information

D.O.T. Proper Shipping Name: N/A	
Technical class: Water treatment chemical	D.O.T. Hazard class: N/A
Identification No: N/A	Packing Group: N/A

Section XV – Regulatory Information

Workplace Classification: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1 910.1200).
This product is not a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).
SARA TITLE III: Section 311/312 Categorizations (40CFR370): This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.
SARA TITLE III: Section 313 information (40CFR372): This product does not contain a chemical which is listed in section 313 at or above de minimis concentrations.
CERCLA Information (40CFR302.4): Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.
US. Toxic Substances Control Act (TSCA): All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Potable Water Approval: This product is NSF/ANSI Standard 60 certified. Maximum use level = 10mg/L

Section XVI – Other Information

HMIS RATINGS:

Health	Flammability	Reactivity	Special Notice
1	0	0	NONE

NFPA RATINGS:

Health	Flammability	Reactivity	Special Notice
1	0	0	NONE

SPECIAL HAZARD DESIGNATIONS KEY: 0-MINIMAL, 1-SLIGHT, 2-MODERATE,3-SERIOUS,4-SEVERE

Recommended uses and Restrictions: Keep container closed when not in use. Corrosive to metals, store in plastic or FRP tanks. Avoid breathing mist. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

The data contained in this Material Safety Data Sheet has been prepared based upon an evaluation of the ingredients contained in the product, their concentration in the product and potential interactions. The information is offered in good faith and is believed to be accurate. It is furnished to the customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure his employees are properly informed and advised of all safety precautions required. The information is furnished for compliance with the "Occupational Safety and Health Act" of 1970, the "Hazards Communication Act" of 1983 as well as various other Federal, State and Local regulations. Use or dissemination of all or part of this information for any other purpose is illegal.

ODYSSEY
MANUFACTURING CO.

MATERIAL SAFETY DATA SHEET

REVISED 4/12/12

SECTION I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

ODYSSEY MANUFACTURING CO.
1484 Massaro Boulevard
Tampa, Florida 33619
1-813-635-0339 (24 hours)

EMERGENCY RESPONSE NUMBER:
1-800-ODYSSEY (FLORIDA)
1-813-635-0339 (OUTSIDE FLORIDA)
1-813-340-9093 (Control Room Cell Phone)

SUBSTANCE: SODIUM HYPOCHLORITE
TRADE NAME: Ultra-CHLOR
CHEMICAL NAME/SYNONYMS: Sodium Hypochlorite Solution, Bleach Solution, Bleach Liquor, Hypo-solution, Bleach, and Liquid Bleach.
CAS NUMBER: 7681-52-9
CHEMICAL FAMILY: Alkali
FORMULA: NaOCl
DOT PROPER SHIPPING NAME: Hypochlorite Solution
DOT HAZARD CLASS: 8 (Corrosive) PG III; PG II (For solutions greater than 16% available chlorine)
DOT IDENTIFICATION NO: UN1791
RQ: 100 pounds (Approximately 100 gallons of Odyssey Ultrachlor 12.5 Trade Percent Sodium Hypochlorite)
DOT EMERGENCY GUIDE NO: 154

SECTION II COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT(S):	
Sodium Hypochlorite (NaOCl)	10.0 - 15.0% wt
Salt (NaOCl)	6.0 – 8.0% wt
Sodium Hydroxide (NaOH)	0.2 - 0.4% wt
Water (H_2O)	76.6 - 83.8% wt

SECTION III HAZARDS IDENTIFICATION

NFPA CLASSIFICATION (SCALE 0-4): Health=2 Fire=0 Reactivity=1
EC CLASSIFICATION (ASSIGNED): C (Corrosive)

EMERGENCY OVERVIEW
COLOR: Yellow
PHYSICAL FORM: Liquid
ODOR: Chlorine Odor
MAJOR HEALTH HAZARDS: Respiratory Tract Burns, Skin Burns, Mucous Membrane Burns, and Eye Irritation
HAZARDOUS MIXTURES WITH OTHER LIQUIDS, SOLIDS, OR GASES: Reacts violently with acids liberating chlorine gas. Also reacts with organic substances. Reaction with water is *not* exothermic.

POTENTIAL HEALTH EFFECTS

INHALATION:

- SHORT TERM EXPOSURE: Irritation to respiratory tract. May have same as effects reported in other routes of exposure, burns, blisters, nausea, difficulty breathing, and lung congestion.
- LONG TERM EXPOSURE: Same as effects reported in short term exposure.

SKIN CONTACT:

- SHORT TERM EXPOSURE: Irritant, reddening of the skin. May have burns, blisters, and itching
- LONG TERM EXPOSURE: Same as effects reported in short term exposure.

EYE CONTACT:

- SHORT TERM EXPOSURE: Irritation (possibly severe), possible eye damage
- LONG TERM EXPOSURE: Same as effects reported in short term exposure.

INGESTION:

- SHORT TERM EXPOSURE: Burns, vomiting stomach pain, disorientation, bluish skin color, convulsions, coma
- LONG TERM EXPOSURE: Same as effects reported in short term exposure.

CARCINOGEN STATUS
OSHA: N
NTP: N
IARC: N

SECTION IV FIRST AID MEASURES

INHALATION: Remove from exposure and get fresh air. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Keep warm and at rest. Get medical attention immediately if artificial respiration is required.

SKIN CONTACT: Remove contaminated clothing, jewelry, and shoes immediately. Flush affected area with large amounts of water, preferably a safety shower. Use soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). For burns, cover affected area securely with sterile, dry, loose fitting dressing. If skin is burned, get medical attention immediately.

EYE CONTACT: Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15 minutes). Continue irrigating with a normal saline solution until ready to transport to physician. Cover with sterile bandages. Get medical attention immediately.

INGESTION: Rinse mouth with water. Drink large quantities of milk (water if no milk is available). Milk of magnesia may be helpful. **DO NOT USE ACIDIC ANTIDOTES SUCH AS SODIUM BICARBONATE.** When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, do not induce vomiting and turn their head to the side. Never make an unconscious person vomit or drink fluids. Get medical attention.

NOTE TO PHYSICIAN: For inhalation, consider oxygen. For ingestion, avoid gastric lavage, emesis, sodium bicarbonate and acid solutions. Consider the use of antacids.

SECTION V FIRE FIGHTING MEASURES

FLASH POINT: Non-flammable
FLAMMABLE LIMITS: Non-flammable

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard. Toxic fumes can be liberated by contact with acid or heat.

EXTINGUISHING MEDIA: Regular dry chemical, carbon dioxide, water, or foam suitable for surrounding fire. For large fires, use regular foam or flood with fine water spray.

FIRE FIGHTING: Wear self-contained breathing apparatus and full protective clothing. Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Use extinguishing agents appropriate for surrounding fire. Do not get water directly on material. For large fires, flood with fine water spray. Reduce vapors with water spray. Apply water from a protected location or from a safe distance. Avoid body contact or inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

SECTION VI ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE: Do not touch spilled material. Stop leak if possible without personal risk. For small spills, collect spilled material in appropriate container for disposal and consider absorbing with sand or other non-combustible material (e.g., do not use sawdust or other combustible material). Be advised, however, that the use of absorbing material is creating hazardous waste and this absorbing material must now be disposed of properly. Collect spilled material in appropriate container for disposal. For small dry spills, move containers away from spill to a safe area. For large spills, dike for later disposal. If possible, do not allow material to enter sewers, streams, ponds or storm conduits as concentrated solutions will seriously injure aquatic life. Keep unnecessary people away, isolate hazard area and deny entry. Contain in as small an area as possible, such as a holding area for dilution and neutralization. Contain spill in plastic drums when available. Dispose of in accordance with Federal, State, and local regulations. Personnel engaged in cleanup operations must be equipped with NIOSH approved respirator protection, rubber boots, gloves, and clothing to avoid body contact. **Reportable Quantity (RQ)**: 100 pounds (approximately 100 gallons of Odyssey Ultrachlor 12.5 Trade Percent sodium hypochlorite). In the event of a spill (e.g., defined as any release to the environment), call Odyssey Manufacturing and/or the emergency contact numbers as soon as possible for assistance. For releases higher than the Reportable Quantity (RQ), you must notify the State Emergency Response Commission (U.S. SARA Section 304) at ***(800) 320-0519 AND*** the National Response Center at ***(800) 424-8802 or (202) 426-2675*** (CERCLA Section103) ***within 15 minutes***. Sometimes they will communicate with each other ***BUT DO NOT DEPEND ON THIS!***

ADVANCE PLANNING: Plan in advance for an occupational release and have necessary equipment and neutralization agents on-site. Contact Odyssey Manufacturing for assistance.

SECTION VII HANDLING AND STORAGE

Store in vented, closed containers that provide protection from direct sunlight. Keep separated from incompatible substances and do not store near acids, ammonia, heat, or oxidizable materials or organics. When handling, do not mix with other cleaning agents that may liberate chlorine gas vapors (e.g., acidic agents).

Store and handle in accordance with all current regulations and standards.

SECTION VIII EXPOSURE CONTROLS AND PERSONNEL PROTECTION

EXPOSURE LIMITS: 2 mg/m3 AIHA recommended STEL 15 minute(s) for Sodium Hypochlorite
VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.
EYE PROTECTION: Splash goggles are preferred to a faceshield. Another option is to wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
CLOTHING: It is recommended to wear appropriate chemical resistant clothing to avoid body contact such as a rubber apron or rain suit. Boots are preferred for footwear.
GLOVES: Wear appropriate chemical resistant gloves.
RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

- Any chemical cartridge respirator with organic vapor cartridge(s).
- Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s)
- Any air-purifying respirator with a full facepiece and an organic vapor canister
- Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply (Use for Unknown Concentrations or those that may be Immediately Dangerous to Life or Health)
- Any self-contained breathing apparatus with a full facepiece (Use for High Concentrations or those which are immediately Dangerous to Life or Health)

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL APPEARANCE: Liquid
APPEARANCE AND ODOR: Clear - Chlorine odor like household bleach.
COLOR: Greenish –Yellowish cast
MOLECULAR WEIGHT: 74.44
MOLECULAR FORMULA: Na-O-Cl
BOILING POINT: Degrades at 230 Degrees Fahrenheit
FREEZING POINT: 7 Degrees Fahrenheit
SPECIFIC GRAVITY: 1.15 - 1.17 at 60 Degrees Fahrenheit

PH: Approximately 11 - 13
VAPOR PRESSURE (mm HG): Vapor Pressure of water + decomposition product Vapor Pressure
VAPOR DENSITY: Not Available
SOLUBILITY IN WATER: Complete
VOLATILITY: Not Available
EVAPORATION RATE: >1
COEFFICIENT OF WATER /OIL DISTRIBUTION: Not Available

SECTION X STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.
CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition. Dangerous gases may accumulate in confined spaces. May ignite or explode on contact with combustible materials.
INCOMPATIBLES: Acids, metals, amines, combustible materials, reducing agents. Specific reactions with sodium hypochlorite include the following:
ACIDS: Violent reaction.
ALUMINUM: Corrosive action.
AMINES: Form explosive chloramines.
AMMONIA: Form explosive chloramines.
AMMONIUM SALTS: May form explosive product.
BENZYL CYANIDE (ACIDIFIED): Explosive reaction.
CELLOLOSE: Violent reaction
ETHYLENEIMINE: Forms explosive 1-chloroethyleneimine.
FORMIC ACID: Explosive mixture.
METHANOL: May form explosive compound.
NITROGEN COMPOUNDS: Forms explosive N-chloro compounds.
ORGANIC AND COMBUSTIBLE MATERIALS: Fire and explosion hazard.
OXALIC ACID: Intense reaction
REDUCING AGENTS: Fire and explosion hazard
ZINC: Corrosive
HAZARDOUS DECOMPOSITION:
Thermal decomposition products – Chlorine and Hydrochloric Acid Vapors
Decomposition Products – Hypochlorous Acid Vapors
POLYMERIZATION: Will not polymerize.

SECTION XI SODIUM HYPOCHLORITE TOXILOGICAL INFORMATION

IRRITATION DATA: 10 mg eyes – rabbit moderate
TOXICITY DATA:
1gm/ kg oral-woman; TDLo; 45mg/kg intravenous-man TDLo; 5800 mg/ kg oral-mouse LD5O; 140 mg/ kq/9 week(s) continuous oral-rat TDLo
CARCINOGEN STATUS: According to the IARC, animal inadequate evidence, human no adequate data, Group 3 (Hypochlorite salts)
LOCAL EFFECTS:
Corrosive: inhalation, skin contact, eye, ingestion hazards
ACUTE TOXICITYLEVEL:
Slightly Toxic if ingested
MUTAGENIC DATA:
Mutation in micro organisms – Salmonella typhimurium 1mg / plate (-S9); DNA repair – Escherichiacoli 20ug/ disc; DNA damage – Esoherichiacoli 420 umol/L; phage inhibition capacity – Esoherichiacoli 103 ug/ well; micronucleus test - non-mammalian species multiple 200 ppb; cytogenetic analysis - non-mammalian species multiple 120 ug/ L; cytogenetic analysis – human lymphocyte 100 ppm 24hour(s); sister chromatid exchange – human embryo 149 mg/ L; cytogenetic analysis – hamster lung 100 mg/ L
HEALTH EFFECTS:
INHALATION
ACUTE EXPOSURE: May cause severe bronchial irritation, sore throat with possible blistering, coughing, stomatitis, nausea, labored breathing, shortness of breath and pulmonary epedema. 10-20 mg/m3 causes burning of the nose and throat; 40-60 mg/m3 may be fatal. If sufficient amounts are absorbed, may cause effects as detailed in acute ingestion.
CHRONIC EXPOSURE: No data available.

SKIN CONTACT

ACUTE EXPOSURE: Extent of damage depends on concentration, pH, volume of solution and duration of contact. May cause redness, pain, blistering, itchy eczema and chemical burns. Sensitization reactions are possible in previously exposed persons.

CHRONIC EXPOSURE: Effects depend on concentration and duration of exposure. Repeated or prolonged contact with corrosive substances may result in dermatitis or effects similar to acute exposure. Allergic dermatitis has also been reported.

EYE CONTACT

ACUTE EXPOSURE: May cause redness, pain, and blurred vision. Solutions of 5% splashed in human eyes have caused a burning sensation and later only slight superficial disturbance of the corneal epithelium which cleared completely in the next day or two without special treatment. However, one animal study reports a 5% solution causing only moderate irritation with clearing within 7 days. A higher concentration of 15% tested on rabbit eyes caused immediate severe pain, hemorrhages, rapid onset of ground-glass appearance of the corneal epithelium, moderate bluish edema of the whole cornea, chemosis and discharge for several days. Such eyes have sometimes healed in 2-3 weeks with slight or no residual corneal damage but they had neovascularization of the conjunctiva and distortion of the nictitating membrane by scarring.

CHRONIC EXPOSURE: Depending on concentration and duration of exposure, symptoms may be as those of acute exposure.

INGESTION

ACUTE EXPOSURE: May cause irritation and erosion of the mucous membranes, vomiting (possibly bloody) and abdominal pain and spasms. A drop in blood pressure, shallow respiration, edema (possibly severe) of pharynx, larynx, and glottis, confusion, convulsions, delirium and coma may occur. Cyanosis and circulatory collapse are possible. Esophageal or gastric perforation and strictures are rare. Death may occur, usually due to complications of severe local injury such as toxemia, shock, perforations, hemorrhage, infection and obstruction. Massive ingestions may produce fatal hyperchloremic metabolic acidosis or aspiration pneumonitis.

CHRONIC EXPOSURE: Sensitization reactions are reported in individuals who are exposed in small amounts through their water supply. High doses have caused sperm abnormality in mice.

SECTION XII ECOLOGICAL INFORMATION

ECOTOXICITY DATA:
FISH TOXICITY: 94.0 ug/L 96h hour(s) LC5O (Mortality) Cutthroat trout (Oncorhynchus clarki)
INVERTEBRATE TOXICITY: 31.6 ug/L 7 hour(s) 1C50 (Species Diversity) Protozoan phylum (Protozoa)
ALGAL TOXICITY: 90 ug/L 96 hour(s) LC5O (Mortality) Algae, phytoplankton, algai mat (Algae)
PHYTOTOXICITY: 230 ug/L 35 hour(s) (Biomass) Curled pondweed (Potamogeton crispus)
OTHER TOXICITY: 2.1 ug/L 28 day(s) (Chlorophyll) Aquatic community (Aquatic community)

ENVIRONMENTAL SUMMARY: Highly toxic to aquatic life.

SECTION XIII DISPOSAL CONSIDERATIONS

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001. Dispose in accordance with all applicable regulations.

SECTION XIV TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101 SHIPPING NAME-UN NUMBER: Sodium Hypochlorite) - UN1791
U.S. DOT 49 CER 172.101 HAZARD CLASS OR DIVISION: 8
U.S. DOT 49 CFR 172 .101 PACKING GROUP: III (less than 16% available chlorine) / II (16% or more available chlorine)
U.S. DOT 49 CFR 172.101 AND SUBPART E LABELING REQUIREMENTS: Corrosive
U.S. DOT 49 CFR 172.101 PACKAGING AUTHORIZATIONS:
EXCEPTIONS: 49 CFR 173.154
NON- BULK PACKAGING: 49 CFR 173.203 (less than 16% available chlorine) / 49 CFR 173.202 (16% or more available chlorine)
BULK PACKAGING: 49 CFR 173.241 (less than 16% available chlorine) / 49 CFR 173.242 (16% or more available chlorine)
U.S. DOT 49 CFR 172.101 QUANTITY LIMITATIONS:
PASSENGER AIRCRAFT OR RAILCAR: 5 LITERS / (less than 16% available chlorine) / 1 LITERS (16% or

more available chlorine)
CARGO AIRCRAFT ONLY: 60 LITERS / (less than 16% available chlorine) / 30 LITERS (16% or more available chlorine)

SECTION XV REGULATORY INFORMATION

U.S. REGULATIONS
TSCA INVENTORY STATUS: Y

TSCA 12(b) EXPORT NOTIFICATION: Not listed.
CERCLA SECTION 103 (40CFR302.4): Y
SODIUM HYPOCHLORITE: 100 LBS RQ
SARA SECTION 302 (40CFR355.30): N
SARA SECTION 304 (40CFR355.40): N
SARA SECTION 313 (40CFR372.65): N
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):
ACUTE: Y
CHRONIC: N
FIRE: N
REACTIVE: N
SUDDEN RELEASE: N
OSHA PROCESS SAFETY (29CFR1S1O.119): N
STATE REGULATIONS:
California Proposition 65: N EUROPEAN REGULATIONS:
EC NUMBER (BINECS): 231-668-3

EC RISK AND SAFETY PHRASES:

R 31	Contact with acids liberates toxic gas.
R 34	Causes burns.
S ½	Keep locked-up and out of reach of children.
S 28b	After contact with skin, wash immediately with plenty of soap and water.
S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S 50	Do not mix with incompatible materials.

CONCENTRATION LIMITS:

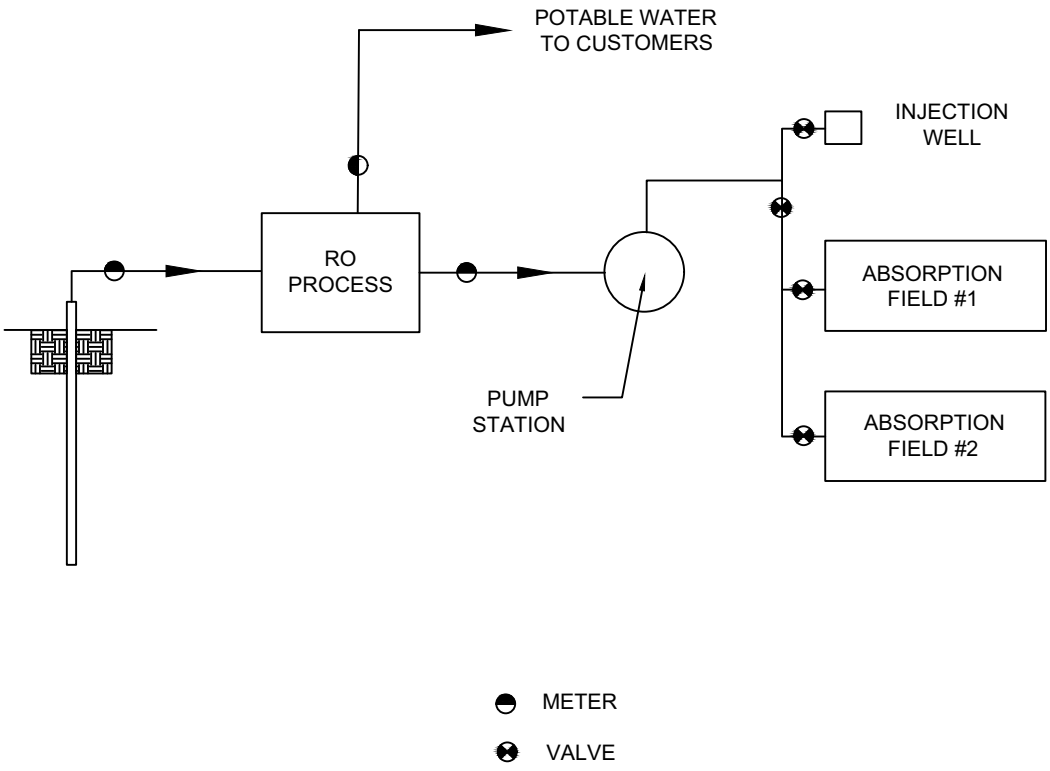
C>10%	C	R 31-34
5 % < = C <= 10 %	Xi	R 31-36/38

GERMAN REGULATIONS:
WATER HAZARD CLASS (WGK): 2 (Official German Classification)

SECTION XVI OTHER INFORMATION

For additional information, contact our technical service department.

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Odyssey Manufacturing in connection with the use of this information.



DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

USEPPA ISLAND RO
PROCESS FLOW DIAGRAM
PROJ#25-0259.000

EXHIBIT
2

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OPERATING PERMIT APPLICATION RENEWAL WITH SUPPORTING DOCUMENTATION
USEPPA ISLAND RO WATER TREATMENT PLANT
CLASS V INJECTION WELL SYSTEM
UIC PERMIT NUMBER: 045884-005-UO/5O
LEE COUNTY, FLORIDA
June 24, 2025

PREPARED FOR:
USEPPA UTILITY COMPANY

PREPARED BY:
GREG F. RAWL, P.G.

Registered Professional Certification

This supporting document for Useppa Island RO Water Treatment Plant Class V Injection Well System (UIC Permit number 045884-005-UO/5O) was prepared under the supervision of a Registered Professional Geologist.

The seal appearing on this document is authorized by:

Registered Professional:	Geologist
License:	PG 479
Date:	6/24/2025
Registered Professional Geologist:	Greg F. Rawl, P.G.

Registered Professional Signature:

Seal:

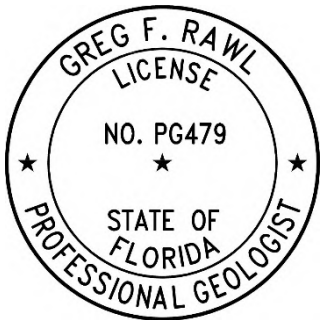

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Figure 2-1. Average injection rate, average injection pressure, and total injection volume over the reviewed operational period

Figure 2-2. Water quality analyses data for the injected RO concentrate in graphical format over the reviewed operational period

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Appendix A. Copy of Existing Operating Permit Number 045884-005-UO/5O

1. INTRODUCTION AND BACKGROUND

The purpose of this application is to renew an operating permit for the Useppa Utility Company (UUC) reverse osmosis (RO) water treatment plant (WTP) Class V Group 4 injection well system. This application requests a five-year operating permit duration for the continued use of the injection well system. A completed Florida Department of Environmental Protection (FDEP) operating permit application form 62-528.900(1) has been submitted under separate cover.

The injection well system was last permitted on July 16, 2020 (Operating Permit Number 045884-005-UO/5O) and consists of one injection well (IW-1) and two shallow monitoring wells (MW-1 and MW-2). Please refer to Appendix A for a copy of the existing permit.

The injection well is used to dispose of RO concentrate from the UUC RO WTP. The UUC RO WTP is located on Useppa Island in western Lee County. Aerial photographs showing the general location of the system (Figures 1-1) and well locations (Figure 1-2) are provided. The injection well is located approximately 700 feet southwest of the RO WTP. The system is operated by U.S. Water Corporation under contract to UUC. The maximum allowable injection rate under the existing Operating Permit is 0.072 million gallons per day (MGD) or 50 gallons minute (GPM). The maximum allowable fluid velocity down the well during operation is 10 feet per second except during planned testing, maintenance, or emergency conditions in which case the flow rate shall not exceed 12 feet per second.

A construction permit for a Class V Group 9 exploratory injection well (45884-002-UC/5X) was issued by the FDEP in 2011. The exploratory well was constructed in 2012 and was later modified and re-permitted as a Class V injection well. The purpose of the modification of the injection well was to evaluate potential injection zones at the time of construction. The well was ultimately modified by grouting lower sections of the well. A construction and

operation testing permit for a Class V Group 4 injection well was obtained in 2013 (45884-003- UC/5O).

The injection well was constructed with a 10-inch diameter PVC Schedule 40 injection casing set to a depth of 50 feet below land surface (BLS). The 10-inch diameter open-hole section of the well extends from 50 to 60 feet BLS and is open to the Pliocene-age Tamiami Limestone formation which is comprised of relatively transmissive biomicritic limestone. A schematic diagram showing the original well depth and the modified as-built construction details of the injection well is provided as Figure 1-3 (Cardno Entrix, 2012).

Two monitoring wells for the injection well system were also installed at the site in 2012. The monitoring wells are completed within the shallower portions of the surficial aquifer from 5.0 to 15.0 feet BLS (MW-1) and 2.3 to 7.3 feet BLS (MW-2). A schematic diagram showing construction details for the monitoring wells is provided on Figure 1-4 (Cardno Entrix, 2015).

2. SUMMARY OF DATA COLLECTED OVER THE REVIEWED OPERATIONAL PERIOD

Monthly operating reports (MORs) have been prepared by U.S. Water Corporation personnel and submitted to the FDEP. Parameters monitored for the injection well system are those stipulated in Operating Permit Number 045884-005-UO/5O issued by the FDEP in 2020. The injection well monitored parameters include continuous monitoring of injection pressure (maximum, minimum, and average), flow rate (maximum), and total RO concentrate volume injected.

All of the data utilized for this report was obtained from MORs submitted to the FDEP and subsequently downloaded from Oculus. There are numerous discrepancies, contradictions and gaps in the data reporting.

A summary of daily injection hydraulic data and injected volumes by month for the injection well system is provided as Table 2-1. Daily average injection rate, daily average injection pressure, and daily injection volume over the reviewed operational period in graphical format is provided as Figure 2-1. The permitted maximum daily injection volume of (0.072 MGD) was not exceeded during the reviewed operational period. The maximum injection rate recorded during the operational period was 0.070 MGD, with a daily average of approximately 0.013 MGD. No injection pressure limitations are specified in the operating permit. The maximum injection pressure recorded during the reviewed operational period was 15.6 psi with an average of about 4.5 psi and a minimum of 0 psi.

In addition to operational data, water quality data for the injected concentrate from the Useppa Island RO WTP and the two monitoring wells has been collected monthly, quarterly, or semiannually, depending on the parameter as specified in the operating permit. A summary of the water quality data analyses for the injected RO concentrate is provided as Table 2-2. Water quality analyses data in graphical format for the injected RO concentrate is provided as Figure 2-2.

Water quality data for monitoring wells MW-1 and MW-2 are collected monthly or semiannually depending on the specific parameter, as specified in the FDEP operational permit. Water quality data for wells MW-1 and MW-2 are summarized on Tables 2-3 and 2-4, respectively. Water quality data for wells MW-1 and MW- 2 are provided in graphical format as Figures 2-3 and 2-4, respectively. The water quality data for the monitoring wells indicates no significant trend changes through the reviewed operational period. However, inconsistencies in reported data seemed to have occurred.

Water level elevations were measured and recorded in the monitoring wells in accordance with the operational permit. Water level data for wells MW-1 and MW- 2 are summarized in Table 2-5 and provided in graphical format as Figure 2-5. Inconsistencies were noted in reported water levels in both monitoring wells prior to November 2022, with significant anomalous values in MW-2. These inconsistencies and anomalies can potentially be attributed to reporting errors. Subsequent to November 2022 through the end of the reviewed operational period the reported water levels have been consistent, indicating that potential errors in reporting have occurred.

3. AREA OF REVIEW UPDATE

The Area of Review (AOR) encompasses a radial distance (r) of 5,285 feet from the Useppa Island Class V Injection Well as shown in Figure 3-1. The land surface elevation in the AOR ranges from approximately 0 to 27 feet above sea level. Surface water drainage within the AOR is typically to the water table aquifer, which flows and discharges to the nearest tidal shoreline.

The AOR radial distance (r) of 5,285 is based upon the following calculation to determine the maximum potential distance in which injected water may move from the injection well within the next ten years. The calculation assumes a worst-case scenario using the maximum permitted injection rate of 0.072 MGD each day over the ten-year period.

- Maximum injected volume = 262.8 MG (V)
- Porosity (Φ) = 20%
- Injection zone thickness = 10 ft (h)
- AOR radial distance (r) = $(V/(\pi \times h))^{1/2}/ \Phi$ = 5,285 ft

Existing Groundwater Users Within the AOR

An inventory of groundwater users within the Area of Review was conducted. Sources of data included South Florida Water Management District (SFWMD), Lee County Department of Natural Resources (LCDNR), United States Geological Survey (USGS), Florida Geological Survey (FGS), and the FDEP Oil and Gas Section database.

There is only one active water use permit issued by the SFWMD within the area of review, which is for the Useppa Island Utility public water supply (Permit Number 36-03239-W). The only existing wells on Useppa Island are the two production wells supplying the RO WTP and the three wells of the injection well system. The two production wells are completed in the Mid Hawthorn aquifer portion of the Arcadia formation from 280 to 320 feet BLS. One additional well located within the AOR was identified near the eastern extent of Cabbage Key.

This well is completed in the Sandstone Aquifer from 100 to 110 feet BLS. The locations of well identified within the AOR are shown on Figure 3-1. There are no known defective wells identified within the AOR. No known or suspected faults are present within the area of review.

4. ADDITIONAL OPERATING PERMIT APPLICATION INFORMATION

A. Compatibility of the Injected Fluid with Water in the Injection Zone

The injected fluid in the Useppa Island injection well is RO concentrate from the RO WTP. Reported TDS of approximately 21,000 mg/l and dissolved chlorides of about 9,900 mg/l are noted over the reviewed operational period. The background water quality in the injection zone has been previously noted as having a TDS of approximately 48,000 mg/l and dissolved chloride concentration of approximately 29,000 mg/l. Although the injectate stream is less saline than the background water, the two fluids are compatible and no adverse reactions are anticipated.

B. Depth of the Base of the USDW

The USDW, defined in applicable State of Florida and federal regulations as less than 10,000 milligrams per liter (mg/l) total dissolved solids (TDS), was not reported to be present above the injection zone (Cardno Entrix, 2012). A USDW was reported for the production interval in the Mid Hawthorn aquifer supplying the RO WTP. Significant confinement between that producing interval and the injection zone was reported in the exploratory well (Cardno Entrix, 2012).

C. Confining Beds

The unconsolidated surficial Holocene/Pleistocene strata that occurs in the upper 20+/- feet below land surface, contains primarily sand and shell. The low hydraulic conductivity strata that occur above the top of the injection zone functions as a semi-confining zone. It consists predominantly of relatively low permeability sandy silts, marl and clay from approximately 20 to 50 feet BLS. Confinement below the injection zone includes multiple clays units of the Peace River formation from 60 to 160 feet BLS. Refer to Figure 4-1 for a generalized hydrostratigraphic column for Useppa Island (Cardno Entrix, 2012).

D. Logging and Testing Program Data

Available logging and testing program data and construction data is contained in the report, previously submitted to the FDEP, entitled: Useppa Utility Company Completion Report for Class V Exploratory Well (Cardno Entrix, 2012).

E. Injection Procedure and Operation Manual

A description of the injection procedure was provided in the report, previously submitted to the FDEP, entitled: Operation and Maintenance Manual for Useppa Island RO Concentrate Disposal System (Cardno, 2015).

Figures

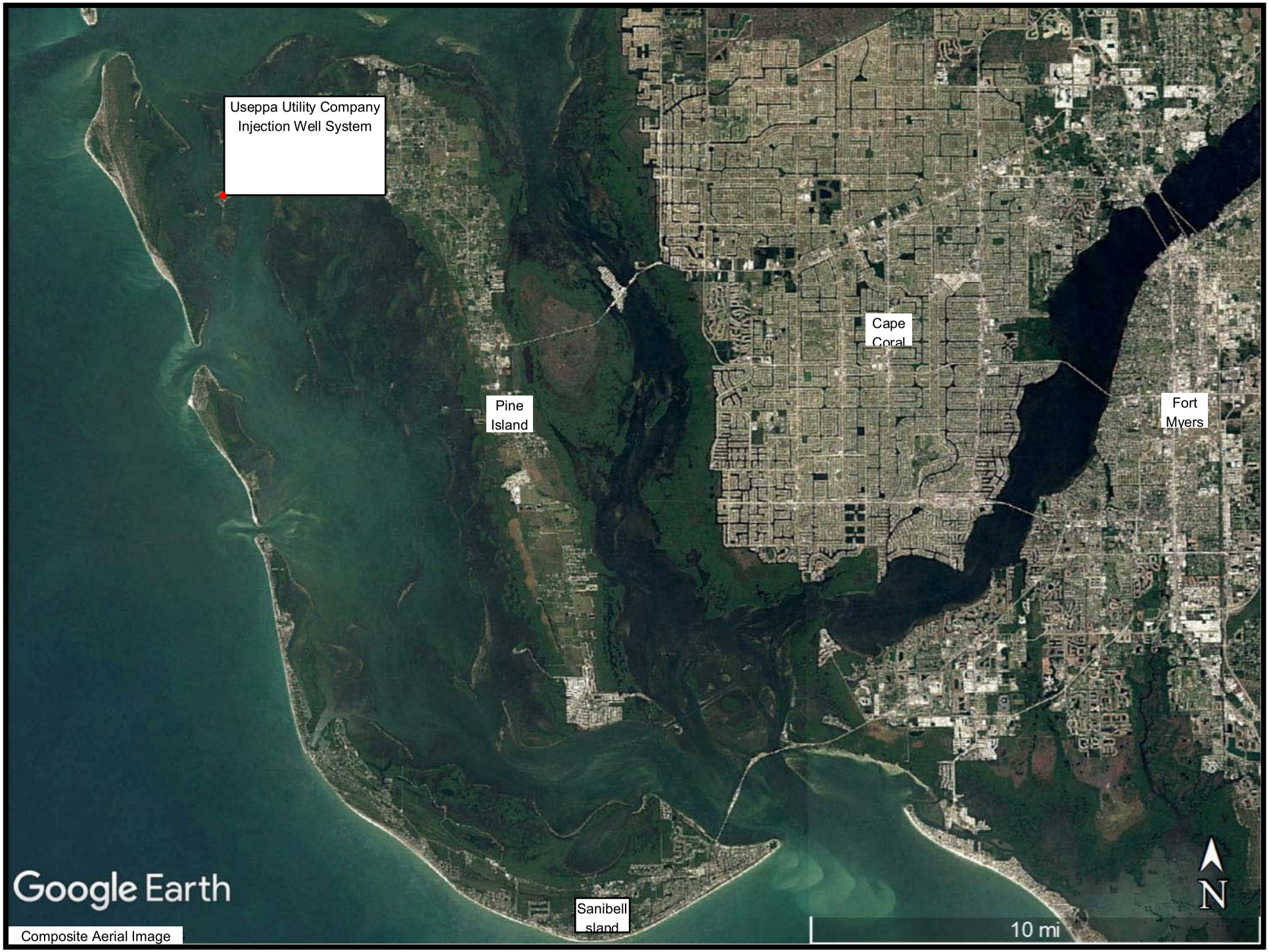

Figure 1-1. General Location of Useppa Utility Company Injection Well System

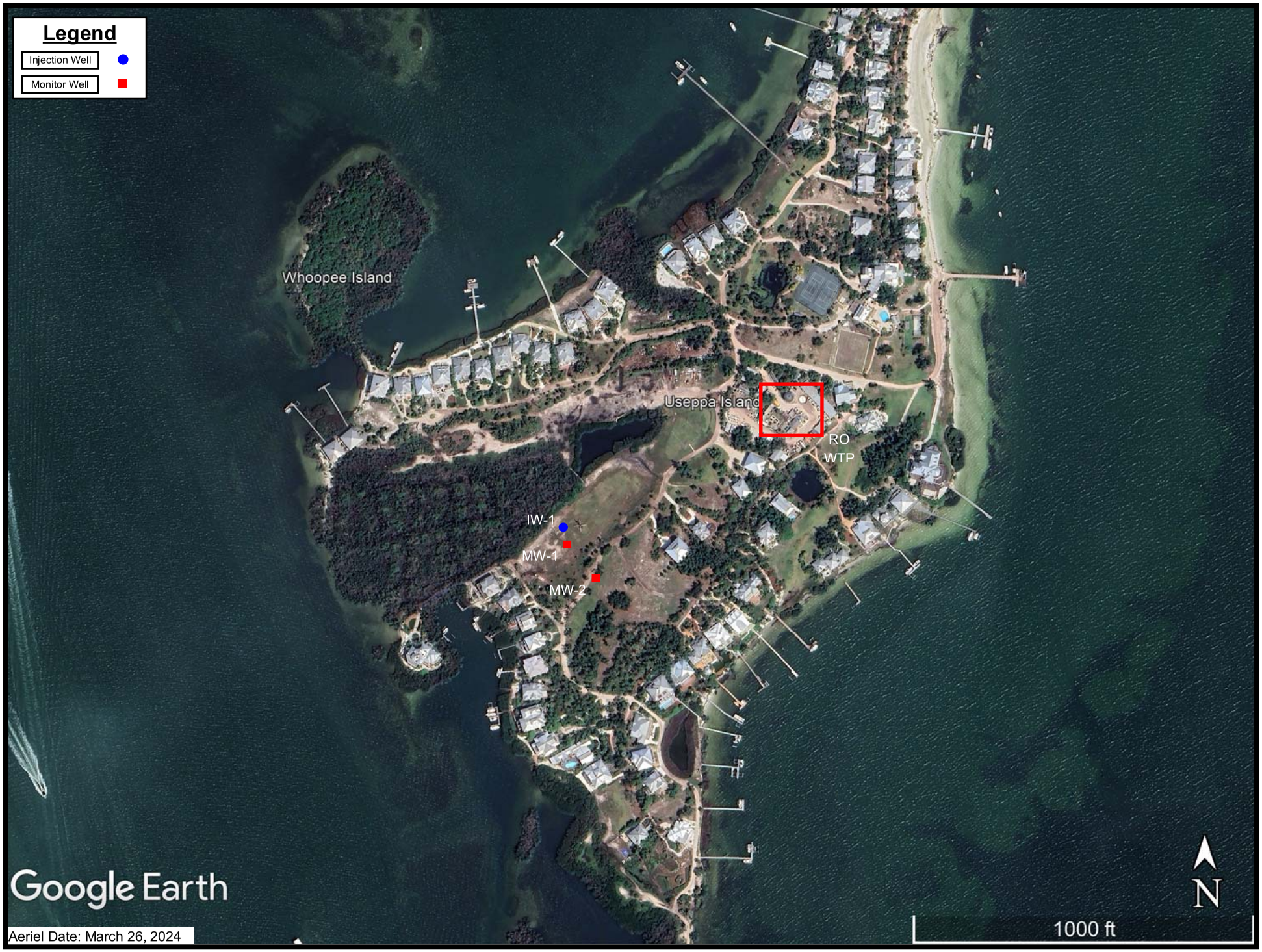

Figure 1-2. Locations of Injection System Wells and RO Water Treatment Plant

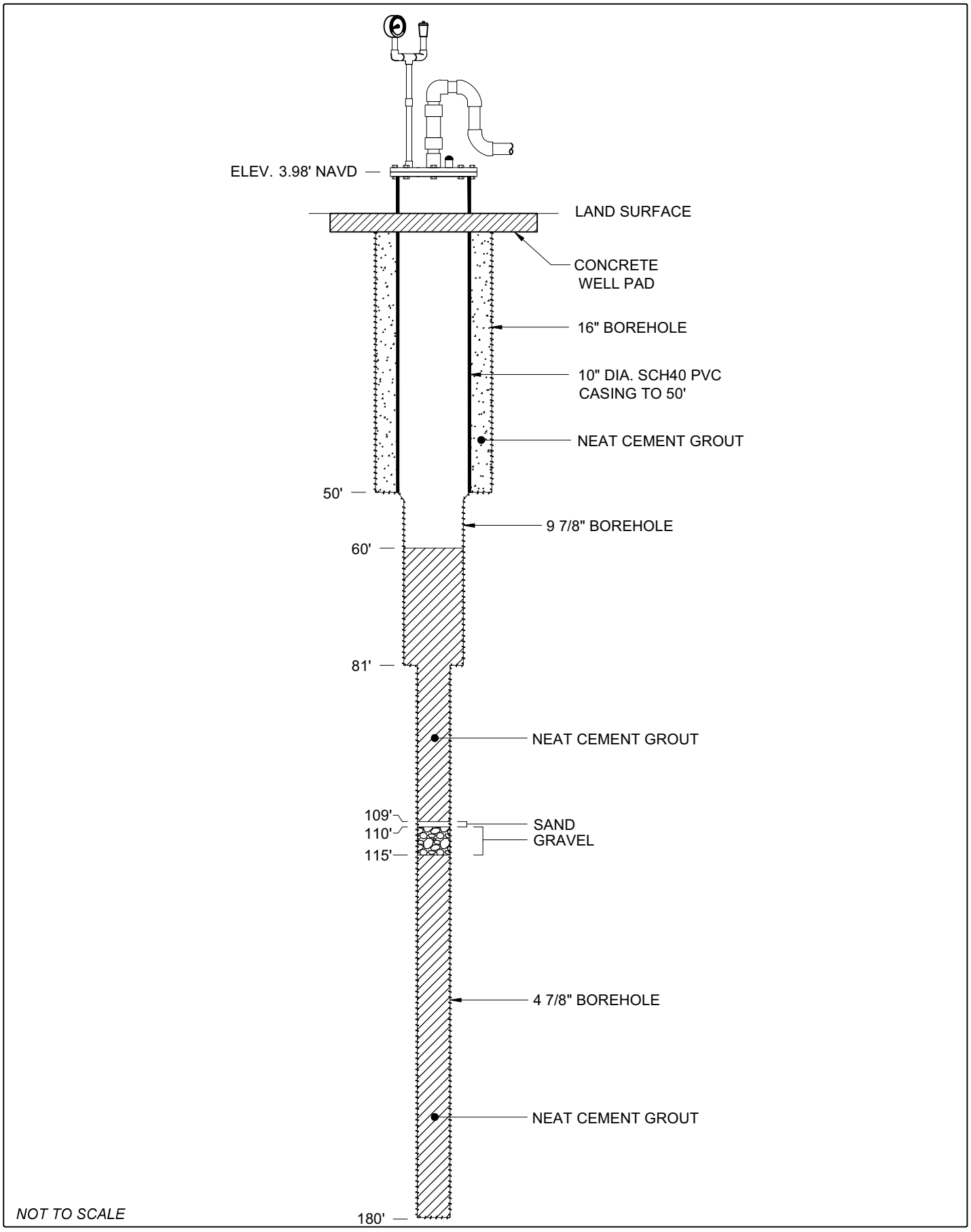

FIGURE 1-3. SCHEMATIC DIAGRAM SHOWING INJECTION WELL CONSTRUCTION DETAILS (CARDNO ENTRIX, 2012)

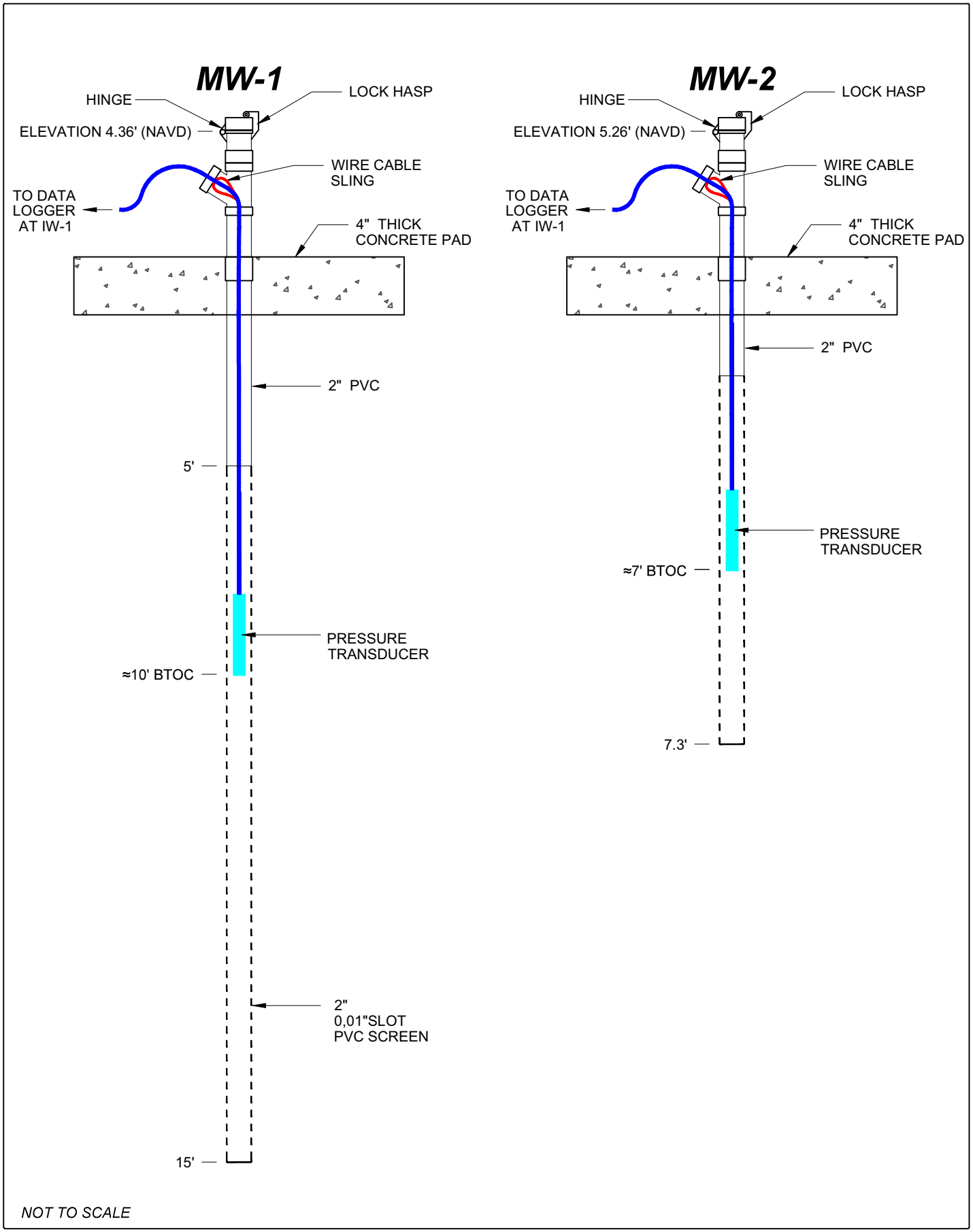

FIGURE 1-4. SCHEMATIC DIAGRAM SHOWING CONSTRUCTION DETAILS FOR MONITORING WELLS (CARDNO ENTRIX, 2015)

Figure 2-1 - Daily Average Injection Rate, Daily Average Injection Pressure and Daily Injection Volume

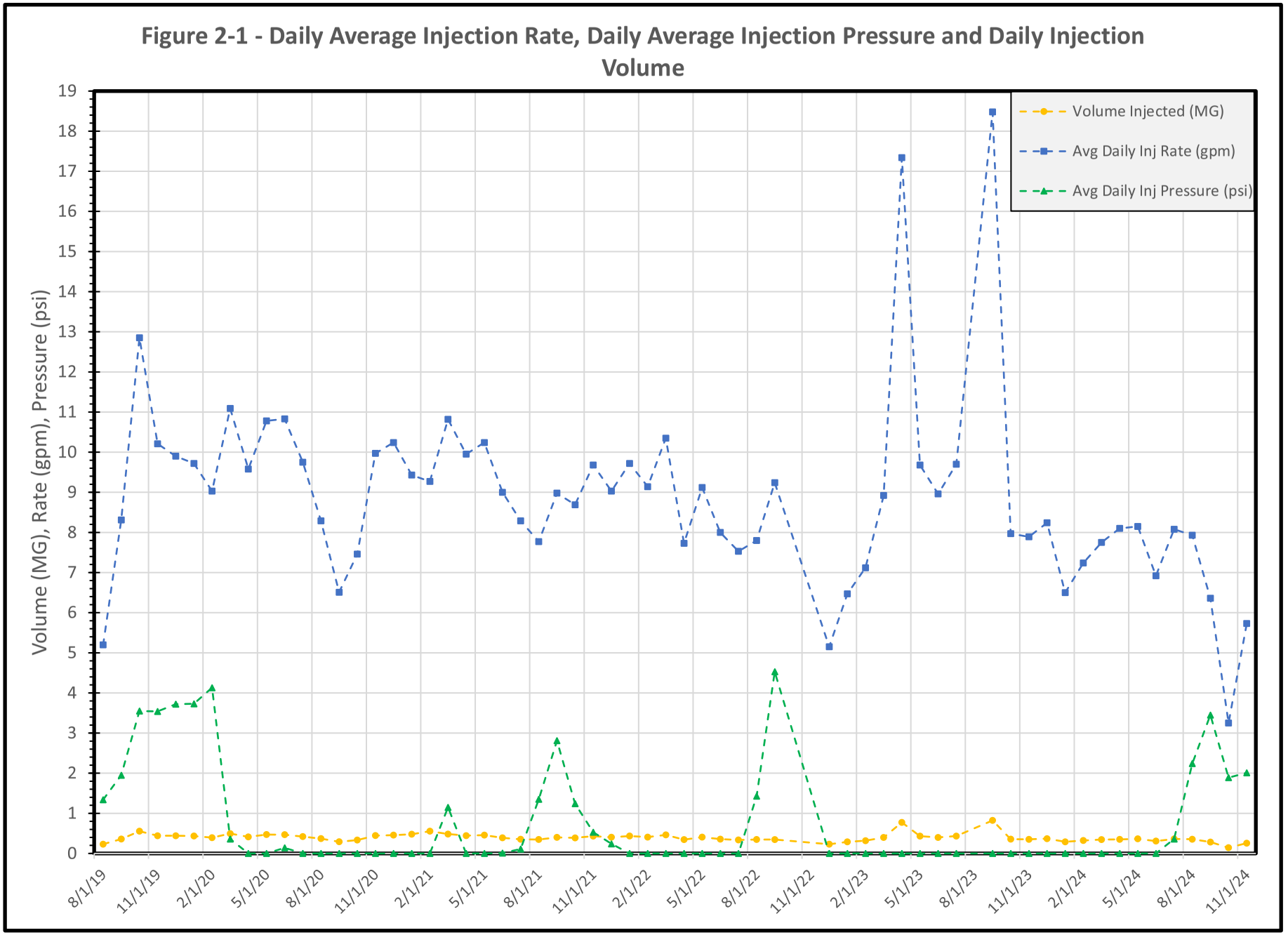

Figure 2-2 - Water Quality of Concentrate

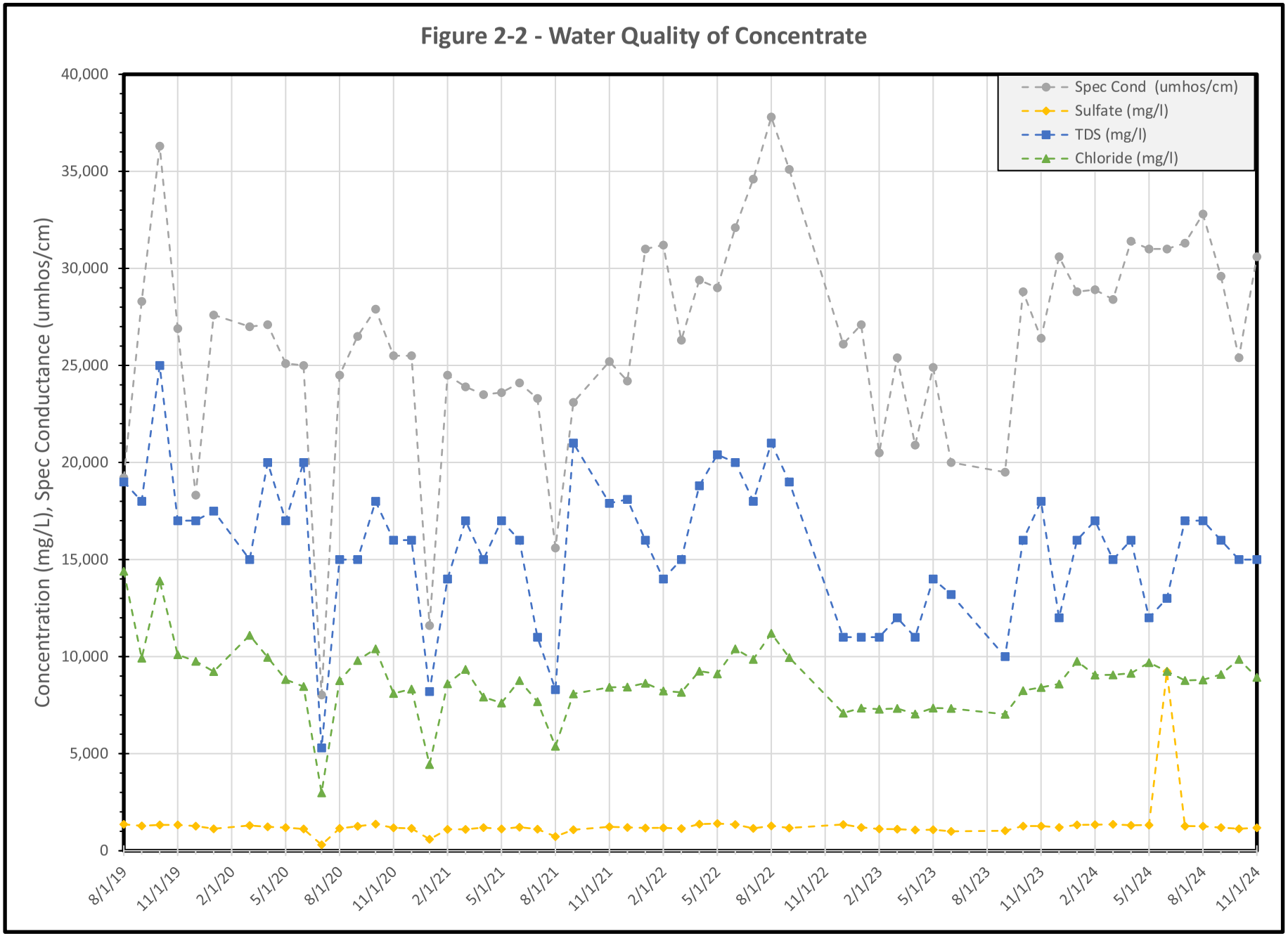

Figure 2-3 - Water Quality for MW-1

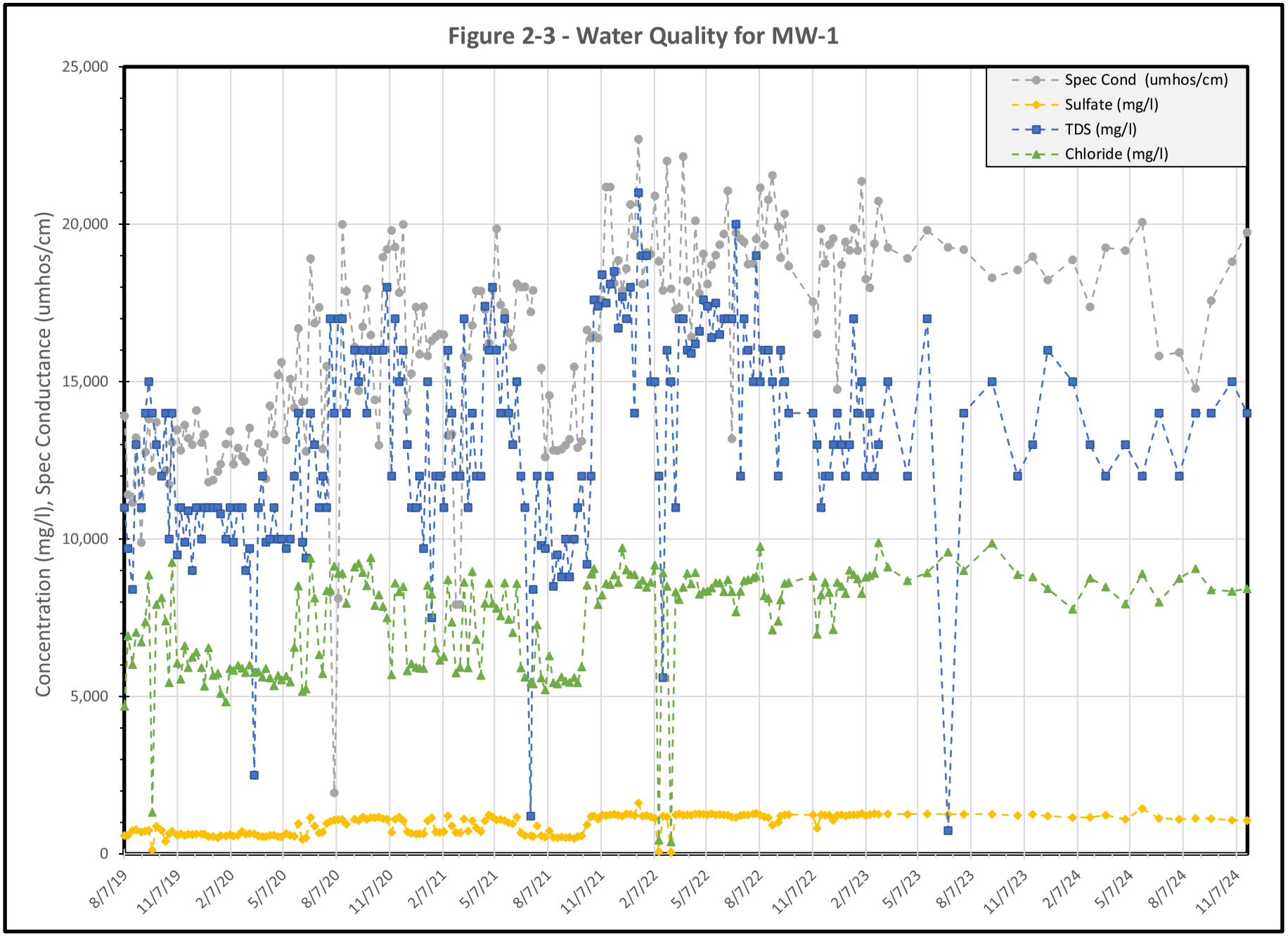

Figure 2-4 - Water Quality of MW-2

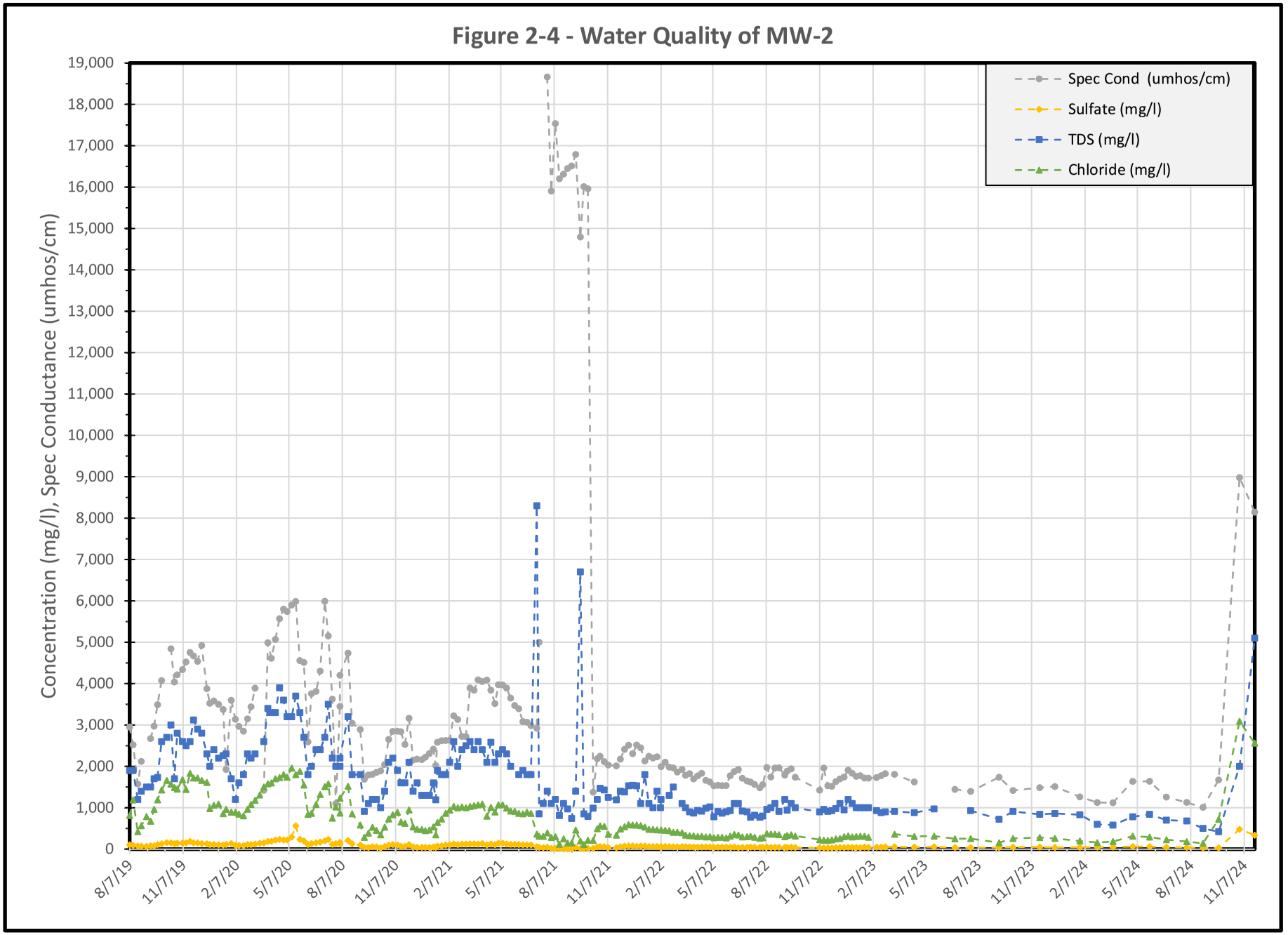

Figure 2-5 - Average Water Levels for MW-1 and MW-2

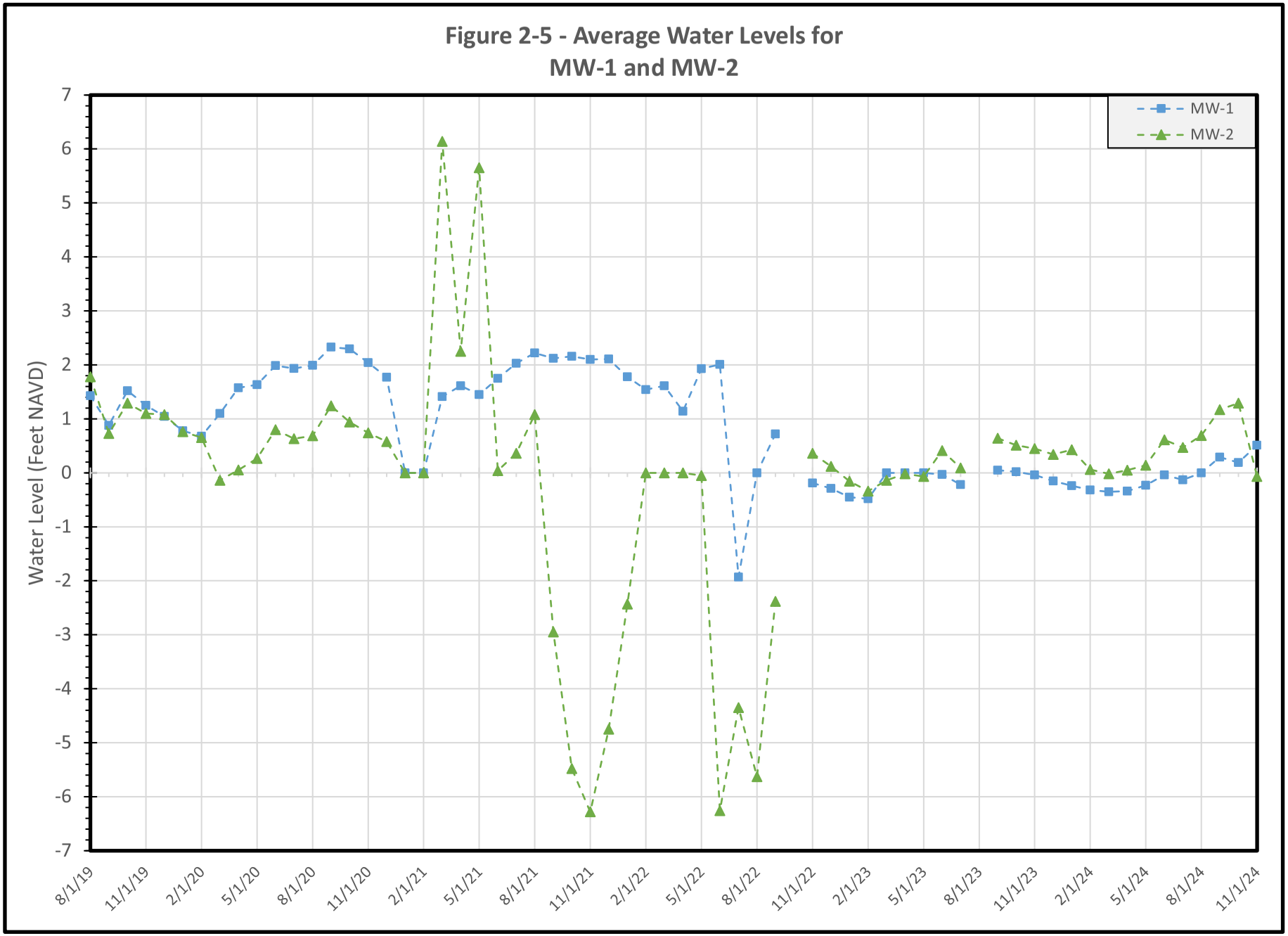

Figure 3-1. Locations of Wells Identified Within the Area of Review

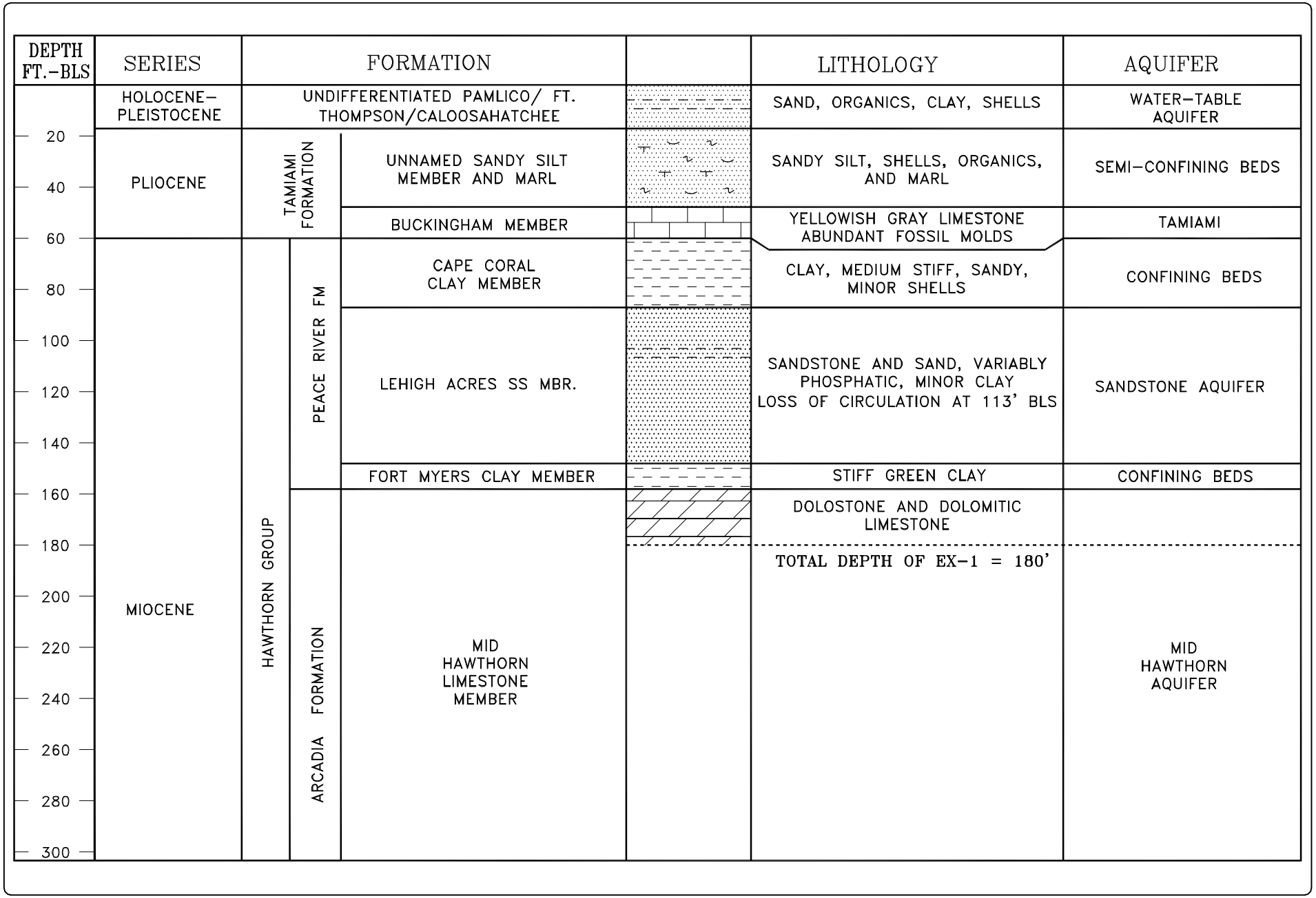

FIGURE 4-1. GENERALIZED HYDROSTRATIGRAPHIC COLUMN FOR USEPPA ISLAND (CARDNO ENTRIX, 2012).

Tables

Table 2-1 - Summary of Daily Injection Hydraulic Data and Injected Volumes by Month

Month	Volume Injected (MG)	Avg Daily Volume Injected (gal)	Max Daily Volume Injected (gal)	Min Daily Volume Injected (gal)	Avg Daily Inj Rate (gpm)	Max Daily Inj Rate (gpm)	Min Daily Inj Rate (gpm)	Avg Daily Inj Pressure (psi)	Max Daily Inj Pressure (psi)	Min Daily Inj Pressure (psi)	Injection Rate for Specific Injectivity	Specific Injectivity (gpm/psi @ inj rate)
8/1/19	0.232	7,484	13,000	4,000	5.20	33.60	0	1.34	10.60	-0.08	33.5	4.72
9/1/19	0.359	11,967	23,000	1,000	8.31	46.50	0	1.95	9.09	-0.13	33.1	4.53
10/1/19	0.555	17,903	29,000	-16,000	12.85	33.60	0	3.55	11.56	-0.89	32.8	4.49
11/1/19	0.441	14,700	29,000	6,000	10.21	33.60	0	3.54	13.98	0.07	33.4	4.51
12/1/19	0.442	14,258	32,000	7,000	9.90	33.60	0	3.72	13.79	-0.10	33.2	4.37
1/1/20	0.434	14,000	22,000	8,000	9.72	33.60	0	3.73	14.62	-0.08	33.3	4.27
2/1/20	0.394	13,586	17,000	8,000	9.03	33.60	0	4.13	14.70	-0.13	33.4	4.34
3/1/20	0.495	15,968	22,000	11,000	11.09	33.60	0	0.36	14.87	0.00	33.1	4.36
4/1/20	0.414	13,800	18,000	3,000	9.58	33.60	0	0.00	0.00	0.00	32.6	4.23
5/1/20	0.471	15,194	22,000	-5,000	10.78	33.60	0	0.00	0.00	0.00	33.5	4.29
6/1/20	0.468	15,600	26,000	9,000	10.83	33.60	0	0.14	4.66	0.00	33.5	4.59
7/1/20	0.421	13,581	24,000	5,000	9.75	33.60	0	0.00	0.00	0.00	33.2	4.61
8/1/20	0.370	11,935	47,000	3,000	8.29	33.60	0	0.00	0.00	0.00	33	4.71
9/1/20	0.291	9,700	13,000	6,000	6.51	33.60	0	0.00	0.00	0.00	32.1	4.01
10/1/20	0.333	10,742	16,000	8,000	7.46	33.60	0	0.00	0.00	0.00	33.3	4.16
11/1/20	0.445	14,833	19,000	11,000	9.97	33.60	0	0.00	0.00	0.00	33.1	5.09
12/1/20	0.457	14,742	18,000	10,000	10.24	33.60	0	0.00	0.00	0.00	33.5	4.79
1/1/21	0.479	15,452	18,000	9,000	9.43	33.60	0	0.00	0.00	0.00	-	-
2/1/21	0.555	19,821	18,000	12,000	9.27	33.60	0	0.00	0.00	0.00	-	-
3/1/21	0.483	15,581	19,000	12,000	10.82	33.60	0	1.15	14.72	0.00	-	-
4/1/21	0.444	14,800	18,000	5,000	9.95	33.60	0	0.00	0.00	0.00	33.2	4.96
5/1/21	0.457	14,742	18,000	11,000	10.24	33.60	0	0.00	0.00	0.00	33.5	4.53
6/1/21	0.389	12,967	18,000	8,000	9.00	33.60	0	0.01	0.00	0.28	33.1	4.66
7/1/21	0.353	11,387	20,000	3,000	8.29	33.60	0	0.11	10.71	-0.31	-	-
8/1/21	0.347	11,194	16,000	8,000	7.77	33.60	0	1.35	14.71	-1.31	33.2	4.56
9/1/21	0.401	13,367	18,000	1,000	8.98	33.60	0	2.81	14.76	-1.35	33.4	4.23
10/1/21	0.388	12,516	19,000	9,000	8.69	33.60	0	1.24	14.87	-0.52	33.07	5.25

Table 2-1 - Summary of Daily Injection Hydraulic Data and Injected Volumes by Month

Month	Volume Injected (MG)	Avg Daily Volume Injected (gal)	Max Daily Volume Injected (gal)	Min Daily Volume Injected (gal)	Avg Daily Inj Rate (gpm)	Max Daily Inj Rate (gpm)	Min Daily Inj Rate (gpm)	Avg Daily Inj Pressure (psi)	Max Daily Inj Pressure (psi)	Min Daily Inj Pressure (psi)	Injection Rate for Specific Injectivity	Specific Injectivity (gpm/psi @ inj rate)
11/1/21	0.432	14,400	18,000	10,000	9.68	33.60	0	0.53	9.05	0.00	32.87	4.98
12/1/21	0.403	13,000	22,000	6,000	9.03	33.60	0	0.24	8.53	-0.90	31.2	4.27
1/1/22	0.434	14,000	17,000	10,000	9.72	33.60	0	0.00	0.00	0.00	33.5	4.53
2/1/22	0.408	14,571	19,000	11,000	9.14	33.60	0	0.00	0.00	0.00	33.3	3.96
3/1/22	0.462	14,903	19,000	13,000	10.35	33.60	0	0.00	0.00	0.00	32.4	4.21
4/1/22	0.345	11,500	16,000	7,000	7.73	33.60	0	0.00	0.00	0.00	32.8	4.43
5/1/22	0.407	13,129	16,000	9,000	9.12	33.60	0	0.00	0.00	0.00	32.7	4.25
6/1/22	0.357	11,900	16,000	3,000	8.00	33.60	0	0.00	0.00	0.00	33.5	4.04
7/1/22	0.336	10,839	16,000	8,000	7.53	33.60	0	0.00	0.00	0.00	32.3	3.99
8/1/22	0.348	11,226	14,000	-1,000	7.80	33.60	0	1.43	14.70	-1.35	31.7	4.06
9/1/22	0.346	11,533	19,000	7,000	9.24	33.60	0	4.53	14.39	-4.63	-	-
12/1/22	0.230	7,419	13,000	4,000	5.15	33.60	0	0.00	0.00	0.00	32.9	3.87
1/1/23	0.289	9,323	18,000	5,000	6.47	33.60	0	0.00	0.00	0.00	33.1	4.07
2/1/23	0.318	11,357	19,000	1,000	7.12	33.60	0	0.00	0.00	0.00	33.5	4.72
3/1/23	0.398	12,839	17,000	10,000	8.92	33.60	0	0.00	0.00	0.00	32.1	5.10
4/1/23	0.774	25,800	427,000	0	17.34	33.60	0	0.00	0.00	0.00	-	-
5/1/23	0.432	13,935	53,000	-23,000	9.68	33.60	0	0.00	0.00	0.00	-	-
6/1/23	0.400	13,333	17,000	9,000	8.96	33.60	0	0.00	0.00	0.00	-	-
7/1/23	0.433	13,968	19,000	9,000	9.70	33.60	0	0.00	0.00	0.00	-	-
9/1/23	0.825	27,500	37,000	13,000	18.48	33.60	0	0.00	0.00	0.00	-	-
10/1/23	0.356	11,484	14,000	9,000	7.97	33.60	0	0.00	0.00	0.00	-	-
11/1/23	0.352	11,733	15,000	5,000	7.89	33.60	0	0.00	0.00	0.00	-	-
12/1/23	0.368	11,871	16,000	8,000	8.24	33.60	0	0.00	0.00	0.00	-	-
1/1/24	0.290	9,355	15,000	6,000	6.50	33.60	0	0.00	0.00	0.00	-	-
2/1/24	0.323	11,138	21,000	7,000	7.24	33.60	0	0.00	0.00	0.00	-	-
3/1/24	0.346	11,161	19,000	4,000	7.75	33.60	0	0.00	0.00	0.00	-	-
4/1/24	0.350	11,667	13,000	8,000	8.10	33.60	0	0.00	0.00	0.00	-	-

Table 2-1 - Summary of Daily Injection Hydraulic Data and Injected Volumes by Month

Month	Volume Injected (MG)	Avg Daily Volume Injected (gal)	Max Daily Volume Injected (gal)	Min Daily Volume Injected (gal)	Avg Daily Inj Rate (gpm)	Max Daily Inj Rate (gpm)	Min Daily Inj Rate (gpm)	Avg Daily Inj Pressure (psi)	Max Daily Inj Pressure (psi)	Min Daily Inj Pressure (psi)	Injection Rate for Specific Injectivity	Specific Injectivity (gpm/psi @ inj rate)
5/1/24	0.364	11,742	13,000	8,000	8.15	33.60	0	0.00	0.00	0.00	-	-
6/1/24	0.309	10,300	13,000	0	6.92	33.60	0	0.00	0.00	0.00	-	-
7/1/24	0.361	11,645	32,000	4,000	8.08	33.60	0	0.36	14.55	0.00	-	-
8/1/24	0.354	11,419	16,000	5,000	7.93	33.60	0	2.24	15.59	0.00	-	-
9/1/24	0.284	9,467	16,000	5,000	6.36	33.60	0	3.45	15.58	-0.12	-	-
10/1/24	0.145	4,677	17,000	0	3.25	33.60	0	1.89	15.57	-0.14	-	-
11/1/24	0.256	8,533	17,000	1,000	5.73	33.60	0	2.01	15.60	-0.08	-	-

Table 2-2 - Summary of Water Quality Analyses for Useppa Island RO WTP Concentrate

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
8/1/19	7.6	28.4	19,213	1,360	19,000	14,400	-	-	-
9/1/19	7.7	28.8	28,300	1,280	18,000	9,920	-	-	-
10/1/19	7.5	27.3	36,300	1,330	25,000	13,900	-	-	-
11/1/19	7.7	27.1	26,900	1,330	17,000	10,100	-	-	-
12/1/19	8.0	25.1	18,320	1,270	17,000	9,760	-	-	-
1/1/20	7.8	24.6	27,600	1,130	17,500	9,230	-	-	-
3/1/20	7.8	26.8	27,000	1,300	15,000	11,100	<2.23	<0.851	<0.847
4/1/20	7.5	27.6	27,100	1,230	20,000	9,960	-	-	-
5/1/20	7.6	27.7	25,100	1,190	17,000	8,820	-	-	-
6/1/20	7.6	27.8	25,000	1,120	20,000	8,460	-	-	-
7/1/20	7.4	28.3	8,030	304	5,300	2,980	-	-	-
8/1/20	7.4	28.6	24,500	1,150	15,000	8,760	-	-	-
9/1/20	7.6	28.7	26,500	1,260	15,000	9,800	-	-	-
10/1/20	7.4		27,900	1,370	18,000	10,400	-	-	-
11/1/20	7.4		25,500	1,180	16,000	8,100	-	-	-
12/1/20	7.3	27.0	25,500	1,150	16,000	8,330	-	-	-
1/1/21	7.5		11,600	589	8,200	4,440	155	109	3
2/1/21	7.7	26.8	24,500	1,100	14,000	8,600	-	-	-
3/1/21	7.6	24.3	23,900	1,100	17,000	9,340	-	-	-
4/1/21	7.8	25.4	23,500	1,190	15,000	7,920	-	-	-
5/1/21	7.8	26.0	23,600	1,120	17,000	7,610	-	-	-
6/1/21	7.9	27.2	24,100	1,210	16,000	8,770	-	-	-
7/1/21	8.0	28.1	23,300	1,110	11,000	7,680	679	207	5.88
8/1/21	8.1	27.1	15,600	729	8,300	5,380	-	-	-
9/1/21	8.7	27.8	23,100	1,080	21,000	8,080	-	-	-
11/1/21	7.8	26.3	25,200	1,230	17,900	8,420	-	-	-
12/1/21	7.9	26.1	24,200	1,200	18,100	8,430	-	-	-
1/1/22	7.6	26.1	31,000	1,170	16,000	8,630	-	-	-
2/1/22	7.6	24.5	31,200	1,180	14,000	8,230	-	-	-
3/1/22	7.5	26.0	26,300	1,140	15,000	8,160	-	-	-
4/1/22	7.3	25.8	29400	1370	18800	9250	278	165	7.21
5/1/22	7.7	27.7	29,000	1,400	20,400	9,110	-	-	-
6/1/22	7.4	28.9	32,100	1,350	20,000	10,400	-	-	-
7/1/22	7.6	29.1	34,600	1,150	18,000	9,860	-	-	-
8/1/22	7.4	28.4	37,800	1,280	21,000	11,200	-	-	-
9/1/22	7.5	28.9	35,100	1,170	19,000	9,950	-	-	-
12/1/22	7.6	24.9	26,100	1,350	11,000	7,090	-	-	-

Table 2-2 - Summary of Water Quality Analyses for Useppa Island RO WTP Concentrate

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
1/1/23	7.6	23.6	27,100	1,200	11,000	7,350	-	-	-
2/1/23	7.5	25.3	20,500	1,120	11,000	7,290	-	-	-
3/1/23	7.5	27.1	25,400	1,110	12,000	7,330	-	-	-
4/1/23	7.4	25.3	20,900	1,070	11,000	7,040	-	-	-
5/1/23	7.8	27.5	24,900	1,080	14,000	7,350	-	-	-
6/1/23	7.4	24.9	20,000	997	13,200	7,330	-	-	-
9/1/23	7.5	29.8	19,500	1,030	10,000	7,030	231+/-41.6	159+/-19.3	4.38+/-1.04
10/1/23	7.6	26.8	28,800	1,270	16,000	8,250	-	-	-
11/1/23	7.6	26.4	26,400	1,270	18,000	8,410	-	-	-
12/1/23	7.5	25.1	30,600	1,200	12,000	8,590	-	-	-
1/1/24	7.5	23.3	28,800	1,330	16,000	9,760	-	-	-
2/1/24	7.4	24.5	28,900	1,340	17,000	9,050	-	-	-
3/1/24	7.4	25.8	28,400	1,360	15,000	9,060	-	-	-
4/1/24	7.4	26.6	31,400	1,310	16,000	9,140	-	-	-
5/1/24	7.4	28.5	31,000	1,320	12,000	9,690	-	-	-
6/1/24	7.4	28.1	31,000	9,240	13,000	9,240	-	-	-
7/1/24	7.5	28.7	31,300	1,270	17,000	8,770	-	-	-
8/1/24	7.3	28.5	32,800	1,260	17,000	8,800	-	-	-
9/1/24	7.5	29.2	29,600	1,190	16,000	9,080	-	-	-
10/1/24	7.3	27.6	25,400	1,130	15,000	9,860	-	-	-
11/1/24	7.2	28.1	30,600	1,180	15,000	8,930	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
8/7/19	7.2	28.7	13,910	585	11,000	4,690	-	-	-
8/13/19	7.1	28.6	11,410	591	9,700	6,930	-	-	-
8/21/19	7.1	28.3	11,154	749	8,400	6,020	-	-	-
8/27/19	7.6	28.2	13,221	770	13,000	7,040	-	-	-
9/5/19	7.8	28.8	9,888	696	11,000	6,730	-	-	-
9/12/19	7.4	28.4	12,766	725	14,000	7,370	-	-	-
9/18/19	7.3	28.2	13,815	743	15,000	8,860	-	-	-
9/24/19	7.1	28.6	12,153	131	14,000	1,320	-	-	-
10/1/19	7.0	27.7	13,715	881	13,000	7,920	-	-	-
10/10/19				751	12,000	8,140	-	-	-
10/17/19	7.3	28.2	12,188	405	14,000	7,400	-	-	-
10/23/19	7.5	28.0	11,740	638	10,000	5,440	-	-	-
10/28/19	7.3	27.9	13,072	721	14,000	9,260	-	-	-
11/6/19	7.2	27.6	13,472	596	9,500	6,060	-	-	-
11/12/19	7.4	27.4	12,820	645	11,000	5,550	-	-	-
11/19/19	7.1	25.5	13,623	588	9,900	6,610	-	-	-
11/25/19	7.1	24.5	13,201	629	10,900	5,920	-	-	-
12/2/19	7.4	25.7	12,999	620	9,000	6,250	-	-	-
12/9/19	7.6	25.3	14,086	635	11,000	6,410	-	-	-
12/18/19	7.5	23.9	13,062	632	10,000	5,920	-	-	-
12/23/19	7.8	24.0	13,334	624	11,000	5,330	-	-	-
12/30/19	7.6	24.5	11,811	551	11,000	6,550	-	-	-
1/7/20	7.3	23.8	11,876	554	11,000	5,670	381.00	258.00	6.49
1/8/20							447.00	206.00	4.91
1/15/20	7.3	23.9	12,145	515	11,000	5,740	-	-	-
1/20/20	7.3	21.2	12,378	583	10,800	5,100	-	-	-
1/29/20	7.4	22.9	13,019	568	10,000	4,830	-	-	-
2/5/20	7.2	23.1	13,427	611	11,000	5,890	-	-	-
2/11/20	7.3	24.0	12,379	569	9,900	5,830	-	-	-
2/19/20	7.2	24.7	12,891	595	11,000	5,990	-	-	-
2/26/20	7.3	24.5	12,619	714	11,000	5,900	-	-	-
3/3/20	7.3	24.4	12,468	625	9,000	5,760	-	-	-
3/10/20	7.3	23.9	13,528	643	9,700	6,000	-	-	-
3/18/20				636	2,500	5,760	-	-	-
3/25/20	7.3	24.5	13,037	572	11,000	5,790	-	-	-
4/1/20	7.3	24.7	12,758	550	12,000	5,620	-	-	-
4/7/20	7.3	25.1	11,917	549	9,900	5,890	-	-	-
4/14/20	6.9	26.2	14,234	592	10,000	5,590	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
4/21/20	7.0	25.7	13,339	596	11,000	5,340	-	-	-
4/28/20	7.1	25.8	15,212	549	10,000	5,670	-	-	-
5/4/20	7.0	26.6	15,617	546	10,000	5,530	-	-	-
5/12/20	7.2	25.5	13,147	649	9,700	5,650	-	-	-
5/19/20	7.1	26.2	15,082	593	10,000	5,460	-	-	-
5/26/20	7.1	27.1	14,162	562	12,000	6,560	-	-	-
6/2/20	7.1	26.5	16,690	962	14,000	8,510	-	-	-
6/9/20	6.9	27.8	14,359	459	9,900	5,160	-	-	-
6/15/20	7.2	27.7	12,781	507	9,400	5,240	-	-	-
6/23/20	7.1	27.4	18,910	1,160	14,000	9,390	-	-	-
6/30/20	7.1	29.1	16,860	887	13,000	8,130	-	-	-
7/8/20	7.0	29.4	17,360	663	11,000	6,330	-	-	-
7/14/20	7.1	29.7	12,860	691	12,000	5,730	-	-	-
7/21/20	7	28.3	15,491	964	11,000	8,360	-	-	-
7/27/20	6.9	28.7	8,304	1,030	17,000	8,380	-	-	-
8/3/20	7.2	28.0	1,942	1,080	14,000	9,140	-	-	-
8/10/20	7.1	28.4	8,121	1,090	17,000	8,910	-	-	-
8/17/20	7.2	28.4	19,993	1,090	17,000	8,910	-	-	-
8/24/20	7.2	28.4	17,869	944	14,000	7,960	-	-	-
9/7/20	7.2	28.9	16,104	1,100	16,000	9,110	-	-	-
9/14/20	7.1	28.0	14,708	1,060	15,000	9,230	-	-	-
9/21/20	7.1	28.3	16,750	1,170	16,000	8,940	-	-	-
9/28/20	6.6	28.5	17,941	1,100	14,000	8,520	-	-	-
10/5/20	6.6	28.0	16,482	1,160	16,000	9,410	-	-	-
10/12/20	7.0	28.0	14,421	1,150	16,000	7,890	-	-	-
10/19/20	6.9	28.0	12,980	1,170	16,000	8,230	-	-	-
10/26/20	6.5	28.0	18,954	1,120	16,000	7,860	-	-	-
11/2/20	6.5	27.8	19,203	1,100	18,000	7,500	-	-	-
11/10/20	6.5	27.9	19,803	686	12,000	5,690	-	-	-
11/16/20	6.5	27.6	19,274	1,100	17,000	8,600	-	-	-
11/23/20	6.6	26.6	17,822	1,170	15,000	8,330	-	-	-
11/30/20	6.7	27.0	19,992	1,050	16,000	8,490	-	-	-
12/7/20	6.8	26.0	14,053	707	13,000	5,820	-	-	-
12/14/20	6.8	26.2	15,251	654	11,000	6,040	-	-	-
12/22/20	6.9	26.1	17,367	634	11,000	5,930	-	-	-
12/28/20	6.7	26.2	15,865	641	12,000	5,900	-	-	-
1/4/21	6.6	26.3	17,383	639	9,700	5,890	-	-	-
1/11/21	7.1	24.9	15,821	1,050	15,000	8,530	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
1/18/21	6.9	24.4	16,299	1,150	7,500	8,250	-	-	-
1/25/21	6.8	25.1	16,422	697	12,000	6,540	-	-	-
2/1/21	6.7	25.2	16,513	685	12,000	6,150	-	-	-
2/8/21	6.7	25.3	16,491	706	11,000	6,270	-	-	-
2/15/21	7.3	24.8	13,282	1,210	16,000	8,710	-	-	-
2/22/21	7.3	24.3	13,340	890	14,000	7,360	-	-	-
3/1/21	7.2	24.5	7,920	685	12,000	5,750	-	-	-
3/8/21	7.2	23.8	7,921	667	12,000	5,930	-	-	-
3/15/21	7.3	24.0	15,783	1,110	17,000	8,630	-	-	-
3/22/21	7.4	23.8	15,761	727	11,000	5,910	-	-	-
3/29/21	7.1	24.7	16,783	1,050	14,000	8,970	-	-	-
4/5/21	7.2	24.5	17,890	830	12,000	6,810	-	-	-
4/13/21	7.2	24.4	17,882	709	12,000	5,670	-	-	-
4/20/21	7.2	25.3	17,291	1,050	17,400	7,960	-	-	-
4/27/21	7.0	25.5	16,227	1,240	16,000	8,600	-	-	-
5/3/21	7.1	26.1	17,921	1,170	18,000	7,960	-	-	-
5/10/21	7.2	26.4	19,860	1,080	16,000	7,800	-	-	-
5/17/21	7.2	26.5	17,442	1,090	14,000	7,560	-	-	-
5/24/21	7.8	26.6	17,203	1,060	17,000	8,610	-	-	-
5/31/21	7.3	26.9	16,550	992	14,000	7,450	-	-	-
6/7/21	7.3	27.3	16,103	957	13,000	7,030	-	-	-
6/14/21	7.3	27.6	18,110	1,170	15,000	8,590	-	-	-
6/21/21	7.4	27.8	18,001	668	12,000	5,910	-	-	-
6/28/21	7.3	26.9	18,010	582	11,000	5,610	-	-	-
7/8/21	7.3	26.7	17,211	579	1,200	5,460	-	-	-
7/12/21	7.4	26.8	17,900	556	8,400	5,400	-	-	-
7/19/21				894	12,000	7,270	-	-	-
7/26/21	7.5	28.6	15,432	579	9,800	5,590	-	-	-
8/2/21	7.8	28.0	12,606	538	9,700	5,210	-	-	-
8/9/21	7.5	28.7	14,561	733	12,000	6,290	-	-	-
8/16/21	7.8	27.8	12,821	530	8,500	5,440	-	-	-
8/23/21	7.9	28.0	12,812	516	9,500	5,400	-	-	-
8/30/21	7.9	28.2	12,852	539	8,800	5,620	-	-	-
9/6/21	7.9	28.3	12,980	515	10,000	5,490	-	-	-
9/13/21	8.0	28.4	13,172	534	8,800	5,450	-	-	-
9/21/21	7.9	28.5	15,469	491	10,000	5,600	-	-	-
9/27/21	7.9	28.4	12,903	552	11,000	5,440	-	-	-
10/4/21	7.8	28.1	13,111	578	12,000	5,940	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
10/13/21	6.8	28.2	16,641	928	9,200	8,540	-	-	-
10/20/21	6.8	27.8	16,384	1,190	12,000	8,890	-	-	-
10/25/21	6.8	28.0	16,473	1,210	17,600	9,060	-	-	-
11/1/21	7.2	25.3	16,382	1,110	17,400	7,920	-	-	-
11/8/21	7.1	25.9	17,585	1,240	18,400	8,220	-	-	-
11/15/21	7.1	25.6	21,181	1,220	17,500	8,590	-	-	-
11/22/21	7.1	26.5	21,182	1,240	18,100	8,560	-	-	-
11/29/21	7.2	24.7	18,125	1,260	18,500	8,860	-	-	-
12/6/21	7.3	24.5	18,850	1,230	16,700	8,620	-	-	-
12/13/21	7.2	25.0	17,901	1,200	17,700	9,720	-	-	-
12/20/21	7.2	24.8	18,590	1,270	17,000	9,020	-	-	-
12/27/21	6.9	24.3	20,630	1,260	18,000	8,880	-	-	-
1/3/22	6.8	24.5	19,630	1,220	14,000	8,870	-	-	-
1/10/22	6.8	24.9	22,700	1,620	21,000	8,560	-	-	-
1/17/22	6.9	23.8	18,100	1,200	19,000	8,690	-	-	-
1/24/22	7.0	22.8	19,100	1,220	19,000	8,470	-	-	-
1/31/22	7.0	22.3	19,050	1,180	15,000	8,630	-	-	-
2/7/22	6.8	22.9	20,900	1,130	15,000	9,170	-	-	-
2/14/22	7.0	21.7	18,820	68	12,000	440	-	-	-
2/21/22	7.0	23.3	17,900	1,200	5,600	8,930	-	-	-
2/28/22	6.9	24.3	22,010	1,180	16,000	8,500	-	-	-
3/7/22	7.2	24.5	17,950	56	15,000	383	-	-	-
3/15/22	6.8	24.6	17,292	1,240	11,000	8,320	-	-	-
3/21/22	7.0	23.4	17,350	1,270	17,000	8,080	-	-	-
3/28/22	6.9	24.9	22,150	1,230	17,000	8,470	-	-	-
4/4/22	6.9	24.8	18,200	1,240	16,000	8,910	-	-	-
4/11/22	7.3	24.7	16,420	1,230	15,900	8,580	-	-	-
4/18/22	6.9	25.4	20,110	1,270	16,200	8,940	-	-	-
4/25/22	6.9	25.9	17,810	1,270	16,600	8,250	-	-	-
5/2/22	6.9	26.3	19,060	1,260	17,600	8,340	-	-	-
5/9/22	7.0	26.3	18,100	1,240	17,400	8,350	-	-	-
5/16/22	7.0	26.8	18,700	1,280	16,400	8,450	-	-	-
5/23/22	7.0	27.0	19,020	1,240	17,500	8,610	-	-	-
5/30/22	7.0	27.3	19,350	1,260	16,500	8,610	-	-	-
6/6/22	7.0	27.7	19,690	1,240	17,000	8,330	-	-	-
6/13/22	7.2	27.3	21,063	1,230	17,000	8,710	-	-	-
6/20/22	6.9	28.0	13,185	1,170	17,000	8,330	-	-	-
6/27/22	7.0	28.5	19,730	1,160	20,000	7,690	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
7/5/22	7.0	28.5	19,540	1,220	12,000	8,340	-	-	-
7/11/22	7.0	28.5	19,435	1,240	17,000	8,680	-	-	-
7/18/22	7.0	29.0	18,731	1,240	16,000	8,710	-	-	-
7/27/22	7.0	29.0	18,750	1,270	15,000	8,770	-	-	-
8/1/22	7.1	29.0	19,530	1,290	19,000	8,820	-	-	-
8/8/22	7.0	29.1	21,159	1,230	15,000	9,760	-	-	-
8/15/22	7.0	29.3	19,333	1,180	16,000	8,200	-	-	-
8/22/22	6.9	29.4	20,775	1,150	16,000	8,120	-	-	-
8/29/22	7.0	29.1	21,551	916	15,000	7,110	-	-	-
9/8/22	7.1	29.1	19,927	1,000	12,000	7,390	-	-	-
9/12/22	7.0	29.1	18,935	1,210	16,000	8,070	-	-	-
9/19/22	6.9	29.2	20,330	1,240	15,000	8,590	-	-	-
9/26/22	7.0	29.0	18,671	1,250	14,000	8,620	-	-	-
11/7/22	7.0	26.4	17,533	1,240	14,000	8,820	-	-	-
11/14/22	7.1	25.4	16,510	820	13,000	6,980	-	-	-
11/21/22	7.1	25.1	19,861	1,240	11,000	8,230	-	-	-
11/28/22	6.9	25.3	18,755	1,230	12,000	8,630	-	-	-
12/5/22	7.0	25.5	19,351	1,230	12,000	8,300	-	-	-
12/12/22	7.1	25.5	19,547	1,070	13,000	7,120	-	-	-
12/19/22	7.0	24.0	14,753	1,230	14,000	8,620	-	-	-
12/26/22	7.0	23.1	18,711	1,240	13,000	8,500	-	-	-
1/2/23	7.1	24.4	19,436	1,210	12,000	8,270	-	-	-
1/9/23	7.1	23.9	19,168	1,240	13,000	9,010	-	-	-
1/16/23	7.0	22.9	19,868	1,240	17,000	8,870	-	-	-
1/23/23	7.1	22.9	19,163	1,240	14,000	8,740	-	-	-
1/30/23	7.1	23.7	21,366	1,280	15,000	8,270	-	-	-
2/6/23	7.1	23.6	18,255	1,220	12,000	8,790	-	-	-
2/13/23	7.1	23.7	17,976	1,250	14,000	8,840	-	-	-
2/21/23	7.1	24.5	19,385	1,280	12,000	8,910	-	-	-
2/28/23	7.1	24.8	20,733	1,260	13,000	9,890	-	-	-
3/16/23	7.1	23.2	19,255	1,270	15,000	9,110	-	-	-
4/19/23	7.1	26.0	18,917	1,260	12,000	8,680	-	-	-
5/23/23	6.9	27.6	19,808	1,270	17,000	8,930	-	-	-
6/28/23	6.9	29.2	19,265	1,260	740	9,590	-	-	-
7/25/23	7.0	29.7	19,195	1,260	14,000	9,000	-	-	-
9/12/23	7.1	28.0	18,297	1,260	15,000	9,870	2.86+/-1.69	1.15U+/-.533	.946U+/-.417
10/26/23	7.1	28.2	18,547	1,220	12,000	8,870	-	-	-
11/21/23	7.1	27.2	18,968	1,260	13,000	8,800	-	-	-

Table 2-3 - Summary of Water Quality Analyses for MW-1

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
12/17/23	6.95	23.9	18,231	1,200	16,000	8,430	-	-	-
1/29/24	7.21	23.0	18,870	1,160	15,000	7,770	-	-	-
2/28/24	7.39	23.1	17,375	1,160	13,000	8,760	-	-	-
3/26/24	6.85	24.4	19,255	1,230	12,000	8,480	-	-	-
4/29/24	7.03	24.6	19,164	1,100	13,000	7,940	-	-	-
5/28/24	6.93	28.3	20,067	1,440	12,000	8,900	-	-	-
6/26/24	6.95	27.8	15,817	1,130	14,000	7,996	-	-	-
7/31/24	7.05	28.9	15,929	1,100	12,000	8,750	-	-	-
8/28/24	7.01	29.3	14,781	1,130	14,000	9,060	-	-	-
9/24/24	7.04	28.5	17,575	1,120	14,000	8,390	-	-	-
10/30/24	7.06	27.7	18,810	1,070	15,000	8,340	-	-	-
11/25/24	7.22	24.8	19,743	1,060	14,000	8,420	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
8/7/19	7.4	29.4	2,950	104.0	1,900	814	-	-	-
8/13/19	7.3	29.2	2,520	92.1	1,900	1,190	-	-	-
8/21/19	7.2	28.9	1,574	75.0	1,200	423	-	-	-
8/27/19	7.6	28.3	2,120	70.7	1,400	565	-	-	-
9/5/19	7.8	28.8		67.3	1,500	786	-	-	-
9/12/19	7.8	28.8	2,671	79.1	1,500	676	-	-	-
9/18/19	7.6	28.8	2,971	77.0	1,700	960	-	-	-
9/24/19	7.4	28.8	3,489	109.0	1,730	1,190	-	-	-
10/1/19	7.5	28.7	4,074	130.0	2,600	1,430	-	-	-
10/10/19				157.0	2,700	1,660	-	-	-
10/17/19	7.4	29.0	4,842	151.0	3,000	1,570	-	-	-
10/23/19	7.4	28.4	4,039	133.0	1,700	1,490	-	-	-
10/28/19	7.8	28.1	4,211	143.0	2,800	1,450	-	-	-
11/6/19	7.5	27.8	4,336	149.0	2,600	1,680	-	-	-
11/12/19	7.5	28.0	4,520	151.0	2,500	1,440	-	-	-
11/19/19	7.3	27.0	4,751	187.0	2,600	1,830	-	-	-
11/25/19	7.5	25.5	4,669	150.0	3,120	1,720	-	-	-
12/2/19	7.8	25.5	4,538	151.0	2,900	1,720	-	-	-
12/9/19	7.9	25.7	4,919	135.0	2,800	1,660	-	-	-
12/18/19	7.4	24.3	3,875	130.0	2,300	1,610	-	-	-
12/23/19	7.6	24.0	3,522	110.0	2,000	979	-	-	-
12/30/19	7.8	24.6	3,579	112.0	2,400	1,060	-	-	-
1/7/20	7.2	23.9	3,499	106.0	2,200	1,090	-	-	-
1/15/20	7.8	23.8	3,374	99.6	2,260	856	-	-	-
1/20/20	7.7	22.4	1,923	112.0	2,300	963	-	-	-
1/29/20	7.6	23.4	3,596	136.0	1,700	895	-	-	-
2/5/20	7.5	22.9	3,137	92.1	1,200	890	-	-	-
2/11/20	7.5	24.0	2,967	87.5	1,600	847	-	-	-
2/19/20	7.7	24.9	2,850	86.1	1,800	806	-	-	-
2/26/20	7.6	24.6	3,148	114.0	2,300	966	-	-	-
3/3/20	7.6	24.7	3,438	111.0	2,200	1,080	-	-	-
3/10/20	7.7	24.3	3,889	121.0	2,300	1,180	-	-	-
3/18/20				144.0		1,310	-	-	-
3/25/20	7.3	24.6	1,419	147.0	2,600	1,500	-	-	-
4/1/20	7.7	24.9	4,988	184.0	3,400	1,580	-	-	-
4/7/20	7.6	25.1	4,612	190.0	3,300	1,600	-	-	-
4/14/20	7.4	26.2	5,068	218.0	3,300	1,700	-	-	-
4/21/20	7.4	25.4	5,570	234.0	3,900	1,730	-	-	-
4/28/20	7.9	25.8	5,800	221.0	3,600	1,800	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
5/4/20	7.4	26.1	5,741	222.0	3,200	1,740	-	-	-
5/12/20	7.4	25.7	5,896	292.0	3,200	1,960	-	-	-
5/19/20	7.2	26.5	5,983	563.0	3,700	1,800	-	-	-
5/26/20	7.4	27.0	4,555	235.0	3,300	1,880	-	-	-
6/2/20	7.3	27.6	4,510	196	2,700	1,550	-	-	-
6/9/20	7.5	27.6	2,591	114	1,800	840	-	-	-
6/15/20	7.3	27.6	3,756	135	2,000	864	-	-	-
6/23/20	7.7	28.8	3,810	155	2,400	1,080	-	-	-
6/30/20	7.6	29	4,300	171	2,400	1,320	-	-	-
7/8/20	7.5	29.2	5,990	199	2,700	1,510	-	-	-
7/14/20	7.6	29.1	5,150	232	3,500	1,580	-	-	-
7/21/20	7.7	28.8	3,625	115	2,200	748	-	-	-
7/27/20	7.5	28.5	1,098	133	2,000	1,020	-	-	-
8/3/20	7.6	28.6	3,448	128	2,000	870	-	-	-
8/3/20	7.8	29.2	4,202	163	2,200	1,230	-	-	-
8/17/20	7.6	29.2	4,735	207	3,200	1,520	-	-	-
8/24/20	7.6	28.4	3,043	129	1,800	855	-	-	-
9/7/20	7.5	29.5	2,891	97	1,800	582	-	-	-
9/14/20	7.5	28.5	1,687	45	910	284	-	-	-
9/21/20	7.5	29.5	1,791	41	1,100	388	-	-	-
9/28/20	7.3	29.0	1,807	60	1,200	527	-	-	-
10/5/20	7.4	28.3	1,853	55.4	1,200	451	-	-	-
10/12/20	7.6	28.6	1,887	27.8	1,000	347	-	-	-
10/19/20	7.6	28.1	2,043	62.1	1,400	531	-	-	-
10/26/20	7.4	28.2	2,651	96.2	2,100	729	-	-	-
11/2/20	7.4	28.1	2,843	111.0	2,200	830	-	-	-
11/10/20	7.4	28.0	2,850	99.6	1,900	888	-	-	-
11/16/20	7.5	27.4	2,835	69.7	1,600	655	-	-	-
11/23/20	7.4	26.8	2,530	66.8	1,600	622	-	-	-
11/30/20	7.5	26.8	3,161	107	2,100	945	-	-	-
12/7/20	7.2	25.1	2,151	54.6	1,400	536	-	-	-
12/14/20	7.3	25.2	2,174	42.9	1,600	480	-	-	-
12/22/20	7.2	25.0	2,161	43.4	1,300	473	-	-	-
12/28/20	7.4	25.1	2,218	42	1,300	448	-	-	-
1/4/21	7.4	25.3	2,310	39.0	1,300	462	-	-	-
1/11/21	7.4	25.2	2,415	51.4	1,600	537	-	-	-
1/18/21	7.8	23.2	2,581	72.2	1,900	641	-	-	-
1/25/21	7.7	23.3	2,618	76.7	1,800	728	-	-	-
2/1/21	7.7	23.3	2,625	99.2	1,800	866	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
2/8/21	7.7	23.4	2,628	106.0	2,100	943	-	-	-
2/15/21	7.7	25.8	3,221	125.0	2,600	1,030	-	-	-
2/22/21	7.7	23.9	3,131	111.0	2,000	999	-	-	-
3/1/21	7.8	24.3	2,722	122.0	2,400	1,020	-	-	-
3/8/21	7.8	23.3	2,720	121.0	2,500	1,000	-	-	-
3/15/21	7.9	24.3	3,893	126.0	2,600	1,030	-	-	-
3/22/21	7.8	24.0	3,841	126.0	2,400	1,050	-	-	-
3/29/21	7.9	24.7	4,090	121	2,600	1,070	-	-	-
4/5/21	8.1	24.4	4,050	135.0	2,400	1,090	-	-	-
4/13/21	8.0	24.3	4,083	98.5	2,100	797	-	-	-
4/20/21	8.1	25.3	3,840	123.0	2,580	1,010	-	-	-
4/27/21	8.2	25.4	3,518	108.0	2,100	898	-	-	-
5/3/21	8.1	26.1	3,972	142.0	2,300	1,070	-	-	-
5/10/21	8.0	26.0	3,968	145.0	2,400	1,070	-	-	-
5/17/21	8.2	26.0	3,892	125.0	2,300	993	-	-	-
5/24/21	7.9	26.3	3,651	116.0	2,000	921	-	-	-
5/31/21	8.0	26.6	3,471	114		913	-	-	-
6/7/21	8.0	26.8	3,391	110.0	1,800	864	-	-	-
6/14/21	8.0	27.4	3,080	104.0	1,900	853	-	-	-
6/21/21	8.1	27.4	3,066	103.0	1,800	893	-	-	-
6/28/21	7.9	27.3	2,983	102	1,800	863	-	-	-
7/8/21	7.9	27.1	2,920	56.4	8,300	363	-	-	-
7/12/21	7.8	27.1	5,000	45.0	850	310	-	-	-
7/19/21				36.3	1,100	308	-	-	-
7/26/21	8.2	28.4	18,661	45.8	1,400	393	-	-	-
8/2/21	8.0	28.2	15,902	16.1	1,100	281	-	-	-
8/9/21	8.3	28.7	17,533	17.5	1,200	301	-	-	-
8/16/21	7.9	28.0	16,201	9.4	810	115	-	-	-
8/23/21	7.9	28.1	16,313	5.4	1,100	250	-	-	-
8/30/21	7.9	28.2	16,449	6	970	145	-	-	-
9/6/21	8.0	28.2	16,512		740	147	-	-	-
9/13/21	8.0	28.3	16,788	46.1	1,400	460	-	-	-
9/21/21	8.2	28.2	14,792	12.7	6,700	195	-	-	-
9/27/21	7.9	28.4	16,010	14.3	850	109	-	-	-
10/4/21	7.9	27.9	15,960	18.9	790	213	-	-	-
10/13/21	7.6	28.2	1,376	14.2	990	212	-	-	-
10/20/21	7.6	27.9	2,185	53.0	1,200	494	-	-	-
10/25/21	7.4	27.9	2,243	60.2	1,470	560	-	-	-
11/1/21	7.5	26.2	2,113	58.8	1,430	549	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
11/8/21	7.6	26.2	2,031	38.8	1,250	357	-	-	-
1/15/21	7.6	25.5	2,019	41.0	1,190	347	-	-	-
11/22/21	7.7	26.1	2,011	35.5	1,190	338	-	-	-
11/29/21	7.7	24.7	2,172	57.9	1,400	488	-	-	-
12/6/21	7.7	24.7	2,410	71.4	1,380	543	-	-	-
12/13/21	7.8	24.9	2,510	78.4	1,530	591	-	-	-
12/20/21	7.6	25.0	2,305	78.1	1,540	583	-	-	-
12/27/21	7.7	24.4	2,515	66.6	1,530	583	-	-	-
1/3/22	7.3	24.3	2,447	75.9	1,100	570	-	-	-
1/10/22	7.5	24.6	2,130	76.1	1,800	535	-	-	-
1/17/22	7.5	23.8	2,240	61.9	1,100	480	-	-	-
1/24/22	7.5	22.9	2,200	60.7	1,000	478	-	-	-
1/31/22	7.5	22.5	2,230	63.0	1,400	467	-	-	-
2/7/22	7.4	22.3	1,990	61.5	1,200	464	-	-	-
2/14/22	7.5	21.7	2,100	62.9		456	-	-	-
2/21/22	7.4	23.5	1,980	60.8	1,300	448	-	-	-
2/28/22	7.6	23.9	1,961	57.0	1,500	406	-	-	-
3/7/22	7.6	24.4	1,860	55.8		410	-	-	-
3/15/22	7.2	24.2	1,926	57.5	1,100	396	-	-	-
3/21/22	7.5	23.8	1,783	56.0	1,000	339	-	-	-
3/28/22	7.6	24.6	1,822	54.2	900	324	-	-	-
4/4/22	7.6	24.7	1,695	51.5	870	323	-	-	-
4/11/22	6.9	25.0	1,770	49.1	936	306	-	-	-
4/18/22	7.4	25.2	1,830	50.0	916	310	-	-	-
4/25/22	7.5	25.5	1,660	52.2	986	295	-	-	-
5/2/22	7.5	25.8	1,622	50.0	1,020	299	-	-	-
5/9/22	7.6	26.2	1,530	40.5	782	275	-	-	-
5/16/22	7.6	26.2	1,540	48.1	908	287	-	-	-
5/23/22	7.5	26.6	1,532	45.6	867	288	-	-	-
5/30/22	7.6	26.9	1,536	48.3	902	270	-	-	-
6/6/22	7.4	27.3	1,772	45.3	930	315	-	-	-
6/13/22	7.0	27.0	1,875	49.4	1,100	355	-	-	-
6/20/22	7.1	27.8	1,925	35.0	1,100	341	-	-	-
6/27/22	7.2	27.9	1,713	43.7	920	295	-	-	-
7/5/22	7.3	28.2	1,646	44.4	900	301	-	-	-
7/11/22	7.1	28.3	1,619	47.0	770	312	-	-	-
7/18/22	7.4	28.9	1,562	45.0	820	287	-	-	-
7/27/22	7.5	28.7	1,480	45.2	770	261	-	-	-
8/1/22	7.4	29.0	1,558	42.1	800	275	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
8/8/22	7.4	28.8	1,972	47.7	960	374	-	-	-
8/15/22	7.4	29.3	1,742	40.8	1,000	363	-	-	-
8/22/22	7.4	29.2	1,959	41.0	1,100	363	-	-	-
8/29/22	7.4	29.0	1,963	43.8	910	350	-	-	-
9/8/22	7.5	29.3	1,789	42.0	1,200	300	-	-	-
9/12/22	7.5	29.0	1,882	41.1	940	330	-	-	-
9/19/22	7.4	29.0	1,939	47.0	1,100	347	-	-	-
9/26/22	7.4	28.8	1,737	38.9	1,000	317	-	-	-
11/7/22	7.4	26.0	1,425	33.5	900	228	-	-	-
11/14/22	7.4	25.7	1,958	28.0	960	216	-	-	-
11/21/22	7.5	24.4	1,529	28.9	910	212	-	-	-
11/28/22	7.4	25.1	1,516	28.8	930	223	-	-	-
12/5/22	7.4	25.8	1,631	33.5	980	249	-	-	-
12/12/22	7.4	25.6	1,695	39.3	1,100	257	-	-	-
12/19/22	7.4	24.2	1,741	37.9	950	301	-	-	-
12/26/22	7.5	23.4	1,908	44.8	1,200	319	-	-	-
1/2/23	7.4	24.1	1,832	41.7	1,100	296	-	-	-
1/9/23	7.5	23.7	1,758	39.9	1,000	305	-	-	-
1/16/23	7.5	22.8	1,775	35.4	1,000	312	-	-	-
1/23/23	7.5	22.8	1,717	47.3	1,000	311	-	-	-
1/30/23	7.5	23.4	1,714	42.6	1,000	288	-	-	-
2/6/22	7.4	23.5		42.4	1,000		-	-	-
2/13/23	7.5	23.5	1,727	47.5	930		-	-	-
2/21/23	7.5	24.3	1,775	48.1	880		-	-	-
2/28/23	7.4	24.8	1,822	52.4	900		-	-	-
3/16/23	7.4	23.4	1,808	55.1	910	361	-	-	-
4/19/23	7.4	26.1	1,622	50.4	880	306	-	-	-
5/23/23	7.4	27.8		55.5	970	315	-	-	-
6/28/23	7.4	29.1	1,444	39.3		249	-	-	-
7/25/23	7.4	30.2	1,393	37.3	930	254	-	-	-
9/12/23	7.4	27.9	1,737	40.1	720	155	4.89+/-2.68	2.28+/-1.14	4.18+/-1.03
10/6/23	7.5	28.4	1,417	48.2	910	257	-	-	-
11/21/23	7.5	27.3	1,485	50.5	840	280	-	-	-
12/17/23	7.4	23.8	1,510	41.1	860	259	-	-	-
1/29/24	7.3	22.9	1,262	45.3	830	197	-	-	-
2/28/24	7.4	23.0	1,126	47.2	600	157	-	-	-
3/26/24	7.0	24.3	1,119	51.8	580	183	-	-	-
4/29/24	7.4	24.4	1,637	60.6	780	313	-	-	-
5/28/24	7.5	28.1	1,638	59.4	840	292	-	-	-

Table 2-4 - Summary of Water Quality Analyses for MW-2

	Monthly Analytical Parameters						Semi-annual Analytical Parameters		
Date	pH (su)	Temp (C°)	Spec Cond (umhos/cm)	Sulfate (mg/l)	TDS (mg/l)	Chloride (mg/l)	Gross Alpha (pCi/l)	Radium 226 (pCi/l)	Radium 228 (pCi/l)
6/26/24	7.4	27.8	1,257	44.8	700	228	-	-	-
7/31/24	7.34	28.7	1,128	43.3	680	182	-	-	-
8/28/24	7.32	29.3	1,008	27.5	500	140	-	-	-
9/24/24	7.34	28.3	1,672	30.1	420	721	-	-	-
10/30/24	7.22	27.8	8,978	479.0	2,000	3,090	-	-	-
11/25/24		24.5	8,142	336.0	5,100	2,560	-	-	-

Table 2-5 - Summary of Monthly Water Levels for the Monitoring Wells

	MW-1 (feet NAVD)			MW-2 (feet NAVD)		
Month	Maximum Daily Water Level	Minimum Daily Water Level	Average of Daily Water Level Data	Maximum Daily Water Level	Minimum Daily Water Level	Average of Daily Water Level Data
8/1/19	2.83	0.53	1.43	3.97	-1.45	1.78
9/1/19	1.87	0.15	0.88	1.08	-2.31	0.73
10/1/19	2.67	0.52	1.52	3.13	-1.8	1.29
11/1/19	2.31	0.4	1.25	1.34	-1.36	1.1
12/1/19	2.38	0.10	1.05	2.44	-0.99	1.08
1/1/20	1.83	-0.09	0.78	1.42	-0.13	0.76
2/1/20	3.20	-0.24	0.68	1.39	-0.39	0.65
3/1/20	1.95	-0.24	1.1	0.53	-2.14	-0.14
4/1/20	2.71	0.80	1.57	0.31	-1.48	0.05
5/1/20	2.78	0.09	1.63	1.53	-1.16	0.27
6/1/20	6.60	-0.42	1.99	2.49	-0.68	0.80
7/1/20	3.06	0.18	1.93	2.13	-1.81	0.63
8/1/20	3.08	0.88	1.99	2.18	-2.01	0.68
9/1/20	8.33	0	2.33	3.24	-1.03	1.24
10/1/20	30.31	1.45	2.30	1.68	-1.45	0.94
11/1/20	3.91	0	2.04	2.54	-2.52	0.74
12/1/20	2.87	0.94	1.77	1.28	-1.81	0.58
1/1/21	2.87	0	0	0	0	0
2/1/21	2.87	0	0	0	0	0
3/1/21	1.98	-5.45	1.41	29.01	-6.39	6.14
4/1/21	2.58	0	1.61	7.72	-0.8	2.25
5/1/21	2.34	0.65	1.45	16.93	-5.95	5.65
6/1/21	2.53	0.97	1.75	8.09	-5.82	0.04
7/1/21	3.27	0	2.03	3.89	-5.95	0.36
8/1/21	3.34	1.12	2.22	15.35	-6.36	1.08
9/1/21	3.22	0	2.12	0	-6.12	-2.95
10/1/21	2.91	1.33	2.16	5.85	-6.15	-5.48
11/1/21	3.42	0	2.1	0	-6.4	-6.28
12/1/21	2.5	1.1	2.11	-2.01	-6.39	-4.75
1/1/22	3.01	1.04	1.78	-2.161	-3.57	-2.43
2/1/22	2.61	0	1.54	0	0	0
3/1/22	2.39	-8.56	1.61	0	0	0
4/1/22	2.23	-8.56	1.14	0	0	0

Table 2-5 - Summary of Monthly Water Levels for the Monitoring Wells

	MW-1 (feet NAVD)			MW-2 (feet NAVD)		
Month	Maximum Daily Water Level	Minimum Daily Water Level	Average of Daily Water Level Data	Maximum Daily Water Level	Minimum Daily Water Level	Average of Daily Water Level Data
5/1/22	2.9	1.07	1.93	21.25	-6.65	-0.05
6/1/22	3.1	0	2.01	6.19	-7.17	-6.26
7/1/22	2.61	-8.56	-1.93	20.85	-6.61	-4.35
8/1/22	0	-8.49	-	0	-6.35	-5.63
9/1/22	15.15	-7.69	0.72	-	-	-2.38
11/1/22	0.38	-0.69	-0.19	0.9	-2.57	0.36
12/1/22	0.53	-0.85	-0.29	0.46	-2.82	0.12
1/1/23	0.25	-0.89	-0.45	0.70	-2.63	-0.16
2/1/23	0.02	-0.97	-0.48	0	-2.42	-0.34
3/1/23	0.36	-0.85	-	0.14	-2.64	-0.14
4/1/23	0.43	-0.92	-	0.67	-293	-0.02
5/1/23	0.49	-0.8	-	0.46	-2.51	-0.07
6/1/23	0.75	-0.58	-0.03	2.89	-2.6	0.41
7/1/23	0.33	-0.76	-0.22	0.97	-2.4	0.09
9/1/23	-	-0.51	0.05	1.49	-1.06	0.64
10/1/23	-	-0.49	0.02	1	-	0.51
11/1/23	0.22	-0.75	-0.04	1.5	-1.93	0.45
12/1/23	1.09	-0.77	-0.15	1.67	-1.74	0.34
1/1/24	0.67	-0.87	-0.24	1.89	-2.22	0.43
2/1/24	173	-0.79	-0.32	0.7	-2.16	0.06
3/1/24	0.29	-0.84	-0.35	0.81	-0.57	-0.02
4/1/24	0.4	-0.85	-0.34	0.66	-1.58	0.05
5/1/24	0.29	-0.69	-0.23	0.99	-0.52	0.14
6/1/24	0.65	-0.56	-0.04	3.1	0	0.61
7/1/24	0.54	-0.64	-0.13	1.73	0.1	0.47
8/1/24	1.23	-0.54	0	2.95	-1.51	0.69
9/1/24	2.52	-0.58	0.29	4.35	0	1.17
10/1/24	2.57	-0.62	0.19	4.38	-0.2	1.29
11/1/24	1.12	-0.41	0.51	0.63	-0.56	-0.07

Appendix

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

SENT VIA ELECTRONIC MAIL

In the Matter of an Application for Permit by: July 16, 2020

Timothy Fitzsimmons, Chief Executive Officer
Useppa Utility Company
P.O. Box 640
Bokeelia, Florida 33922
tfitz5@comcast.net

FDEP UIC Permit No.: 045884-005-UO/5O
FDEP WACS Facility ID: 98998
Lee County
Class V Injection Well System, IW-1
Operation, Useppa Island RO WTP

NOTICE OF PERMIT

Enclosed is Permit Number 045884-005-UO/5O to operate a Class V Injection Well System.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, (F.S.), by the filing of a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 323993000, agency_clerk@dep.state.fl.us; and by filing a copy of the Notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

EXECUTING AND CLERKING:

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Joseph Haberfeld, P.G.
Aquifer Protection Program
Division of Water Resource Management

CERTIFICATE OF SERVICE

The undersigned duly designated clerk hereby certifies that this NOTICE OF PERMIT and all copies were sent on the filing date Thursday, July 16, 2020, to the following listed persons:

Joseph Haberfeld, FDEP/TLH	*joe.haberfeld@floridadep.gov*
Douglas Thornton, FDEP/TLH	*douglas.thornton@floridadep.gov*
Cindy Fischler, FDEP/TLH	*cindy.fischler@floridadep.gov*
James Dodson, FDEP/TLH	*james.dodson@floridadep.gov*
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Edith Chuy, FDEP/TLH	*edith.chuy@floridadep.gov*
Jason Meadows, USEPA/ATL	*meadows.jasonb@epa.gov*

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section.120.52, Florida Statutes, (F.S.), with the designated Department Clerk, receipt of which is hereby acknowledged.

Lisa Williams
Clerk

07/16/2020
Date

FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

Underground Injection Control
Class V, Group 4, Injection Well System
Operation Permit

Permittee

Timothy Fitzsimmons, Chief Executive Officer
Useppa Utility Company
P.O. Box 640
Bokeelia, Florida 33922
tfitz5@comcast.net

Permit/Certification

UIC Permit Number: 045884-005-UO/5O
WACS Facility ID: 98998
Date of Issuance: July 16, 2020
Date of Expiration: July 16, 2025
Permit Processor: Douglas Thornton

Facility

Useppa Island Reverse Osmosis
Water Treatment Plant
Useppa Island, Florida 33924

Location

County: Lee
Latitude: 26° 39' 40" N
Longitude: 82° 12' 51" W

Project: Class V Injection Well System IW-1.

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and the rules adopted thereunder, particularly Chapter 62-528, Florida Administrative Code (F.A.C.). The above-named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department of Environmental Protection (Department) and made a part hereof and specifically described as follows.

TO OPERATE: A non-hazardous underground injection control (UIC) well system, consisting of one Class V injection well (IW-1) and two associated monitor wells (MW-1 and MW-2) for the disposal of reverse osmosis concentrate from the Useppa Island Reverse Osmosis Water Treatment Plant. The maximum injection rate for IW-1 shall be 50 gallons per minute (GPM) and the maximum injection volume for IW-1 shall be 0.072 million gallons per day (MGD). The injection well is constructed with a 10-inch diameter PVC casing set to 50 feet below land surface (bls) with a cemented annulus and total depth of 60 feet bls. A single-zone monitor well (MW-1) is completed in the Surficial aquifer from 5 to 15 feet bls. A single-zone monitor well (MW-2) is completed in the Surficial aquifer from 2 to 7 feet bls.

IN ACCORDANCE WITH: The Application to Operate DEP Form No. 62-528.900(1) received, July 29, 2019, response to the Department's request for additional information dated September 19, 2019, and supporting information submitted to the Aquifer Protection Program (APP) Tallahassee office.

LOCATION: Useppa Island Reverse Osmosis Water Treatment Plant, Useppa Island, Florida 33924, in Lee County.

The injection and monitor wells, as designated below by Well Name and Water Assurance Compliance System (WACS) Testsite identification (ID), and construction details at this facility are designated as follows:

Injection Well(s; IW)

Well Name	WACS Effluent Testsite ID	Total Well Depth (feet bls)	Casing Diameter (in)	Casing or Tubing Type	Casing Depth or Interval (feet bls)
IW-1	13974	60	10	SCH 40 PVC	50
			Open Hole		50 – 60

Injection Well Notes: Constructed with new, unused Schedule 40 PVC fully cemented to land surface. When initially drilled as an exploratory well, borehole extended to a depth of 180 feet bls and was backfilled with cement grout to 60 feet bls.

Monitor Well(s; MW)

Well Name	WACS monitor well Testsite ID	Monitoring Zone	Casing Diameter (in)	Casing Type	Casing Depth (feet bls)	Monitoring Depth (feet bls)
MW-1			2	PVC	15	
	29017A	Surficial Aquifer				5 – 15
MW-2			2	PVC	2	
	29018A	Surficial Aquifer				2 – 7

Monitor Well Notes: constructed with new, unused Schedule 40 PVC with an annulus fully cemented to land surface.

SUBJECT TO: Specific Conditions I-VI and General Conditions 1-24.

Specific Conditions

I. OPERATING REQUIREMENTS

A. General

1. Only non-hazardous injectate as described in this permit and purge water from the on-site monitoring wells (associated with the injection well system) may be discharged into the injection wells. *[62-528.400(1), F.A.C.]*

2. The flow to the injection wells at each wellhead shall be monitored and controlled at all times to ensure the maximum fluid velocity down the well during operation does not exceed the respective flow rate indicated below, and shall not exceed 10 feet per second except during planned testing, maintenance, or emergency conditions in which case the flow rate shall not exceed 12 feet per second:

Well	Peak Flow Rate	
	GPM	MGD
IW-1	50	0.072

[62-528.415(1)(f), F.A.C.]

3. No underground injection is allowed that causes or allows movement of fluid into an underground source of drinking water (USDW) if such fluid movement may cause a violation of any Primary or Secondary Drinking Water Standard unless otherwise exempted or permitted, or may otherwise affect the health of persons. *[62-528.440(2)(c), F.A.C.]*

4. All equipment of this facility shall be operated and maintained so as to function consistently as designed in removing pollutants. The wastewater stream shall remain non-hazardous at all times. *[62-528.307(3)(b) and 62-528.400(1), F.A.C.]*

5. In the event a well must be plugged or abandoned, the permittee shall obtain a permit from the Department as required by Chapter 62-528, (F.A.C.). When no longer used for their intended purpose, these wells shall be properly plugged and abandoned. Within 180 days of well abandonment, the permittee shall submit to the Department the proposed plugging method, pursuant to Rule 62-528.460, F.A.C. *[62-528.460(1) and 62-528.435(6), F.A.C.]*

6. In accordance with Rules 62-4.090 and 62-528.455(3)(a), F.A.C., the permittee shall submit an application for permit renewal at least 60 days prior to expiration of this permit. *[62-528.307(3)(a), F.A.C.]*

7. Hurricane Preparedness: Preparations to be made by permittee upon issuance of a "Hurricane Watch" by the National Weather Service include, but are not limited to:
   a. Secure all onsite salt and other stockpiled additive materials to prevent surface and/or ground water contamination.
   b. Properly secure equipment to prevent damage to well(s) and onsite treatment process equipment.

   [62-528.307(1)(f), F.A.C.]

B. Surface Equipment

1. The integrity of the monitoring zone sampling systems shall be maintained at all times. Sampling lines shall be clearly and unambiguously identified by monitoring zone at the point at which samples are drawn. All reasonable and prudent precautions shall be taken to ensure that samples are properly identified by monitoring zone and that samples obtained are representative of those zones. Sampling lines and equipment shall be kept free of contamination with independent discharges and no interconnections with any other lines. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*

2. The surface equipment for each injection well disposing of domestic (municipal) effluent shall maintain compliance with Rule 62-600.540(4), F.A.C., for water hammer control, screening, access for logging and testing, and reliability and flexibility in the event of damage to the well and effluent piping. *[62-600.540(4), 62-528.307(1)(f), and 62-528.307(3)(b), F.A.C.]*

3. Injection wells not disposing of domestic (municipal) effluent shall maintain compliance with Rule 62-528.450(2)(j), F.A.C., for water hammer control, as well as access for logging and testing, and reliability and flexibility in the event of damage to the well and effluent piping. *[62-528.450(2)(j), 62-528.307(1)(f), and 62-528.307(3)(b), F.A.C.]*

4. The surface equipment and piping for the injection and monitoring wells shall be kept free of corrosion at all times. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*

5. Spillage onto the injection well pad(s) during construction activities, and any waters spilled during mechanical integrity testing, maintenance, testing, or repairs to the system(s) shall be contained on the pad(s) and directed to a sump which in turn discharges to the pumping station wet well, or via other approved means to the injection well system, or by another method approved by the Department. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*

6. The injection well pads are not, unless specific approval is obtained from the Department, to be used for storage of any material or equipment at any time. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*

II. QUALITY ASSURANCE/QUALITY CONTROL

1. The permittee shall ensure that the operation of this injection well system shall be as described in the application and supporting documents. Any proposed modifications to the permit, construction procedures, testing procedures, completion procedures, operation procedures, or any additional work not described in the application or supporting documents shall be submitted in writing to the Tallahassee office of the Aquifer Protection Program for review and clearance prior to implementation. Changes of negligible impact to the environment and staff time will be reviewed by the program manager, cleared when appropriate and incorporated into this permit. Changes or modifications other than those described above will require submission of a completed application and appropriate processing fee as per Rule 62-4.050, F.A.C. *[62-4.050, F.A.C.]*

2. Proper operation and maintenance include effective performance and appropriate quality assurance procedures; adequate operator staffing and training; and adequate laboratory and process controls. *[62-528.307(3)(b), F.A.C.]*

3. All water quality samples required by this permit shall be collected in accordance with the appropriate Department Standard Operation Procedures (SOP), pursuant to Rule 62-160.210, F.A.C., *Approved Field Procedures*. A certified laboratory shall conduct the analytical work, as provided by Rule 62-160.300, F.A.C., *Laboratory Certification*. Department approved test methods shall be utilized, unless otherwise stated in this permit. All calibration procedures for field testing and laboratory equipment shall follow manufacturer's instrumentation manuals and satisfy the requirements of the Department SOPs. A listing of the SOPs pertaining to field and laboratory activities is available at the FDEP website at: https://floridadep.gov/dear/quality-assurance/content/dep-sops. *[62-4.246, 62-160, F.A.C.]*

4. All indicating, recording and totalizing devices associated with the injection well system shall be maintained in good operating condition and calibrated annually at a minimum. The pressure gauges, flow meter, and chart recorders shall be calibrated using standard engineering methods. *[62-528.307(1)(f) and 62-528.307(3)(b), F.A.C.]*

5. All reports submitted to satisfy the requirements of this permit shall be signed by a person authorized under Rule 62-528.340(1), F.A.C., or a duly authorized representative of that person under Rule 62-528.340(2), F.A.C. All reports required by this permit which are submitted to the Department shall contain the following certification as required by Rule 62-528.340(4), F.A.C.:

   > I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the

information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

[62-528.340(1), (2), and (4), F.A.C.]

6. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department as being more representative of ground water conditions. *[62-520.310(5), F.A.C.]*

III. TESTING AND REPORTING REQUIREMENTS

A. General

1. The permittee shall submit monthly to the Department the results of all injection well and monitoring well data required by this permit no later than the last day of the month immediately following the month of record. The report shall include:
   a. A cover page summarizing the current status of all monthly activities, including, but not limited to, the certification and signature required in condition II.5.
   b. Operational and water quality data in a tabular format. The following identifying information must be included on each data sheet:
      i. Facility Name
      ii. Well Name
      iii. UIC Permit Number
      iv. WACS Facility ID
      v. WACS Testsite ID number (on appropriate data sheet) as provided on the Injection Well and Monitoring Well tables on page 2 of this permit.
   c. Laboratory pages and original supporting documentation including DEP Form FD 9000-24, *Groundwater Sampling Log*, for the purging of each monitor well.

[62-528.307(3)(d), F.A.C.]

2. The report may be sent via electronic mail in Adobe™ (.pdf) format to the following Program e-mail addresses:

South District Office	SouthDistrict@dep.state.fl.us
Tallahassee - UIC Program	TAL_UIC@dep.state.fl.us

If a paper copy of the report is submitted, it should be sent to Department staff at the following addresses:

South District Office	2295 Victoria Avenue, Suite 364, Ft. Myers, Florida 33901-3875
Tallahassee - UIC Program	2600 Blair Stone Road, MS 3530 Tallahassee, Florida, 32399-2400

[62-528.307(3)(d), F.A.C.]

B. Monitoring

1. The injection system shall be monitored in accordance with Rules 62-528.425(1)(g) and 62-528.430(2), F.A.C. The following injection well performance data and monitor zone data shall be recorded and reported in the Monthly Operating Report (MOR) as indicated below. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. *[62-528.307(3)(d) and 62-528.430(2), F.A.C.]*

PARAMETER	UNIT	RECORDING FREQUENCY OR SAMPLING METHOD	FREQUENCY OF ANALYSES		
			IW-1 *13974*	MW-1 *29017A*	MW-2 *29018A*
Injection Well Pressure, max.	psi	continuous	D/M [a]		
Injection Well Pressure, min.	psi	continuous	D/M [a]		
Injection Well Pressure, avg.	psi	continuous	D/M [a]		
Flow Rate, max.	gpm	daily	D/M		
Volume Injected	MG	daily/monthly	D/M		
Water Level or Pressure, max.	ft NAVD or psi	continuous		D/M [a]	D/M [a]
Water Level or Pressure, min.	ft NAVD or psi	continuous		D/M [a]	D/M [a]
Water Level or Pressure, avg.	ft NAVD or psi	continuous		D/M [a]	D/M [a]
pH[b]	std. units	grab/purge	M	M	M
Specific Conductance[b]	µmhos/cm	grab/purge	M	M	M
Temperature[b]	°C	grab/purge	M	M	M
Chloride	mg/L	grab/purge	M	M	M
Sulfate	mg/L	grab/purge	M	M	M
Total Dissolved Solids	mg/L	grab/purge	M	M	M
Gross Alpha	pCi/L	grab/purge	Q	S	S
$Radium^{226}$	pCi/L	grab/purge	Q	S	S
$Radium^{228}$	pCi/L	grab/purge	Q	S	S

D – daily; M – monthly; Q – Quarterly; S – Semiannual (twice per year)

[a] – Operational data reporting for pressures and water levels: daily max, min and average from continuous reporting; monthly max, min and average (calculated from daily averages).

[b] – Field samples

Refer to the Tables on Page 2 for the appropriate WACS testsite IDs to be used for reporting.

2. Monitor well purging and field stabilization parameter measurement is required prior to the collection of laboratory samples for the Monthly Operating Reports (MORs). The facility shall conduct the monitor well sampling following the monitor well sampling protocols taken from FS 2200-Groundwater Sampling in the DEP-SOP-001/01 Field Sampling Procedures Manual. The following protocol for UIC monitor wells is based on this standard and the facility shall follow this purging protocol. The results of the purging techniques and field stabilization parameters shall be provided on DEP Form FD 9000-24 or a similar alternative approved by DEP, and the completed forms shall be submitted to DEP with the MORs.
   a. Calculate the volume of water in the well casing (or sample pipe if installed), and the monitoring interval. For dual zone monitor wells calculate the upper monitor zone volume with allowance for reduced volume due to the hollow cylinder created by the lower zone tubing. Purge until the water level has stabilized (well recovery rate equals the purge rate), purging a minimum of one well volume, and then collect the first set of stabilization parameters.
   b. Thereafter, collect stabilization parameters after every ¼ well volume beyond the initial one volume.
   c. Purging shall be complete when three consecutive readings of the parameters listed below are within the following ranges[1] **and** a minimum of 1.5 well casing volumes of fluid since the beginning of purging have been evacuated from the monitoring well:
      - pH ± 0.2 Standard Units
      - Specific Conductance ± 5.0% of reading
      - Temperature ± 0.2° C
      - Dissolved Oxygen ≤ 20% Saturation or ± 0.2 mg/L
      - Turbidity ≤20 NTU
   d. If necessary, continue to take the above readings every additional ¼ well volume until three consecutive readings meet the above criteria.
   e. Typical field conditions may not allow the temperature parameter to be met. The sampling team leader may decide whether to collect a sample if a parameter has not been met (DEP SOP FS2212 Section 3.6). Documentation as to why the sample was collected without meeting a field parameter must be recorded in the groundwater sampling log.
   f. If three consecutive ¼ well volume readings have not reached the stabilization criteria listed above by the time the fifth well volume has been reached, the monitoring well sample shall be taken, and document the reason(s) in the groundwater sampling log.

[1] Provided dissolved oxygen in the groundwater of the zone being monitored is ≤ 20% of saturation for the measured temperature and turbidity is ≤ 20 NTUs. This assumption holds true for groundwater in most zones of the Floridan aquifer.

g. If a sampling pipe is used for purging, the sampling pipe volume will substitute for the well casing volume.

The Department will consider an alternate purging method meeting monitor well sampling protocol in FS 2200-Groundwater Sampling in the DEP-SOP-001/01 Field Sampling Procedures Manual in the case where the above procedure causes a hardship to the facility. The permittee shall request an alternate method and receive written Department approval before implementing it. *[62-160.210(1) and 62-528.430(2), F.A.C.]*

3. The flow from the monitoring zones during well evacuation and sampling shall not be discharged to surface waters or aquifers containing an underground source of drinking water. Waters purged from monitoring wells in preparation for sampling shall be diverted to the injection well head via the pad drainage system, wet well, or treatment plant. *[62-4.030, 62-620.320, F.A.C.]*

IV. ABNORMAL EVENTS

1. In the event the permittee is temporarily unable to comply with any of the conditions of a permit due to breakdown of equipment, power outages or destruction by hazard of fire, wind, or by other cause, the permittee of the facility shall notify the South District Office. *[62-528.415(4)(a), F.A.C.]*
2. Notification shall be made in person, by telephone, or by electronic mail (e-mail) within 24 hours of breakdown or malfunction to the South District Office. *[62-528.307(1)(x), F.A.C.]*
3. A written report of any noncompliance referenced in Specific Condition Number VII.1. above shall be submitted to the South District Office and the APP Tallahassee office within five days after its occurrence. The report shall describe the nature and cause of the breakdown or malfunction, the steps being taken or planned to be taken to correct the problem and prevent its reoccurrence, emergency procedures in use pending correction of the problem, and the time when the facility will again be operating in accordance with permit conditions. *[62-528.415(4)(b), F.A.C.]*
4. **Reporting Requirements**

The permittee shall report to the Department's South District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to

continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

a. The following shall be included as information which must be reported within 24 hours under this condition:
   1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
   2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
   3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
   4) Any unauthorized discharge to surface or ground waters.

b. Oral reports as required by this subsection shall be provided as follows:
   1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the STATE WATCH OFFICE TOLL FREE NUMBER 800-320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Watch Office:
      a) Name, address, and telephone number of person reporting;
      b) Name, address, and telephone number of permittee or responsible person for the discharge;
      c) Date and time of the discharge and status of discharge (ongoing or ceased);
      d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
      e) Estimated amount of the discharge;
      f) Location or address of the discharge;
      g) Source and cause of the discharge;
      h) Whether the discharge was contained on-site, and cleanup actions taken to date;
      i) Description of area affected by the discharge, including name of water body affected, if any; and
      j) Other persons or agencies contacted
   2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's South District office within 24 hours from the time the permittee becomes aware of the circumstances.

c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the

environment, the Department's South District office shall waive the written report.

[403.077(2)(d), F.S., 62-528.307(1)(e) and 62-528.307(1)(x), F.A.C.]

5. **Pollution Notification**

   a. In accordance with subsection 403.077, F.S., in the event of a reportable pollution release, an owner or operator of the installation at which the reportable pollution release occurs must provide to the department information reported to the State Watch Office within the Division of Emergency Management pursuant to any department rule, permit, order, or variance, within 24 hours after the owner's or operator's discovery of such reportable pollution release. The Department's Pollution Notice website is at https://floridadep.gov/pollutionnotice.

   b. If multiple parties are subject to the notification requirements based on a single reportable pollution release, a single notification made by one party in accordance with this section constitutes compliance on behalf of all parties subject to the requirement. However, if the notification is not made in accordance with this section, the department may pursue enforcement against all parties subject to the requirement.

   c. If, after providing notice pursuant to paragraph (a), the owner or operator of the installation determines that a reportable pollution release did not occur or that an amendment to the notice is warranted, the owner or operator may submit a letter to the department documenting such determination.

   d. If, after providing notice pursuant to paragraph (a), the installation owner or operator discovers that a reportable pollution release has migrated outside the property boundaries of the installation, the owner or operator must provide an additional notice to the department that the release has migrated outside the property boundaries within 24 hours after its discovery of the migration outside of the property boundaries.

[403.077(2)(d), F.S., 62-528.307(1)(e) and 62-528.307(1)(x), F.A.C.]

V. EMERGENCY DISPOSAL

1. All applicable federal, state and local permits must be in place to allow for any alternate discharges due to emergency or planned outage conditions. *[62-528.415(4)(c)1, F.A.C.]*

2. Any proposed changes in emergency disposal methods shall be submitted to the South district office and the Tallahassee office for review and approval prior to implementation. *[62-528.415(4)(c), F.A.C.]*

3. The emergency disposal method must be fully operational in the event of planned or emergency outages of the injection well system. *[62-528.415(4)(c)2, F.A.C.]*

General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to section 403.141, F.S. *[62-528.307(1)(a), F.A.C.]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action. *[62-528.307(1)(b), F.A.C.]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit. *[62-528.307(1)(c), F.A.C.]*
4. This permit conveys no title to land, water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-528.307(1)(d), F.A.C.]*
5. This permit does not relieve the permittee from liability for harm to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties there from; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. *[62-528.307(1)(e), F.A.C.]*
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, or are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules. *[62-528.307(1)(f), F.A.C.]*
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

a. Have access to and copy any records that must be kept under conditions of this permit;
b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
d. Reasonable time will depend on the nature of the concern being investigated.

[62-528.307(1)(g), F.A.C.]

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
   a. A description of and cause of noncompliance; and
   b. The period of noncompliance, including dates and times; or, if not corrected the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent the recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

   [62-528.307(1)(h), F.A.C.]

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.*[62-528.307(1)(i), F.A.C.]*

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. *[62-528.307(1)(j), F.A.C.]*

11. This permit is transferable only upon Department approval in accordance with rules 62-4.120 and 62-528.350, F.A.C. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.*[62-528.307(1)(k), F.A.C.]*

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.*[62-528.307(1)(l), F.A.C.]*

13. The permittee shall comply with the following:
    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records shall be extended automatically unless the Department determines that the records are no longer required.
    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
    c. Records of monitoring information shall include:
        1) the date, exact place, and time of sampling or measurements;
        2) the person responsible for performing the sampling or measurements;
        3) the dates analyses were performed;
        4) the person responsible for performing the analyses;
        5) the analytical techniques or methods used;
        6) the results of such analyses.
    d. The permittee shall furnish to the Department, within the time requested in writing, any information which the Department requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
    e. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

    [62-528.307(1)(m), F.A.C.]

14. All applications, reports, or information required by the Department shall be certified as being true, accurate, and complete. *[62-528.307(1)(n), F.A.C.]*

15. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each scheduled date. *[62-528.307(1)(o), F.A.C.]*

16. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *[62-528.307(1)(p), F.A.C.]*

17. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-528.307(1)(q), F.A.C.]*

18. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. *[62-528.307(1)(r), F.A.C.]*

19. This permit may be modified, revoked and reissued, or terminated for cause, as provided in 40 C.F.R. sections 144.39(a), 144.40(a), and 144.41 (1998). The filing of a request by the permittee for a permit modification, revocation or reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. *[62-528.307(1)(s), F.A.C.]*

20. The permittee shall retain all records of all monitoring information concerning the nature and composition of injected fluid until five years after completion of any plugging and abandonment procedures specified under rule 62-528.435, F.A.C. The permittee shall deliver the records to the Department office that issued the permit at the conclusion of the retention period unless the permittee elects to continue retention of the records. *[62-528.307(1)(t), F.A.C.]*

21. All reports and other submittals required to comply with this permit shall be signed by a person authorized under rules 62-528.340(1) or (2), F.A.C. All reports shall contain the certification required in rule 62-528.340(4), F.A.C. *[62-528.307(1)(u), F.A.C.]*

22. The permittee shall notify the Department as soon as possible of any planned physical alterations or additions to the permitted facility. In addition, prior approval is required for activities described in rule 62-528.410(1)(h). *[62-528.307(1)(v), F.A.C.]*

23. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or injection activity which may result in noncompliance with permit requirements. *[62-528.307(1)(w), F.A.C.]*

24. The permittee shall report any noncompliance which may endanger health or the environment including:
    a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or
    b. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

    Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
    [62-528.307(1)(x), F.A.C.]

Issued this 16th day of July 2020
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Joseph Haberfeld, P.G.
Aquifer Protection Program
Division of Water Resource Management

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:
WELL NO:	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (^{O}C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Alexis A. Lambert
Secretary

February 4, 2025

Timothy Fitzsimmons, President
Useppa Island Utility Co.
PO Box 640
Bokeelia, FL 33922-0640
tfitz@comcast.net

Re: Compliance Assistance Offer
Useppa Island RO Concentrate Disposal Facility
Facility ID No. FLA146102
Lee County – IW

Dear Mr. Fitzsimmons:

A Compliance Evaluation Inspection was conducted at your facility on **January 6, 2025**. During this inspection, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving these matters.

Specifically, potential non-compliance with the requirements of Chapter 403, Florida Statutes, and Chapters 62-600, and 62-620, Florida Administrative Code, was observed. Please see the attached inspection report for a full account of Department observations and recommendations.

We request you review the items of concern noted and **respond in writing within 30 days of receipt** of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issues will be addressed,
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid, or
3. Arrange for the case manager to visit your facility to discuss the items of concern.

It is the Department's desire that you are able to adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of

Attachment 4-3
Communication Date 02/04/25

formal enforcement proceedings. Any document submittals can be made to our email mailbox at SD-WWinspect@FloridaDEP.gov or may be mailed to the above address.

If you have any questions regarding this matter, please contact **Alex McSurley** of the South District Office at **239-344-5679** or via e-mail at **Alexandria.McSurley@FloridaDEP.gov**. We look forward to your cooperation with this matter.

Sincerely,

David Fiess, MPA
Assistant Director of District Management
South District Office
Florida Department of Environmental Protection

Enclosures: Inspection Report

ec: William Edwards (wjedwards@uswatercorp.net)
US Water (wastewater@uswatercorp.net)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

WASTEWATER COMPLIANCE INSPECTION REPORT

Facility Details

Facility Name	Useppa Island RO Concentrate Disposal Facility			**WAFR ID**	FLA146102		
Physical Address	Useppa Island			**City, State, Zip**	Bokeelia, FL 33922		
County	Lee			**Facility Phone #**	239-283-1061		
Permit Issued:	**10/27/2020**			**Permit Expiration:**	**10/26/2025**		
Facility Type	**Industrial Wastewater**			**Is the Facility NPDES (Y/N)**	No		
Latitude	**Degrees °**	**26**	**Minutes ‘**	**39**	**Seconds “**	**46.72**	
Longitude	**Degrees °**	**-82**	**Minutes ‘**	**12**	**Seconds “**	**40.91**	

Inspection Details

Inspection Type	**Entry Date**	**Exit Date**	
CEI	1/6/2025	1/6/2025	
	Entry Time (HH:MM AM/PM)	**Exit Time (HH:MM AM/PM)**	
	7:30 AM	11:00 AM	
Samples Taken (Y/N) No	**RQ #** N/A	**QA Conducted (Y/N)** No	
Name(s) and Title of Field Representatives(s)	**Operator Certification**	**Email**	**Phone Number**
William Edwards	Class C WW - 0023930	wjedwards@uswatercorp.net	863-558-2327
Name(s) and address of Permittee / Designated Rep.	**Title**	**Email**	**Phone Number**
Timothy Fitzsimmons PO Box 640 Bokeelia, FL 33922-0640	President	Tfitz5@comcast.net	239-283-1061

Inspector Information

Name(s) and Signature(s) of Inspectors(s)	**District Office/Phone Number**	Date
Alex McSurley	SD / 239-344-5679	1/17/2025
Name and Signature of Reviewer	**District Office/Phone Number**	Date
Landon Reigelman	SD / 239-344-5633	2/4/2025

Facility Compliance Eval Areas

IC = In Compliance; MC = Minor Out of Compliance; NC = Out of Compliance; SC = Significant Out of Compliance; NA = Not Applicable; NE = Not Evaluated

Significant Non-Compliance Criteria Should be Reviewed when Out of Compliance Ratings Are Given in Areas Marked by a “”*

Overall Compliance Determination	Out of Compliance						
IC	*Permit	IC	Laboratory	MC	Facility Site Review	IC	*Effluent Quality
NA	*Compliance Schedules	NE	Sampling	IC	Flow Measurement	IC	*Effluent Disposal
NC	*Records & Reports	NA	Biosolids	IC	*Operation & Maintenance	NA	*Groundwater
NA	SSO Survey	NE	Other	NA	Nutrient Management Plan	NA	Access Control
NA	Site Restrictions & Setbacks	NA	Odor/Nuisance	NA	Site Monitoring	NA	MLPW Disposal
NA	Manure Solids						

Clear Report | **Hide/Unhide Placeholders** | **Generate Blank Rows (for field paper setup)** | **Generate Deficiency & Observation** | **Finish Report**

Single Event Violations ("*" SNC SEVs)

Check for Yes	Evaluation Area	Description	Finding Description	Finding ID
☐	Permit	Effluent Violations - Unapproved Bypass	Wastewater was diverted from a portion of the treatment process without department approval.	UNBY
☐	*Permit	Permit Violations - Discharge Without a Valid Permit	The facility was operating without a permit or with an expired permit.	UPHI
☐	Permit	Permit Violations - Failure to Submit Timely Permit Renewal Application	The permittee failed to submit an application to renew the existing permit at least 180 days prior to expiration.	PFSA
☐	Laboratory	Management Practice Violations - Laboratory Not Certified	The laboratory was not certified by the National Environmental Laboratory Accreditation Conference (NELAC).	LNCE
☐	Sampling	Monitoring Violations - Analysis not Conducted	The facility failed to collect and/or analyze samples as required by permit or enforcement action.	ANCV
☐	Sampling	Monitoring Violations - Failure to Monitor for Toxicity Requirements	The facility failed to collect and/or analyze routine or follow-up toxicity samples.	FTOX
☐	Records and Reports	Management Practice Violations - Failure to Develop Adequate SPCC Plan	The facility failed to develop or maintain their Spill Prevention Control and Countermeasures (SPCC) plan.	FSPC
☐	Records and Reports	Management Practice Violations - Failure to Maintain Records	The facility failed to maintain records for the required retention period.	FMRR
☐	Records and Reports	Reporting Violations - Failure to Notify	The permittee failed to notify the department of any event or activity that requires notification as required by permit or rule.	RSWP
☒	Records and Reports	Reporting Violations - Failure to Submit DMRs	The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner.	FDMR
☐	Records and Reports	Reporting Violations - Failure to submit required report (non-DMR, non-pretreatment)	The facility failed to submit any report required by rule, permit, enforcement action or inspection activity except for DMRs.	FRPT
☐	Facility Site Review	Management Practice Violations - Improper Land Application (non-503, non-CAFO)	The land application system was not being maintained.	LASN
☐	Flow Measurement	Monitoring Violations - No Flow Measurement Device	The facility failed to install a flow measurement device, an approved flow measurement device, or a working flow measurement device.	NOFL
☐	Operation and Maintenance	Management Practice Violations - Improper Operation and Maintenance	The facility failed to follow their operation and maintenance plan/manual.	IONM
☐	Operation and Maintenance	Management Practice Violations - Inflow/Infiltration (I/I)	The facility had an inflow and infiltration problem causing collection system issues and/or operational issues.	ININ
☐	Operation and Maintenance	Management Practice Violations - No Licensed/Certified Operator	The facility was being operated without a certified operator or by an operator that is not licensed for the size of plant.	ONCO
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute toxicity has been documented through follow-up tests.	EATX
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent chronic toxicity has been documented through follow-up tests.	ECTX
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute or chronic toxicity has been documented in the effluent through the use of routine and follow-up tests.	ETOX
☐	Effluent Quality	Effluent Violations - Narrative Effluent Violation	The facility violated a permit or enforcement narrative effluent limit.	XNEV
☐	Effluent Quality	Effluent Violations - Reported Fish Kill	The facility had a discharge of wastewater that resulted in a fish kill.	XFSH
☐	Sanitary Sewer Overflow Survey	WW SSO - Discharge to Waters	A sewage spill from any components of a collection/transmission system or from a treatment plant reached surface waters including stormwater conveyance system or drainage ditch.	SSO1
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to Maintain Records or Meet Record Keeping Requirements	The facility failed to keep routine documentation and reporting records of spills, and/or operation and maintenance activities on the collection/transmission system.	SSO2
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to monitor	The facility failed to collect and/or analyze bacteriological samples for sewage spills that reached surface waters.	SSO3
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to report violation that may endanger public health 122.41(l)(7)	The facility failed to report a sewage spill within 24 hours of discovery.	SSO4
☐	Sanitary Sewer Overflow Survey	WW SSO - Improper Operation and Maintenance	The facility failed to perform routine preventative maintenance to keep the collection/transmission system in good working order.	SSO5
☐	Sanitary Sewer Overflow Survey	WW SSO - Overflow to Dry Land	A sewage spill from any part of a collection/transmission system or treatment plant that did not make it to surface waters, i.e., stormwater collection system, drainage ditch, stream, pond, or lake.	SSO6

Permit

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
*Is the permit current?	**Yes**				
Is a copy of the permit available onsite?	**Yes**				
Is the facility operated in accordance with the permit?	**Yes**				
*Was the facility constructed or modified with an appropriate or valid permit issued by the Department?	**N/A**				
Has the facility submitted the permit renewal application within the required timeframe prior to the expiration date?	**N/A**				
If the permittee for the facility has changed did the department receive notification of this change?	**N/A**				
If the permit is accompanied by a Consent Order or Administrative Order, are they abiding by the conditions of the order?	**N/A**				
Is wastewater from a portion of the treatment process diverted with Department approval?	**N/A**				
*Is the facility discharging to waters of the state with an appropriate FDEP permit?	**Yes**				
*Was the facility free from unpermitted discharge, bypass, collection system, or residuals with a high potential for water quality or health impacts?	**Yes**				
Is the facility free from any Permit violation not listed above that needs to be addressed?	**Yes**				
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*****" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility					
Observations:					
Department records indicate that the current operating permit will expire on October 26, 2025. F.A.C. Rule 62-620.335 (1) states that a permittee shall submit an application to renew the existing permit at least 180 days before the expiration date of the existing permit. Timely and sufficient submittal of the renewal application and permit processing is important (and in your best interest) as it automatically extends the expiration date on the existing permit until the Department takes final action on the renewal application. A tardy application could result in non-compliance. Your renewal application and permit processing fee must be submitted no later than April 29, 2025.					

Compliance Schedule

Compliance Rating	Not Applicable				
Does this section apply to the facility?	○	**Yes**	◉	**No**	
Questions					
If the facility has a compliance schedule in a permit, Administrative Order or Enforcement Action are they in compliance with the schedule?	**N/A**				
*Are the Compliance Date(s), Construction Milestone(s), Enforcement Order Schedule(s) or Final Compliance Date started/completed within 90 days of the due date?	**N/A**				
Has the facility completed construction and submitted a Notification of Completion of Construction for Wastewater Facilities or Activities (Form 62-620.910 (12)), if required?	**N/A**				
Has the Notification of Availability of Record Drawings and Final Operation and Maintenance Manuals (Form 62-620.910 (13)) been submitted as required?	**N/A**				
If the facility is under a Toxicity Corrective Action Plan, are they in compliance with the plan?	**N/A**				

Is the facility free from any Compliance Schedule violation not listed above that needs to be addressed?	**N/A**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility	
Observations:	
The Facility does not currently have a compliance schedule in their permit.	

Laboratory

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Is there a current copy of the laboratory certification onsite?	**Yes**				
If the facility has an onsite laboratory does it have a Florida Department of Health Environmental Laboratory Certification Program certification?	**N/A**				
Facility DOH Certification #	N/A **N/A**				
Contract Lab Name and DOH Certification #	Eurofins Orlando – E83018 **Yes**				
Does the onsite laboratory use sample analysis methods prescribed in 40 CFR part 136 or a test method that has gone through the EPA alternative method approval process?	**N/A**				
Does the facility have standard operating procedures that follow the methods set in 62-620.10 (18) F.A.C. including 40 CFR Part 136; including required instrumentation, glassware cleaning, reagent/standard use, and troubleshooting procedures?	**N/A**				
Does the facility have a QA/QC program with a written QA/QC manual as required by 40 CFR 122.41 that is up to date and available for review?	**N/A**				
Does the facility follow the procedures set in the QA/QC manual; including instrument calibration/maintenance, checks on standard solutions, sample analysis precision/accuracy limits on a prescribed bases and QC samples (duplicate, spiked, blank in at least 10%)?	**N/A**				
Is the detailed record complete and available for review for each set of analyses performed including the order of calibration, QA/QC, bracketing, and samples analyzed?	**N/A**				
Does the facility have QA/QC records on the reagent preparation, instrument calibration/maintenance, incubator temperature and purchase of laboratory supplies?	**N/A**				
Does the facility's laboratory documentation of the sample results use qualifier codes when sample QA/QC fall outside acceptable precision and accuracy limits set in the QA/QC manual?	**N/A**				
Does the facility's laboratory take and record corrective actions or trouble shooting steps when data falls out of the precision and accuracy limits?	**N/A**				
Are records of standard(s) and reagent(s) preparation maintained at the laboratory?	**N/A**				
Is the laboratory maintaining adequate records for reagent preparation(s)?	**N/A**				
Does the laboratory have a system for uniformly recording, correcting, processing and reporting data; including formulas, significant figures, rounding rules, units, cross-checking calculations?	**N/A**				
Is the facility's laboratory adequate for analyzing samples; including pure water, clean bench space for instrument use/storage free of contamination, necessary equipment, vibration free area, ventilation, humidity and temperature control?	**N/A**				

Does the Laboratory meet NELAC and EPA standards including; dry and clean sample storage locations, sample custodian(s) to ensure upon receipt of samples, proper sample storage, preservation and custody documentation?	**N/A**
Does the facility use appropriate standards that are prepared in volumetric glassware, checked against reliable primary standards, labeled properly, stored in clean containers, and discarded when expired or degraded?	**N/A**
Does the facility's laboratory analysist(s) demonstrate competency and appropriate training; including ability to follow procedures, ability to meet precision and accuracy limits, knowledge of equipment and analytical methods.	**N/A**
If the facility test requires temperature measurement is there a thermometer present that is routinely calibrated against NIST thermometer within calibration date range?	**N/A**
Is the sample refrigerator temperature correct to meet the preservation requirements for the samples stored within?	**N/A**
Is the facility free from any Laboratory violation not listed above that needs to be addressed?	**Yes**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility	
Observations:	
The facility is not discharging to their land application site (G-001) and are therefore not required to sample under the current industrial wastewater permit. The Facility's contract laboratory certification will expire on June 30, 2025.	

Sampling

Compliance Rating	Not Evaluated				
Does this section apply to the facility?	○	**Yes**	◉	**No**	
Questions					
In facility logbooks or other documentation are the daily records appropriately recorded including; composite sampler or other temperatures, and daily calibration of meters.					**N/A**
Does the facility maintain records of their daily calibration of their pH meter, Chlorine meter, Dissolved Oxygen meter?					**N/A**
Does the facility maintain records of their daily checks of their in-line meter(s) with their field meter(s)?					**N/A**
Do field sheets document that the collection and analysis of field tests were analyzed within the 15-minute holding time.					**N/A**
Are meters calibrated and sample analysis conducted at the facility done in accordance with DEP SOP(s) and NELAC guidelines? (Calibration frequency and sample bracketing for pH, Total Residual Chlorine (TRC), Turbidity, DO)					**N/A**
Are all the primary and secondary standards used to calibrate and verify meters, used prior to expiration dates and verified against primary standards appropriate for pH, TRC, Turbidity, DO?					**N/A**
Are the inline meters reading within established limits compared to the bench meters? (TRC ≤ 20%, Turbidity ≤ 20%, pH 0.2 SU)					**N/A**
Were safe access points for obtaining representative influent/effluent samples available?					**N/A**
Are influent sampling points located prior to internal facility return lines including supernatant, filter backwash and return activated sludge (RAS)?					**N/A**

Are samples being collected and analyzed as required by the permit or enforcement action; including location, type (grab/composite), time, and frequency?	**N/A**
Are samples being collected in the proper containers, preserved and analyzed in appropriate hold times in accordance with 40 CFR Part 136, Table II?	**N/A**
If the facility has a composite sampler with cooling system at the influent/effluent sampling location is there a thermometer present in the sampler that is annually checked against NIST thermometers?	**N/A**
Is composite sampling being conducted appropriately; including purging, sampling velocity at least 2fps, clean tubing, individual sample volume of at least 100 mL, sample storage of <6°C preservation, hold times and representative samples?	**N/A**
Did the facility have their Chain of Custody records?	**N/A**
If sampling was conducted and observed during the inspection did the sampling follow DEP SOP requirements?	**N/A**
Did the facility collect and/or analyze routine or follow-up toxicity samples as required by permit or enforcement action?	**N/A**
Is the facility free from any Sampling violation not listed above that needs to be addressed?	**N/A**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility	
Observations:	
The facility is not discharging to their land application site (G-001) and are therefore not required to sample under the current industrial wastewater permit.	

Records and Reports

Compliance Rating	Out of Compliance
Does this section apply to the facility?	(•) **Yes** ( ) **No**
Questions	
Are the entries in the operator logbook clear, concise, informative and relevant?	**Yes**
Was copy of the current O&M manual available at the time of the inspection?	**Yes**
Is there a current operator license?	**Yes**
Is there a current RPZ certification?	**Yes**
Does the facility have and maintain their Spill Prevention Control and Counter measurement (SPCC) Plan?	**N/A**
Are all required documents and reports available at the plant well organized and complete?	**Yes**
Does the facility maintain the records onsite for the required retention period?	**Yes**
Discharge Monitoring Reports (DMRs) Review Period	1/1/2024 – 12/31/2024 **Yes**
Are the discharge monitoring reports completed properly?	**Yes**
Are the DMRs submitted on the proper form?	**No**
Is an authorized representative signing the DMRs?	**Yes**
Has the permittee submitted an annual Reclaimed Water and/or Effluent Analysis Report?	**N/A**
A review of the last toxicity test did not reveal any deficiencies?	**N/A**
Has the facility submitted all report(s) during the review period that are required by rule, permit, enforcement action or inspection activity, other than DMRs?	**Yes**
*Has the facility timely submitted DMRs as required by rule, permit, or enforcement action? (If either reports are >30 days late meets SNC criteria)	**No**

Has the facility submitted all final compliance schedule reports as required by rules, permit, or enforcement action?	**N/A**
Has the permittee notified the Department of any event or activity that requires notification as required by permit or rule?	**Yes**
*Are records or reports free from falsified data?	**Yes**
Is the facility free from any Records and Reports violation not listed above that needs to be addressed?	**Yes**

Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"
Questions with "No" responses indicate deficiencies
Questions with "N/A" responses do not apply to the facility

Deficiencies & Corrective Actions:

Are the DMRs submitted on the proper form? [403.161(1)(b) F.S., 62-620.610 (18)(a) F.A.C., 62-600.680 (1) F.A.C.]	Deficiency: (Narrative) A review of the DMRs revealed that the Part B DMR the Facility has been using is missing all of the parameters except for Flow. While the Facility has not been discharging to the land application site, it is still required to submit the DMRs on the proper template which is included in the permit. The NOD code should be reported for each parameter as long as the Facility continues to not use the land application site.
	Corrective Action(s): (Narrative) Please provide a response to the Department indicating how the facility will ensure the proper Part B DMR is used going forward.
The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner. [403.161(1)(b) F.S., 62-600.680 F.A.C., 62-620.610 (18)(a) F.A.C., FDMR]	Deficiency: (Narrative) A review of the DMRs revealed that the Facility has not submitted the Part B DMR for September 2024.
	Corrective Action(s): (Narrative) Please submit the September 2024 Part B DMR for Department review.

Observations:

The facility's operator information is located below:

Operator Name	License Class and Number	Expiration Date
William Edwards	Class C WW - 0023930	4/30/2025

Facility Site Review

Compliance Rating	Minor Out of Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	

Questions	
The facility was free from odors emanating from the facility.	**Yes**
The facility was free from excessive noise which could be heard beyond the boundaries of the facility.	**Yes**
Is the mechanical bar screen functioning as intended?	**N/A**
Are grit and/or screenings being disposed of in accordance with the permit?	**N/A**
Are records of the disposal of the screenings and grit collected at the facility available?	**N/A**
Are the aeration basins diffusers free from clogs and providing adequate mixing?	**N/A**
Is even distribution of air observed in the aeration basin?	**N/A**

Are the air line(s) to the aeration basin(s) free from leaks?	**N/A**
Are dual blower motors present as required by rule?	**N/A**
Are the blower motors equipped with belt guards?	**N/A**
The blower motors are free from excessive noise.	**N/A**
Are all the blower motors present and operational at the time of the inspection?	**N/A**
Are spare parts and a second standby blower motors stored onsite?	**N/A**
Is the electrical box wiring for the blower motors adequately protected?	**N/A**
Are there two functioning pumps that alternate?	**N/A**
The RAS line was free from excessive splashing that could cause solids to be discharged outside the tank.	**N/A**
Are the treatment lagoon berms properly stabilized?	**N/A**
Is the base of the lagoon free from lateral seepage at the time of the inspection?	**N/A**
Is the treatment lagoon properly secured to prevent unauthorized access?	**N/A**
Are all the aerators in the lagoon operational?	**N/A**
Does the treatment lagoon have adequate freeboard space?	**N/A**
Is the treatment lagoon free from excessive foaming?	**N/A**
Were the tank contents in the aerobic digester(s) well mixed?	**N/A**
Is the stilling well free from a thick layer of sludge and/or trash?	**N/A**
Are the clarifier weir(s) level?	**N/A**
Does the skimmer appear to be functional in the clarifier?	**N/A**
Are the clarifiers free from solids discharging over the weir(s)?	**N/A**
Are the digester(s) free from excessive odors and/or foaming?	**N/A**
Does the facility dispose of their sludge appropriately?	**N/A**
The leachate from the sludges is not being disposed of onto the ground?	**N/A**
Is the Chlorine Contact Chamber (CCC) effluent clear and free from scum, solids accumulation and debris?	**N/A**
Are the baffles in the CCC functioning as intended?	**N/A**
Is the chlorine contact chamber providing a minimum contact time as designed?	**N/A**
Does the chlorine injection point provide optimal mixing to occur in the CCC?	**N/A**
Is the CCC chlorine pump operational, providing adequate chlorine supply for disinfection and at the permitted location?	**N/A**
Is the chlorine storage area protected from the elements?	**N/A**
Is the alarm indicator for the chlorine system operational?	**N/A**
Is the chlorine supply covered in frost indicating an issue with the system?	**N/A**
Is the fan inside the chlorine room operational?	**N/A**
Are the chlorine scales operational?	**N/A**
Is an operational Self-Contained Breathing Apparatus (SCBA) available for the chlorine room?	**N/A**
Are the chlorine gas cylinders properly secured?	**N/A**
Is a fresh supply of ammonia available to test for leaks in the gas chlorination system?	**N/A**
Is the automatic SO2 feed operational within de-chlorination process?	**N/A**
Is the SO2 system free from frost within de-chlorination process?	**N/A**
Are the bisulfite (SO2) gas cylinders properly secured for de-chlorination?	**N/A**
Was there adequate ventilation in the SO2 room?	**N/A**
Chlorine and SO2 cylinders marked with empty/full tags?	**N/A**
Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks?	**Yes**
The facility is free from evidence of recent overflows.	**Yes**
Is the area around the lift station(s) maintained?	**N/A**
Is there emergency contact information on and/or around the lift station(s)?	**N/A**
Is the required signage adequate?	**N/A**
Does the facility have a fence around their lift station(s)?	**N/A**

Is the gate around the lift station and the cover to the lift station locked?	**N/A**
Is the cover to the lift station(s) free from safety hazards?	**N/A**
Was the collection system or lift station free from offsite objectionable odors?	**N/A**
The lift station visual and audio alarm operating satisfactory?	**N/A**
Was an alternative power source available at the facility?	**Yes**
Is the onsite generator tested under load on a monthly basis?	**Yes**
Are records available for the testing of the generator?	**No**
Is the land application system being maintained?	**Yes**
Are the potable water supply lines and the facility free from cross connections?	**Yes**
Is an RPZ in place and free of leaks on all potable water supply lines?	**Yes**
Is there a record of testing available on the RPZ?	**Yes**
The treatment equipment was free from excessive corrosion.	**Yes**
Is the facility providing measures to protect the public health and safety at all times?	**Yes**
Is there adequate access to all monitoring locations?	**Yes**
Are the facility's clean and well maintained?	**Yes**
Is the facility free from any Facility Site Review violation not listed above that needs to be addressed?	**Yes**

Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"
Questions with "No" responses indicate deficiencies
Questions with "N/A" responses do not apply to the facility

Deficiencies & Corrective Actions:

Are records available for the testing of the generator? [62-600.300 (4) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the Facility did not have a log to record the weekly generator tests.
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the facility has implemented a generator run log.

Observations:

The Facility's RPZ certification will expire on 2/9/2025.

Flow Measurement

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Is there easy access to flow meter?	**Yes**				
Is the flow meter in the correct location?	**Yes**				
Is the flow measuring device installed properly?	**Yes**				
Is the flow meter calibrated at least annually and is it current?	**Yes**				
When was the flow meter last calibrated?	5/24/2024 **Yes**				
Is the flow measurement device operating within +/- 10% of the actual flow?	**Yes**				
Is the flow meter operating properly at the time of the inspection?	**Yes**				
The chart recorder and/or totalizer for the flow meter was operational at the time of the inspection.	**N/A**				
The elapsed time meters on the lift station pumps were functioning.	**N/A**				

The flow entering the convergence section of the Parshall Flume was free of excessive turbulence.	**N/A**
Is the facility free from any Flow Measurement violation not listed above that needs to be addressed?	**Yes**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility	
Observations:	
No additional observations or deficiencies were noted.	

Operations and Maintenance

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Does the facility have adequate plant staffing?	**Yes**				
Is a certified operator operating the wastewater treatment facility with the appropriate license level for the size of the plant?	**Yes**				
Is the operator performing treatment plant operation and maintenance duties in a responsible and professional manner?	**Yes**				
Is the plant O&M log maintained in a hard-bound book with consecutive page numbering, or another approved format?	**Yes**				
Does the facility have an O&M manual, and does the facility's O&M manual reflect the current configuration of the facility?	**Yes**				
*Is the facility operated in accordance with the O& M Manual? (If there is a high potential for water quality or health impacts meets SNC criteria)	**Yes**				
Is the facility maintaining a log that documents routine equipment maintenance?	**Yes**				
Is the plant free of any treatment components that are in disrepair that would provide for unsafe operation?	**Yes**				
Is the facility without an inflow and infiltration problem which would cause collection system and/or operational issues?	**N/A**				
*Does the facility replace malfunctioning equipment, which can result in a high potential for water supply quality or health impacts?	**Yes**				
Dike berms appeared to be in satisfactory condition.	**N/A**				
Handrails/catwalks/ladders were in good working order providing for safe conditions.	**N/A**				
The liner(s) in the containment pond(s) appeared to be functioning as intended.	**N/A**				
The plant operator is fulfilling the minimum site requirements as required by the Permit.	**Yes**				
Preventative maintenance is being performed in the accordance with the manufacturer's recommendations.	**Yes**				
The facility maintains an adequate spare parts inventory.	**Yes**				
Swales were being maintained.	**N/A**				
Is the facility free from any Operations and Maintenance violation not listed above that needs to be addressed?	**Yes**				
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility					
Observations:					

No additional observations or deficiencies were noted.

Effluent Quality

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
DMR review period:	1/1/2024 – 12/31/2024 **Yes**				
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	N/A **N/A**				
A review of the inspection sampling results revealed the following effluent exceedance(s).	N/A **N/A**				
*Did the effluent limits exceed the Technical Review Criteria less than two times in six months?	**N/A**				
*Are the effluent limits without exceedances four out of six months (chronic criteria)?	**N/A**				
*Did the total residual chlorine levels meet disinfection limits? (If below required minimum 10% or more of the time in a rolling 6-month period, meets SNC criteria)	**N/A**				
Was the facility free of a discharge of wastewater that resulted in a fish kill?	**Yes**				
*Is persistent acute toxicity documented through follow-up tests?	**N/A**				
*Is persistent chronic toxicity documented through follow-up tests?	**N/A**				
*Is the facility free from persistent acute or chronic toxicity documented in the effluent through the use of routine and follow-up tests?	**N/A**				
Does the facility meet the permit or enforcement narrative effluent limitation(s)? (Non-DMR visible sheen defined as iridescence present so as to cause taste or odor, or otherwise interfere with the beneficial use of the receiving water)	**N/A**				
Is the effluent free from excessive (suspended solids, foam, grease, scum) in the discharge stream?	**N/A**				
*Was the facility free from any other violation with a high potential for water quality or health impacts?	**Yes**				
Is the facility free from any Effluent Quality violation not listed above that needs to be addressed?	**Yes**				
Department Sampling Results Comments: Sampling was not conducted by Department personnel.					
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “*” Questions with “No” responses indicate deficiencies Questions with “N/A” responses do not apply to the facility					
Observations:					
No additional observations or deficiencies were noted.					

Effluent Disposal

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Are discharge location(s) as per permit?	**Yes**				
What type of reuse is the facility approved for?	N/A				

	N/A
Has a cross-connection control program been implemented within the areas where reclaimed water is provided for use (Part III, VII)?	**N/A**
Is all reclaimed water piping and equipment color-coded Pantone purple (522C)?	**N/A**
Reclaimed water valves and outlets were appropriately tagged and /or labeled.	**N/A**
Are advisory signs posted in English and Spanish in areas where non-potable Public Access Reuse water is being applied (Part III, VII)?	**N/A**
Is the reclaimed water retained on the application site?	**N/A**
No significant ponding was observed on the reclaimed water application site.	**N/A**
There was no aerosol mist leaving the boundaries of the land application site?	**N/A**
There was no evidence of solids loss in the treatment process or from the plant?	**N/A**
The RIBs and/or percolation ponds were free from excessive vegetation and sludge?	**N/A**
Does the percolation ponds have at least 3 ft of freeboard?	**N/A**
The absorption field was free from excessive vegetation.	**Yes**
Is the drain field free of ponding?	**Yes**
Do the reclaimed water storage ponds have adequate freeboard?	**N/A**
Are RIBs and/or disposal pond berms well maintained and free from excessive vegetation?	**N/A**
There was no evidence of a bypass or failure at the effluent storage and/or disposal site(s)?	**Yes**
Are all effluent disposal areas such as RIBs, ponds, and sprayfields being loaded and rested per permit conditions?	**N/A**
Are the sprinklers functioning as intended for the absorption field(s) or sprayfield(s)?	**N/A**
No unauthorized discharge to waters of the state was observed during the inspection.	**Yes**
Does the facility maintain a supply of spare parts for the absorption field(s) or sprayfield(s)?	**N/A**
The facility is meeting the minimum setback distances.	**Yes**
The effluent disposal and/or storage area was free from sinkholes.	**Yes**
The sprayfield was free from ponding.	**N/A**
The sprayfield was free from excessive vegetation.	**N/A**
What cover crop and/or vegetation is planted on the reclaimed water area(s)?	N/A **N/A**
*The disposal system was being operated as designed with a low potential for water quality or health impacts.	**Yes**
*There was no unauthorized operation or modification of the disposal system.	**Yes**
Access control around the effluent disposal site was complete and in good repair.	**N/A**
Is the facility free from any Effluent Disposal violation not listed above that needs to be addressed?	**Yes**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility	
Observations:	
The facility is not discharging to their land application site (G-001).	

Groundwater

Compliance Rating	Not Applicable				
Does this section apply to the facility?	○	**Yes**	◉	**No**	
Questions					
DMRs review period	N/A				

	N/A
Are the groundwater monitoring results sent to the Department on Discharge Monitoring Report, Form 62-620.910 (10), F.A.C. or entered into EzDMR and submitted by the DMR due date?	**N/A**
After a review of the Discharge Monitoring Reports, are the compliance well parameters meeting the groundwater standards in the time period reviewed (12 months or greater)?	**N/A**
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	N/A **N/A**
Does the facility's purging logs on DEP Form FD 9000-24 indicate that purging was done properly; including sufficient volume, purge rate, depth to water, and stability criteria (pH, Temperature, Conductivity, Dissolved Oxygen, Turbidity).	**N/A**
Is the groundwater monitoring report complete and accurate, including analysis method, laboratory method detection limits, static water level, purging logs, sample collection procedures and treatment?	**N/A**
Do the groundwater monitoring wells meet DEP requirements including; tamper-proof locks, unique well label(s), concrete well pad with protective bumpers not containing numerous cracks and is free of clutter for sampling purposes.	**N/A**
If or when new well construction was completed did the facility plug and properly abandoned the existing well and submit Monitoring Well Completion Report, Form 62-520.900 (3) to DEP within 60 days?	**N/A**
If a monitoring well became damaged or inoperable, was maintenance conducted and notification sent to DEP within 2 days of discovery?	**N/A**
Is the well(s) that the facility is sampling at, part of the approved groundwater monitoring plan?	**N/A**
Are the monitoring wells operable to the extent that sampling is possible?	**N/A**
Are groundwater samples being collected and analyzed as required by the permit or enforcement action; including location, well type, sample type (grab/composite), time, and frequency?	**N/A**
If sampling was observed were the sample collection activities being performed in accordance with DEP SOP FS 2200?	**N/A**
If sampling was observed, was equipment in satisfactory condition?	**N/A**
If sampling was not observed is the description of sample collection activities being performed in accordance with DEP SOP FS 2200?	**N/A**
Is the facility free from any Groundwater violation not listed above that needs to be addressed?	**N/A**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility	
Observations:	
Not applicable. The Facility's permit does not contain groundwater monitoring requirements at this time.	

Other

Compliance Rating	Not Evaluated
Does this section apply to the facility?	◉ **Yes** ○ **No**
Questions	
*Is the facility free from any violation not listed above, or pattern of noncompliance, resulting in a high potential for water quality or health impacts *(Any violations considered significant by the Secretary, Deputy Secretary, Director of District Management, or the Division Director meet SNC criteria)*	**N/A**

Please describe any potential non-wastewater violations (i.e. Hazardous Waste, Stormwater, SLERP, Air and Storage Tanks) that were referred.	**N/A** **N/A**

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Observations:

Not Evaluated.

Deficiencies Summary

Evaluation Area: Records and Reports	
Are the DMRs submitted on the proper form? [403.161(1)(b) F.S., 62-620.610 (18)(a) F.A.C., 62-600.680 (1) F.A.C.]	Deficiency: (Narrative) A review of the DMRs revealed that the Part B DMR the Facility has been using is missing all of the parameters except for Flow. While the Facility has not been discharging to the land application site, it is still required to submit the DMRs on the proper template which is included in the permit. The NOD code should be reported for each parameter as long as the Facility continues to not use the land application site.
	Corrective Action(s): (Narrative) Please provide a response to the Department indicating how the facility will ensure the proper Part B DMR is used going forward.
The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner. [403.161(1)(b) F.S., 62-600.680 F.A.C., 62-620.610 (18)(a) F.A.C., FDMR]	Deficiency: (Narrative) A review of the DMRs revealed that the Facility has not submitted the Part B DMR for September 2024.
	Corrective Action(s): (Narrative) Please submit the September 2024 Part B DMR for Department review.

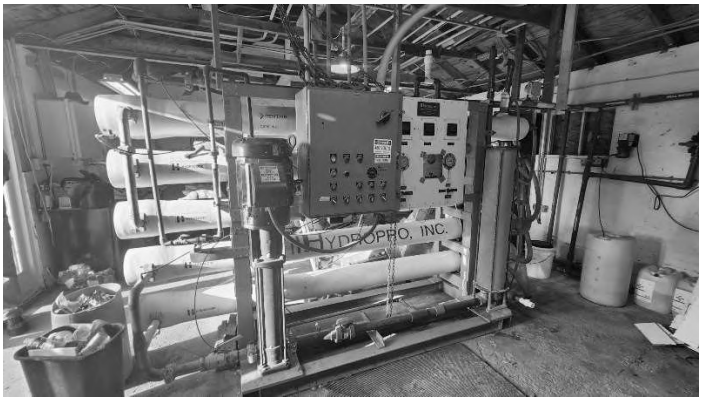
Evaluation Area: Facility Site Review	
Are records available for the testing of the generator? [62-600.300 (4) F.A.C.]	Deficiency: (Narrative) At the time of the inspection, the Facility did not have a log to record the weekly generator tests.
	Corrective Action(s): (Narrative) Please submit documentation to the Department demonstrating that the facility has implemented a generator run log.

Useppa Island RO Concentrate Disposal Facility (FLA146102)
Photos by Alex McSurley on 1/6/2024

I certify that these photos represent the true on-site conditions observed and have not been altered in any way.

Alex McSurley

1. RO Membranes



2. RO Membranes

3. Concentrate Flow Meter

4. Underground Injection Well (U-001)

FLORIDA DEPARTMENT OF
Environmental Protection

South District
Post Office Box 2549
Fort Myers, FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

June 5, 2023

Timothy Fitzsimmons
Useppa Island Utility Co.
PO Box 640
Bokeelia, FL 33922
Email: tfitz5@comcast.net

Re: In Compliance Letter
Useppa Island RO Concentrate Disposal Facility
FLA146102
Lee County - IW

Dear Mr. Fitzsimmons:

Department personnel conducted a Compliance Evaluation Inspection of the above-referenced facility on May 8, 2023. Based on the information provided during and following the inspection, the facility was determined to be in compliance. A copy of the report is attached for your records

The Department appreciates your compliance efforts. Should you have any questions or comments, please contact Nicole Devine at (239) 344-5675, or via e-mail at: Nicole.Devine@FloridaDEP.gov

Sincerely,

Landon Reigelman
Environmental Manager
Compliance Assurance Program
South District Office
Florida Department of Environmental Protection

Enclosure: Inspection Report

Ec: Jonathan Schmidt (via e-mail: jschmidt@uswatercorp.net)
US Water Corporation (via e-mail: wastewater@uswatercorp.net)

Attachment 4-3
Communication Date 06/05/23

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

WASTEWATER COMPLIANCE INSPECTION REPORT

Facility Details

Facility Name	Useppa Island RO Concentrate Disposal Facility			**WAFR ID**	FLA146102		
Physical Address	**Useppa Island**			**City, State, Zip**	Bokeelia, FL 33922		
County	Lee			**Facility Phone #**	**(239) 283-1061**		
Permit Issued:	**10/27/2020**			**Permit Expiration:**	**10/26/2025**		
Facility Type	**Industrial Wastewater**			**Is the Facility NPDES (Y/N)**	No		
Latitude	**Degrees °**	**26**	**Minutes ‘**	**39**	**Seconds “**	**46.72**	
Longitude	**Degrees °**	**-82**	**Minutes ‘**	**12**	**Seconds “**	**40.91**	

Inspection Details

Inspection Type	**Entry Date**	**Exit Date**
CEI	5/8/2023	5/8/2023
	Entry Time (HH:MM AM/PM)	**Exit Time (HH:MM AM/PM)**
	7:30 AM	9:00 AM

Sampling Taken (Y/N)	No	**RQ #**	NA	**QA Conducted (Y/N)**	No

Name(s) and Title of Field Representatives(s)	**Operator Certification**	**Email**	**Phone Number**
Jonathan Schmidt	NA	JSchmidt@uswatercorp.net	(239) 209-7343
Name(s) and address of Permittee / Designated Rep.	**Title**	**Email**	**Phone Number**
Timothy Fitzsimmons PO Box 640 Bokeelia, FL 33922		Tfitz5@comcast.net	(239) 283-1061

Inspector Information

Name(s) and Signature(s) of Inspectors(s)	**District Office/Phone Number**	Date
Nicole Devine *Nicole Devine*	SD / (239) 344-5675	6/2/2023
Name and Signature of Reviewer	**District Office/Phone Number**	Date
Deanna Newburg *Deanna Newburg*	SD / (239) 344-5677	6/5/2023

Facility Compliance Eval Areas

***IC** = In Compliance; **MC** = Minor Out of Compliance; **NC** = Out of Compliance; **SC** = Significant Out of Compliance; **NA** = Not Applicable; **NE** = Not Evaluated*

*Significant Non-Compliance Criteria Should be Reviewed when Out of Compliance Ratings Are Given in Areas Marked by a “**”*

Overall Compliance Determination	Out of Compliance

IC	*Permit	NA	Laboratory	IC	Facility Site Review	IC	*Effluent Quality
NA	*Compliance Schedules	NA	Sampling	IC	Flow Measurement	IC	*Effluent Disposal
NC	*Records & Reports	NA	Biosolids	IC	*Operation & Maintenance	NA	*Groundwater
NA	SSO Survey	NE	Other	NA	Nutrient Management Plan	NA	Access Control
NA	Site Restrictions & Setbacks	NA	Odor/Nuisance	NA	Site Monitoring	NA	MLPW Disposal
NA	Manure Solids						

Clear Report | **Hide/Unhide Placeholders** | **Generate Blank Rows (for field paper setup)** | **Generate Deficiency & Observation** | **Finish Report**

Single Event Violations ("*" SNC SEVs)

Check for Yes	Evaluation Area	Description	Finding Description	Finding ID
☐	Permit	Effluent Violations - Unapproved Bypass	Wastewater was diverted from a portion of the treatment process without department approval.	UNBY
☐	*Permit	Permit Violations - Discharge Without a Valid Permit	The facility was operating without a permit or with an expired permit.	UPHI
☐	Permit	Permit Violations - Failure to Submit Timely Permit Renewal Application	The permittee failed to submit an application to renew the existing permit at least 180 days prior to expiration.	PFSA
☐	Laboratory	Management Practice Violations - Laboratory Not Certified	The laboratory was not certified by the National Environmental Laboratory Accreditation Conference (NELAC).	LNCE
☐	Sampling	Monitoring Violations - Analysis not Conducted	The facility failed to collect and/or analyze samples as required by permit or enforcement action.	ANCV
☐	Sampling	Monitoring Violations - Failure to Monitor for Toxicity Requirements	The facility failed to collect and/or analyze routine or follow-up toxicity samples.	FTOX
☐	Records and Reports	Management Practice Violations - Failure to Develop Adequate SPCC Plan	The facility failed to develop or maintain their Spill Prevention Control and Countermeasures (SPCC) plan.	FSPC
☐	Records and Reports	Management Practice Violations - Failure to Maintain Records	The facility failed to maintain records for the required retention period.	FMRR
☐	Records and Reports	Reporting Violations - Failure to Notify	The permittee failed to notify the department of any event or activity that requires notification as required by permit or rule.	RSWP
☐	Records and Reports	Reporting Violations - Failure to Submit DMRs	The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner.	FDMR
☐	Records and Reports	Reporting Violations - Failure to submit required report (non-DMR, non-pretreatment)	The facility failed to submit any report required by rule, permit, enforcement action or inspection activity except for DMRs.	FRPT
☐	Facility Site Review	Management Practice Violations - Improper Land Application (non-503, non-CAFO)	The land application system was not being maintained.	LASN
☐	Flow Measurement	Monitoring Violations - No Flow Measurement Device	The facility failed to install a flow measurement device, an approved flow measurement device, or a working flow measurement device.	NOFL
☐	Operation and Maintenance	Management Practice Violations - Improper Operation and Maintenance	The facility failed to follow their operation and maintenance plan/manual.	IONM
☐	Operation and Maintenance	Management Practice Violations - Inflow/Infiltration (I/I)	The facility had an inflow and infiltration problem causing collection system issues and/or operational issues.	ININ
☐	Operation and Maintenance	Management Practice Violations - No Licensed/Certified Operator	The facility was being operated without a certified operator or by an operator that is not licensed for the size of plant.	ONCO
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute toxicity has been documented through follow-up tests.	EATX
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent chronic toxicity has been documented through follow-up tests.	ECTX
☐	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute or chronic toxicity has been documented in the effluent through the use of routine and follow-up tests.	ETOX
☐	Effluent Quality	Effluent Violations - Narrative Effluent Violation	The facility violated a permit or enforcement narrative effluent limit.	XNEV
☐	Effluent Quality	Effluent Violations - Reported Fish Kill	The facility had a discharge of wastewater that resulted in a fish kill.	XFSH
☐	Sanitary Sewer Overflow Survey	WW SSO - Discharge to Waters	A sewage spill from any components of a collection/transmission system or from a treatment plant reached surface waters including stormwater conveyance system or drainage ditch.	SSO1
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to Maintain Records or Meet Record Keeping Requirements	The facility failed to keep routine documentation and reporting records of spills, and/or operation and maintenance activities on the collection/transmission system.	SSO2
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to monitor	The facility failed to collect and/or analyze bacteriological samples for sewage spills that reached surface waters.	SSO3
☐	Sanitary Sewer Overflow Survey	WW SSO - Failure to report violation that may endanger public health 122.41(l)(7)	The facility failed to report a sewage spill within 24 hours of discovery.	SSO4
☐	Sanitary Sewer Overflow Survey	WW SSO - Improper Operation and Maintenance	The facility failed to perform routine preventative maintenance to keep the collection/transmission system in good working order.	SSO5
☐	Sanitary Sewer Overflow Survey	WW SSO - Overflow to Dry Land	A sewage spill from any part of a collection/transmission system or treatment plant that did not make it to surface waters, i.e., stormwater collection system, drainage ditch, stream, pond, or lake.	SSO6

Permit

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
*Is the permit current?					**Yes**
Is a copy of the permit available onsite?					**Yes**
Is the facility operated in accordance with the permit?					**Yes**
*Was the facility constructed or modified with an appropriate or valid permit issued by the Department?					**N/A**
Has the facility submitted the permit renewal application within the required timeframe prior to the expiration date?					**N/A**
If the permittee for the facility has changed did the department receive notification of this change?					**N/A**
If the permit is accompanied by a Consent Order or Administrative Order are, they abiding by the conditions of the order?					**N/A**
Is wastewater from a portion of the treatment process diverted with Department approval?					**N/A**
*Is the facility discharging to waters of the state with an appropriate FDEP permit?					**N/A**
*Was the facility free from unpermitted discharge, bypass, collection system, or residuals with a high potential for water quality or health impacts?					**Yes**
Is the facility free from any Permit violation not listed above that needs to be addressed?					**Yes**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility					
Observations:					
Department records indicate that the current operating permit will expire on October 26, 2025. F.A.C. Rule 62-620.335 (1) states that a permittee shall submit an application to renew the existing permit at least 180 days before the expiration date of the existing permit. Timely and sufficient submittal of the renewal application and permit processing is important (and in your best interest) as it automatically extends the expiration date on the existing permit until the Department takes final action on the renewal application. A tardy application could result in non-compliance. Your renewal application and permit processing fee must be submitted no later than April 29, 2025.					

Compliance Schedule

Compliance Rating	Not Applicable				
Does this section apply to the facility?	○	**Yes**	◉	**No**	
Questions					
If the facility has a compliance schedule in a permit, Administrative Order or Enforcement Action are they in compliance with the schedule?					**N/A**
*Are the Compliance Date(s), Construction Milestone(s), Enforcement Order Schedule(s) or Final Compliance Date started/completed within 90 days of the due date?					**N/A**
Has the facility completed construction and submitted a Notification of Completion of Construction for Wastewater Facilities or Activities (Form 62-620.910 (12)), if required?					**N/A**
Has the Notification of Availability of Record Drawings and Final Operation and Maintenance Manuals (Form 62-620.910 (13)) been submitted as required?					**N/A**
If the facility is under a Toxicity Corrective Action Plan, are they in compliance with the plan?					**N/A**
Is the facility free from any Compliance Schedule violation not listed above that needs to be addressed?					**N/A**

Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility
Observations:
The facility does not have an improvement schedule at this time.

Laboratory

Compliance Rating	Not Applicable				
Does this section apply to the facility?	○	**Yes**	◉	**No**	
Questions					
Is there a current copy of the laboratory certification onsite?	**N/A**				
If the facility has an onsite laboratory does it have a Florida Department of Health Environmental Laboratory Certification Program certification?	**N/A**				
Facility DOH Certification #	**N/A**				
Contract Lab Name and DOH Certification #	**N/A**				
Does the onsite laboratory use sample analysis methods prescribed in 40 CFR part 136 or a test method that has gone through the EPA alternative method approval process?	**N/A**				
Does the facility have standard operating procedures that follow the methods set in 62-620.10(18) F.A.C. including 40 CFR Part 136; including required instrumentation, glassware cleaning, reagent/standard use, and troubleshooting procedures?	**N/A**				
Does the facility have a QA/QC program with a written QA/QC manual as required by 40 CFR 122.41 that is up to date and available for review?	**N/A**				
Does the facility follow the procedures set in the QA/QC manual; including instrument calibration/maintenance, checks on standard solutions, sample analysis precision/accuracy limits on a prescribed bases and QC samples (duplicate, spiked, blank in at least 10%)?	**N/A**				
Is the detailed record complete and available for review for each set of analyses performed including the order of calibration, QA/QC, bracketing, and samples analyzed?	**N/A**				
Does the facility have QA/QC records on the reagent preparation, instrument calibration/maintenance, incubator temperature and purchase of laboratory supplies?	**N/A**				
Does the facility's laboratory documentation of the sample results use qualifier codes when sample QA/QC fall outside acceptable precision and accuracy limits set in the QA/QC manual?	**N/A**				
Does the facility's laboratory take and record corrective actions or trouble shooting steps when data falls out of the precision and accuracy limits?	**N/A**				
Are records of standard(s) and reagent(s) preparation maintained at the laboratory?	**N/A**				
Is the laboratory maintaining adequate records for reagent preparation(s)?	**N/A**				
Does the laboratory have a system for uniformly recording, correcting, processing and reporting data; including formulas, significant figures, rounding rules, units, cross-checking calculations?	**N/A**				
Is the facility's laboratory adequate for analyzing samples; including pure water, clean bench space for instrument use/storage free of contamination, necessary equipment, vibration free area, ventilation, humidity and temperature control?	**N/A**				
Does the Laboratory meet NELAC and EPA standards including dry and clean sample storage locations, sample custodian(s) to ensure upon receipt of samples, proper sample storage, preservation and custody documentation?	**N/A**				
Does the facility use appropriate standards that are prepared in volumetric glassware, checked against reliable primary standards, labeled properly, stored in clean containers, and discarded when expired or degraded?	**N/A**				

Does the facility's laboratory analysist(s) demonstrate competency and appropriate training; including ability to follow procedures, ability to meet precision and accuracy limits, knowledge of equipment and analytical methods.	**N/A**
If the facility test requires temperature measurement is there a thermometer present that is routinely calibrated against NIST thermometer within calibration date range?	**N/A**
Is the sample refrigerator temperature correct to meet the preservation requirements for the samples stored within?	**N/A**
Is the facility free from any Laboratory violation not listed above that needs to be addressed?	**N/A**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility	
Observations:	
The facility is not discharging to their land application site (G-001) and are therefore not required to sample under the current industrial wastewater permit.	

Sampling

Compliance Rating	Not Applicable				
Does this section apply to the facility?	○	**Yes**	◉	**No**	
Questions					
In facility logbooks or other documentation are the daily records appropriately recorded including composite sampler or other temperatures, and daily calibration of meters.					**N/A**
Does the facility maintain records of their daily calibration of their pH meter, Chlorine meter, Dissolved Oxygen meter?					**N/A**
Does the facility maintain records of their daily checks of their in-line meter(s) with their field meter(s)?					**N/A**
Do field sheets document that the collection and analysis of field tests were analyzed within the 15-minute holding time.					**N/A**
Are meters calibrated and sample analysis conducted at the facility done in accordance with DEP SOP(s) and NELAC guidelines? (Calibration frequency and sample bracketing for pH, Total Residual Chlorine (TRC), Turbidity, DO)					**N/A**
Are all the primary and secondary standards used to calibrate and verify meters, used prior to expiration dates and verified against primary standards appropriate for pH, TRC, Turbidity, DO?					**N/A**
Are the inline meters reading within established limits compared to the bench meters? (TRC ≤ 20%, Turbidity ≤ 20%, pH 0.2 SU)					**N/A**
Were safe access points for obtaining representative influent/effluent samples available?					**N/A**
Are influent sampling points located prior to internal facility return lines including supernatant, filter backwash and return activated sludge (RAS)?					**N/A**
Are samples being collected and analyzed as required by the permit or enforcement action; including location, type (grab/composite), time, and frequency?					**N/A**
Are samples being collected in the proper containers, preserved and analyzed in appropriate hold times in accordance with 40 CFR Part 136, Table II?					**N/A**
If the facility has a composite sampler with cooling system at the influent/effluent sampling location is there a thermometer present in the sampler that is annually checked against NIST thermometers?					**N/A**
Is composite sampling being conducted appropriately; including purging, sampling velocity at least 2fps, clean tubing, individual sample volume of at least 100 mL, sample storage of <6°C preservation, hold times and representative samples?					**N/A**

Did the facility have their Chain of Custody records?	**N/A**
If sampling was conducted and observed during the inspection did the sampling follow DEP SOP requirements?	**N/A**
Did the facility collect and/or analyze routine or follow-up toxicity samples as required by permit or enforcement action?	**N/A**
Is the facility free from any Sampling violation not listed above that needs to be addressed?	**N/A**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility	
Observations:	
The facility is not discharging to their land application site (G-001) and are therefore not required to sample under the current industrial wastewater permit.	

Records and Reports

Compliance Rating	Out of Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Are the entries in the operator logbook clear, concise, informative and relevant?	**Yes**				
Was copy of the current O&M manual available at the time of the inspection?	**Yes**				
Is there a current operator license?	**N/A**				
Is there a current RPZ certification?	**Yes**				
Does the facility have and maintain their Spill Prevention Control and Counter measurement (SPCC) Plan?	**N/A**				
Are all required documents and reports available at the plant well organized and complete?	**Yes**				
Does the facility maintain the records onsite for the required retention period?	**Yes**				
Discharge Monitoring Reports (DMRs) Review Period	2/1/2020 to 4/30/2023 **Yes**				
Are the discharge monitoring reports completed properly?	**Yes**				
Are the DMRs submitted on the proper form?	**No**				
Is an authorized representative signing the DMRs?	**Yes**				
Has the permittee submitted an annual Reclaimed Water and/or Effluent Analysis Report?	**N/A**				
A review of the last toxicity test did not reveal any deficiencies?	**N/A**				
Has the facility submitted all report(s) during the review period that are required by rule, permit, enforcement action or inspection activity, other than DMRs?	**Yes**				
*Has the facility timely submitted DMRs as required by rule, permit, or enforcement action? (If either reports are >30 days late meets SNC criteria)	**Yes**				
Has the facility submitted all final compliance schedule reports as required by rule, permit, or enforcement action?	**Yes**				
Has the permittee notified the Department of any event or activity that requires notification as required by permit or rule?	**Yes**				
*Are records or reports free from falsified data?	**Yes**				
Is the facility free from any Records and Reports violation not listed above that needs to be addressed?	**Yes**				
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility					

Deficiencies & Corrective Actions:	
Are the DMRs submitted on the proper form? [403.161(1)(b) F.S., 62-620.610 (18)(a) F.A.C., 62-600.680 (1) F.A.C.]	Deficiency: (Narrative*)* A review of the DMRs revealed that the facility has been submitting a different DMR Part B then what is provided in the current industrial wastewater permit. Specifically, the facility is only reporting data for Flow (FLW-01).
	Corrective Action(s): (Narrative) Since the facility has not been discharging to the land application site (G-001) the Department is not requiring the re-submittal of the DMR Part B. However, please ensure that all future DMR Part B are submitted on the proper template. No further action required at this time.
Observations:	
No additional comments and/or deficiencies.	

Facility Site Review

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
The facility was free from odors emanating from the facility.	**Yes**				
The facility was free from excessive noise which could be heard beyond the boundaries of the facility.	**Yes**				
Is the mechanical bar screen functioning as intended?	**N/A**				
Are grit and/or screenings being disposed of in accordance with the permit?	**N/A**				
Are records of the disposal of the screenings and grit collected at the facility available?	**N/A**				
Are the aeration basins diffusers free from clogs and providing adequate mixing?	**N/A**				
Is even distribution of air observed in the aeration basin?	**N/A**				
Are the air line(s) to the aeration basin(s) free from leaks?	**N/A**				
Are dual blower motors present as required by rule?	**N/A**				
Are the blower motors equipped with belt guards?	**N/A**				
The blower motors are free from excessive noise.	**N/A**				
Are all the blower motors present and operational at the time of the inspection?	**N/A**				
Are spare parts and a second standby blower motors stored onsite?	**N/A**				
Is the electrical box wiring for the blower motors adequately protected?	**N/A**				
Are there two functioning pumps that alternate?	**N/A**				
The RAS line was free from excessive splashing that could cause solids to be discharged outside the tank.	**N/A**				
Are the treatment lagoon berms properly stabilized?	**N/A**				
Is the base of the lagoon free from lateral seepage at the time of the inspection?	**N/A**				
Is the treatment lagoon properly secured to prevent unauthorized access?	**N/A**				
Are all the aerators in the lagoon operational?	**N/A**				
Does the treatment lagoon have adequate freeboard space?	**N/A**				
Is the treatment lagoon free from excessive foaming?	**N/A**				
Were the tank contents in the aerobic digester(s) well mixed?	**N/A**				
Is the stilling well free from a thick layer of sludge and/or trash?	**N/A**				
Are the clarifier weir(s) level?	**N/A**				
Does the skimmer appear to be functional in the clarifier?	**N/A**				
Are the clarifiers free from solids discharging over the weir(s)?	**N/A**				
Are the digester(s) free from excessive odors and/or foaming?	**N/A**				
Does the facility dispose of their sludge appropriately?	**N/A**				
The leachate from the sludges is not being disposed of onto the ground?	**N/A**				

Is the Chlorine Contact Chamber (CCC) effluent clear and free from scum, solids accumulation and debris?	**N/A**
Are the baffles in the CCC functioning as intended?	**N/A**
Is the Chlorine Contact Chamber providing a minimum contact time as designed?	**N/A**
Does the Chlorine injection point provide optimal mixing to occur in the CCC?	**N/A**
Is the CCC chlorine pump operational, providing adequate Chlorine supply for disinfection and at the permitted location?	**N/A**
Is the Chlorine storage area protected from the elements?	**N/A**
Is the alarm indicator for the Chlorine system operational?	**N/A**
Is the Chlorine supply covered in frost indicating an issue with the system?	**N/A**
Is the fan inside the Chlorine room operational?	**N/A**
Are the Chlorine scales operational?	**N/A**
Is an operational Self-Contained Breathing Apparatus (SCBA) available for the Chlorine room?	**N/A**
Are the Chlorine gas cylinders properly secured?	**N/A**
Is a fresh supply of Ammonia available to test for leaks in the gas chlorination system?	**N/A**
Is the automatic SO2 feed operational within de-chlorination process?	**N/A**
Is the SO2 system free from frost within de-chlorination process?	**N/A**
Are the Bisulfite (SO2) gas cylinders properly secured for de-chlorination?	**N/A**
Was there adequate ventilation in the SO2 room?	**N/A**
Chlorine and SO2 cylinders marked with empty/full tags?	**N/A**
Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks?	**N/A**
The facility is free from evidence of recent overflows.	**N/A**
Is the area around the lift station(s) maintained?	**N/A**
Is there emergency contact information on and/or around the lift station(s)?	**N/A**
Is the required signage adequate?	**N/A**
Does the facility have a fence around their lift station(s)?	**N/A**
Is the gate around the lift station and the cover to the lift station locked?	**N/A**
Is the cover to the lift station(s) free from safety hazards?	**N/A**
Was the collection system or lift station free from offsite objectionable odors?	**N/A**
The lift station visual and audio alarm operating satisfactory?	**N/A**
Was an alternative power source available at the facility?	**Yes**
Is the onsite generator tested under load on a monthly basis?	**Yes**
Are records available for the testing of the generator?	**Yes**
Is the land application system being maintained?	**Yes**
Are the potable water supply lines and the facility free from cross connections?	**Yes**
Is an RPZ in place and free of leaks on all potable water supply lines?	**Yes**
Is there a record of testing available on the RPZ?	**Yes**
The treatment equipment was free from excessive corrosion.	**Yes**
Is the facility providing measures to protect the public health and safety at all times?	**Yes**
Is there adequate access to all monitoring locations?	**Yes**
Are the facility grounds clean and well maintained?	**Yes**
Is the facility free from any Facility Site Review violation not listed above that needs to be addressed?	**Yes**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “*” Questions with “No” responses indicate deficiencies Questions with “N/A” responses do not apply to the facility	
Observations:	
No additional comments and/or deficiencies.	

Flow Measurement

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Is there easy access to flow meter?	**Yes**				
Is the flow meter in the correct location?	**Yes**				
Is the flow measuring device installed properly?	**Yes**				
Is the flow meter calibrated at least annually and is it current?	**Yes**				
When was the flow meter last calibrated?	FLW-01 Concentrate 5/23/2022 **Yes**				
Is the flow measurement device operating within +/- 10% of the actual flow?	**Yes**				
Is the flow meter operating properly at the time of the inspection?	**N/A**				
The chart recorder and/or totalizer for the flow meter was operational at the time of the inspection.	**N/A**				
The elapsed time meters on the lift station pumps were functioning.	**N/A**				
The flow entering the convergence section of the Parshall Flume was free of excessive turbulence.	**N/A**				
Is the facility free from any Flow Measurement violation not listed above that needs to be addressed?	**Yes**				
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility					
Observations:					
No additional comments and/or deficiencies.					

Operations and Maintenance

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Does the facility have adequate plant staffing?	**Yes**				
Is a certified operator operating the wastewater treatment facility with the appropriate license level for the size of the plant?	**Yes**				
Is the operator performing treatment plant operation and maintenance duties in a responsible and professional manner?	**Yes**				
Is the plant O&M log maintained in a hard-bound book with consecutive page numbering, or another approved format?	**Yes**				
Does the facility have an O&M manual, and does the facility's O&M manual reflect the current configuration of the facility?	**Yes**				
*Is the facility operated in accordance with the O & M Manual? (If there is a high potential for water quality or health impacts meets SNC criteria)	**Yes**				
Is the facility maintaining a log that documents routine equipment maintenance?	**Yes**				
Is the plant free of any treatment components that are in disrepair that would provide for unsafe operation?	**Yes**				
Is the facility without an inflow and infiltration problem which would cause collection system and/or operational issues?	**N/A**				

*Does the facility replace malfunctioning equipment, which can result in a high potential for water supply quality or health impacts?	**Yes**
Dike berms appeared to be in satisfactory condition.	**N/A**
Handrails/catwalks/ladders were in good working order providing for safe conditions.	**Yes**
The liner(s) in the containment pond(s) appeared to be functioning as intended.	**N/A**
The plant operator is fulfilling the minimum site requirements as required by the Permit.	**Yes**
Preventative maintenance is being performed in the accordance with the manufacturer's recommendations.	**Yes**
The facility maintains an adequate spare parts inventory.	**Yes**
Swales were being maintained.	**N/A**
Is the facility free from any Operations and Maintenance violation not listed above that needs to be addressed?	**Yes**
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies Questions with "N/A" responses do not apply to the facility	
Observations:	
No additional comments and/or deficiencies.	

Effluent Quality

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
DMR review period:	2/1/2020 to 4/30/2023 **Yes**				
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	**N/A**				
*Did the effluent limits exceed the Technical Review Criteria less than two times in six months?	**Yes**				
*Are the effluent limits without exceedances four out of six months (chronic criteria)?	**Yes**				
*Did the Total Residual Chlorine levels meet disinfection limits? (If below required minimum 10% or more of the time in a rolling 6-month period, meets SNC criteria)	**N/A**				
Was the facility free of a discharge of wastewater that resulted in a fish kill?	**Yes**				
*Is persistent acute toxicity documented through follow-up tests?	**N/A**				
*Is persistent chronic toxicity documented through follow-up tests?	**N/A**				
*Is the facility free from persistent acute or chronic toxicity documented in the effluent through the use of routine and follow-up tests?	**N/A**				
Does the facility meet the permit or enforcement narrative effluent limitation(s)? (Non-DMR visible sheen defined as iridescence present so as to cause taste or odor, or otherwise interfere with the beneficial use of the receiving water)	**Yes**				
Is the effluent free from excessive (suspended solids, foam, grease, scum) in the discharge stream?	**Yes**				
*Was the facility free from any other violation with a high potential for water quality or health impacts?	**Yes**				
Is the facility free from any Effluent Quality violation not listed above that needs to be addressed?	**Yes**				
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*" Questions with "No" responses indicate deficiencies					

Questions with “N/A” responses do not apply to the facility
Observations:
No additional comments and/or deficiencies.

Effluent Disposal

Compliance Rating	In Compliance				
Does this section apply to the facility?	◉	**Yes**	○	**No**	
Questions					
Are discharge location(s) as per permit?	**Yes**				
What type of reuse is the facility approved for?	**N/A**				
Has a cross connection control program been implemented within the areas where reclaimed water is provided for use (Part III, VII)?	**N/A**				
Is all reclaimed water piping and equipment color-coded Pantone purple (522C)?	**N/A**				
Reclaimed water valves and outlets were appropriately tagged and /or labeled.	**N/A**				
Are advisory signs posted in English and Spanish in areas where non-potable Public Access Reuse water is being applied (Part III, VII)?	**N/A**				
Is the reclaimed water retained on the application site?	**N/A**				
No significant ponding was observed on the reclaimed water application site.	**N/A**				
There was no aerosol mist leaving the boundaries of the land application site?	**N/A**				
There was no evidence of solids loss in the treatment process or from the plant?	**N/A**				
The RIBs and/or percolation ponds were free from excessive vegetation and sludge?	**N/A**				
Does the percolation ponds have at least 3 ft of freeboard?	**N/A**				
The absorption field was free from excessive vegetation.	**N/A**				
Is the drain field free of ponding?	**N/A**				
Do the reclaimed water storage ponds have adequate freeboard?	**N/A**				
Are RIBs and/or disposal pond berms well maintained and free from excessive vegetation?	**N/A**				
There was no evidence of a bypass or failure at the effluent storage and/or disposal site(s)?	**N/A**				
Are all effluent disposal areas such as RIBs, ponds, and sprayfields being loaded and rested per permit conditions?	**N/A**				
Are the sprinklers functioning as intended for the absorption field(s) or sprayfield(s)?	**N/A**				
No unauthorized discharge to waters of the state was observed during the inspection.	**Yes**				
Does the facility maintain a supply of spare parts for the absorption field(s) or sprayfield(s)?	**N/A**				
The facility is meeting the minimum setback distances.	**N/A**				
The effluent disposal and/or storage area was free from sinkholes.	**N/A**				
The sprayfield was free from ponding.	**N/A**				
The sprayfield was free from excessive vegetation.	**N/A**				
What cover crop and/or vegetation is planted on the reclaimed water area(s)?	**N/A**				
*The disposal system was being operated as designed with a low potential for water quality or health impacts.	**Yes**				
*There was no unauthorized operation or modification of the disposal system.	**Yes**				
Access control around the effluent disposal site was complete and in good repair.	**Yes**				
Is the facility free from any Effluent Disposal violation not listed above that needs to be addressed?	**Yes**				
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “*” Questions with “No” responses indicate deficiencies					

Questions with “N/A” responses do not apply to the facility
Observations:
The facility is not discharging to their land application site (G-001).

Groundwater

Compliance Rating	Not Applicable				
Does this section apply to the facility?	○	**Yes**	◉	**No**	
Questions					
DMRs review period	**N/A**				
Are the groundwater monitoring results sent to the Department on Discharge Monitoring Report, Form 62-620.910 (10), F.A.C. or entered into EzDMR and submitted by the DMR due date?	**N/A**				
After a review of the Discharge Monitoring Reports, are the compliance well parameters meeting the groundwater standards in the time period reviewed (12 months or greater)?	**N/A**				
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	**N/A**				
Does the facility's purging logs on DEP Form FD 9000-24 indicate that purging was done properly, including sufficient volume, purge rate, depth to water, and stability criteria (pH, Temperature, Conductivity, Dissolved Oxygen, Turbidity).	**N/A**				
Is the groundwater monitoring report complete and accurate, including analysis method, laboratory method detection limits, static water level, purging logs, sample collection procedures and treatment?	**N/A**				
Do the groundwater monitoring wells meet DEP requirements including tamper-proof locks, unique well label(s), concrete well pad with protective bumpers not containing numerous cracks and is free of clutter for sampling purposes.	**N/A**				
If or when new well construction was completed did the facility plug and properly abandoned the existing well and submit Monitoring Well Completion Report, Form 62-520.900 (3) to DEP within 60 days?	**N/A**				
If a monitoring well became damaged or inoperable was maintenance conducted and notification sent to DEP within 2 days of discovery?	**N/A**				
Is the well(s) that the facility is sampling at, part of the approved groundwater monitoring plan?	**N/A**				
Are the monitoring wells operable to the extent that sampling is possible?	**N/A**				
Are groundwater samples being collected and analyzed as required by the permit or enforcement action; including location, well type, sample type (grab/composite), time, and frequency?	**N/A**				
If sampling was observed were the sample collection activities being performed in accordance with DEP SOP FS 2200?	**N/A**				
If sampling was observed was equipment in satisfactory condition?	**N/A**				
If sampling was not observed is the description of sample collection activities being performed in accordance with DEP SOP FS 2200?	**N/A**				
Is the facility free from any Groundwater violation not listed above that needs to be addressed?	**N/A**				
Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “*” Questions with “No” responses indicate deficiencies Questions with “N/A” responses do not apply to the facility					
Observations:					

The facility was issued a final permit on October 27, 2020, which no longer included the requirement for monitoring the groundwater. However, the facility has been submitted a DMR Part D for an intermediate groundwater well. This is no longer necessary under the current industrial wastewater permit.

Other

Compliance Rating	Not Evaluated				
Does this section apply to the facility?		**Yes**		**No**	
Questions					
*Is the facility free from any violation not listed above, or pattern of noncompliance, resulting in a high potential for water quality or health impacts *(Any violations considered significant by the Secretary, Deputy Secretary, Director of District Management, or the Division Director meet SNC criteria)*	**N/A**				
Please describe any potential non-wastewater violations (i.e. hazardous waste, stormwater, SLERP, Air and Storage Tanks) that were referred.	**N/A**				

- *Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*****"*
- *Questions with "No" responses indicate deficiencies*
- *Questions with "N/A" responses do not apply to the facility*

Observations:

No evaluated.

Deficiencies Summary

Evaluation Area: Records and Reports	
Are the DMRs submitted on the proper form? [403.161(1)(b) F.S., 62-620.610 (18)(a) F.A.C., 62-600.680 (1) F.A.C.]	Deficiency: (Narrative) A review of the DMRs revealed that the facility has been submitting a different DMR Part B then what is provided in the current industrial wastewater permit. Specifically, the facility is only reporting data for Flow (FLW-01).
	Corrective Action(s): (Narrative) Since the facility has not been discharging to the land application site (G-001) the Department is not requiring the re-submittal of the DMR Part B. However, please ensure that all future DMR Part B are submitted on the proper template. No further action required at this time.

Useppa Island RO Concentrate Disposal Facility (FLA146102)
Photos by Nicole Devine on 5/8/2023

I certify that these photos represent the true
on-site conditions observed
and have not been altered in any way.

Nicole Devine

1. RO Flow Meter	2. Generator

ATTACHMENT 4-4
FLORIDA DEP CORRESPONDENCE
(PERMIT NO. FLA146109)

U.S. Water Services Corporation

Water and Wastewater Utility Operations, Maintenance, Engineering, Management

January 15, 2026

PRECAUTIONARY BOIL WATER NOTICE

To: Useppa Island Water Users (System Wide)
PWS ID# 5360299

Due to a water 4" water line break located behind the Collier Inn, a loss of water pressure was experienced within the distribution system to repairs. As a precaution, until tests can be completed, we advise that all water used for drinking, cooking, making ice, washing dishes, or brushing teeth be boiled. A rolling boil of one minute is sufficient. As an alternative, BOTTLED WATER MAY BE USED.

In the event there is a loss of power, and you cannot boil water, tap water can be disinfected by adding 8 drops (or about 1/8th teaspoon) of unscented household bleach (4-6% active ingredients) to each gallon of water, then mixing the water and allowing it to stand for a minimum of 30 minutes. If the water is cloudy, use 16 drops of bleach and a 30-minute contact time.

This "Precautionary Boil Water Notice" will remain in effect until a bacterio-logical survey shows that the water is safe to drink, at which point the boil water notice will be rescinded.

If you have any questions about the testing for bacteria, please contact U.S. Water Services at (727) 848-8292. Testing normally takes 2-3 days from the time water pressure is restored or the emergency condition is corrected to complete.

4939 Cross Bayou Blvd., New Port Richey, Florida 34652

Ph: 727-848-8292 Fax: 727-849-4219 Toll Free: 866-753-8292

Attachment 4-4
Communication Date 01/15/26

& LABORATORY REPORTING FORMAT

(62-550.730 Reporting Format Effective 01/1995, Revised 02/2010)

Lab Receipt Date & Time: 1/20/26 1205 TB

Analysis Date & Time: 1-20-26 1515 DH

Sample Acceptance Criteria:

Sample Preservation: ☑ On Ice ☐ Not On Ice 4.6 °C

Disinfectant Check: ☑ Not Detected ☐ _____ mg/L

This sample does not meet the following NELAC requirements:

Sanders Laboratories, Inc. 10090 Bavaria Rd, Ft. Myers, FL 33913, 239-590-0337, ☑ E85457 — 1050 Endeavor Ct, Nokomis, FL 34275, 941-234-1000, ☐ E84380

Report Number: 2601591 Sub-Contract Lab ID: _____

Analysis Requested: (check all that apply)

☒ Total Coliform/*E.coli* ☐ Total Coliform/Fecal ☐ HPC ☐ Enterococci ☐ Total Coliform/*E.coli* Quanti-Tray ☐ Legionella ☐ Other: _____

Public Water System (PWS) Name: Useppa Island Utilities **PWS I.D.** 5360299

PWS Address: P.O. Box 640 City: Bokeelia State: FL Zip: 33922

PWS or PWS Owner's Phone #: N/A Fax #: N/A

Collector: W.S. Inwards (USwater) Collector's Phone #: 863-558-2327

Type of Supply: (check only one)

☒ Community Water System ☐ Non-Transient Non-community Water System ☐ Transient Non-community Water System

☐ Limited Use System ☐ Bottled Water ☐ Private Well ☐ Swimming Pool ☐ Other: _____

Reason for Sampling: (check all that apply)

☐ Distribution Routine ☐ Distribution Repeat ☐ Raw (triggered or assessment) ☐ Raw (triggered or assessment) additional ☐ Well Survey

☐ Clearance[1] ☐ Replacement (also check type of sample being replaced)[1] ☒ Boil Water Notice[1] ☐ Other: _____

Sample Collection Date: 01-19-2026

To be completed by collector of sample

Sample #	Sample Point (Location or Specific Address)	Sample Collection Time ⇩	Sample Type[2]	Disinfectant Residual (mg/L)	pH
1	Fire Department	0933	S	1.13	7.4
2	Fitness Center	0950	S	1.16	7.5
3	#515	1005	S	1.12	7.5

To be completed by lab

Analysis Method(s): ☒ SM 9223B ☐ SM 9222B ☐ SM 9215B ☐ Legioalert ☐ Other: _____

Non-Coliform[3]	Total Coliform[3]	Fecal, *E. coli*, Enterococci or Coliphage[3]	Legionella	Data Qualifier[4]	Lab Sample #
	A	A		U	1A
	A	A		U	2A
	A	A		U	3A

Average of disinfectant residuals for distribution routine & repeat samples.[5] ☒ Free chlorine or ☐ Total chlorine: 1.4

Disinfectant Residual Analysis Method:

☒ DPD Colorimetric ☐ Other: _____

Person performing disinfectant analysis is (see instructions on reverse):

☒ A certified operator (# 18299)

☐ Supervised by certified operator (# _____)

☐ Employed by a certified lab

☐ Employed by DEP or DOH ☐ Authorized representative of supplier of water

Unless otherwise noted, all tests are performed in accordance with NELAC standards, and the results relate only to the samples.

Date and time PWS notified by lab of positive results: _____

Date and time DEP/DOH notified by lab of positive results: _____

Date Report Issued: 1/21/26

Lab Signature: TM

Title: Lab Manager Office Mgr

Name, mailing address, and email of person to receive report.

Email: _____

Name: USW

Address: _____

City, State, Zip: _____

Phone: _____

DEP/DOH USE ONLY

☐ Satisfactory

☐ Incomplete Collection Information

☐ Repeat Samples Required

☐ Replacement Samples Required

Date Reviewed by DEP/DOH: _____

DEP/DOH Reviewing Official: _____

Samples marked for Clearance, Replacement, and Boil Water Notice indicate consent to be charged for rush processing.

Sample type codes are: D = Distribution (routine compliance), C = Repeat *or* Check, R = Raw, N = Entry Point to Distribution, P = Plant Tap, S = Special (clearance, etc.).

Result codes are: A = Bacteria *or* Coliphage Absent, P = Bacteria *or* Coliphage Present, C = Confluent Growth, TNTC = Too Numerous To Count

Defined in Florida Administrative Code Rule 62-160, Table 1.

Complete for community & non-transient non-community systems serving populations up to and including 4,900. Do not include raw or plant samples in the average.

DRINKING WATER MICROBIAL SAMPLE COLLECTION & LABORATORY REPORTING FORMAT

(62-550.730 Reporting Format Effective 01/1995, Revised 02/2010)

Lab Receipt Date & Time: 1/21/26 1035 TB

Analysis Date & Time: 1-21-26 1445 DH

Sample Acceptance Criteria:

Sample Preservation: ☒ On Ice ☐ Not On Ice 5.1 °C

Disinfectant Check: ☒ Not Detected ☐ _____ mg/L

This sample does not meet the following NELAC requirements:

Sanders Laboratories, Inc.
10090 Bavaria Rd
Ft. Myers, FL 33913
239-590-0337
■ E85457

1050 Endeavor Ct
Nokomis, FL 34275
941-234-1000
☐ E84380

Report Number: 2601630 Sub-Contract Lab ID: _____

Analysis Requested: (check all that apply)
☒ Total Coliform/*E.coli* ☐ Total Coliform/Fecal ☐ HPC ☐ Enterococci ☐ Total Coliform/*E.coli* Quanti-Tray ☐ Legionella ☐ Other: _____

Public Water System (PWS) Name: Useppa Island Utilities PWS I.D. 5360299

PWS Address: P.O. Box 640 City: Bokeelia State: FL Zip: 33922

PWS or PWS Owner's Phone #: N/A Fax #: N/A

Collector: W.S. Edwards (USwater) Collector's Phone #: 863-558-2327

Type of Supply: (check only one)
☒ Community Water System ☐ Non-Transient Non-community Water System ☐ Transient Non-community Water System
☐ Limited Use System ☐ Bottled Water ☐ Private Well ☐ Swimming Pool ☐ Other: _____

Reason for Sampling: (check all that apply)
☐ Distribution Routine ☐ Distribution Repeat ☐ Raw (triggered or assessment) ☐ Raw (triggered or assessment) additional ☐ Well Survey
☐ Clearance[1] ☐ Replacement (also check type of sample being replaced)[1] ☒ Boil Water Notice[1] ☐ Other: _____

Sample Collection Date: 01-20-2026 ⇐

To be completed by collector of sample

Sample #	Sample Point (Location or Specific Address)	Sample Collection Time ⇩	Sample Type[2]	Disinfectant Residual (mg/L)	pH
1	Fire Department	1018	S	1.5	7.4
2	Fitness Center	0950	S	1.4	7.4
3	#515	1010	S	1.0	7.4

Average of disinfectant residuals for distribution routine & repeat samples.[5] ☒ Free chlorine or ☐ Total chlorine: 1.3

To be completed by lab

Analysis Method(s): ☒ SM 9223B ☐ SM 9222B
☐ SM 9215B ☐ Legioalert ☐ Other: _____

Non-Coliform[3]	Total Coliform[3]	Fecal, *E. coli*, Enterococci, or Coliphage[3]	Legionella	Data Qualifier[4]	Lab Sample
	A	A		U	1A
	A	A		U	2A
	A	A		U	3A

Disinfectant Residual Analysis Method:
☒ DPD Colorimetric ☐ Other: _____

Person performing disinfectant analysis is (see instructions on reverse):
☒ A certified operator (# 18299)
☐ Supervised by certified operator (# _____)
☐ Employed by a certified lab
☐ Employed by DEP or DOH ☐ Authorized representative of supplier of water

Unless otherwise noted, all tests are performed in accordance with NELAC standards, and the results relate only to the samples.

Date and time PWS notified by lab of positive results: _____

Date and time DEP/DOH notified by lab of positive results: _____

Date Report Issued: 1/22/26

Lab Signature: [signature]

Title: Lab Manager

Name, mailing address, and email of person to receive report.

Email: _____
Name: USW
Address: _____
City, State, Zip: _____
Phone: _____

DEP/DOH USE ONLY
☐ Satisfactory
☐ Incomplete Collection Information
☐ Repeat Samples Required
☐ Replacement Samples Required
Date Reviewed by DEP/DOH: _____
DEP/DOH Reviewing Official: _____

Samples marked for Clearance, Replacement, and Boil Water Notice indicate consent to be charged for rush processing.

Sample type codes are: D = Distribution (routine compliance), C = Repeat *or* Check, R = Raw, N = Entry Point to Distribution, P = Plant Tap, S = Special (clearance, etc.).

Result codes are: A = Bacteria *or* Coliphage Absent, P = Bacteria *or* Coliphage Present, C = Confluent Growth, TNTC = Too Numerous To Count

[1] Defined in Florida Administrative Code Rule 62-160, Table I.

[5] ... systems serving populations up to and including 4,900. Do not include raw or plant samples in the average.

U.S. Water Services Corporation

Water and Wastewater Utility Operations, Maintenance, Engineering, Management

January 22, 2026

RESCISSION OF PRECAUTIONARY BOIL WATER NOTICE

To: Useppa Island Water Users (System Wide)
PWS ID# 5360299

The January 15, 2026, “Precautionary Boil Water Notice” is hereby rescinded. The satisfactory completion of a bacteriological survey shows that the water is safe to drink.

If you have any questions, please contact U.S. Water Services at (727) 848-8292.

4939 Cross Bayou Blvd., New Port Richey, Florida 34652

Ph: 727-848-8292 Fax: 727-849-4219 Toll Free: 866-753-8292

FLORIDA DEPARTMENT OF Environmental Protection

South District
2295 Victoria Ave #364
Fort Myers FL 33901
SouthDistrict@DEP.State.Fl.us

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

December 30, 2025

Useppa Island Partners LLC
9132 Strada PL, Third Floor
Naples, FL, 34108

Re: Compliance Assistance Offer
Useppa Island Club
Facility ID: 5360299
Collier County-PW

Dear Useppa Island Partners LLC:

A Sanitary Survey Compliance Inspection was conducted at your facility on **December 4, 2025**. During this Inspection, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving these matters.

Specifically, potential non-compliance with the requirements of Chapters 373 and 403, Florida Statutes and Chapters 62-550 and 62-555, Florida Administrative Code were observed. Please see the attached inspection report for a full account of department observations and recommendations.

We request you review the items of concern noted and respond within **30 days** of receipt of this Compliance Assistance Offer. Your response should include one of the following:

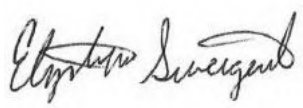
1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid, or
3. Arrange for the case manager to visit your facility to discuss the item(s) of concern.

It is the department's desire that you are able to adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Attachment 4-4
Communication Date 12/30/25

Please address your response and any questions to **Rocio Andrade** of the South District Office at **239-344-5740** or via e-mail at **Rocio.Andrade@FloridaDEP.gov.** We look forward to your cooperation with this matter.

Sincerely,



Elizabeth Sweigert
Director of District Management

Enclosures: December 4, 2025, Inspection Report

cc: US water: drinkingwater@uswatercorp.net
scassidy@uswatercorp.net
esprunger@uswatercorp.net
wjedwards@uswatercorp.net

Additional Health Information

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

(A) **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

(B) **Inorganic contaminants,** such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

(C) **Pesticides and herbicides,** which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

(D) **Organic chemical contaminants,** including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

(E) **Radioactive contaminants,** which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's **Safe Drinking Water Hotline at 1-800-426-4791.**

For Customers with Special Health Concerns

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. U.S. Environmental Protection Agency (EPA)/Center for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the **Safe Drinking Water Hotline (1-800-426-4791).**

Source Water Assessment Plan

In 2024, the Department of Environmental Protection performed a Source Water Assessment on our system and a search of the data sources indicated five potential sources of contamination with low susceptibility levels. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at https://prodapps.dep.state.fl.us/swapp/

How to Reach Us

If you have any questions about this report or concerning your water utility, please contact U.S. Water Services Corporation at (727) 848-8292. We encourage our valued customer to be informed about their water utility.

About Lead

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. Useppa Island is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have your water tested, the contact information can be found in the "How to reach us" section of this report. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at *https://www.epa.gov/safewater/lead*.

Useppa Island Utilities

2024 Annual Drinking Water Quality Report

PWS ID # 5360299

We're pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the quality water and services we have delivered to you over the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water.

We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided in this report, please feel free to call any of the numbers listed.

We are pleased to report that our drinking water meets all federal and state requirements.

Where Your Water Comes From

Our water source consists of two ground water wells drawing from the Hawthorn Aquifer. Our water is aerated, filtrated using reverse osmosis and then treated with chlorine for disinfection purposes.

How We Ensure Your Drinking Water is Safe

We routinely monitor for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2024. Data obtained before January 1, 2024, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

As authorized and approved by the EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from one year to another. As a result some of our data is more than one year old.

Attachment 4-4
Communication Date 08/01/25

2024 Water Quality Table – PWS No. 5360299

How to Read the Table

In the table, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions.

Action Level (AL): The concentration of contaminants which, if exceeded, triggers treatment or other requirements that a water system must follow.
Maximum contaminant level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
Maximum contaminant level goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
ND: Means not detected and indicates that the substance was not found by laboratory analysis.
ppm: parts per million or milligrams per liter is one part by weight of analyte to one million parts by weight of the water sample.
ppb: parts per billion or micrograms per liter is one part by weight of analyte to one billion parts by weight of the water sample.
pCi/l: picocuries per liter is a measure of the radioactivity in water.

Table Notes:

A. Results in the Level Detected column for radiological contaminants and inorganic contaminants are the highest detected level at any sampling point.

B. For chlorine, the level detected is the highest running annual average (RAA), computed quarterly, of monthly averages of all samples collected. The range of results is the range of results of all the individual samples collected during the past year. For Haloacetic Acids or TTHM, the level detected is the highest result of all samples taken during the year if the system monitors less frequently than quarterly. Range of Results is the range of individual sample results for all monitoring locations.

NON-SECONDARY CONTAMINANTS TABLE

RADIOACTIVE CONTAMINANTS

Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226+228 or combined radium (pCi/L)	08/2021	N	0.913	N/A	0	5	Erosion of natural deposits

INORGANICS CONTAMINANTS

Barium (ppm)	08/2024	N	0.0038	N/A	2	2	Discharge from drilling wastes; discharge from metal refineries; erosion of natural deposits
Sodium (ppm)	08 & 12/2024	N	175	63.3 - 175	N/A	160	Salt water intrusion, leaching from soil
Nitrate (as Nitrogen) (ppm)	08/2024	N	0.01	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Fluoride (ppm)	08/2024	N	0.15	N/A	4.0	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at the optimum level of 0.7 ppm

STAGE 1 DISINFECTANTS

Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL or MRDL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm)	Monthly 2024	N	1.56	1.0 – 3.0	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes

STAGE 2 DISINFECTION BY-PRODUCTS

Haloacetic Acids (five) (HAA5) (ppb)	08/2024	N	5.7	N/A	N/A	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	08/2024	N	31.4	N/A	N/A	MCL = 80	By-product of drinking water disinfection

LEAD AND COPPER (TAP WATER)

Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	AL Exceeded (Y/N)	90th Percentile Result	No. of sampling sites exceeding the AL	Range of Tap Sample Results	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	08/2024	N	0.0215	0	0.0013 – 0.026	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	08/2024	N	1.6	0	ND – 2.0	0	15	Corrosion of household plumbing systems, erosion of natural deposits

Lead Service Line Inventory
The facility has conducted a complete survey of all drinking water service lines, totaling over 146 individual connections. The comprehensive review included an examination of all available historical records, including record drawings and ordinance reviews, as well as over 146 pipeline inspections of homes and businesses. The facility has 146 locations that have no lead service lines. To view the facilities, Lead Service Line Inventory, you can request it from the facility and the contact information can be found in the "How to reach us" section of this report.

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: USEPPA ISLAND
Contact person: KAREN HILLIER
PWS Identification number (PWS ID): 5360299
Contact phone number: service@useppa.com
Mailing address: PO BOX 640
City: BOKEELIA
State: FL Zip: 33922 Population served (not the number of "service connections"): 200

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☑ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on 06/20/2025 (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☑ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☐ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☐ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☐ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

☐ A. We posted our CCR on this publicly accessible internet site: _____

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement.
The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☑ F. Our CCR was posted in the following public locations:
POSTED IN ISLAND MAIL ROOM WITH ADDITIONAL COPIES

☐ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☑ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☑ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☑ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☐ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☐ Yes ☐ No ☑ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2024***, ***and ending December 31, 2024***, to its customers on 06/20/2025 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: Crystal Rebston

NAME (please print): Crystal Rebston

TITLE: Compliance Coordinator DATE: 07/29/2025

☑ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Alexis A. Lambert
Secretary

April 4, 2025

Donald Beckstead, President
Useppa Island Utilities Company Inc
8115 Main Street
Bokeelia, FL 33922
dbeckstead@useppa.com

Re: Return to Compliance Letter
Useppa Island Club
Facility ID: 5360299
Lee County – PW

Dear Mr. Beckstead:

Department personnel conducted a Sanitary Survey of the above-referenced facility on **May 8, 2023**. A file review was also conducted on **March 12, 2025**. Based on the information provided during and following the Sanitary Survey and file review, the facility was determined to be in compliance. The deficiencies noted in the Sanitary Survey and the corrective actions received by the department to address these deficiencies are located below. Any non-compliance items which may have been identified at the time of the file review have been corrected.

The department appreciates your compliance efforts. Should you have any questions or comments, please contact **Steven Pereira** of the South District Office at **239-344-5647** or via e-mail at **Steven.Pereira@FloridaDEP.gov**.

Sincerely,

David Fiess, MPA
Assistant Director of District Management
South District Office
Florida Department of Environmental Protection

Attachment 4-4
Communication Date 04/04/25

Enclosures: File Review Memo
Corrective Action Document

cc: Selina Makofsky, smakofsky@uswatercorp.net
William Edwards Sr., wjedwards@uswatercorp.net
Melisa Rotteveel, mrotteveel@uswatercorp.net

File Review Memorandum

TO: File
FROM: Steven Pereira
SUBJECT: 5360299 Facility Name
DATE: April 4, 2025

On **May 8, 2023** a Public Water System compliance inspection was conducted at the above-referenced facility. On **July 7, 2023**, the Department sent a Compliance Assistance Offer Letter detailing the inspection findings. The facility was found to be out of compliance, and the inspection report noted the following corrective actions.

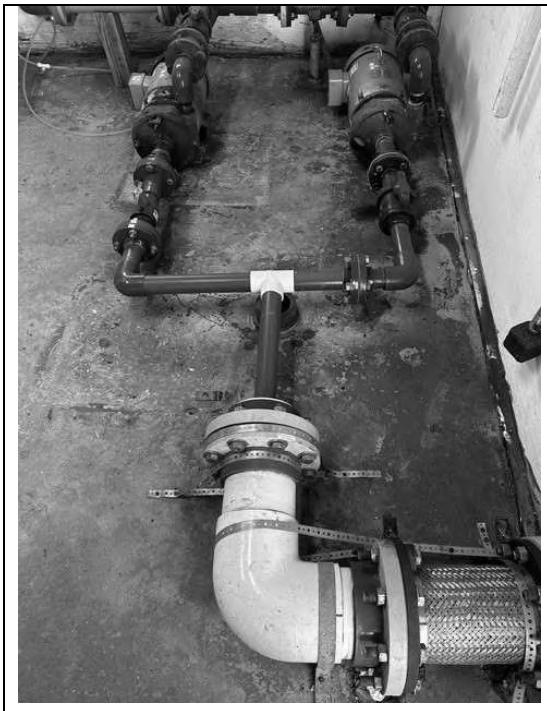
On **March 26, 2025**, the Department received a response with photographs from Useppa Island Club that addresses all corrective actions noted in the Department's compliance evaluation inspection. The facility is now in compliance.

CORRECTIVE ACTIONS RESPONSES:

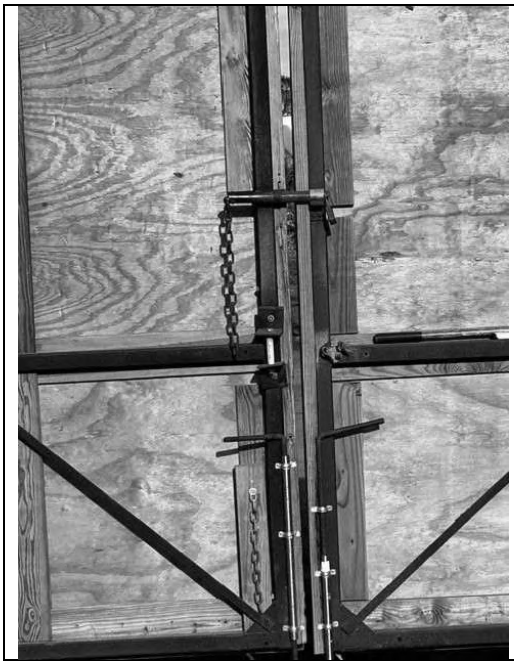
1.

	Leaks on Microfilter fixed. Photo submitted March 25, 2025.

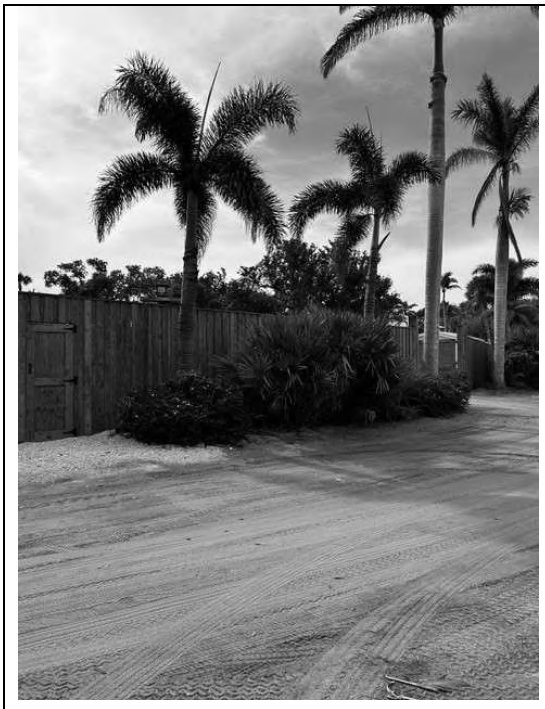
2.

	Leaks on pumps fixed. Received on March 25,2025.

3.

	Fence with lock. Received on March 26, 2025.

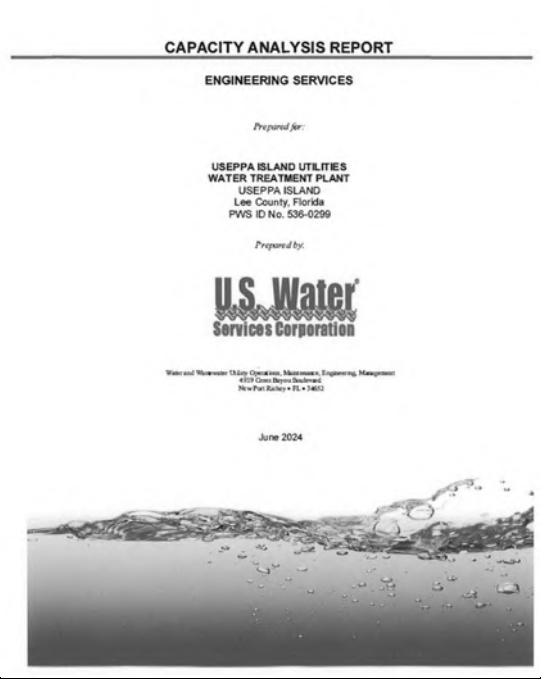
4.

	Overview of the fence. Received March 25, 2025.

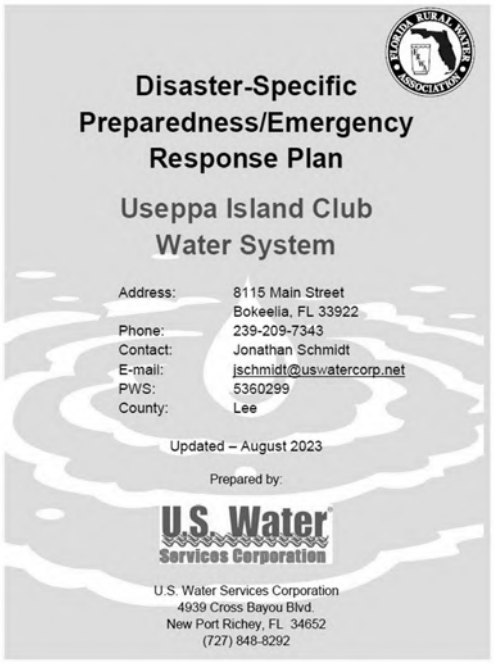
5.

	The degasser has been stabilized. Received March 26, 2025.

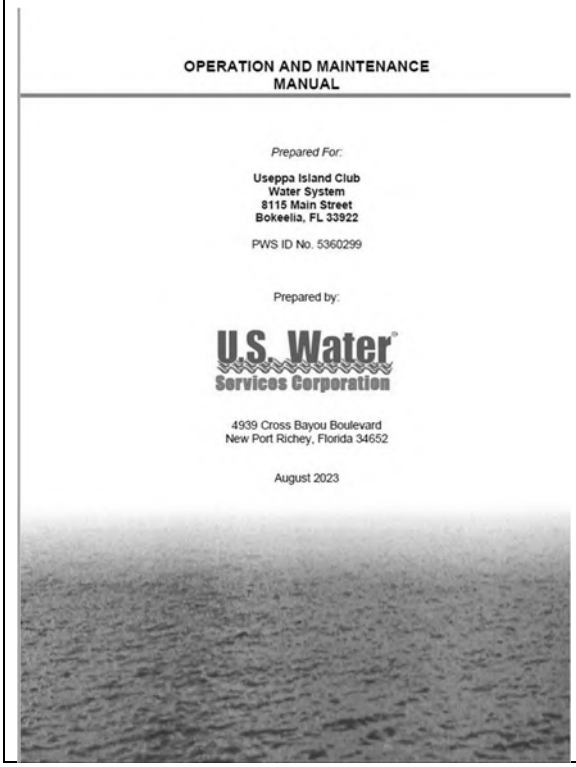
6.

	The Capacity Analysis report has been submitted . Received June 27, 2024.

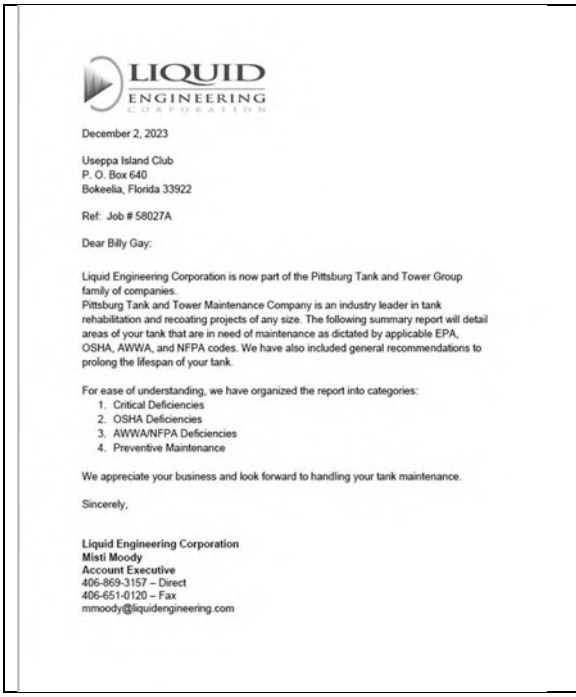
7.

	The ERP has been updated. Received August 16, 2023.

8.

	The Operation and Maintenance Manual has been submitted. Received August 26, 2023.

9.

	The Tank cleaning report has been submitted. Received October 16, 2024.

10.

	North Well casing and/or sanitary seal cleaned and free from corrosion. The previously observed gap/ holes have been rectified. Received August 16, 2024.

11.

	South Well casing and/or sanitary seal cleaned and free from corrosion. Received August 16, 2024.

Disaster-Specific Preparedness/Emergency Response Plan

Useppa Island Club Water System

Address:	8115 Main Street Bokeelia, FL 33922
Phone:	239-209-7343
Contact:	Jonathan Schmidt
E-mail:	jschmidt@uswatercorp.net
PWS:	5360299
County:	Lee

Updated – August 2023

Prepared by:

U.S. Water Services Corporation
4939 Cross Bayou Blvd.
New Port Richey, FL 34652
(727) 848-8292

Emergency Notification

Emergency Notification List				
Organization or Department	**Name**	**Telephone**	**After Hours Telephone**	**E-mail or Fax**
US Water Lead Operator	William Edwards	863-558-2327	863-558-2327	wjedwards@uswatercorp.net
US Water Regional Operations Manager	Jonathan Schmidt	239-209-7343	239-209-7343	jschmidt@uswatercorp.net
US Water Compliance Abnormal Event Reporting	-	866-753-8292	727-359-8457	-
US Water Maintenance After Hours	-	-	727-848-8292	-
US Water Maintenance Supervisor	Billy Adams	239-286-9685	Call the number above ^	wadams@uswatercorp.net
US Water Regional Manager	Lina M. Quintero	727-858-2396	727-858-2396	lquintero@uswatercorp.net
US Water Regional Maintenance Manager	Steve Stanton	239-209-6120	239-209-6120	sstanton@uswatercorp.net
State Warning Point	Duty Officer	800-320-0519	800-320-0519	http://floridadisaster.org/Response/Operations/swp.htm
County Health Department	Lee County	239-332-9501	-	LeeCHDFeedback@flhealth.gov
Florida Department of Environmental Protection (FDEP) District Office	South District	239-344-5600	239-344-5600	850-412-0590 http://www.dep.state.fl.us/south/
Safe Drinking Water Hot Line	Duty Officer	800-426-4791 202-564-3750	800-426-4791	202-564-3752 http://water.epa.gov/drink/hotline/index.cfm
FEMA	Duty Officer	1-800-621-3362	1-800-621-3362	www.fema.gov
Local Law Enforcement	Duty Officer	911	911	-
Fire Department	Duty Officer	911	911	-
Emergency Medical Services	Duty Officer	911	911	-
National Spill Response Center	Duty Officer	800-424-8802	800-424-8802	HQS-DG-lst-nrcmgmt@uscg.mil http://www.nrc.uscg.mil/nrchp.html

Service / Repair Notifications			
Organization Or Department	**Company Name**	**Telephone**	**Night Phone or Fax Number**
Electric Utility Co.	Florida Power & Light Company	1-800-375-2434	1-800-375-2434
Electrician	U.S. Water Services Corporation	239-368-1766	1-866-753-8292
Water Testing Lab.	AEL	239-674-8130	Josh Snead Cell: 239-994-2226
Pump Supplier	Mader Electric Motors	239-731-5455	239-731-8165
Chlorine Supplier	Hawkins	800-328-5460	-
Radio/SCADA Repair Co.	U.S. Water Services Corporation	239-368-1766	1-866-753-8292
Well Drilling Co.	Youngquist Brothers, Inc.	239-489-4444	239-489-4545

Customers

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ This information explains the simple steps you can take to protect you and your family's health.
▪ We will keep you informed as soon as we know more.
▪ Due to this incident as a precaution we advise that all water used for drinking or cooking be boiled.
▪ You can consult a variety of sources for additional information, for example you family doctor or pediatrician.
▪ If you think you may be ill or need medical advice, contact a physician.
▪ Water samples must be collected and tested to validate the microbiological safety of drinking water provided to the consumer.
▪ If you have any questions please contact as at _____
▪ We are taking this incident seriously and doing everything we can do to resolve it.

Disaster-Specific Preparedness/ Emergency Response Plan

A. Vandalism or Sabotage Response Procedures

1. The person first aware of the incident calls the Lead Operator and 911 as soon he knows about the incident.

2. Lead Operator shall contact the Regional Operations Manager to notify State Warning Point 1-800-320-0519 immediately about the incident within the two hours after discovery of sabotage.

3. Regional Operations Manager shall call the appropriate FDEP South District Office, County Health Department and the Facility Owner within the two hours after discovery of sabotage.

4. The Lead Operator collects all reports produced during the investigation and work with the authorities on anything required in the case.

5. Water customers shall be notified also if the water quality has been affected.

6. Lead Operator assesses damage and directs repairs as needed in coordination with the Collection and Distribution System Manager (if necessary).

7. Repair affected facilities as soon as possible.

8. Lead Operator returns the system to normal operation and reports findings to the Regional Operations Manager to proceed with required notifications and updates.

B. Drought Response Procedures

1. Supplier of water analyzes the drought conditions.

2. The permittee shall cease or reduce water withdrawal as directed by the South Water Management District (SFWMD) if water levels in the aquifers fall below the minimum levels established by the Board.

3. Regional Operations Manager notifies Facility Owner and the SFWMD about those conditions and about the measures taken during the emergency.

4. A Water Conservation Plan should be implemented if necessary to get cooperation from the customers during the emergency.

5. The customers are notified about the water use restriction plan.

6. When there is no further need for additional restrictions, the Lead Operator returns the system to normal operation.

7. Customers are notified.

C. Structure Fire Response Procedures

1. As soon as fire is discovered, evacuation of the building(s) is ordered. All employees should know escape routes from every area of the buildings.

2. Activate any visible alarms.

3. Call 911 to notify the Fire Department.

4. If possible, attempt to contain or control the fire using the fire extinguishers located at the facility.

5. Call Regional Operations Manager and Facility Owner.

6. Regional Operations Manager notifies the State Warning Point 1-800-320-0519 immediately and the FDEP South District.

7. Lead Operator and Regional Operations Manager survey the damages after the incident and inform the Facility Owner.

8. Lead Operator and Collection and Distribution System Manager direct all necessary repairs to complete them as soon as possible to avoid service interruptions.

9. Lead Operator notifies the Regional Operations Manager about the conditions of the system when everything is back to normal.

10. All fire extinguishers located in the facility shall remain accessible at all times and annually inspected to ensure they can be used in case of emergency.

D. Flood Preparedness & Response Procedures

1. Do not visit disaster areas until it is safe to access.

2. Stay out of buildings that remain in flood waters.

3. Do not handle live electrical equipment in wet areas.

4. Lead Operator and Regional Operations Manager analyze the severity of the emergency, flood watch and flood warnings.

5. Regional Manager notifies the Facility Owner.

6. Regional Operations Manager directs staff to operate the system without the well(s) that is(are) affected.

7. Regional Operations Manager notifies the State Warning Point 1-800-320-0519 about the severity of the emergency.

8. Lead Operator and Regional Operations Manager analyze the status of critical components, for adequate protection during the emergency.

9. Utility staff involved with the system and properly trained provides emergency assistance to save lives (operators, personnel at the facility and water customers).

10. Regional Manager notifies the customer to boil water or other emergency measures.

11. Lead Operator and Regional Operations Manager have all the equipment and operating personnel ready for reparation as soon as they are able to enter the facility.

12. If necessary call the police and public health officials.

13. After corrective actions, a predetermined number of representative water samples must be collected and tested to validate the microbiological safety of drinking water provided to the costumer.

14. Final report presented to the Facility Owner.

E. Hazardous Material Release Response Procedures

1. Utility staff discovering hazardous materials release orders immediate evacuation of the facility and call 911, State Warning Point 1-800-320-0519 and National Response Center 1-800-424-8802.

2. Regional Manager notifies the emergency agencies having jurisdiction and the Facility Owner.

3. If any person is exposed to any chemical by contact, first wash with soap and water, move to fresh air, flush eyes and if irritation occurs and consult a physician for safety purposes.

4. Locate source of leaks and safely stop it.

5. Clean up the spills with adequate material and place into appropriate container for proper disposal.

6. If the material is considered extremely hazardous

7. Flush spill areas with large amount of water to avoid people coming into contact with these chemicals.

8. Use “Caution” signs to keep all people away from the spill and dispose the waste in accordance with federal, state and local regulations.

F. Hurricane Preparedness & Response Procedures

This procedure is a summary of the actions that must be taken before each hurricane season and before each pending hurricane.

Category 1 hurricane – Sustained winds of 74-95 mph
Category 2 hurricane – Sustained winds of 96-110 mph
Category 3 hurricane – Sustained winds of 111-135 mph
Category 4 hurricane – Sustained winds of 136-155 mph
Category 5 hurricane – Sustained winds of >155 mph

Before Hurricane

Hurricane Watch is issued:

1. Regional Operations Manager shall notify the personnel and give them safety instructions before and after the hurricane.
2. Regional Operations Manager establishes constant communication system with the Facility Owner so they will know the status of the system at all times.
3. Regional Operations Manager establishes communication with the Emergency Operations Center.
4. Check all auxiliary and standby equipment.
5. Stock adequate fuel supplies for the equipment and the emergency trucks and vehicles.
6. Maintain in good repair all mechanical equipment at the plants and wells.
7. Stock spare parts which are critical to the operation of the plant.
8. Stock sufficient supplies of necessary treatment chemicals to treat the water for at least 14 days.

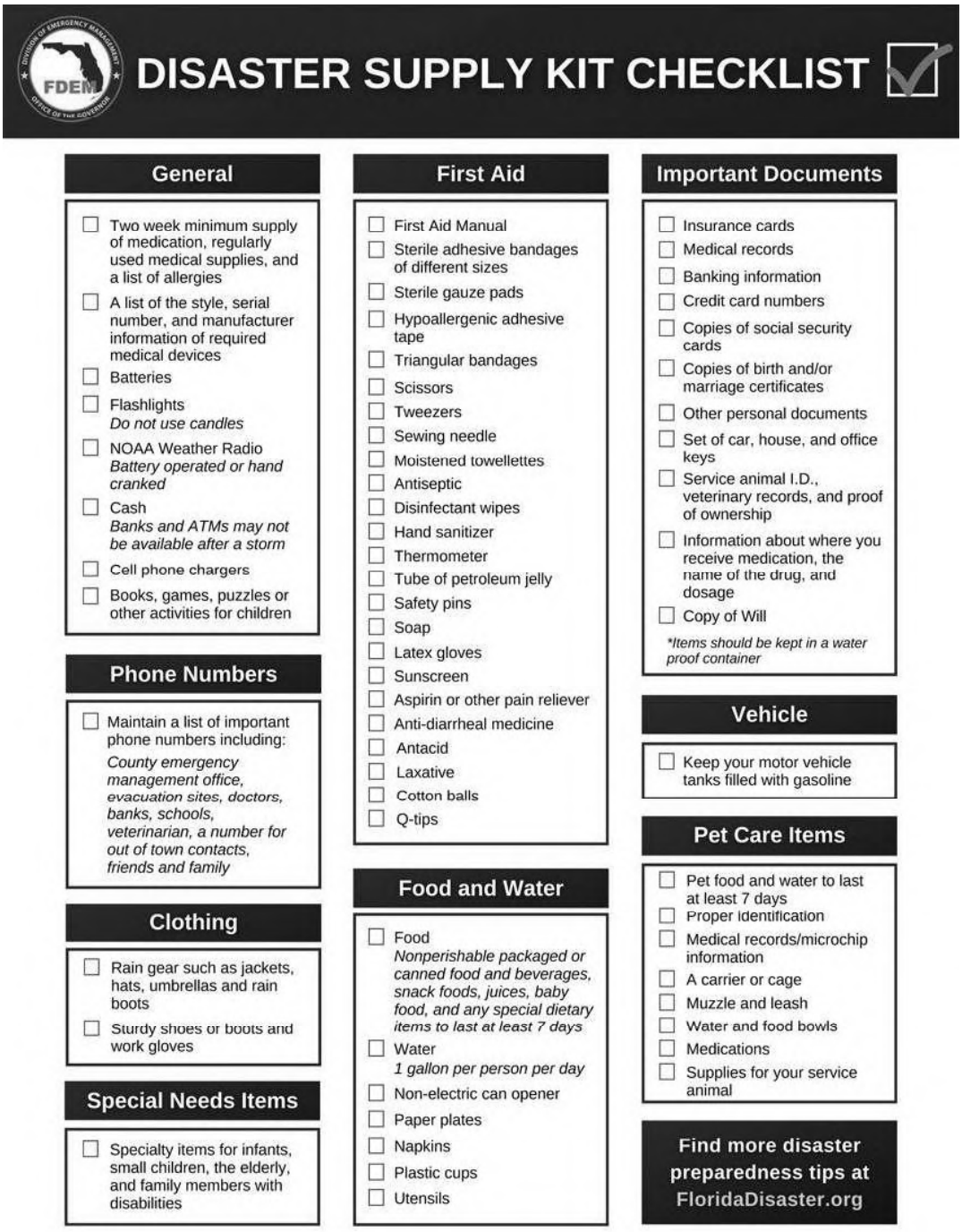
Hurricane Warning is issued:

9. After hurricane warnings are received Regional Operations Manager shall notify the DEP South District.
10. Lead operators should be available to report to work if called in.
11. Make arrangements to use a secure location to store computers and other office equipment.
12. Keep all water storage facilities as near to full capacity as possible upon receiving the hurricane warnings.
13. Keep all supplies in a safe place to prevent them from becoming airborne during the hurricane.
14. Know the electrical requirements of the system that must be powered during an emergency so that portable generator needs can be specified.

15. Stay alert for tornados at this point.

16. Establish communication with adjacent utilities in case of a mutual need is critical to the welfare of the community.

17. Regional Operations Manager continues communication with the operating personnel and regulatory agencies so they will know how and where to contact the utility staff in charge during emergency conditions.



Hurricane within 4-6 Hours

18. Shut down all computers and non-essential items at the offices and the plants.

19. All personnel shall be familiar with all evacuation notifications.

20. Prepare to evacuate if the current location is not the safest.

21. Notify residents to conserve water and to boil water until storm passes and all clear is given.

22. Keep constant communication with County Emergency Management.

During the Storm

All outside activities should be kept to a minimum. The main danger in high winds is not the wind, but the debris the wind carries. Work crews must have an operational radio or phone and should be working in pairs if it is absolutely necessary to work outside.

After Hurricane

1. All employees should call in and report to the supervisors and/or the Regional Operations Manager.

2. Take extra-safety precautions after returning to the facilities.

3. If power outages have occurred, the system has to be monitored and if necessary, water consumers will be notified by boil water notices.

4. Regional Operations Manager and the Facility Owner inspect the system for survey of all damages and make sure water is being properly treated.

5. If there is a problem with water, Regional Operations Manager notifies the FDEP South District and SFWMD immediately.

6. If necessary, the Regional Operations Manager immediately contact a tree Service Company and the power company to address any road blocks such as fallen trees and/or power lines.

7. The Regional Operations Manager assesses damage and directs repairs as needed in coordination with the Collection and Distribution System Manager.

8. Bacteriological samples should be taken after reparations to ensure water is safe for the consumer.

9. Once the plant is back to normal operation Regional Operations Manager notifies the regulatory agencies and water customers about the status of the system.

10. The Regional Operations Manager shall utilize the Storm Tracker system to report the facility status immediately following a significant weather-related event.

G. Other Disasters Response Procedures

Severe Contamination (any abnormal color, odor, or taste)

1. Lead Operator notifies the Regional Operations Manager.
2. Regional Operations Manager speaks directly to a person at DEP South District Office and the Facility Owner as soon as possible.
3. Regional Operations Manager speaks directly with the Department's inspector to notify him about the contamination.
4. FDEP South District determines what notification is required to distribute to consumers.
5. Regional Operations Manager distributes required notification to water consumers as soon as possible.
6. Regional Operations Manager takes corrective measures to the water system.
7. When corrective actions are completed, a predetermined number of representative water samples must be collected and tested to validate the microbiological safety of drinking water provided to the consumers.
8. After lab results prove satisfactory, Regional Manager sends a copy to the regulatory agency for approval, and lets the consumers know that the plant is back to normal operations.

Standby Power Requirements

Standby Power	The WTP has a 60 kW stand-by generator for backup power.

Drinking Water Treatment Chemicals & Disinfectants

Chemicals & Disinfectants

WTP
Diesel fuel
Sodium Hypochlorite – 2 x 55 gals

Basic System information

System Identification Number (PWS ID)	5360299
System Name and Mailing Address	Useppa Island Club WTP P.O Box 640 Bokeelia, FL 33922
GPS Coordinates	26º39'43.84"N 82º12'44.74"W
Basic Description	Water is sourced from 2 ground water wells. Reverse Osmosis plant has a blend rate of 6 gpm and finished water is stored in a 100,000 gal ground storage tank.
Population Served and Service Connections.	151 connections, population served: 200
System Owner	Useppa Island Club President – Donald Beckstead
Management Authority	Useppa Island Utilities Company dbeckstead@useppa.com 239-283-1061 x 2630
Name, Title, and Phone Numbers of Person Responsible for Maintaining and Implementing the ERP	Jonathan Schmidt US Water Route Operations Manager Cell: 239-209-7343 Email: jschmidt@uswatercorp.net

System Demand

WTP	
Current Demands	Max Day 92,000 gpd Average Day 35,654 gpd
Design Capacity	63,000 gpd

Well Information

WTP				
Well	**Well ID.**	**Location**	**Well Dia. (in)**	**Depth Drilled**
1	AAD5763	WTP	6"	320'
2	AAD5762	WTP	6"	320'

Location of Pertinent Information

Item	Location
Distribution System Map	Operation and Maintenance Manual kept at the water treatment plant
O&M Manual	Water treatment plant
Start-Up / Shut-Down Procedures	Operation and Maintenance Manual kept at the water treatment plant

High Service Pumps

	Pump	Motor HP	Capacity GPM	Type
WTP	1	10	140	Centrifugal
	2	10	140	Centrifugal

Finished Water Storage

Name of Storage Unit	Total Storage Capacity: 101,000 GPD One 100,000 gal ground storage tank and one 1,000 gal hydropnumatic tank at the WTP.
Location (Street)	
Location (GPS)	
Type (ground, elevated, etc.) & Capacity	

OPERATION AND MAINTENANCE MANUAL

Prepared For:

Useppa Island Club
Water System
8115 Main Street
Bokeelia, FL 33922

PWS ID No. 5360299

Prepared by:

U.S. Water®
Services Corporation

4939 Cross Bayou Boulevard
New Port Richey, Florida 34652

August 2023

INTRODUCTION

This manual is intended to serve as a ready reference to the plant operator on operation and maintenance procedures, as well as preventive maintenance and repair procedures for all plant equipment; to ensure the water supplied is safe for human consumption and that it meets the health based standards and other regulatory requirements.

The manual also contains procedures for notification of state and local regulatory officials on any abnormal operating conditions including breakdown of treatment or disinfection facilities, any security breach, sabotage or other emergencies.

Operation and maintenance procedures will vary with the conditions of the water treatment system. The operations and maintenance personnel will have to adapt the information and procedures in this manual to the particular situation.

Copies of Rules 62-550, 62-555 and 62-602, F.A.C. are also attached to the Manual for reference.

WTP MALFUNCTION / ABNORMAL EVENT REPORT

Please note for accordance with the **Florida Administrative Code (F.A.C.) Rules.** **This form is provided for your convenience only.** **You may complete this form and FAX it to the Wastewater Section at (239) 332-6969 or email to Keith.Kleinmann@dep.state.fl.us. If spill is greater than 1000 gallons you MUST call State Warning Point at 1-800-320-0519.** All items in red below are requirements by rule that must be completed.

FACILITY NAME:		COUNTY: *Lee*	
PERMIT NUMBER:		REPORTER PHONE:	
REPORTER NAME:		METHOD OF CONTACT:	
REPORTER ADDRESS:		RESPONSIBLE PARTY PHONE:	
RESPONSIBLE PARTY:		RESPONSIBLE PARTY ADDRESS:	

DEP: ☐	DATE:	TIME:	PERSON CONTACTED:	
STATE WARNING POINT: ☐	DATE:	TIME:	PERSON CONTACTED:	
OTHER: ☐	DATE:	TIME:	PERSON CONTACTED:	

SPILL INFORMATION

SPILL CHARACTERISTIC	SOURCE		AREA AFFECTED
☐ RAW WASTEWATER	☐ LIFT STATION # _____	☐ SURGE TANK	☐ STORM WATER
☐ EFFLUENT	☐ LINE BREAK	☐ AERATION TANK	☐ SURFACE WATER/ _____
☐ MIXED LIQUOR	☐ FILTER	☐ CLARIFIER	☐ GROUNDWATER
☐ SLUDGE	☐ DISPOSAL SYSTEM	☐ DIGESTER	☒ ON GROUND
☐ OTHER* ***reuse***	☐ OTHER* _____	☐ OTHER* _____	☐ OTHER/ _____

DATE / TIME DISCHARGE OCCURRED: _____

AMOUNT OF DISCHARGE (1) _____ TOTAL GALLONS **OR** (2) _____ ***gallons*** PER ***hour*** FOR _____ ***hours***.

ONGOING: ☐ CEASED: ☐

PHYSICAL LOCATION/ ADDRESS/ OTHER REFERENCE:

MALFUNCTION/CAUSE

		WEATHER
☐ POWER OUTAGE	☐ RAS LINE	☐ LIGHTNING
☐ PUMP FAILURE	☐ LEAK	☐ HEAVY RAINFALL
☐ DISINFECTION SYSTEM FAILURE	☐ SWITCH/TIMER FAILURE	☐ HIGH WINDS
☐ CLARIFIER FAILURE	☐ FILTRATION SYSTEM PROBLEM	☐ TROPICAL STORM: _____
☐ FILTER BYPASS	☐ CLOG OR BLOCKAGE	☐ HURRICANE: _____
☐ BLOWER FAILURE	☐ LINE BREAK	☐ OTHER: _____
☐ OTHER* _____	☐ OTHER* _____	

EXPLAIN:

EFFLUENT LIMIT VIOLATIONS

☐ Cl_2 _____ MG/L	☐ TURBIDITY _____ NTU	☐ PH _____ SU
☐ TSS _____ MG/L	☐ NO_3 _____ MG/L	☐ $CBOD_5$ _____ MG/L
☐ OTHER* _____	☐ FECAL COLIFORMS _____ CFU/100ML	☐ ABNORMAL FLOW _____ MGD

CORRECTIVE / REMEDIAL ACTION BEING TAKEN

☐ AUXILIARY POWER SYSTEM ON-LINE	☐ BACK-UP ON-LINE	☐ NOTIFIED LOCAL AUTHORITIES
☐ DISINFECT WITH _____	☐ SAMPLES TAKEN	☐ NOTIFIED STATE WARNING POINT
☐ BYPASS	☐ RESTORE POWER	☐ NOTIFIED DEP
☐ CONTAINED ON-SITE	☒ REPLACE EQUIPMENT/SUPPLIES	
☐ OTHER* _____	☐ VAC TRUCK/DESTINATION: _____	

REMEDIAL ACTION BEING TAKEN / ESTIMATED TIME FOR COMPLETION OF REPAIRS:

* PLEASE EXPLAIN IN DETAIL IN THE LINE PROVIDED.

EMERGENCY CONTACT LIST

Organization or Department	Name	Telephone	Cell Phone or Fax	E-mail
Lead Operator	Jonathan Schmidt	-	239-209-7343	jschmidt@uswatercorp.net
Regional Manager	Lina Quintero	727-858-2396	239-543-2226	lquintero@uswatercorp.net
Regional Maintenance Manager	Steve Stanton	239-209-6120	239-208-7209	sstanton@uswatercorp.net
State Watch Office	Duty Officer	1-800-320-0519	-	-
County Health Department	Lee County	239-332-9501	-	-
DEP District Office	South District	239-344-5600	850-412-0590	-
County Emergency Management Dept.	Operations Center	863-385-1112	-	-
Local Law Enforcement	Duty Officer	911	911	-
Fire Department	Duty Officer	911	911	-
Emergency Medical Services	Duty Officer	911	911	-
National Spill Response Center	Duty Officer	800-424-8802	800-424-8802	-
American Red Cross	Sebring	863-314-6743	-	-

Instructions:

a. The appropriate DEP District Office has to know as soon as possible about the occurrence of any abnormal color, odor, or taste in the system's raw or finished water.

b. The appropriate DEP District Office has to know as soon as possible about the failure of the system to comply with applicable disinfection requirements.

c. Suppliers of water shall telephone the SWP at 1-800-320-0519 immediately after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving the public water system.

d. Supplier shall notify the appropriate DEP or ACHD about the breakdown of any water treatment or pumping facilities, or the break of any water main in the system.

e. The State Department of Environmental Protection and Health and Rehabilitative Services shall be contacted to insure that steps taken in case of emergency are sufficient to protect the public, and corrective measures are appropriate for any contamination.

SAFETY RELATED EMERGENCIES: 911

HAZARDOUS WATER EMERGENCIES: 911

1.0 System Description

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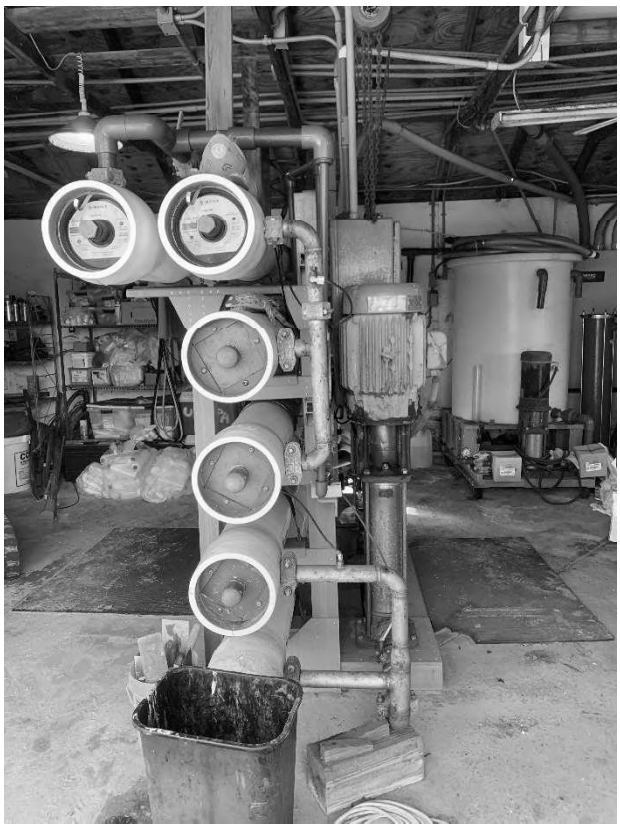
Name, Title, and Phone Numbers of Person Responsible for Maintaining and Implementing the ERP	Jonathan Schmidt US Water Route Operations Manager Cell: 239-209-7343 Email: jschmidt@uswatercorp.net



1.1 Chemicals

Hypo-chlorinated with two 55 gal tanks. The feed rate is 1.75 via a Stenner pump. Chlorine is injected into the degasifier.

1.2 Sampling and Monitoring

All analytical testing is performed by laboratories that have been certified in drinking water by the Florida Department of Health. All on-site tests are performed by an operator certified by the State of Florida.

1.3 Plant Operating Staff

5 visits per week required.

Lead operator shall be available to be contacted during all periods of plant operation to initiate the appropriate action in a timely manner.

Introduction

Maintenance is a continuous job. The water treatment plant maintenance program is an important part of plant operations. The purpose of maintenance is to protect structures and ensure that all equipment will function properly.

System Maintenance

DAILY MAINTEANACE CHECKLIST

- Read meter of each well at about same time and record daily pumpage.
- Inspect the compressor daily.
- Make proper entries to your daily log sheet.
- Collect samples for laboratory analysis, as required.
- Clean outside grounds-trim and cut grass and shrubs as necessary.
- Make sure chlorine is being delivered at proper rate.
- Make sure all other chemicals (if any) are being delivered at proper rate
- All piping should be kept as clean and free of debris as possible.

WEEKLY MAINTENANCE CHECKLIST

- All switches should be checked for dryness and corrosion.
- Clean all chemical injection points once a week.

MONTHLY MAINTENANCE CHECKLIST

- Check safety devices. Repair if necessary.
- Prepare monthly report of operations and laboratory analyses.
- Check all pipe connection between tanks. Fix all leaks.

ANNUAL MAINTENANCE CHECKLIST

- Valves should be exercised at least annually to ensure that they are working on the right way, and they can be repositioned in emergency situations.

- The tanks shall be checked once a year to ensure that hatches are closed and screens are in place.

- Tanks shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.

- Clean all pumps.

- Check all connections.

- Check power and control cables for pumps, nicks and evidence of damage. Replace as necessary.

A well planned and conscientiously implemented preventive maintenance program will apply effective control procedures to detect early symptoms of trouble and help ward off costly major breakdowns and attendant downtime. Such a program is practical, since it encourages economical operation. Above all, such a program results in dependable equipment operation, less downtime, longer equipment life, and lower overall costs. Preventive maintenance of motor controls consists of regularly scheduled inspections, required minor maintenance, and system records for future reference. The exact maintenance requirements and schedules for the pumping system cannot be predicted before installation. The following key factors and maintenance decisions must be weighed when establishing a maintenance program.

a. If a high degree of reliability is required of the equipment, inspections and maintenance procedures should be performed more frequently.

b. Older equipment may require more frequent inspections.

c. Adverse environmental conditions will significantly increase the need for inspection. If the environment is moist or humid, or if the area is subject to salt spray or coastal conditions, inspection should be much more frequent. If the enclosure or building has not heating system or ventilating system, condensation may be a problem requiring more frequent inspection. The use of unfiltered air for ventilation can pose a dust problem if the surrounding area is sandy or dusty.

d. Systems in which pumps and motors are operating continuously, or nearly continuously, should be inspected more frequently than those subject to light or intermittent duty.

e. Maintenance supervisors must weigh the costs of inspections against the cost of failure. Those systems which receive heavier use are more likely to be damaged as a result of failure and attendant flooding then those which receive light use.

f. The experience of maintenance personnel with other electrical equipment under similar conditions should also be considered.

Other items should be added to the checklist as you gain experience with the plant and its peculiarities.

Note: When performing any of the listed checklists, always refer to the included manufacturer's manual for detailed specific instructions.

STANDARD OPERATING PROCEDURES FOR OPERATION OF WATER TREATMENT FACILITIES

1. Plants must be visited during light.

2. Record in the logbook and daily field sheet the time in and out, sign your name and operator's license number.

3. Check all plant equipment to ensure proper operation. Report any equipment malfunctions to the lead operator.

4. Operate the facility within the guidelines of FDEP (Florida Department of Environmental Protection) and the company's operating protocol.

5. Operate emergency generator (if any) in accordance with FDEP auxiliary power requirements, check and record in logbook the weekly generator fuel level. Notify lead operator when fuel level is below ¼ full.

6. Check storage tanks levels periodically.

7. Perform general housekeeping duties such as picking up and disposing of trash and debris.

8. Fill chemical tanks as necessary to provide for uninterrupted chemical dosage.

9. Clean chemical injection points when necessary, but not less than once per week.

10. Lubricate plant equipment as necessary or as directed by the lead operator.

11. Perform compliance sampling in accordance with the company protocol, FDEP and WMD requirements, as well as any requirements from other appropriate regulatory agencies.

12. Notify the regional office (while on site) or regulatory agency of any abnormal events which occur at the facility and record in log book.

13. Verify that required records are maintained on site. For example: Lab Certification, Operator License, Water Use Permit, Operating Permit, Operating Protocol, Bacteriological Sampling Plan, MSDS Sheets, NSF Certifications, etc. Notify lead operator if any records are missing and obtain replacement documents as necessary to insure that all required records are maintained on site.

14. Calibrate chlorine and pH meters and record calibration on instruments in field sheet and in the facility logbook in accordance with FDEP requirements and the company operating protocol.

15. Conduct safety inspections on a regular basis; follow safety rules for plant operations.

16. Communicate effectively with other operators and supervisors on the status of the water system.

17. Record and calculate all ETM run times.

18. Record in the logbook any adjustment to chemical dosages, feed rate, pumping rates or any other operational adjustments.

19. Record the flows in the logbook and daily field sheet for the individual facility operation. For example: potable water, raw water, backwash water, reject flow, recycled flows.

20. Measure and record in the logbook and daily field sheet the following items: Free chlorine residual at the point of entry and the designated remote sampling point.

21. Measure and record in the logbook and daily field sheet the pH at the point of entry.

22. Record pressure reading in the logbook and daily log sheet. For example: Well pressure, reject pressure, concentrate pressure, effluent discharge pressure, etc.

23. Record in the logbook and daily field sheet the air to water ratio of the Hydropneumatic tank and the water levels of the other storage tanks.

PLANT OPERATOR'S DUTIES

- A certified operator is responsible for performing treatment plant operation and maintenance duties in a responsible and professional manner consistent with standard operating practices in order to meet state standards and rules, and to protect public health and the environment. (62-602.650)

- Have familiarity with all aspects of the treatment and distribution operation of the water system.

- Properly operate and maintain the facility and systems of the treatment and control (and related appurtenances) that are installed or used by the supplier of water to achieve and maintain compliance with the conditions of the permit.

- Operation of backup or auxiliary facilities or similar systems to achieve compliance with conditions of the Local Regulatory Agency.

- Be responsible for setting, measuring, and recording of all chemical additions.

- Order chemicals and fill chemical feed tanks as necessary.

- Clean, flush, disinfect and test the water distribution system and storage tanks as needed.

- Review the sample monitoring schedule and locations quarterly.

- Inspect systems within 24 hours of fecal or second Total Coliform positive results or other water system failures.

- Attend all inspections conducted by regulatory agency personnel.

- If for any reason the operator cannot comply with, or will be unable to comply with any conditions or limitations in the operation of the system, he shall immediately notify the owner, in writing of the following:

    a. A description of and cause of the non-compliance.

    b. Period of non-compliance, including exact dates and times or if not corrected, the anticipated time of non-compliance is expected to continue, and steps being taken to eliminate.

- Perform responsible, efficient and effective on-site management and supervision over plant personnel within the operator's responsibility.(62-602.650(1))

- Submit all required reports in the manner required by the Department in Rule or the supplier of water. (62-601.300)

- Report to the supplier of water and the Department of Environmental Protection or the local approved regulatory agency by wire or telephone any serious plant breakdown or condition causing or likely to cause serious, inefficient or unsafe treatment plant operation, or discharge of water or wastewater in a manner not authorized as soon as possible, but no later than within 24 hours following this occurrence or condition. (62-602.650(3))

- Submit accurate reports relative to treatment plant operation, sampling and laboratory analysis.

- Perform preventive maintenance and either repair or request that the responsible authority repair equipment as needed to keep the treatment plant operating as permitted.

- Maintain an operation and maintenance log for each plant, in a location accessible to 24 hour inspection and protected from weather and current to the last operation and maintenance performed. This log may be required to be submitted to the Department and the approved local program on a periodic basis. The log, at a minimum, shall include: identification of the plant, the signature and certification number of the operator; date and time in and out; specific operation and maintenance performed; tests performed and samples taken and major repairs made. (62-602.650(4))

- Records of monitoring information shall include:

  a. The date, exact place, and time of sampling or measurement;

  b. The person responsible for performing the sampling or measurement;

  c. The date(s) analyses were performed;

  d. The person responsible for performing the analyses;

  e. The analytical techniques or methods used; and

  f. The results of such analyses.

- An Operation and Maintenance Manual for this facility should be available at the plant for use by the operation and maintenance personnel. (62-655.350(13))

SAFETY

Introduction

The primary objectives of safety is protecting human health and ensuring good water supply to the consumer. The plant operator should acquaint himself with the hazards associated with plant operation and maintenance, and take the necessary steps to avoid them.

Plant Safety:

1. Security measures shall be installed and instituted as required by the reviewing authority. Such measures, as a minimum, shall include means to lock all exterior doorways, windows, gates and other entrances to source, fencing, signage and alarms.

2. Follow the Company's Lock Out / Tag Out Policy when working on electrical equipment.

3. Check electrical equipment for proper grounding and exposed wires.

4. Practice good housekeeping to help prevent falls.

5. Avoid tripping hazards, keep surrounding area mowed and keep exposed chambers to a minimum while servicing.

6. Fix or replace corroded grates and handrails.

7. Follow the Company's Confined Space Policy.

8. Learn how to properly lift materials and know your limit.

9. Extinguish all cigarettes or other smoking materials before lifting a manhole or wetwell cover.

10. Post "No Smoking" signs where a potential fire hazard exists.

11. Wear safety shoes when working around the plant.

12. Do not remove protective guards on rotating equipment.

13. Close all openings after repairs or replacements are complete.

Human Health:

1. Infection can be prevented by vigilance, personal cleanliness and prevention of any possible cross-connections between drinking water and wastewater or raw water pipes.
2. Do not smoke or eat before washing your hands.
3. Wear protective equipment and clothing when necessary.

Electrical Equipment:

1. Follow the Company's Lock Out / Tag Out Policy when working on electrical equipment.
2. Keep all electrical controls accessible and well marked.
3. Never use metal ladders around electrical equipment.
4. Work in pair around electrical equipment.
5. Handle breaker wires as though they are "live" wires.
6. All electrical cords should be in good condition.
7. Wear protective gloves.
8. When in doubt about operating procedure or repairs, ask for help.

Chlorine:

The plant operator must take certain precautions when handling chlorine. Chlorine is a light, yellow-green liquid with penetrating odor. It is an extremely active chemical element which is damaging to the eyes, mucous membrane, respiratory system, and skin.

1. Do not breathe fumes or mist.
2. Know the location of all safety showers and eye wash facilities.
2. Wash thoroughly after handling any chemical product, before eating or drinking

4. Do no get in eyes or skin, any contaminated clothing should be removed and the skin flushed with water.
5. Use protective gloves like rubber or plastic

6. Use chemical goggles and face shield.

7. Promptly clean up all chemical spills following safe handling procedures.

ODYSSEY
MANUFACTURING CO.

SAFETY DATA SHEET

REVISED 12/01/16

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
Product name: Ultra-CHLOR
Product code(s): 8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
Synonyms: Sodium Hypochlorite Solution, Bleach Solution, Bleach Liquor, Hypo-solution, Bleach, Liquid Bleach
REACH Registration Number: The materials in this product have been registered according to Regulation (EC) 1907/2006.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Uses: Cleaner, Disinfectant, Biocide and Sanitizer
Uses Advised Against: None

1.3 Details of the Supplier and of the Safety Data Sheet (SDS)
Odyssey Manufacturing Co.
1484 Massaro Boulevard
Tampa, Florida 33619
+1-813-635-0339 (24 hours)

1.4 Emergency telephone number:
1-800-ODYSSEY (Florida)
1-813-635-0339 (Outside Florida)
1-813-340-9093 (Control Room Cell Phone)

SECTION II - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture
Classification REGULATION (EC) No 1272/2008
Skin Corrosiveness: 1B; Skin Irritant: 2
Eye Irritant: 2
Aquatic Acute: 1
Description: Clear, greenish-yellow liquid; chlorine-like odor. Irritating to eyes, skin and respiratory system. Can cause burns to all areas contacted.

2.2 Label elements
Labeling Regulation (EC) No 1272/2008
Hazard pictograms

Signal word: **DANGER**
Hazard statements:

H314 – Causes severe skin burns and eye damage
H319 – Causes serious eye irritation
H400 – Very toxic to aquatic life
[Prevention] P260 – Do not breathe dusts or mists.
P264 – Wash hands or any exposed skin areas thoroughly after handling.
P273 – Avoid release to the environment.

P280 – Wear protective gloves/protective/clothing/eye protection/face protection.

[Response]
P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 – Wash contaminated clothing before reuse.
P304 + 340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 – Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 – If eye irritation persists: Get medical advice/attention.
P391 – Collect spillage.

[Storage]
P405 – Store locked up.

[Disposal]
P501 – Dispose of container in accordance with local/regional/national/international regulations.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Risk phrases:
R31 – Contact with acids liberates toxic gas.
R34 – Causes burns.
R36/38 – Irritating to eyes and skin.
R50 – Very toxic to aquatic organisms.

Safety phrases:
S1/2 – Keep locked up and out of the reach of children.
S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 – After contact with skin, wash immediately with plenty of soap-suds.
S37/39 – Wear suitable gloves and eye/face protection.
S45 – In case of accident or if you feel unwell, seek medical advice immediately (Show the label whenever possible).
S50 – Do not mix with acids or other incompatible materials (refer to section 10).
S60 – This material and its container must be disposed of as hazardous waste.

Additional labeling: EUH031 – Contact with acids liberates toxic gas.

SECTION III - COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances
Chemical nature: Sodium hypochlorite, aqueous solution

% by Weight	Ingredient	CAS Number	EC Number	Index Number	EC Classification
10.0 – 20.0	Sodium Hypochlorite	7681-52-9	231-668-3	017-011-00-1	C, R34; R31: N, R50
0.1 – 0.4	Sodium Hydroxide	1310-73-2	215-185-5	011-002-00-6	Xi, 36/38
79.7 89.9	Water	7732-18-5	231-791-2		

3.2 Mixtures - Not applicable

SECTION IV - FIRST AID MEASURES

4.1 Description of first aid measures
Inhalation: If product vapors or mists cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.

Eyes: Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting upper and lower lids. Remove contact lenses after the first 5 minutes and continue washing. Obtain immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash affected area with soap and water. Wash contaminated clothing and shoes thoroughly before reuse. Seek prompt medical attention if rash develops.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes severe eye irritation and burns. Symptoms include redness, pain, itching, burning sensation and tearing. Material is extremely destructive to eyes, mucous membranes and surrounding tissues.

Skin: Causes severe skin irritation and burns. Symptoms include redness, pain, itching and burning sensation. May be harmful if absorbed through the skin.

Inhalation: Vapors and mists may be harmful is inhaled, causing sore throat and cough. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: May cause severe gastrointestinal tract irritation with abdominal pain, burning sensation, cough, diarrhea, sore throat and vomiting. May cause burns and irritation to mucous membranes of the mouth and to tissues of the digestive tract.

Chronic: Repeated or prolonged contact with spray mist may produce chronic eye irritation, severe skin irritation and/or respiratory tract irritation leading to frequent attacks of bronchial infection.

SECTION V - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Material does not burn. Use fire extinguishing media appropriate for surrounding materials.

Unsuitable methods of extinction: None listed

5.2 Special hazards arising from the substance or mixture

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat. During emergency conditions overexposure to toxic decomposition products may cause a health hazard. Fire may cause the evolution of chlorine, hydrogen chloride gas and chlorine oxides. Symptoms may not be immediately apparent. Obtain immediate medical attention.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control run-off water to prevent environmental contamination.

SECTION VI - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors/mists. Avoid contact with skin and eyes. Wear appropriate protective clothing designated in Section 8. Ventilate the area. Evacuate personnel to safe areas.

6.2 Environmental precautions

Avoid dispersal of spilled material or run-off and prevent contact with soil and entry into drains, sewers or waterways. Contain and recover liquid when possible.

6.3 Methods and materials for containment and cleaning up

Cover drains. Cover with a large quantity of inert absorbent (e.g. sand, vermiculite, kitty litter, dry earth). Do not use combustible materials such as saw dust. Collect product using a shovel and place into approved container for proper disposal as hazardous waste. For large spills use water spray to divert vapor drift. Observe possible material restrictions (section 7.2 and 10.5). Clean contaminated area with water. Do not mix with other cleaning agents that may liberate chlorine gas vapors.

US Regulations (CERCLA) require reporting spills and releases to soil water and air in excel of reportable quantities. Reportable quantity (RQ) for hypochlorite solutions is 45.36 kg (100 lbs).

Reportable Quantity (RQ): 100 lbs or 45.36 kg (approximately 100 gal or 378.5 L of Odyssey Ultrachlor 12.5 Trade Percent sodium hypochlorite). In the event of a spill (e.g. defined as any release to the environment), call Odyssey Manufacturing and/or the emergency contact numbers as soon as possible for assistance.

For releases higher than the Reportable Quantity (RQ), you must notify the State Emergency Response Commission at *(800) 320-0519* ***AND the National Response Center at *(800) 424-8802 or (202) 267-2675* ***within 15 minutes***!!!***

In the event of a spill, contact either hazardous chemical response company or Odyssey Manufacturing for assistance.

6.4 Reference to other sections
For indications about waste treatment, see section 13.

SECTION VII - HANDLING AND STORAGE

7.1 Precautions for safe handling
Observe label precautions. Avoid contact with skin and eyes. Wear all appropriate protective equipment specified in Section 8. Wash thoroughly after handling. Keep containers closed when not in use. Use proper equipment for listing and transporting all containers.

Advice on protection against fire and explosion
Material is non-flammable and non-combustible.

7.2 Conditions for safe storage, including any incompatibilities
Keep in cool, dry, ventilated storage areas in closed containers. Protect against physical damage. Isolate from incompatible substances. Do not store near acids, heat, oxidizable materials or organics.

Store in a receptacle equipped with a vent. Transfer only to approved containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Do not take internally. Keep locked up and out of reach of children.

7.3 Specific end uses
Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

SECTION VIII - EXPOSURE CONTROLS AND PERSONNEL PROTECTION

8.1 Control parameters

Components	CAS Number	OSHA	ACGIH	AIHA (WEEL)
Sodium Hypochlorite	7681-52-9	2 mg/m^3 TWA; skin	0.5 ppm as CL_2 TWA; 1 ppm as CL_2 STEL, A4	2 mg/m^3 STEL
Sodium Hydroxide	1310-73-2	2 mg/m^3 TWA	2 mg/m^3 Ceiling	

8.2 Exposure controls
Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. See section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory and at the end of the workday.

Eye/face protection: Wear tightly fitting protective goggles and a face shield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in section 3. Gloves must be inspected prior to use. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Other protective equipment: Wear impervious, protective chemical resistant clothing including boots, gloves, lab coat, apron or coveralls as appropriate to the situation to prevent skin contact.

Respiratory Protection: Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls: Do not empty into drains.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, greenish yellow colored liquid
Odor	Pungent, chlorine-like
Odor Threshold	No data available
Molecular Weight	74.44 (sodium hypochlorite)
Chemical Formula	NaOCl (sodium hypochlorite)
pH	11 – 13
Freezing Point	-13.9° C (7° F)
Initial Boiling Point	100° C (212° F) – lowest known value
Evaporation Rate	<1 (BuAc = 1)
Flammability (solid, gas)	No data available
Flash Point	No data available
Autoignition Temperature	No data available
Decomposition Temperature	110° C (230° F)
Lower Explosive Limit (LEL)	No data available
Upper Explosive Limit (UEL)	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	1.15 – 1.17 g/ml (9.597 – 9.764 lb/gal) @ 60 ° F
Viscosity	No data available
Solubility in Water	Complete
Partition Coefficient: n-octanol/water	No data available
Volatiles by Volume @ 70° F	No data available; decomposes leaving salt solution

9.2 Other data - No data available

SECTION X - STABILITY AND REACTIVITY

10.1 Reactivity

Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition.

10.2 Chemical stability

Stable under recommended storage conditions. Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition. Sodium hypochlorite becomes less toxic with age.

10.3 Possibility of hazardous reactions

Avoid excessive heat and sources of ignition. Flammable hydrogen may be generated from contact with metals such as: aluminum, brass, tin, zinc and alloys of these metals. Avoid contact with acids, halogenated organics, organic nitro compounds and glycols. Hazardous gases may be generated from contact with acids, ammonium hydroxide (aqua ammonia) or cleaners containing ammonia compounds. Violent reactions may occur with some organic compounds. Sodium hypochlorite reacts readily with various reducing sugars (e.g. fructose, galactose, maltose, dry whey solids) to produce carbon monoxide. Precautions should be taken including atmospheric monitoring of the tank to ensure safety of personnel. Hazardous polymerization will not occur.

10.4 Conditions to avoid

Light, heat, air and contact with incompatible materials (see section 10.5).

10.5 Incompatible materials

Ammonia, amines, ammonium salts, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, organic materials, oxidizable metals/powdered metals, acids, soaps and bisulfates. Forms shock-sensitive mixtures with certain other materials.

10.6 Hazardous decomposition products

Thermal decomposition products include chlorine gas, hydrogen chloride gas, hydrochloric acid, sodium oxide. Decomposition rate increases with temperature.

SECTION XI - TOXILOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity (Sodium Hypochlorite)

TDLo - 1gm/ kg oral (woman)
TDLo - 45mg/kg intravenous (man)
LD_{50} - 5,800 mg/kg (mouse)
LD_{50} - 140 mg/kg - 9 week(s) continuous oral (rat)

Acute inhalation toxicity

May cause severe bronchial irritation, sore throat with possible blistering, coughing, stomatitis, nausea, labored breathing, shortness of breath and pulmonary edema. 10-20 mg/m3 causes burning of the nose and throat; 40-60 mg/m3 may be fatal. If sufficient amounts are absorbed, may cause effects as detailed in acute ingestion.

Acute dermal toxicity

Extent of damage depends on concentration, pH, and volume of solution and duration of contact. May cause redness, pain, blistering, itchy eczema and chemical burns. Sensitization reactions are possible in previously exposed persons.

Skin irritation

Skin irritation - 24 h (Rabbit)

Eye irritation

Rabbit, Adult – 10 mg, moderate irritation

May cause redness, pain, and blurred vision. Solutions of 5% splashed in human eyes have caused a burning sensation and later only slight superficial disturbance of the corneal epithelium which cleared completely in the next day or two without special treatment. However, one animal study reports a 5% solution causing only moderate irritation with clearing within 7 days. A higher concentration of 15% tested on rabbit eyes caused immediate severe pain, hemorrhages, rapid onset of ground-glass appearance of the corneal epithelium, moderate bluish edema of the whole cornea, chemosis and discharge for several days. Such eyes have sometimes healed in 2-3 weeks with slight or no residual corneal damage but they had neovascularization of the conjunctiva and distortion of the nictitating membrane by scarring.

Sensitization

May cause allergic skin reaction

Genotoxicity in vitro

No data available

Mutagenicity

Mutation in micro organisms – Salmonella typhimurium 1mg / plate (-S9)
DNA repair – Escherichiacoli 20 µg/ disc;
DNA damage – Esoherichiacoli 420 µmol/L;
Phage inhibition capacity – Esoherichiacoli 103 µg/ well
Micronucleus test - non-mammalian species multiple 200 ppb
Cytogenetic analysis - non-mammalian species multiple 120 µg/ L
Cytogenetic analysis – human lymphocyte 100 ppm 24hour(s)
Sister chromatid exchange – human embryo 149 mg/ L

Cytogenetic analysis – hamster lung 100 mg/ L

Aspiration hazard

No test data available. Risk of serious damage to lungs by aspiration.

Specific organ toxicity - single exposure

No data available

Specific organ toxicity - repeated exposure

May cause allergic skin reactions, dermatitis (allergic and contact) and asthma or bronchitis. Sensitization reactions are reported in individuals who are exposed in small amounts through their water supply. High doses have caused sperm abnormality in mice.

Additional information

RTECS: Not available

11.2 Further information

Ingestion: May cause irritation and erosion of the mucous membranes, vomiting (possibly bloody) and abdominal pain and spasms. A drop in blood pressure, shallow respiration, edema (possibly severe) of pharynx, larynx, and glottis, confusion, convulsions, delirium and coma may occur. Cyanosis and circulatory collapse are possible. Esophageal or gastric perforation and strictures are rare. Death may occur, usually due to complications of severe local injury such as toxemia, shock, perforations, hemorrhage, infection and obstruction. Massive ingestions may produce fatal hyperchloremic metabolic acidosis or aspiration pneumonitis.

Further data: Handle in accordance with good industrial hygiene and safety practice.

Chronic Effects

Persons with impaired respiratory function may be more susceptible to the effects of this substance.

Sodium Hypochlorite (hypochlorite salts) is listed by IARC as a Group 3 Carcinogen – Not classifiable as to its carcinogenicity to humans. Sodium Hydroxide is not listed by IARC. None of the components of this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA. No data is available regarding its mutagenicity and/or teratogenicity of this material, nor is there any available data that indicates it causes adverse developmental and/or fertility effects.

SECTION XII - ECOLOGICAL INFORMATION

12.1 Toxicity Aquatic Ecotoxicity:

This product is very toxic to aquatic organisms.

Aquatic Ecotoxicity:

Acute and prolonged toxicity to fish:	LC_{50} – Pimephales promelas (Fathead minnow) 96 h: 0.22 – 0.62 mg/L
	LC_{50} – Oncorhynchus clarki (Cutthroat trout) 96 h: 0.94 µg/L (mortality)
Acute toxicity to aquatic invertebrates:	EC_{50} – Daphnia magna (Water flea), 96 h: 2.1 mg/L
	LC_{50} – Protozoan phylum (Protozoa), 7 h: 31.6 µg/L
Acute toxicity to aquatic plants:	LC_{50} – Algae, phytoplankton, algai mat (Algae), 96 h: 90 µg/L (mortality)
	EC_{50} – Desmodesmus subspicatus (Green algae), 24 h: 28 mg/L
Acute phytotoxicity, aquatic plants:	Biomass reduction – Potamogeton crispus (Curled pond weed), 35h: 23 µg/L
Acute toxicity, miscellaneous aquatic:	Chlorophyll Threshold, Aquatic community, 28 d: 2.1 µg/L

12.2 Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulation potential

Partition coefficient, n-octanol in water: Data not available

Bioaccumulation is not expected

12.4 Mobility in soil

Product is mobile in water.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment is not available as chemical safety assessment was not conducted.

12.6 Other adverse effects

Additional ecological information

This material is a very toxic to aquatic life. Do not allow material to run into surface waters, wastewater or soil.

SECTION XIII - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The generation of waste should be avoided or minimized whenever possible. This material is subject to disposal regulations under U.S. EPA 40 CFR Parts 261 and 262. Container should be disposed of in a safe way as empty containers may contain product residue. Leave chemicals in original containers. No mixing with other waste. Handle unclean containers like the product itself. Incinerate in an approved facility. Do not incinerate closed container. Dispose of in accordance with the Directive 2008/98/EC as well as other national, federal, state/provincial and local laws and regulations.

No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION XIV - TRANSPORT INFORMATION

US DOT (Domestic Ground Transportation)

Proper Shipping Name:	Hypochlorite Solutions
Hazard Class:	8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
Packing Group:	III
NAERG:	Guide #157
Packaging Authorizations:	Non-Bulk: 49 CFR 173.203; Bulk: 49 CFR 173.241
Packaging Exceptions:	49 CFR 173.154

IMO/IMDG (Water Transportation)

Proper Shipping Name:	Hypochlorite Solutions
Hazard Class:	8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
UN/NA#:	UN1791
Packing Group:	III
Marine Pollutant:	NO
EMS Number:	F-A, S-B

ICAO/IATA (Air Transportation)

Proper Shipping Name:	Hypochlorite Solutions
Hazard Class:	8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
UN/NA#:	UN1791
Packing Group:	III
Quantity Limitations:	49 CFR 175.75 - Cargo Aircraft Only: 60L Passenger Aircraft: 5L

RID/ADR (Rail Transportation)

Proper Shipping Name:	Hypochlorite Solutions
Hazard Class:	8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
UN/NA#:	UN1791
Packing Group:	III

Marine Pollutant: Yes (Refer to Refer to 171.4 and 172.322 for further guidance)
Signal Word: DANGER
Hazard Symbols: GHS05, GHS09 (GHS); C, N (EEC)

SECTION XV - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material contains "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA PSM: Not regulated under OSHA Process Safety Management Standard (PSM) 29 CFR 1910.119

EPA RMP: Not regulated under EPA Risk Management Standard (RMP) 40 CFR Part 68

EPA FIFRA: This product is a registered Pesticide under the Federal insecticide, Fungicide and Rodenticide Act (FIFRA) 40 CFR Part 150

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This product not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: This product is subject to the reporting requirements of Section 311/312 of the Emergency Planning and Community Right-to Know Act of 1986.

Acute: Yes **Chronic:** No **Fire:** No **Reactive:** No

SARA 313 Information: None of the chemicals in this product exceed the threshold (de minimis) reporting levels established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substances:

Sodium Hypochlorite (CAS # 7681-52-9), RQ – 45.36 kg (100 lbs)

Sodium Hydroxide (CAS # 1310-73-2), RQ – 453.59 kg (1,000 lbs)

**Special Note: The Reportable Quantity (RQ) of Ultra-CHLOR Solution is approximately 100 gallons*

Clean Air Act (CAA)

This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

Sodium hypochlorite, sodium hydroxide and hypochlorite solutions are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains no chemical(s) known to the state of California to cause cancer or other reproductive harm.

Other U.S. State Inventories:

Sodium hypochlorite (CAS #7681-52-9) is found on the following State Hazardous Substance Inventories and/or Right-to-Know lists: CA, DE, MA, MN, NY, NJ, PA.

Sodium hydroxide (CAS #1310-73-2) is found on the following State Hazardous Substance Inventories and/or Right-to-Know lists: CA, DE, ID, MA, MN, NY, NJ, PA, WA, WI .

Canada

WHMIS Hazard Symbol and Classification:

Class E – Corrosive material – Corrosive to skin

Canadian Controlled Products Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian Ingredient Disclosure List (IDL): Sodium hypochlorite and sodium hydroxide are listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): None of the ingredients in this product are listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 2

Chemical Inventory Lists

Country	Inventory Name	Inventory Listing*
United States	Toxic Substance Control Act (TSCA)	Yes
Canada	Domestic Substance List (DSL).	Yes
Canada	Non-Domestic Substance List (NDSL)	Yes
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*"Yes" indicates that all components of this product are in compliance with the inventory requirements administered by the governing country.
*"No" indicates that one or more components of this product are not on the inventory and are not exempt from listing.

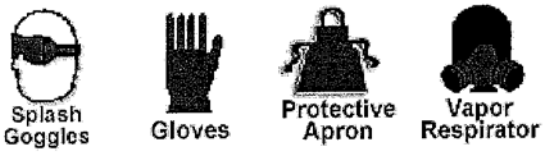
SECTION XVI - OTHER INFORMATION

Hazardous Material Information System (HMIS)

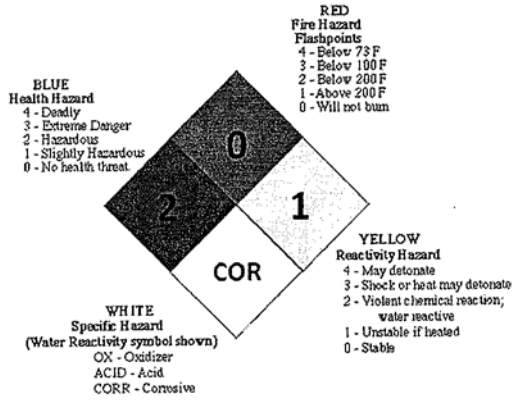
HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	H

HMIS / NFPA Hazard Rating Legend

* = Chronic Health Hazard	2 = MODERATE
0 = INSIGNIFICANT	3 = HIGH
1 = SLIGHT	4 = EXTREME



National Fire Protection Association (NFPA)



For additional information, contact our technical service department.

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Odyssey Manufacturing in connection with the use of this information.

MOTOR SERVICING

LUBRICATION

Excessive lubrication can damage electric motors. Lubricate the motors only in accordance with the guidelines contained in the motor instructions.

MOTOR REMOVAL AND INSTALLATION

Motor removal procedure varies with the type of enclosure provided.

WARNING

This equipment is under automatic control. It can start without warning unless precautions are taken to de-energize electrical circuits. The equipment contains more than one source of power. More than one disconnect is required to completely de energize the equipment for servicing.

a De-energize the electrical circuits to the motor by opening the related pump motor branch circuit and turning off other controls. Tag and padlock the control to prevent accidental startup by other maintenance personnel.

b. Remove the cover from the motor conduit box and disconnect the leads in the box. Disconnect the conduit which interconnects the control panel and the motor conduit box.

c Remove the belt guard and loosen the bolts that tension the drive belt to provide sufficient slack to permit belt removal.

d Use a rope sling around the motor and support the weight of the motor with a crane, hoist, or tow truck cable.

e. Remove the bolts and nuts which secure the motor to the mounting base. Hoist the motor from the mounting base.

f. Reinstallation of the motor is the reverse of removal. After making electrical connections, and before installing the belt(s), check direction of motor rotation to ensure that it coincides with the required direction of the pump. If necessary, disconnect power and interchange any two line leads if motor direction is incorrect. After installation make sure that the V-belts are properly aligned and tensioned.

MOTOR CONTROL PREVENTIVE MAINTENANCE GUIDE

WHAT TO INSPECT	WHAT TO INSPECT FOR
• Exterior and Surroundings	• Dust, grease, oil, high temperature, rust and corrosion, mechanical damage, condition of gaskets.
• Interior of Enclosure	• Same as above, plus inspect for loosened nuts, bolts and other mechanical connections.
• Contactors, Relays, and Solenoids	• Check control circuit voltage, inspect for excessive heating of parts evidenced by discoloration of metal, charred insulation or odor, check freedom of moving parts, remove dust, grease, and corrosion, tighten loose connections.
• Contact Tips	• Check for excessive pitting and roughness. Do not file silver contacts.
• Springs	• Check contact pressure. Pressure must be the same on all tips.
• Flexible Leads	• Look for frayed or broken strands. Be sure lead is flexible, not brittle.
• Arc Chutes	• Check for breaks or burning.
• Bearings	• Check for freedom of movement.
• Coils	• Look for signs of overheating, charred insulation, or mechanical injury.
• Magnets	• Clean faces. Check shading coil. Check for misalignment bonding.
• Fuses and Fuse Clips	• Check for proper rating. Check fuses clip pressure.

• Overload Relays	• Check for proper heater size. Tighten heater coil connection. Inspect for dirt and corrosion.
• Push-button and Selector	• Check contacts. Inspect for dirt, grease, and corrosion switches, and Pilot Devices.
• Dashpot-type Timer	• Check for freedom of movement.
• Resistors	• Check for signs of overheating. Tighten loose connection. Tighten sliders.
• Connections	• Tighten main line and control conductor connections. Look for discoloration of current carrying parts.
• Control Operation	• Check sequence of operation of control relays. Check contactors for flash when closing, and adjust to eliminate contact bounce if necessary. Check pressure switches, temperature switches, etc.

Warning

The electrical power supplied to this equipment is high enough to cause injury or death. Take care to prevent contact with electrical circuits when performing maintenance, troubleshooting, or repair. Disconnect power before connecting, or servicing electrical components. Check to ensure circuits are dead before making physical contact with current carrying parts.

Personal safety is a primary consideration when servicing motor controllers. Always observe all standard safety precautions. When adjusting or repairing a control, be sure the supply voltage has been removed from the motor starter. Tag operating handles, remove fuses or lock out circuit breakers personally. Never rely on others for these procedures where your safety is concerned. Always use proper safety equipment and tools, and have protective equipment (rubber gloves, mats, grounding sticks, etc.). Check periodically to ensure that proper insulation levels are maintained. Also make sure all control safety interlocks are functional, and that equipment ground connections are tight.

CONTROL CABINETS

Keep control enclosures free of dust or any grease on the face of the panel as well as inside. Dirt can cause faulty relay operation and can be a source of corrosion of metal parts. Connecting wires coming from conduits and cable should be neatly arranged at terminating points, and laced into a fanned cable for troubleshooting or replacement of circuits.

CLEANING

Keep motor controls clean. Dust, dirt, and grease must be removed periodically from the controller. Dust or grease can become lodged in auxiliary relay contacts or interlocks and may prevent a circuit from functioning. In addition, dust may contain conducting materials, which could form unwanted circuit paths resulting in current leakage or possible grounds or short circuits. Blow out dust with dry compressed air, and check the surrounding area for sources of dust, oil, or corrosive vapors.

MECHANICAL PARTS

Moving mechanical parts should operate easily without binding or excessive friction. Check operation of each contactor and relay by hand and, at the same time, look for loose pins, bolts, or bearing. Do not lubricate bearings. Bearings on electrical controls are designed to operate without lubrication. Oil or grease on the bearings will cause dirt to accumulate, resulting in sluggish action and possible failure.

Check terminal screws for tightness, since loose connections may develop at any time. Check main line connections and control connections on a regularly scheduled basis.

CONTACTORS

Contactors need the most attention. Be sure contact springs maintain the proper contact pressure. If contacts are allowed to wear too thin, spring pressure decreases and overheating of the contacts results. Check spring pressures. If pressure at one pole is considerably lower than that at the other poles, the spring is weakened and should be replaced.

Do not file silver contacts except in extreme cases when they become severely roughened. Silver oxide, which sometimes forms on the contact surfaces, does not have to be removed because it is a good conductor.

COILS

Operating coils for AC contactors function satisfactorily over a range of 85 to 110 percent of their rated voltage. Higher voltages will cause coils to operate at a higher temperature, which results in a shorter coil life. In addition, the contactor or relay will operate with unnecessary force causing more mechanical wear and bounce when closing.

An excessively low voltage supply to a coil causes contactors and relays to operate sluggishly. Because of the weakened magnetic force, contacts may not "make" firmly, which could result in overheating and welding together of contacts. Also, if the voltage is too low to allow complete closure of a contactor or if the contactor or relay is blocked open, the coil will draw an excessively high current resulting in coil burn-out.

OVERLOAD RELAYS

In general, maintenance requirements for overload relays include checking that heater elements are tight and that the relay will operate dependably when necessary. To ensure reliable operation, relays should be tested and calibrated every one to three years. Special equipment is required for testing and an outside service company should be called in to perform the relay tests.

FUSES

Important steps in fuse maintenance include a periodic check of fuse clips to make sure that ferrules are in good contact with clips. Also look for corrosion or overheating at fuse clips. Hot fuses or clips usually indicate either poor contact or an overloaded fuse that may be close to blowing. Keep a supply of fuses of proper ratings on hand for fast replacement of blown fuses.

CIRCUIT BREAKERS

Molded-case circuit breakers require little maintenance. They should be kept free of dust and grime to ensure proper mechanical operation. Inspect circuit breakers regularly, including dynamic tests. Check the tightness of all connections. Every three or four years, check operating trip settings with special load-testing instruments. These tests are often performed by electrical maintenance contractors or special service organizations. When these tests are performed, it is advisable to load-test overload relays.

MOTOR CONTROL TROUBLESHOOTING

GENERAL

Troubleshooting modern motor controls can be a tedious, time-consuming procedure, or it can be as simple as A-B-C. The difference lies in the approach. When trouble occurs in a motor controller, the electrician may hunt and peck trying to find the difficulty in a disorganized fashion. As a result, the motor starter, the pump motor, and all related systems suffer excessive downtime causing general dissatisfaction. On the other hand, a practical systematic approach is the key to consistent, effective troubleshooting.

Although successful troubleshooting of motor control circuits is possible without a full understanding of the circuitry, consistent rapid troubleshooting is dependent on a thorough understanding of its operation. Also, a general knowledge of motor controllers is essential. This includes a working knowledge of types available, their applications, characteristics, and considerations such as proper installations, National Electrical Code requirements, rating, types of enclosures, etc.

TROUBLESHOOTING THE ELECTRICAL SYSTEM

SYMPTOMS	POSSIBLE CAUSE	REMEDY
Motor Fails to Star	• Motor breaker and/or control breaker tripped	• Check and reset breaker
	• Overload tripped	• Check and reset overload relay in starter
	• Improper current supp	• Check to see that power supplied agrees with motor nameplates; if power does not agree, make necessary changes to have motor nameplate and incoming power agree
	• Open circuit in winding switch or repulsion induction brushes; check and connections	• Indicated by humming sound when starting switches closed; motors may spark at repair loose wiring starting switch inside; also, see if motor is closed
	• Mechanical failure	• Check to see if motor and drive turn freely; check bearings and lubrication
	• Short circuited starter	• Indicated by tripped breaker; motor must be rewound
	• Poor starter coil connections	• Remove end bells, locate with test lamp and repair
	• Rotor defective	• Look for broken bars or end rings
	• Motor may be overloaded	• Reduce load
	• If three phase, one phase may be open	• Check lines for open phase
	• Defective capacitor	• Check for short circuit, grounded, or open capacitor, and replace as necessary
	• Worn or sticking brushes on repulsion induction motors	• Check for wear and correct brush pressure; clean commutator if dirty
	• Starter heaters	• Check starter heaters and reset
	• Hand off switch	• Switch for automatic to manual; if manual OK, check control circuit breaker
	• Time clock	• Check time clock settings and control circuits
	• Loss of Supply Voltage	• Check voltage across all phases above circuit breakers
	• Pump motor branch circuit breaker open or tripped	• Check voltage below circuit breakers (all phases) with circuit breakers closed
	• Defective starter	• Select manual operation and check voltage across starter coil; if correct voltage is measured, control circuit is open (Also check with switch in auto)
	• Loose or poor connections	• Make visual inspection of all connections in control circuit or make spot circuit checks
	• Poor contact	• Open circuit breaker, close magnetic switch by hand and examine contactors and springs

SYMPTOMS	POSSIBLE CAUSE	REMEDY
(Continued) **Motor Fails to Start**	• Open line circuit in pump motor branch circuit	• Check voltage at T1-T2-T3; check magnet contact
	• Open circuit in pump motor branch circuit	• Check voltage at motor leads
	• Leads improperly connected	• Check lead numbers and connections
Motor Stalls	• Overloaded motor	• Reduce load
	• Low motor voltage	• Maintain nameplate voltage
Motor Runs and Then Dies Down	• Power failure	• Check for and repair loose connections to line, to breaker, and to control
Motor Does Not Come Up To Speed	• Starting load too high	• Check load motor is supposed to carry at start and reduce if necessary
	• Open primary circuit	• Locate fault with test equipment and repair
	• Low or incorrect voltage	• Check voltage at T1, T2, and T3 in control panel and at motor leads
	• Incorrect connection at motor	• Check for proper lead connections at motor, compare with connection diagram on motor
	• Mechanical overload	• Check impeller setting. Check for a locked or tight shaft
	• Hydraulic overload	• Check impeller setting. Check GPM against pump capacity and head
Motor Takes To Long To Accelerate	• Excess loading	• Reduce load
	• Poor circuit	• Check for high resistance and repair
	• Defective squirrel cage rotor	• Replace with new rotor
	• Applied voltage too low	• Have power company to increase power tap
Motor Has Wrong Rotation	• Wrong sequence of phases	• Reverse connections (two of the three) at the **Direction of** motor or at the starter
Heaters Burning	• Motor overloaded	• Check mufflers for obstruction; Check pumps or blowers for binding or rust accumulation
Motor Runs Hot	• Inadequate ventilation	• Ensure adequate supply of fresh air; Check air blast through motor by feeling air discharge at the bottom of motor
	• Overload	• Check load with ammeter
	• Unbalanced supply voltage	• Check supply voltage phases with voltmeter

SYMPTOMS	POSSIBLE CAUSE	REMEDY

Motor Vibrates	• Pulleys misaligned	• Check pulley alignment
•	Worn lineshaft bearings or	• Disconnect motor from pump and run motor
•	Hydraulic disturbance in	• Check isolation joint in discharge piping near
•	Cavitation at pump suction due to insufficient NPSHA	• Alter installation to (Net Positive Suction Head Available)
•	Impeller out of balance •	Check mechanical (static) balance
•	Pump and motor misalign-ment	• Realign pump and motor
•	Obstruction in pump impeller	• Remove obstruction
•	Worn pump bearings	• Replace bearings
•	Impeller imbalance due to wear or corrosion	• Replace impeller
•	Motor imbalance	• Replace motor
•	Baseplate loose on strength to support the load	• Tighten baseplate or replace or strengthen
Motor Noisy	• Worn thrust bearing	• Remove dust cover, rotate rotor by hand and make visual examination of balls and races. (Bearing noise is usually accompanied by a high frequency vibration)
•	Electrical noise	• Most motors are electrically noisy during the starting period; This noise should diminish as motor reaches full speed
•	Pump and motor misalign-ment	• Realign pump and motor
•	Pump cavitation	• Increase NPSHA
•	Baseplate loose or not grouted •	Remove baseplate
•	Worn pump bearings •	• Replace pump bearings
•	Motor bearings worn or fan rubs housing	• Replace motor bearings or adjust housing
•	Foreign matter in pump •	Remove foreign matter
•	Broken shaft	• Replace shaft
•	Liquid velocity in pump or valves due to greater liquid flow than anticipated	• Enlarge piping
•	Pump impeller imbalance due to wear	• Replace impeller
Contacts Chatter	• Broken pole shader	• Replace
•	Poor contact in control circuit	• Improve contact
•	Low voltage	• Correct voltage condition; Check momentary voltage dip during starting
Contacts Welding Freezing	• Abnormal inrush of current	• Check for grounds, shorts, or excessive motor **or** load current
•	Insufficient tip pressure •	Replace contact springs, check contact carrier for damage

SYMPTOMS	**POSSIBLE CAUSE**	**REMEDY**

(Continued)

Contacts Welding Freezing	• Low voltage preventing magnet from sealing	• Correct Voltage condition; Check momentary **or** voltage dip during starting
•	Short circuit	• Remove short fault and check to be sure fuse or breaker size is correct
Short Contact Life or Overheating of Tips	• Filing or dressing	• Do not file silver-faced contacts; Rough spots discoloration will not harm contacts
•	Interrupting excessively	• Check for grounds, shorts, or excessive motor
•	Weak contact pressure	• Adjust or replace contact spring
•	Dirt or foreign matter on contact surface	• Clean Contacts
•	Short circuits	• Remove short fault and check for proper fuse or breaker size
•	Loose connection	• Clean and tighten
•	Sustained overload	• Check for excessive load current
Short Contact Life or Overheating of Tips	• Filing or dressing	• Do not file silver-faced contacts. Rough spots or discoloration will not harm contacts
•	Interrupting excessively	• Check for grounds, shorts, or excessive motor
•	Weak contact pressure	• Adjust or replace contact spring
•	Dirt or foreign matter on contact surface	• Clean Contacts
•	Short circuits	• Remove short fault and check for proper fuse or breaker size
•	Loose connection	• Clean and tighten
•	Sustained overload	• Check for excessive load current
Overheated Coil	• Overvoltage or high	• Check voltage. Improve ventilation around
•	Shorted turns caused by mechanical damage or corrosion	• Replace coil
•	Undervoltage or failure of magnet to seal in	• Correct system voltage
•	Dirt or rust on pole faces, increasing air gap	• Clean pole faces
Overload Relays	• Sustained overload	• Check for grounds, shorts or excessive motor **Tripping**
•	Loose connection on load wires	• Clean and tighten
•	Incorrect heater	• Relay should be replaced with correct size heater unit

SYMPTOMS	POSSIBLE CAUSE	REMEDY
Overload Relays Fail To Trip Causing Motor Burn-Out	• Mechanical binding, dirt, corrosion, etc.	• Clean or replace
	• Wrong heater, or heaters omitted and jumper wires used	• Check ratings. Install proper heater unit
	• Motor and relay in different	• Adjust relay rating accordingly or make
Noisy Magnet (Humming)	• Broken shading coil	• Replace shading coil
	• Magnet faces not mating	• Replace magnet assembly or realign
	• Dirt or rust on magnet faces	• Clean or realign
	• Low voltage	• Check system voltage and voltage dips during starting
Failure To Pick-Up and Seal	• Gummy substance on pole faces	• Clean pole faces
	• Voltage not removed	• Check coil circuit
	• Worn or rusted parts causing binding	• Replace parts
	• Residual magnetism due to lack of air gap in magnet path	• Replace work magnet parts

TROUBLESHOOTING THE PUMPS

Symptoms	Possible Cause	Remedy
Both Pumps Fail To Start In Either Automatic or manual Mode	• Utility power failure • Control circuit breaker tripped or switch fuse blown • Both motor overload relays	• Notify power company • Correct cause of overload; Reset circuit breaker or replace fuse • Check line conditions and report to power Company if out of range, or check pump impeller for clogging; After correction, reset relays and restart operation
Both Pumps Fail To Start In Automatic Mode	• Loose connections in control circuit wiring • Defective relay	• Tighten connections • Replace relay
One Pump Operates But Other Fails To Run In Either Manual or Automatic Mode	• Loose connections • Motor overload relay tripped • Pump motor circuit breaker • Defective mode selector • Defective pump motor	• Tighten connections • Correct cause of overload and reset overload relay • Correct cause of fault and reset circuit breaker • Replace switch • Repair or replace motor
One Pump Operate Other Fails To Run In Automatic Mode	• Mode selector switch not in AUTO • One pump selected as lead • Loose Connections • Pump alternation device defective	• Change position of switch to AUTO • Turn pump sequence selector switch to select • Tighten connections • Replace alternation device
Pump Starts, Run Short a While, Then Stops Though Liquid Level In Wet Well Remains High	• Pump jammed with debris causing overload condition • Defective pump bearings or seals causing overload • Defective pump motor causing overload	• Free jammed pumps • Replace pump bearings and/or seals • Replace pump motor
Both Pumps Run Continuously Though Wet Well Is Empty	• Mode selector switches in HAND position • Floats tangled or hung up	• Place switches in AUTO position • Untangle floats
One Pump Runs Continuously Through Wet Well Is Empty	• One Mode selector switch Is In Hand Position • Floats Tangled or hung up	• Place switch in AUTO Position • Free float

Symptoms	Possible Cause	Remedy
Pump Motor Runs But Pump Fails To Deliver Rated Discharge	• V-belt loose or broken • Pump not primed • Pump or piping clogged • Suction leak	• Adjust or replace • Prime pump • Clean debris from pump and piping • Correct leak in suction piping
Pumps Fail To Alternate	• One mode selector switch is not properly positioned	• Position both switches to AUTO
	• Motor overload relay of one motor is tripped	• Correct cause of overload and reset relay
	• One pump motor circuit breaker open or tripped	• Close circuit breaker or correct cause of fault open and reset
	• Loose connection	• Tighten connections
	• One pump selected as lead pump each cycle	• Turn pump sequence selector switch to select automatic alternation
	• Pump alternation device defective	• Repair or replace alternation device
Pumps Start And Stop At Wrong Wet Well Levels	• Wet well levels are improperly adjusted	• Adjust float levels
Pump Takes Too Much Power	• Speed too high	• Compare pump and motor nameplates
	• Head is lower than rating; Too much liquid pumped	• Check system requirements
	• Liquid specific gravity or viscosity greater than expected	• Requires a larger motor
	• Pump and driver misalign-	• Check casing for pipe strain. Support piping
	• Wrong direction of rotation	
	• Electric defects	• Check power supply
	• Impeller oversized for system requirements	
	• Partial freezing or thickening of liquid when pumped	• Check liquid characteristics • Mechanical defect - bent pump shaft
	• Impeller binds in casing	• Check impeller adjustment
	• Stuffing box packing too tight	• See packing
Pump Does Not Run In Hand or Auto Position	• Bad breakers and/or fuses	• Reset or replace
	• Incoming power not meeting voltage and phase on panel nameplate	• Check incoming power
	• Overload relay tripped	• Reset
	• Bearing temperature switch	• Check heat sensor continuity and check high

Symptoms	Possible Cause	Remedy

(Continued)

Pump Does Not Run In Hand or Auto Position	• Phase/voltage monitor tripped	
•	Wiring of pump to control panel does not agree with schematic	• Rewire to model schematic
•	Wiring, contacts and terminal connections interrupted	• Check for continuity
•	Bad timers	• Check operation of all timers
Pump Runs in Auto But Not Hand	• H-O-A switch wiring not connected	• Check continuity
Pump Run in Hand But Not Auto	• H-O-A switch in improper position	• Put in proper position
•	Floats may be miswired to	• Check float type (N.O. or N.C.) and hook up by referring panel to the schematic. If the start and stop floats are hooked in reverse, pump will short cycle and will not pump the level down
•	No power to floats	• Check power to floats
Pump Runs But Light Does Not Energize	• Bad bulb	• Check bulb or loose wiring
Pump Runs But Does Not Pump Down Retention Area	• Pump rotation may be wrong	• Check wiring of pump to control panel. May be reverse sequence
	• Impeller may be dragging in volute due to solids. High amperage draw would identify this	
Severe Humming/ Chattering of Contactors & Control Relays	• May be low voltage	• Check voltage at primary and secondary of control condition may even cause severe chattering and burn out of relays
•	Contactor may have dust around magnet of coil structure	• Dry or clean as required
•	Not enough voltage to control panel voltage	• Contactors require a minimum of 85% full to pull in without chatter. If problem is chronic, measure voltage with a recorder on a 24 hour
•	Floats may be in turbulent area	• Make sure floats are away from areas of turbulence

(Continued) **Severe Humming/ Chattering of Contactors & Control Relays**	• Moisture in junction box may cause relays to energize intermittently	• Dry out junction box
Short Cycling Pump	• Water level in system may not be high enough to floats manually	• Check float controls (primary "All Pumps Off" and "repeat cycle timer"). Turn off power. Use V-O-M open, the float is stuck, bad or wiring connection are loose. If no V-O-M is available, use a jumper across each set of terminal connections (All Off, etc.), one at a time. Apply power, if pump(s) work, the problem is that the float being tested is stuck, bad, or wiring connections are loose.
Tripping of Overload on Motor Starters or Circuit Breakers	• Tripped breakers • Incorrect pump draw • Impeller may be locked up due to excessive debris or solids • Fault on windings. Possible motor failure • Pump may be miswired to terminal block • Voltage and current unbalance (Three phase only). Voltage unbalance on three phase power sources can cause motor current to become unbalanced and excessive heating will result. Tripping of the overload protectors and premature motor failure can be expected if the current unbalance exceeds five percent.	• Check all reset buttons and tripped breakers • Check pump draw with ammeter and compare to nameplate amps on pump • Clean as required

FORMULA

$$\text{Percent Current Unbalance} = \frac{\text{Maximum Current Difference From Average Current}}{\text{Average Current}} \times 100$$

To Determine if the motor's current unbalance is a function of the motor or the power supply:

1. **TURN OFF POWER.** Label the leads and the terminals 1,2, and 3 respectively.
2. **TURN ON POWER AND PUMP.** Record the amperage for each lead.
3. **TURN OFF POWER.** Move each lead to next terminal (1 to 2, 2 to 3, 3 to 1).
4. **TURN ON POWER AND PUMP.** Again read the amperage of each leg.
5. **TURN OFF POWER.** Move each lead to the next terminal (1 to 3, 3 to 1, 3 to 2).
6. **TURN ON POWER AND PUMP.** Again read the amperage of each lead.
7. If the unbalance moves with the motor leads, the unbalance is caused by the motor. If the unbalance remains with the terminals, the problem is in the power supply.
8. Connect leads for the lowest percent of current unbalance.

U.S. Water Services Corporation

Water and Wastewater Operations, Maintenance, Engineering, Management

PROJECT:

PWS ID No.:

PROJECT No.:

BY:

ENGINEER:

DATE:

TANK INSPECTION FORM

Facility:

Owner:

Owner Address:

Contact Name:

Phone: Fax:

Inspector:

Inspection

Manufacturer:
Type:
Construction Material:
Capacity:
Date of Construction:

4939 Cross Bayou Blvd. ≈ New Port Richey ≈ Florida 34652

Ph: 727-848-8292 ≈ Fax: 727-848-7701 ≈ Toll Free: 866-753-8292

Tank Coating	
1. Type of Coating	
A. Interior Thickness Coating Measurements (Attach Diagram)	1. 2. 3. 4. 5. 6.
B. Exterior Thickness Coating Measurements (Attach Diagram)	1. 2. 3. 4. 5. 6. 7. 8.
2. Percent rust coverage	
3. Location of rust	
4. Condition of Tank Entry (seals, rust , threads & coatings)	
5. Condition of paint on exterior	
6. Condition of paint on saddles	
7. Condition of paint at fittings	
Metal Tank	
1. Tank Walls Thickness	
A. Shell Right (See Attached Diagram)	1. 2. 3.
B. Shell Left (See Attached Diagram)	1. 2. 3.
C. Endcap 1 (See Attached Diagram)	1.
B. Endcap 2 (See Attached Diagram)	1.

2. Tank length (weld to weld)	
3. Tank diameter	
4. Indication of leakage	
5. Tank construction (riveted, blots, welds)	
6. Type of saddles	
7. Sediment buildup (describe)	
8.Indication of previous repairs (describe)	
Concrete Tank	
1.Tank Dimensions	
2.Tank Diameter	
3. Tank Construction (Form poured, precast, combo)	
4. Sediment buildup (describe)	
5. Spalding percentage (describe)	
6. Indication of leakage (locate and describe)	
7. Indication of previous repairs (describe)	
8. Exposed rebar (describe)	
Appurtenances	
1. Manway	
2. Pressure relief	
3. Air volume control	
4. Sight glass	
5. Sample tap	
6. Pressure gauge	
7. Drain	
8. Influent/Effluent flanges	
9. Ladders, hatches and access	
10. Restricted Access	
11. Aircraft lighting	
12. Screens ie. vents	
13. Other	

Comments/ Recommendations

U.S. Water Services Corporation

Water and Wastewater Operations, Maintenance, Design, Management

VALVE INSPECTION REPORT

DATE: _____ SUBDIVISION: _____ VALVE NO:_____

ADDRESS:

_____

INSPECTION RESULTS

VALVE SIZE: _____ MAKE: _____ SQUARE NUT: _____ HAND WHEEL: _____

OPENS: _____ NO. OF TURNS: _____ BRANCH VALVE: _____ MAIN VALVE: ____

MAIN SIZE: _____ OPERATION: _____ PACKING: _____

C.I. VALVE BOX: _____ CEMENT PAD: _____ DATA DISK: _____

PAINTED AND MARKED: _____ SERVICE COMPLETED: _____

COMMENTS: _____

SKETCH LOCATION OF VALVE WITH MEASUREMENTS BELOW

INSPECTED BY: _____ REVIEWED BY: _____

DATE: _____ TITLE: _____ DATE: _____ TITLE: _____

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STENNER PUMPS®

PERISTALTIC METERING PUMPS SINCE 1957

CLASSIC SERIES

PERISTALTIC METERING PUMPS

INSTALLATION AND MAINTENANCE MANUAL

⚠WARNING

TO BE INSTALLED AND MAINTAINED BY PROPERLY TRAINED PROFESSIONAL INSTALLER ONLY. READ MANUAL & LABELS FOR ALL SAFETY INFORMATION & INSTRUCTIONS.

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IMCL 021822

WARRANTY AND CUSTOMER SERVICE

LIMITED WARRANTY

Stenner Pump Company will for a period of one (1) year from the date of purchase (proof of purchase required) repair or replace, at our option, all defective parts. Stenner is not responsible for any removal or installation costs. Pump tube assemblies and rubber components are considered perishable and are not covered in this warranty. Pump tube will be replaced each time a pump is in for service, unless otherwise specified. The cost of the pump tube replacement will be the responsibility of the customer. Stenner will incur shipping costs for warranty products shipped from our factory in Jacksonville, Florida. Any tampering with major components, chemical damage, faulty wiring, weather conditions, water damage, power surges, or products not used with reasonable care and maintained in accordance with the instructions will void the warranty. Stenner limits its liability solely to the cost of the original product. We make no other warranty expressed or implied.

RETURNS

Stenner offers a 30-day return policy on factory direct purchases. Except as otherwise provided, no merchandise will be accepted for return after 30 days from purchase. To return merchandise at any time, call Stenner at 800.683.2378 for a Return Merchandise Authorization (RMA) number. A 15% re-stocking fee will be applied. Include a copy of your invoice or packing slip with your return.

DAMAGED OR LOST SHIPMENTS

All truck shipments: Check your order immediately upon arrival. All damage must be noted on the delivery receipt. Call Stenner Customer Service at 800.683.2378 for all shortages and damages within seven (7) days of receipt.

SERVICE & REPAIRS

Before returning a pump for warranty or repair, remove chemical from pump tube by running water through the tube, and then run the pump dry. Following expiration of the warranty period, Stenner Pump Company will clean and overhaul any Stenner metering pump for a minimum labor charge plus necessary replacement parts and shipping. All metering pumps received for overhaul will be restored to their original condition. The customer will be charged for missing parts unless specific instructions are given. To return merchandise for repair, call Stenner at 800.683.2378 or 904.641.1666 for a Return Merchandise Authorization (RMA) number.

DISCLAIMER

The information contained in this manual is not intended for specific application purposes. Stenner Pump Company reserves the right to make changes to prices, products, and specifications at any time without prior notice.

TRADEMARKS

QuickPro® is a registered trademark of the Stenner Pump Company.
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Versilon® is a registered trademark of Saint-Gobain Performance Plastics.
Pellethane® is a registered trademark of Lubrizol Advanced Materials, Inc.
AquaShield™ is a trademark of Houghton International.

SAFETY INFORMATION

IMPORTANT SAFETY INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALL INSTRUCTIONS

⚠ WARNING Warns about hazards that CAN cause death, serious personal injury, or property damage if ignored.

⚠ WARNING ELECTRIC SHOCK HAZARD

⚠ WARNING ELECTRIC SHOCK HAZARD
Pump supplied with grounding power cord and attached plug. To reduce risk of electrical shock, connect only to a properly grounded, grounding type receptacle. Install only on a circuit protected by a Ground-Fault Circuit-Interrupter (GFCI).

⚠ AVERTISSEMENT DANGER DE CHOC ÉLECTRIQUE
La pompe est dotée d'un cordon d'alimentation avec mise à la terre muni d'une fiche. Pour réduire le risque de choc électrique, branchez uniquement sur une prise correctement mise à la terre. Installez uniquement sur un circuit protégé par un disjoncteur différentiel.

DO NOT alter the power cord or plug end.

DO NOT use receptacle adapters.

DO NOT use pump with a damaged or altered power cord or plug. Contact the factory or an authorized service facility for repair.

⚠ WARNING HAZARDOUS VOLTAGE
DISCONNECT power cord before removing motor cover for service. **Electrical service by trained personnel only.**

⚠ WARNING EXPLOSION HAZARD
This equipment **IS NOT** explosion proof. **DO NOT** install or operate in an explosive environment.

⚠ WARNING RISK OF CHEMICAL EXPOSURE
Potential for chemical burns, fire, explosion, personal injury, or property damage. To reduce risk of exposure, the use of proper personal protective equipment is mandatory.

⚠ WARNING RISK OF FIRE HAZARD
DO NOT install or operate on any flammable surface.

⚠ WARNING RISK OF CHEMICAL OVERDOSE
To reduce risk, follow proper installation methods and recommendations. Check your local codes for additional guidelines.

⚠ WARNING To reduce the risk of injury, do not permit children to use this product. This appliance is not to be used by persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction.

SAFETY INFORMATION continued

⚠ **⚠ CAUTION** **Warns about hazards that WILL or CAN cause minor personal injury or property damage if ignored.**

⚠ **⚠ CAUTION** **PLUMBING**

Chemical feed pump installation must always adhere to your local plumbing codes and requirements. Be sure installation does not constitute a cross connection. Check local plumbing codes for guidelines.

NOTICE: Indicates special instructions or general mandatory action.

- This metering pump is portable and designed to be removable from the plumbing system without damage to the connections.
- Before installing or servicing the pump, read the pump manual for all safety information and complete instructions. The pump is designed for installation and service by properly trained personnel.
- Installation of product must adhere to all regulatory and compliance codes applicable to the area.
- This metering pump and its components have been tested for use with the following chemicals: Sodium Hypochlorite (10-15%), Muriatic Acid (20-22 Baume, 31.5% HCl), and Soda Ash.
- Cette pompe de dosage et ses composants ont été testés pour leur compatibilité avec les produits chimiques suivants : hypochlorite de sodium (10 à 15 %), acide chlorhydrique (20 à 22 % Baume, 31,5 % HCl), et carbonate de sodium.
- This metering pump is certified by WQA for use with Water and Sodium Hypochlorite 15%, when using Santoprene® tube material.

⚠ **This is the safety alert symbol. When displayed in this manual or on the equipment, look for one of the following signal words alerting you to the potential for personal injury or property damage.**

- ⚠ **PUMP SUITABLE FOR USE OUTDOORS** when installed with a Stenner Rain Roof Part No. MP90000.
- ⚠ Electrical installation should adhere to all national and local codes. Consult a licensed professional for assistance with proper electrical installation.
- ⚠ Removing power from pool/spa recirculation pump must also remove power from pump.
- ⚠ The use of an auxiliary safety device (not supplied), such as a flow switch or sensor, is recommended to prevent feed pump operation in the event of a recirculation pump failure or if flow is not sensed.
- ⚠ Point of chemical injection should be beyond all pumps, filters, and heaters.
- ⚠ Suitable for indoor and outdoor use.
- ⚠ Adaptée à une utilisation aussi bien à l'intérieur qu'à l'extérieur.

SAVE THESE INSTRUCTIONS

FLOW RATE OUTPUTS CLASSIC 45

Single Head Adjustable – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
45MHP2	45MJH1	100 / 6.9	1	0.2	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
45M1	45MJL1	25 / 1.7												
45MHP10	45MJH2	100 / 6.9	2	0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
45M2	45MJL2	25 / 1.7												
45MHP22	45MJH7	100 / 6.9	7	1.1	2.2	4.4	6.6	8.8	11.0	13.2	15.4	17.6	19.8	22.0
45M3	45MJL3	25 / 1.7	3											
45M4	45MJL4	25 / 1.7	4	1.7	3.5	7.0	10.5	14.0	17.5	21.0	24.5	28.0	31.5	35.0
45M5	45MJL5	25 / 1.7	5	2.5	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0

Approximate Outputs @ 60Hz

Single Head Adjustable – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
45MHP2	45MJH1	100 / 6.9	1	0.6	0.9	1.8	2.7	3.6	4.5	5.5	6.4	7.3	8.2	9.1
45M1	45MJL1	25 / 1.7												
45MHP10	45MJH2	100 / 6.9	2	1.5	3.0	6.1	9.1	12.1	15.1	18.2	21.2	24.2	27.3	30.3
45M2	45MJL2	25 / 1.7												
45MHP22	45MJH7	100 / 6.9	7	3.3	6.6	13.3	20.0	26.6	33.3	40.0	46.6	53.3	60.0	66.6
45M3	45MJL3	25 / 1.7	3											
45M4	45MJL4	25 / 1.7	4	5.1	10.6	21.2	31.8	42.4	53.0	63.6	74.2	84.8	95.4	106.0
45M5	45MJL5	25 / 1.7	5	7.6	15.1	30.3	45.4	60.6	75.7	90.8	106.0	121.1	136.3	151.4

Approximate Outputs @ 50Hz

Single Head Fixed – Gallons & Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	GPD @ 60Hz	LPD @ 50Hz
45MPHP2	45MFH1	100 / 6.9	1	3.0	9.1
45MP1	45MFL1	25 / 1.7			
45MPHP10	45MFH2	100 / 6.9	2	10.0	30.3
45MP2	45MFL2	25 / 1.7			
45MPHP22	45MFH7	100 / 6.9	7	22.0	66.6
45MP3	45MFL3	25 / 1.7	3		
45MP4	45MLF4	25 / 1.7	4	35.0	106.0
45MP5	45MLF5	25 / 1.7	5	50.0	151.4

Approximate Outputs @ 60 & 50Hz

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

FLOW RATE OUTPUTS CLASSIC 85

Single Head Adjustable – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
85MHP5	85MJH1	100 / 6.9	1	0.3	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
85M1	85MJL1	25 / 1.7												
85MHP17	85MJH2	100 / 6.9	2	0.8	1.7	3.4	5.1	6.8	8.5	10.2	11.9	13.6	15.3	17.0
85M2	85MJL2	25 / 1.7												
85MHP40	85MJH7	100 / 6.9	7	2.0	4.0	8.0	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0
85M3	85MJL3	25 / 1.7	3											
85M4	85MJL4	25 / 1.7	4	3.0	6.0	12.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
85M5	85MJL5	25 / 1.7	5	4.3	8.5	17.0	25.5	34.0	42.5	51.0	59.5	68.0	76.5	85.0

Approximate Outputs @ 60Hz

Single Head Adjustable – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
85MHP5	85MJH1	100 / 6.9	1	0.9	1.5	3.0	4.5	6.1	7.6	9.1	10.6	12.1	13.6	15.1
85M1	85MJL1	25 / 1.7												
85MHP17	85MJH2	100 / 6.9	2	2.4	5.1	10.3	15.4	20.6	25.7	30.9	36.0	41.2	46.3	51.5
85M2	85MJL2	25 / 1.7												
85MHP40	85MJH7	100 / 6.9	7	6.1	12.1	24.2	36.3	48.5	60.6	76.7	84.8	96.9	109.0	121.1
85M3	85MJL3	25 / 1.7	3											
85M4	85MJL4	25 / 1.7	4	9.1	18.2	36.3	54.5	76.7	90.8	109.0	127.2	145.3	163.5	181.7
85M5	85MJL5	25 / 1.7	5	13.0	25.7	51.5	77.2	103.0	128.7	154.4	180.0	205.9	231.6	257.4

Approximate Outputs @ 50Hz

Single Head Fixed – Gallons & Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	GPD @ 60Hz	LPD @ 50Hz
85MPHP5	85MFH1	100 / 6.9	1	5.0	15.1
85MP1	85MFL1	25 / 1.7			
85MPHP17	85MFH2	100 / 6.9	2	17.0	51.5
85MP2	85MFL2	25 / 1.7			
85MPHP40	85MFH7	100 / 6.9	7	40.0	121.1
85MP3	85MFL3	25 / 1.7	3		
85MP4	85MFL4	25 / 1.7	4	60.0	181.7
85MP5	85MFL5	25 / 1.7	5	85.0	257.4

Approximate Outputs @ 60 & 50Hz

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

FLOW RATE OUTPUTS CLASSIC 100

Double Head Adjustable – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting										
				L	1	2	3	4	5	6	7	8	9	10
100DMHP5	100JH1	100 / 6.9	1	0.3	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
100DM1	100JL1	25 / 1.7												
100DMHP20	100JH2	100 / 6.9	2	1.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0
100DM2	100JL2	25 / 1.7												
100DM3	100JL3	25 / 1.7	3	2.2	4.4	8.8	13.2	17.6	22.0	26.4	30.8	35.2	39.6	44.0
100DM4	100JL4	25 / 1.7	4	3.5	7.0	14.0	21.0	28.0	35.0	42.0	49.0	56.0	63.0	70.0
100DM5	100JL5	25 / 1.7	5	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
				Approximate Outputs @ 60Hz										

Double Head Adjustable – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting										
				L	1	2	3	4	5	6	7	8	9	10
100DMHP5	100JH1	100 / 6.9	1	0.9	1.8	3.6	5.5	7.3	9.1	10.9	12.7	14.5	16.4	18.2
100DM1	100JL1	25 / 1.7												
100DMHP20	100JH2	100 / 6.9	2	3.0	6.1	12.1	18.2	24.2	30.3	36.4	42.4	48.5	54.5	60.6
100DM2	100JL2	25 / 1.7												
100DM3	100JL3	25 / 1.7	3	6.7	13.3	26.7	40.0	53.3	66.6	79.9	93.3	106.6	119.9	133.2
100DM4	100JL4	25 / 1.7	4	10.6	21.2	42.4	63.6	84.8	106.0	127.2	148.4	169.6	190.8	212.0
100DM5	100JL5	25 / 1.7	5	15.1	30.3	60.6	90.8	121.1	151.4	181.7	212.0	242.2	272.5	302.8
				Approximate Outputs @ 50Hz										

Double Head Fixed – Gallons & Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	GPD @ 60Hz	LPD @ 50Hz
100DMPHP5	100FH1	100 / 6.9	1	6.0	18.2
100DMP1	100FL1	25 / 1.7			
100DMPHP20	100FH2	100 / 6.9	2	20.0	60.6
100DMP2	100FL2	25 / 1.7			
100DMP3	100FL3	25 / 1.7	3	44.0	133.2
100DMP4	100FL4	25 / 1.7	4	70.0	212.0
100DMP5	100FL5	25 / 1.7	5	100.0	302.8
				Approximate Outputs @ 60 & 50Hz	

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

FLOW RATE OUTPUTS CLASSIC 170

Double Head Adjustable – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
170DMHP9	170JH1	100 / 6.9	1	0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
170DM1	170JL1	25 / 1.7												
170DMHP34	170JH2	100 / 6.9	2	1.7	3.4	6.0	9.5	13.6	17.0	20.4	23.8	27.2	30.6	34.0
170DM2	170JL2	25 / 1.7												
170DM3	170JL3	25 / 1.7	3	4.0	8.0	16.0	24.0	32.0	40.0	48.0	56.0	64.0	72.0	80.0
170DM4	170JL4	25 / 1.7	4	6.0	12.0	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0
170DM5	170JL5	25 / 1.7	5	8.5	17.0	34.0	51.0	68.0	85.0	102.0	119.0	136.0	153.0	170.0

Approximate Outputs @ 60Hz

Double Head Adjustable – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
170DMHP9	170JH1	100 / 6.9	1	1.5	3.0	6.1	9.1	12.1	15.1	18.2	21.2	24.2	27.3	30.3
170DM1	170JL1	25 / 1.7												
170DMHP34	170JH2	100 / 6.9	2	5.1	10.3	18.2	28.8	39.1	51.5	61.8	72.1	82.4	92.7	102.6
170DM2	170JL2	25 / 1.7												
170DM3	170JL3	25 / 1.7	3	12.1	24.2	48.5	72.7	96.9	121.1	145.4	169.6	193.8	218.0	242.2
170DM4	170JL4	25 / 1.7	4	18.2	36.3	72.7	109.0	145.3	181.7	218.0	254.4	290.7	327.0	363.4
170DM5	170JL5	25 / 1.7	5	25.7	51.5	86.0	154.4	205.9	257.4	308.9	360.4	411.8	463.3	514.8

Approximate Outputs @ 50Hz

Double Head Fixed – Gallons & Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	GPD @ 60Hz	LPD @ 50Hz
170DMPHP9	170FH1	100 / 6.9	1	10.0	30.3
170DMP1	170FL1	25 / 1.7			
170DMPHP34	170FH2	100 / 6.9	2	34.0	102.6
170DMP2	170FL2	25 / 1.7			
170DMP3	170FL3	25 / 1.7	3	80.0	242.2
170DMP4	170FL4	25 / 1.7	4	120.0	363.4
170DMP5	170FL5	25 / 1.7	5	170.0	514.8

Approximate Outputs @ 60 & 50Hz

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

FLOW RATE OUTPUTS CLASSIC 100 *DUAL CONTROL*

DETERMINE FLOW RATE OUTPUTS FOR EACH PUMP HEAD

Use the innermost pump head flow rate outputs to determine the output for each pump head. Both feed rate controls (FRC) on setting 10 = maximum flow rate capacity of the pump.

Innermost Pump Head
L=5%, 1-10 = approx. 10% of maximum innermost output

Outermost Pump Head
Outermost Output = (Outermost FRC Setting %) x (Innermost Output)

Example
100MDC5 with Innermost FRC setting on 4
1. Innermost FRC setting 4 = 20 GPD
2. If outermost FRC is set on 3, then outermost output is 30% of innermost output; 0.3 x 20 GPD = 6 GPD
3. Outermost = 6 GPD, Innermost = 20 GPD, Total Pump Output = 26 GPD

Innermost Pump Head – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting										
				L	1	2	3	4	5	6	7	8	9	10
100MDCHP5	100DH1	100 / 6.9	1	0.2	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
100MDC1	100DL1	25 / 1.7												
100MDCHP20	100DH2	100 / 6.9	2	0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
100MDC2	100DL2	25 / 1.7												
100MDC3	100DL3	25 / 1.7	3	1.1	2.2	4.4	6.6	8.8	11.0	13.2	15.4	17.6	19.8	22.0
100MDC4	100DL4	25 / 1.7	4	1.7	3.5	7.0	10.5	14.0	17.5	21.0	24.5	28.0	31.5	35.0
100MDC5	100DL5	25 / 1.7	5	2.5	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0
				Approximate Outputs @ 60Hz										

Innermost Pump Head – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting										
				L	1	2	3	4	5	6	7	8	9	10
100MDCHP5	100DH1	100 / 6.9	1	0.6	0.9	1.8	2.7	3.6	4.5	5.5	6.4	7.3	8.2	9.1
100MDC1	100DL1	25 / 1.7												
100MDCHP20	100DH2	100 / 6.9	2	1.5	3.0	6.1	9.1	12.1	15.1	18.2	21.2	24.2	27.3	30.3
100MDC2	100DL2	25 / 1.7												
100MDC3	100DL3	25 / 1.7	3	3.3	6.6	13.3	20.0	26.6	33.3	40.0	46.6	53.3	60.0	66.6
100MDC4	100DL4	25 / 1.7	4	5.1	10.6	21.2	31.8	42.4	53.0	63.6	74.2	84.8	95.4	106.0
100MDC5	100DL5	25 / 1.7	5	7.6	15.1	30.3	45.4	60.6	75.7	90.8	106.0	121.1	136.3	151.4
				Approximate Outputs @ 50Hz										

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

FLOW RATE OUTPUTS CLASSIC 170 *DUAL CONTROL*

Innermost Pump Head – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	1
170MDCHP9	170DH1	100 / 6.9	1	0.3	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
170MDC1	170DL1	25 / 1.7												
170MDCHP34	170DH2	100 / 6.9	2	0.8	1.7	3.4	5.1	6.8	8.5	10.2	11.9	13.6	15.3	17.0
170MDC2	170DL2	25 / 1.7												
170MDC3	170DL3	25 / 1.7	3	2.0	4.0	8.0	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0
170MDC4	170DL4	25 / 1.7	4	3.0	6.0	12.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
170MDC5	170DL5	25 / 1.7	5	4.3	8.5	17.0	25.5	34.0	42.5	51.0	59.5	68.0	76.5	85.0
				Approximate Outputs @ 60Hz										

Innermost Pump Head – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
170MDCHP9	170DH1	100 / 6.9	1	0.9	1.5	3.0	4.5	6.1	7.6	9.1	10.6	12.1	13.6	15.1
170MDC1	170DL1	25 / 1.7												
170MDCHP34	170DH2	100 / 6.9	2	2.4	5.1	10.3	15.4	20.6	25.7	30.9	36.0	41.2	46.3	51.5
170MDC2	170DL2	25 / 1.7												
170MDC3	170DL3	25 / 1.7	3	6.1	12.1	24.2	36.3	48.5	60.6	76.7	84.8	96.9	109.0	121.1
170MDC4	170DL4	25 / 1.7	4	9.1	18.2	36.3	54.5	76.7	90.8	109.0	127.2	145.3	163.5	181.7
170MDC5	170DL5	25 / 1.7	5	13.0	25.7	51.5	77.2	103.0	128.7	154.4	180.0	205.9	231.6	257.4
				Approximate Outputs @ 50Hz										

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

MATERIALS OF CONSTRUCTION

All Housings
Polycarbonate

Pump Tube
Santoprene® (FDA approved) or Versilon®

Check Valve Duckbill
Santoprene® (FDA approved) or Pellethane®

Suction/Discharge Tubing & Ferrules
Polyethylene (FDA approved)

Suction Line Strainer and Cap
PVC or Polypropylene (both NSF listed); ceramic weight

All Fasteners
Stainless Steel

Tube and Injection Fittings
PVC or Polypropylene (both NSF listed)

Connecting Nuts and 3/8" Adapter
PVC or Polypropylene (both NSF listed)

Pump Head Latches
Polypropylene *

ACCESSORIES

3 Connecting Nuts 1/4" or 3/8"

3 Ferrules 1/4" or 6 mm *Europe*

1 Injection Fitting 25 psi (1.7 bar) max. or 1 Duckbill Check Valve 100 psi (6.9 bar) max.

1 Weighted Suction Line Strainer 1/4", 3/8" or 6 mm *Europe*

1 20' Roll of Suction/Discharge Tubing
1/4" or 3/8" White or UV Black or 6 mm White *Europe*

1 Additional Pump Tube

2 Additional Latches

1 Mounting Bracket

1 Manual

* Double head pumps include an additional set of the accessories listed above.

INSTALLATION

ADDITIONAL SAFETY INSTRUCTIONS

NOTICE: Indicates special instructions or general mandatory action.

- Read all safety hazards before installing or servicing the pump. The pump is designed for installation and service by properly trained personnel.
- Use all required personal protective equipment when working on or near a chemical metering pump.
- Install the pump so that it is in compliance with all national and local plumbing and electrical codes.
- Use the proper product to treat potable water systems, use only chemicals listed or approved for use.
- Install the pump to work in conjunction with pool, spa, well pump, or system controls.
- Inspect tube frequently for leakage, deterioration, or wear. Schedule a regular pump tube maintenance change to prevent chemical damage to pump and/or spillage.
- Mount pump vertically and use spill recovery to run chemical back to tank in the event of tube failure. Not recommended for acid applications.
- To reduce risk, follow proper installation methods and recommendations. Check your local codes for additional guidelines.
- Pump is not recommended for installation in areas where leakage can cause personal injury or property damage.

INSTALLATION continued

MOUNT PUMP

Select a dry location (to avoid water intrusion and pump damage) above the solution tank. Best recommended location is above the solution tank in a vertical position with the pump head pointed downward and the spill recovery *(see page 18)* in place to reduce the risk and severity of damage. Spill recovery not recommended for acid applications.

To prevent pump damage in the event of a pump tube leak, never mount the pump vertically with the pump head up.

To avoid chemical damage from fumes, DO NOT mount pump directly over an open solution tank. Keep tank covered.

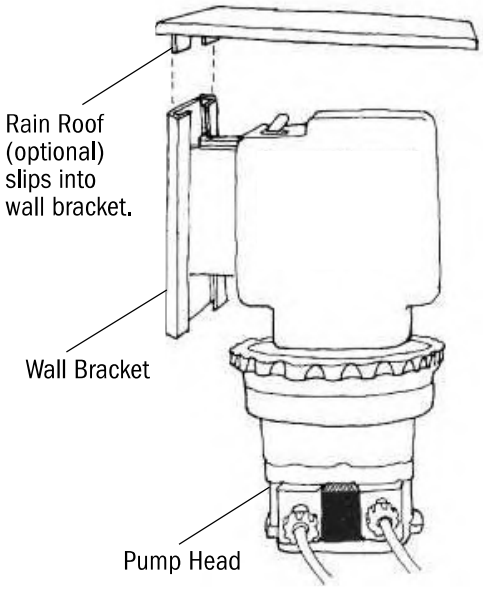
Avoid flooded suction or pump mounted lower than the solution container. Draw solution from the top of the tank. Pump can run dry without damage. If pump is installed with a flooded suction, a shut-off valve or other device must be provided to stop flow to pump during service.

1. Use the mounting bracket as a template to drill pilot holes in mounting location.
2. Secure bracket with fasteners or wall anchors. Slide pump into bracket.

Provide 8" clearance to allow pump orientation to be reversed during tube replacement. DO NOT allow water intrusion into the motor or corrosion and damage will occur.

To prevent motor damage, verify with a volt meter that the receptacle voltage corresponds with the pump voltage.

3. Plug cord into receptacle and turn the motor power switch on. If the pump is adjustable, turn the dial ring to 10.



4. Activate the pump by the pump control (flow switch, pressure switch, etc.) and verify rotation of the roller assembly within the clear pump head. Turn pump switch off.

ADDITIONAL INSTRUCTIONS FOR CE PUMPS WHEN APPLICABLE

ADDITIONAL INSTALLATION INSTRUCTIONS

1. All Class II Pumps located in Zone 1 of swimming pool areas require locating where flooding cannot occur.
2. This pump is intended to be installed as “fixed” as opposed to portable.
3. The Rain Roof must be installed and “vertical orientation” mounting of entire unit observed.
4. After installation, the power supply plug must be accessible during use.
5. This unit must be scrapped if the supply cord is damaged.
6. Observe and comply with all National Wiring Standards.

ZUSTAZLICHE INSTALLIERUNGSANWEISUNGUN

1. Pumpen die sich in Zone 1 vom Schwimmbecken befinden sollen sind so einzurichten daß Ueberschwemmungen nicht vorkommen werden.
2. Diese Pumpe ist als fest montierte Ausrustung bedacht und soll nicht umstellbar gebraucht werden.
3. Der Regendach muss installiert werden. Eine vertikale Asrichtung der Montage muß erzielt werden.
4. Die Stromversorgung muss nach der Installierung noch zuganglich sein.
5. Bei beschadigter Verkabelung ist dieses Gerat nicht mehr zu gebrauchen.
6. Staatliche Vernetzungsvorchriften mussen eingehalten werden.

INSTRUCTIONS SUPPLÉMENTAIRES D’INSTALLTION

1. Toutes les pompes installées dans la Zone 1 du périmètre de la piscine doivent être situées de manière à ne pas pouvoir être inondées.
2. Cette pompe est prévue pour installation fixe et non pas portative.
3. L’abri anti-pluie doit être installé et l’orientation verticale doit toujours être observée.
4. Après l’installation, la prise électrique doit rester accessible pendant l’utilisation.
5. Cette unité doit être mise au rebut si le cordon électrique est endommagé.
6. Observez et adhérez à toutes les Normes Nationales pour Installations Electriques.

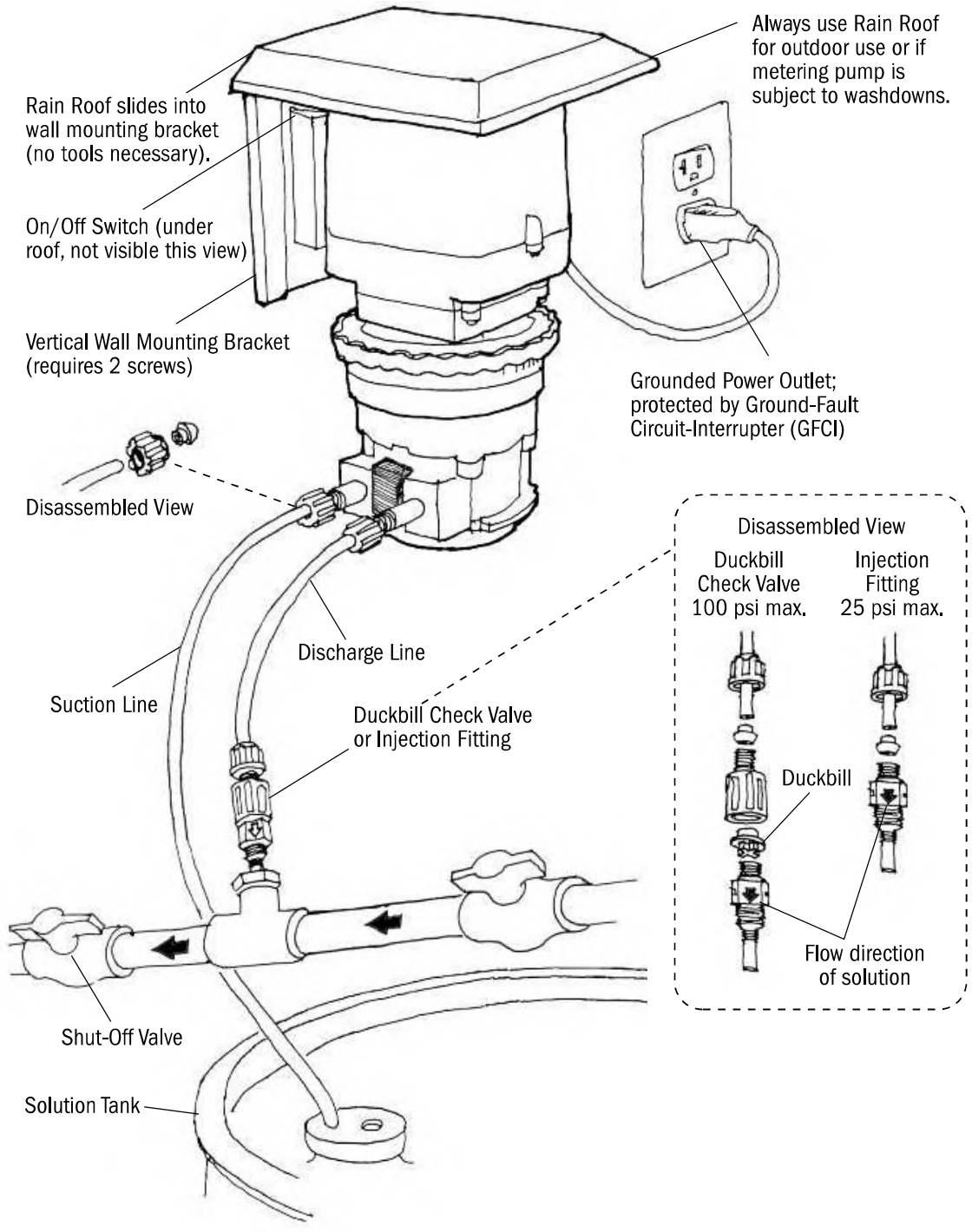
INSTRUCCIONES ADICIONALES PARA INSTALACION

1. Todas las bombas Clase II situadas en la Zona 1 de las áreas de la piscina requieren colocarse donde no puedan ser inundadas.
2. Esta bomba es para ser instalada “fija” en vez de portátil.
3. Es necesario instalar el techo de lluvia, y montar la unidad entera siguiendo una orientación vertical.
4. Depués de la instalación el enchufe suministrador de energía debe estar accesible durante el uso.
5. Se deberá deshechar la unidad si el cordón de abastecimiento se deteriora.
6. Observe y cumpla con todas las Reglas Nacionales para Instalaciones Eléctricas.

ISTRUZIONI SUPPLEMENTARI PER L’ INSTALLAZIONE

1. Tutte le pompe Classe II localizzate nella Zona 1 della superficie circostante la piscina devono essere collocate dove gli allagamenti no possono accadere.
2. Questa pompa, é inteso, deve essere installata come ‘fissa’ e non come portatile.
3. La tettoia deve essere installata e il montaggio ‘orientazione verticale’ dell’intera unitá deve essere osservato.
4. Dopo l’installazione, la spina deve essere accessibile durante l’uso.
5. Questa unitá deve essere gettata via se il filo elettrico é danneggiato.
6. Osservare e aderire a tutte le Norme Nazionali Sugli Impianti Elettrici.

INSTALLATION DIAGRAM

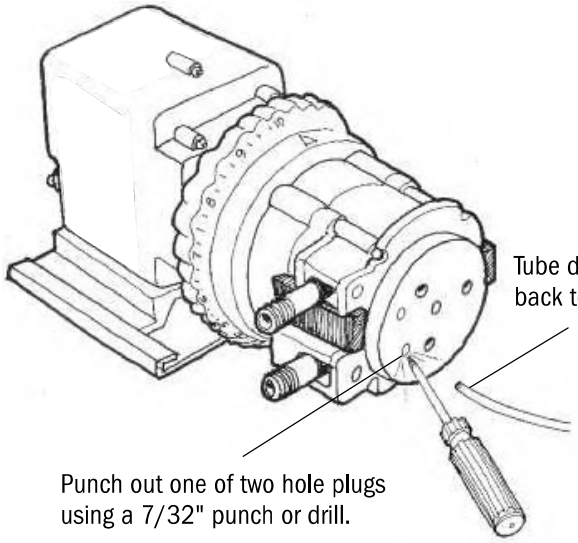


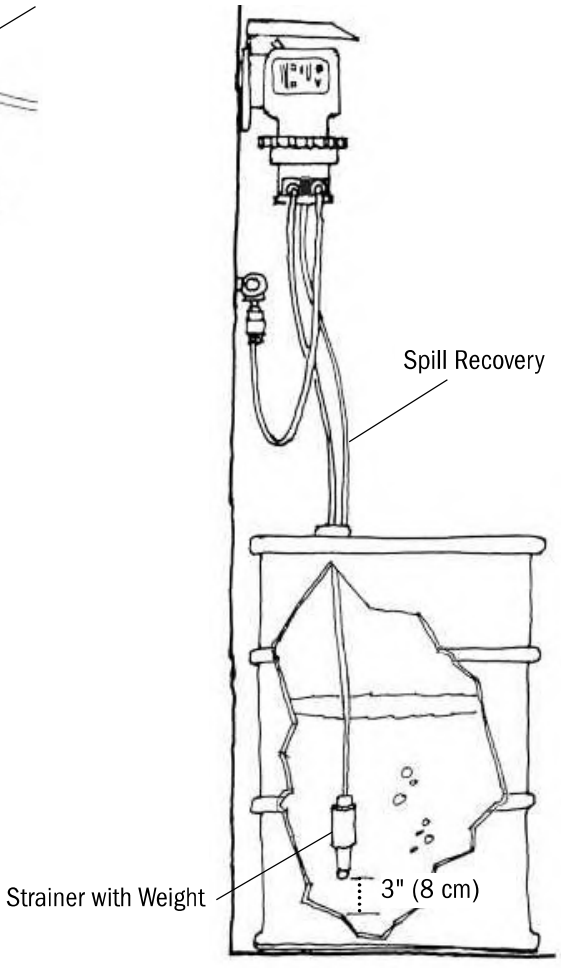
SPILL RECOVERY

Mount the pump vertically and use the spill recovery to drain chemical back to the tank in the event of tube failure. This will help prevent chemical from collecting in the tube housing and reduces spillage on the floor. To reduce risk, follow proper installation methods and recommendations. Check your local codes for additional guidelines.

The pump motor is ventilated and water intrusion can cause motor damage. A rain roof is recommended for outdoor and wet environments.

SPILL RECOVERY IS NOT RECOMMENDED FOR ACID APPLICATIONS.





INSTALL SUCTION LINE TO PUMP HEAD

1. Uncoil the suction/discharge tubing. Use outside of solution tank as a guide to cut proper length of suction line ensuring it will be 2-3" above the bottom of solution tank.

Allow sufficient slack to avoid kinks and stress cracks. Always make a clean square cut to assure that the suction line is burr free. Normal maintenance requires trimming.

Suction lines that extend to the bottom of the tank can result in debris pickup leading to clogged injectors and possible tube failure.

2. Make connections

1/4" Slide the line(s) through the 1/4" connecting nut and ferrule.

3/8" Finger tighten the 3/8" adapter onto the tube fitting then slide the line(s) through the 3/8" connecting nut.

3. Tighten connections

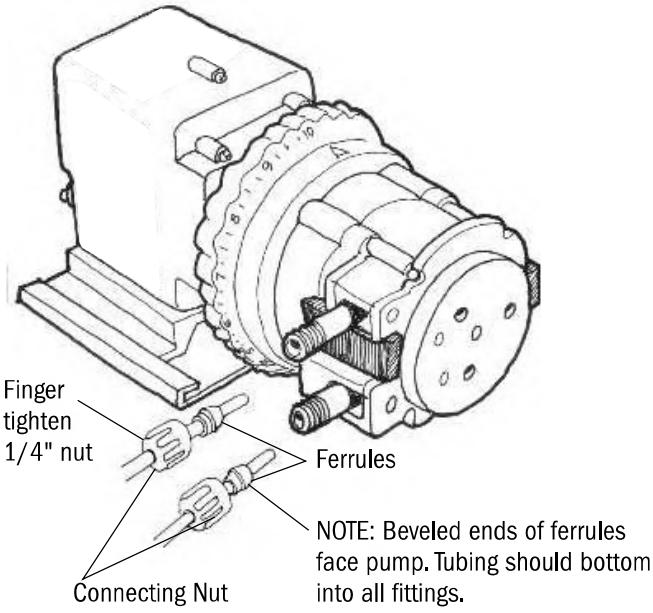
1/4" While firmly holding the tube fitting, finger tighten nut to the threaded tube fitting.

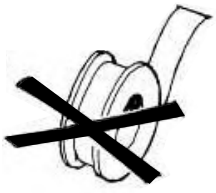
3/8" While firmly holding the 3/8" adapter, finger tighten nut to the adapter. Then wrench tighten one additional half turn. If leak occurs, gradually tighten the 3/8" connecting nut as required.

Over tightening the ferrule and nut may result in damaged fittings, crushed ferrules, and air pick up.

DO NOT use thread seal tape on pump tube connections.

More on next page





DO NOT use thread seal tape on pump tube threads.

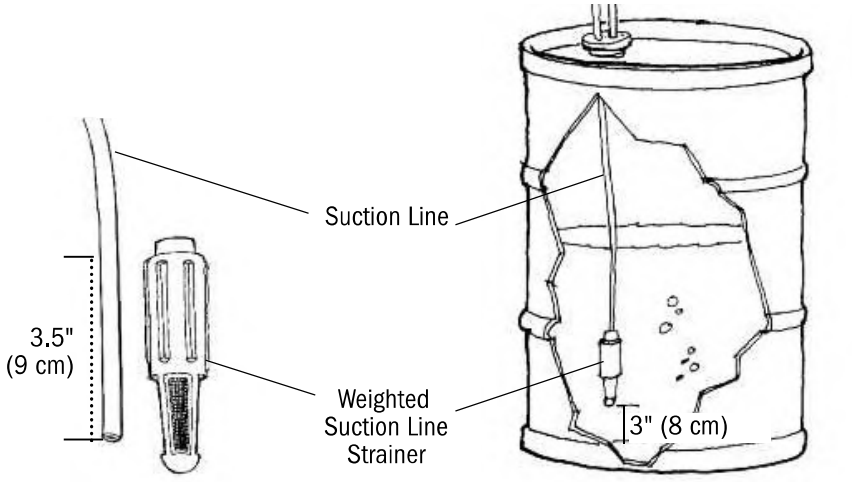
INSTALL SUCTION WEIGHT TO SUCTION LINE

1. Drill a hole into the bung cap or solution tank lid. Slide the tubing through and secure the weighted strainer to the line.
2. To attach the strainer, push approximately 3.5" of suction line through the cap on the strainer body. Pull tubing to make sure it is secure.
3. Suspend approximately 3" above tank bottom to reduce the chance of sediment pickup.

DO NOT mix chemicals in the solution container. Follow recommended mixing procedures according to the manufacturer.

DO NOT operate pump unless chemical is completely in solution. Turn pump off when replenishing solution.

DO NOT slide tubing all the way to the bottom of the weighted strainer. Tubing could become flush with the nose of the strainer and the pump may not prime due to blockage.



INSTALL DISCHARGE LINE TO PUMP HEAD AND INJECTION POINT

1. Make a secure finger tight connection on the discharge fitting of the pump head as instructed in Install Suction Line instructions.

DO NOT use thread seal tape on pump tube connections.

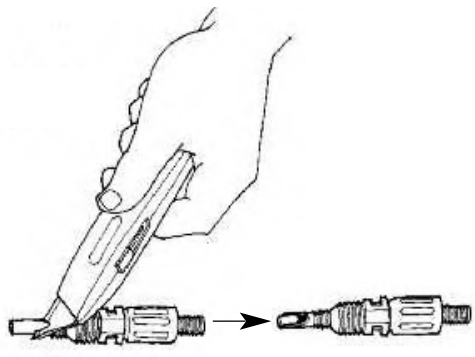
⚠ WARNING HAZARDOUS PRESSURE: Shut off water or circulation system and bleed off any system pressure.

Locate a point of injection beyond all pumps and filters or as determined by the application.

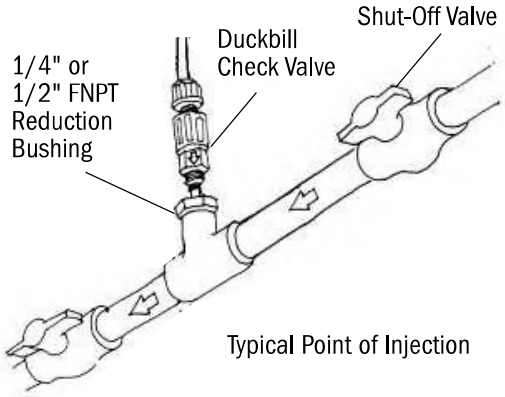
2. A 1/4" or 1/2" Female NPT (FNPT) connection is required for installing the injection fitting. If there is no FNPT fitting available, provide one by either tapping the pipe or installing FNPT pipe tee fitting.

3. Wrap the Male NPT (MNPT) end of injection fitting with 2 or 3 turns of thread seal tape. If necessary, trim the injection fitting quill as required to inject product directly into flow of water.

More on next page



Trim Injection Fitting



4. Hand tighten the injection fitting into the FNPT fitting.

Injection Fitting

a. Install connecting nut and ferrule to the pump discharge line. Insert discharge line into injection fitting until it reaches base of fitting.

b. Finger tighten connecting nut to fitting. For 3/8" connections wrench tighten one additional 1/2 turn. If leak occurs, gradually tighten the 3/8" connecting nut as required.

Duckbill Check Valve

a. Prior to connection, test check valve and NPT threads for leaks by pressurizing system. If necessary, tighten an additional 1/4 turn.

b. Install connecting nut and ferrule to the pump discharge line. Insert discharge line into check valve body until it reaches base of body.

c. Finger tighten connecting nut to fitting. For 3/8" connections wrench tighten one additional 1/2 turn. If leak occurs, gradually tighten the 3/8" connecting nut as required.

5. Turn pump on and re-pressurize system. Observe chemical flow as actuated by system and check all connections for leaks.

6. After suitable amount of dosing time, perform tests for desired chemical readings (e.g., pH or ppm). If necessary, fine tune dosing levels by rotating dial ring (adjustable pumps only) or by adjusting solution strength.

The injection point and fitting require periodic maintenance to clean any deposits or buildup. To allow quick access to the point of injection, Stenner recommends the installation of shut-off valves.

TROUBLESHOOTING MOTOR

⚠ WARNING HAZARDOUS VOLTAGE

DISCONNECT power cord before removing motor cover for service. **Electrical service should be performed by trained personnel only.**

PROBLEM	POSSIBLE CAUSE	SOLUTION
Loud or excessive noise	Worn ball bearings	Replace rotor assembly
	Damaged bearing brackets or tolerance rings	Replace bearing brackets and tolerance rings
	Insufficient gear lubrication	Apply AquaShield™ to gears and gear posts
	Worn gears or gear posts	Inspect and/or replace gears and gear posts
Motor does not work; fan does not turn	Faulty electrical supply	Check electrical supply
	Bearing brackets broken	Replace bearing brackets
	Damaged motor coil	Replace motor coil
	Worn or damaged rotor bearings	Replace rotor assembly
	Damaged power cord	Inspect and/or replace power cord
	Rotor bound or rusted to coil	Buff off coil and rotor or replace
	Faulty wire connections	Inspect and/or repair electrical connections
	Obstructed fan	Remove obstruction
Motor runs; fan turns, output shaft does not	Worn or damaged gears	Replace gears as needed
Motor overheats and shuts off and on	Incorrect voltage	Check voltage and frequency matches pump label
	High ambient temperature	Pumps are rated to 125˚F (51 °C) maximum
	Damaged/malfunctioning coil	Replace motor coil
Phenolic gear is stripping	Water intrusion	Use rain roof, replace phenolic gear & all affected components
	Cracked bearing bracket	Replace bearing bracket & phenolic gear
	Worn gear posts	Replace gear posts & affected gears
	Rusted helical gear at end of rotor	Buff off rotor or replace rotor, replace phenolic gear
	Worn or cracked gear case cover	Replace gear case or gear case cover
	Missing phenolic gear spacer	Replace phenolic gear and install spacer on top of gear
	Insufficient lubrication	Apply AquaShield™ to gears and gear posts

TROUBLESHOOTING FEED RATE CONTROL

PROBLEM	POSSIBLE CAUSE	SOLUTION
Dial ring will not turn	Seized or broken variable cam	Apply Aquashield™ to variable cam & cam slot in feed rate control housing
	Seized dial ring	Clean then lubricate dial ring & cam slot with AquaShield™
Dial ring turns, output doesn't change	Variable cam disengaged from dial ring	Re-insert 90˚ end into ring
	Broken variable cam	Replace variable cam
Pump head does not rotate	Worn index plate	Turn over or replace index plate
	Motor problem	Refer to motor troubleshooting
	Pump head roller assembly stripped	Replace roller assembly
	Index pin holder loose	Tighten holder into spider assembly
	Index pin broken	Replace index pin and lifter assembly
Pump head rotates continuously	Variable cam out of place or worn	Replace or re-insert variable cam
Ratcheting sound	Index plate worn	Turn over or replace index plate
	Variable cam worn	Replace variable cam
	Lifter worn	Replace lifter or complete index pin assembly

TROUBLESHOOTING PUMP HEAD

PROBLEM	POSSIBLE CAUSE	SOLUTION
Roller Assembly will not expand or collapse with tube housing cover	Motor not locked	Fixed Rate Pumps: Place tube housing latch into motor slot; Adjustable Rate Pumps: Set feed rate control to 10
	Stripped or cracked roller assembly hub	Replace roller assembly
Components cracking	Chemical attack	Check chemical compatibility
	Chemical intrusion from tube failure	Identify and correct cause, clean components of chemical & replace tube according to manual
Pump head leaking	Pump tube rupture	Identify and correct cause, clean components of chemical & replace tube according to manual
No pump output, pump head rotates	Roller assembly not fully expanded	Expand roller assembly using pump head cover as a tool, according to manual
	Depleted or weighted strainer is above solution tank	Replenish solution and position suction line 3" above bottom of tank
	Leak in the suction line or at connections	Inspect or replace suction line and/or connections
	Ferrules installed incorrectly, missing or damaged	Replace ferrules, beveled end faces pump
	Sleeve and/or plastic gripper inside 3/8" connecting nut is missing damaged, or incorrectly assembled	Replace if damaged or missing. Reorient if incorrectly assembled; gripper beveled end faces nut; sleeve wide end faces gripper
	Injection point is clogged	Inspect and clean injection point
	Clogged suction and/or discharge line and/or check valve	Clean and/or replace as needed
	Life of pump tube exhausted	Replace tube according to manual, schedule tube replacement based on application
	Suction line is flush with the nose of the weighted strainer	Pull suction line approximately 1" from bottom of strainer, cut bottom of suction at an angle
Low pump output, pump head rotates	Life of pump tube exhausted	Replace tube according to manual, schedule tube replacement based on application
	Rollers worn or broken	Replace roller assembly
	Injection point is restricted	Inspect and clean injection point regularly
	Incorrect tube size or setting	Refer to pump output chart and determine dial ring setting or replace tube & ferrules
	High system back pressure	Verify system pressure against tube psi, replace tube and ferrules
No pump output, pump head doesn't rotate	Stripped or cracked roller assembly hub	Replace roller assembly
	Feed rate control problem	Refer to feed rate control troubleshooting
	Motor problem	Refer to motor troubleshooting
Pump output high	Incorrect tube size or setting	Refer to pump output chart and determine dial ring setting or replace tube and ferrules
	Roller assembly broken	Replace roller assembly
	Malfunctioning feed rate control	Refer to feed rate control troubleshooting
	Incorrect motor rpm	Replace with motor that matches pump model

TROUBLESHOOTING PUMP TUBE

NOTICE: A leaking pump tube damages the metering pump. Inspect pump frequently for leakage and wear. Refer to Tube Replacement section for additional safety precautions and instructions.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Tube leaking	Pump tube ruptured	Identify and correct cause, clean components of chemical & replace tube according to manual
	Calcium or mineral deposits	Clean injection fitting; replace tube and duckbill according to manual
	Excessive back pressure	Verify system pressure against tube psi, replace tube and ferrules
	Tube is twisted	Replace tube and ferrules according to manual, hold tube fitting while tightening connecting nut to prevent twisting
	Tube not centered	Clean components of chemical, replace tube and ferrules according to manual & confirm tube is centered
Tube life is shortened	Chemical attack	Check chemical compatibility
	Mineral deposits at injection point	Clean injection fitting. Replace tube, ferrules & duckbill according to manual
	Sediment blockage at check valve	Clean injection fitting, ensure suction line is 3" above tank bottom. Use suction line strainer.
	Degraded check valve duckbill	Replace duckbill. At every tube change, replace duckbill & ferrules.
	Duckbill in wrong orientation	Reverse duckbill orientation
	Seized rollers caused abrasion on tube	Clean roller assembly or replace, do not lubricate
	Exposure to heat or sun	Do not store tubes in high temperatures or in direct sunlight
Tube connection is leaking	Ferrules installed incorrectly, missing or damaged	Replace ferrule, beveled end faces pump
	3/8" nut loose	Firmly hold adapter and finger tighten nut. Wrench tighten additional 1/2 turn.
	Missing ferrule in 3/8" adapter	Insert new ferrule into adapter or replace adapter fitting
	Sleeve and/or plastic gripper inside 3/8" connecting nut is missing damaged, or incorrectly assembled	Replace if damaged or missing; Reorient if incorrectly assembled; gripper beveled end faces nut; sleeve wider end faces gripper

TUBE REPLACEMENT

⚠ WARNING **RISK OF CHEMICAL EXPOSURE**

- To reduce risk of exposure, check the pump tube regularly for leakage. At the first sign of leakage, replace the pump tube.
- To reduce risk of exposure, the use of proper personal protective equipment is mandatory when working on or near chemical metering pumps.
- To reduce risk of exposure, and also prior to service, shipping, or storage, pump generous amounts of water or a compatible buffer solution to remove chemical from pump.
- Consult chemical manufacturer and SDS sheet for additional information and precautions for the chemical in use.
- Personnel should be skilled and trained in the proper safety and handling of the chemicals in use.
- Inspect tube frequently for leakage, deterioration, or wear. Schedule a regular pump tube maintenance change to prevent chemical damage to pump and/or spillage.

⚠ CAUTION **PINCH POINT HAZARD**

- Use extreme caution when replacing pump tube. Be careful of your fingers and DO NOT place fingers near rollers.

⚠ WARNING **HAZARDOUS PRESSURE/CHEMICAL EXPOSURE**

- Use caution and bleed off all resident system pressure prior to attempting service or installation.
- Use caution when disconnecting discharge line from pump. Discharge may be under pressure. Discharge line may contain chemical.

NOTICE: Indicates special instructions or general mandatory action.

- **DO NOT** apply grease, oil, or lubricants to the pump tube or housing.
- Prior to pump tube replacement, inspect the entire pump head for cracks or damaged components. Ensure rollers turn freely.
- Rinse off chemical residue and clean all chemical and debris from pump head components prior to tube replacement. Apply Aquashield™ to main shaft and tube housing cover bushing during tube replacement.
- **DO NOT** pull excessively on pump tube. Avoid kinks or damage during tube installation.
- Inspect the suction and discharge lines, injection point (into pipe), and check valve duckbill for blockages after any tube rupture. Clear or replace as required.

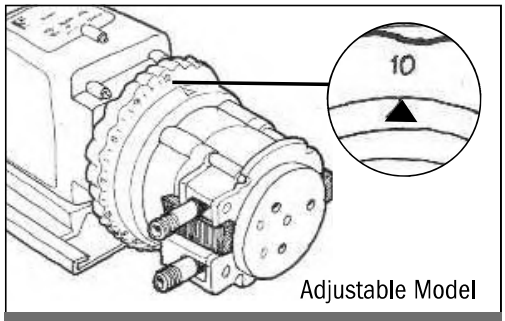
TUBE REPLACEMENT SINGLE HEAD PUMPS

PREPARATION

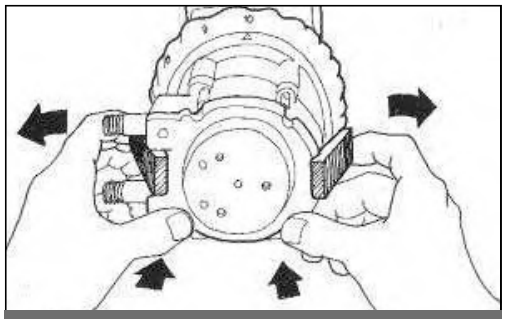
1. Follow all safety precautions prior to tube replacement.
2. Prior to service, pump water or a compatible buffer solution through the pump and suction and discharge lines to remove chemical and avoid contact.

More on next page

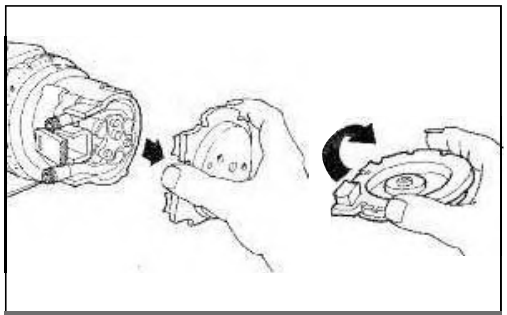
REMOVE THE PUMP TUBE



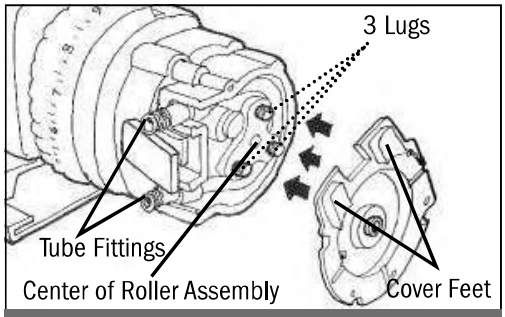
A Adjustable model must be on setting 10



B Open latches



C Remove and invert cover

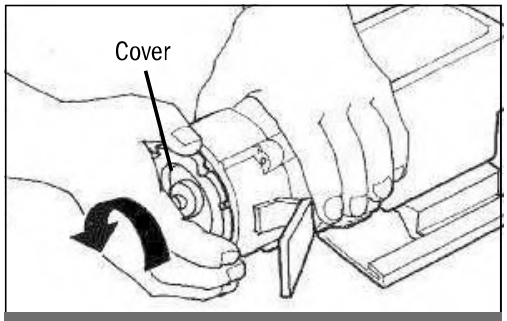


D Align cover feet near tube fittings

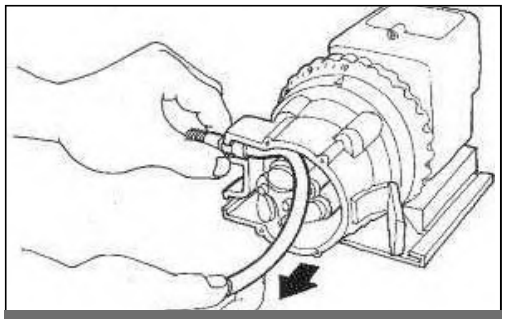
1. Turn the pump off and unplug the power cord. On the adjustable model, ensure that the feed rate control is set to 10. *Illustration A*
2. Depressurize and disconnect the suction and discharge lines.
3. Open the latches on both sides of the head. *Illustration B*
   For CE pump only: Remove the safety screw on cover.
4. Remove the tube housing cover and flip to use as a tool in the next step. *Illustration C*
5. Position the cover feet at 10 o'clock. Align the cover holes with the knurled lugs on the roller assembly. *Illustration D*
   NOTE: The roller assembly must be collapsed to remove the tube.

More on next page

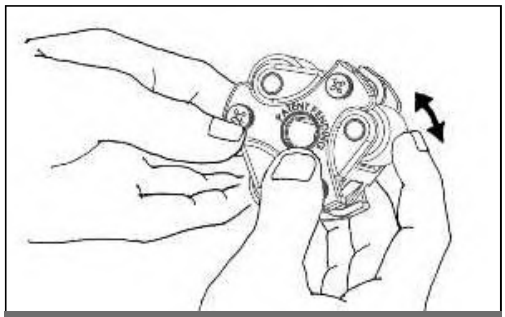
REMOVE THE PUMP TUBE continued



E Collapse roller assembly



F Remove tube

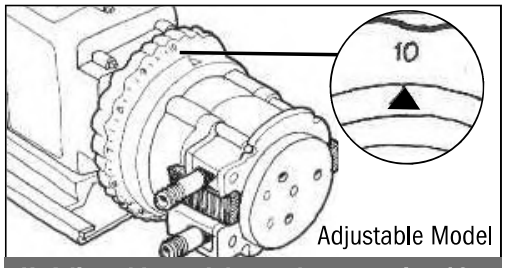


G Check rollers

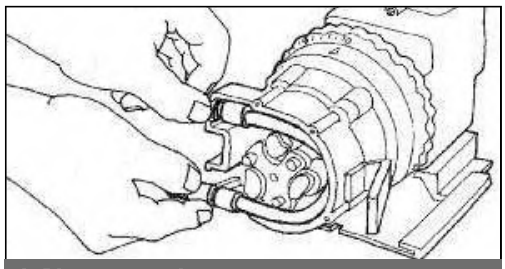
6. On the adjustable pump, hold the feed rate control securely. On the fixed output pump hold the motor securely. Use the tube cover and quickly snap counterclockwise to collapse the roller assembly. The tube will no longer be pressed against the tube housing wall. *Illustration E*
7. Remove and discard the pump tube. *Illustration F*
8. Remove the roller assembly and housing. On the adjustable pump also remove the shaft. Set them aside to reinstall later.
9. Use a non-citrus all-purpose cleaner to clean chemical residue from the tube housing, roller assembly and cover.
10. Check the housing, cover and roller assembly for cracks. Replace if cracked.
11. Ensure the rollers turn freely. Replace the roller assembly if the rollers are seized or worn or if there is a reduction or lack of output from the pump. *Illustration G*
12. Reinstall the clean tube housing. On an adjustable pump, also install the shaft into the feed rate control.
13. Apply AquaShield™ to the shaft tip.
14. Install the roller assembly.

More on next page

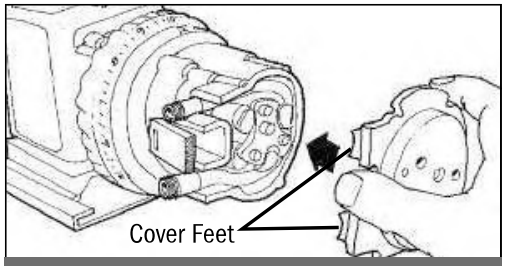
INSTALL THE TUBE/EXPAND THE ROLLER ASSEMBLY



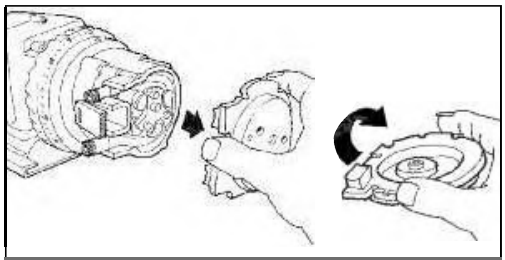
H Adjustable model must be on setting 10



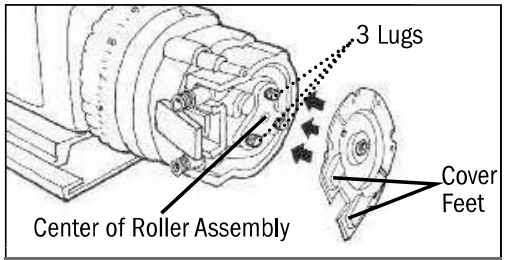
I Place new tube



J Install cover feet first



K Remove and invert cover



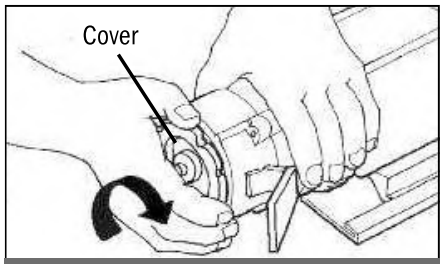
L Align cover feet near the bottom

1. Ensure the power to the pump is off and the power cord is unplugged. On the adjustable model, ensure that the feed rate control is set to 10. *Illustration H*
2. Place the new tube in the pump head and use your fingers to center it on the rollers. *Illustration I*
3. Place the tube housing cover (feet first) on the tube housing, affix the front of the latches to the cover lip and then press the latches back to secure. Be sure the cover is seated with the sleeve bearing on the shaft and is flush with the housing before latching. *Illustration J*
4. With the cover latched, plug the pump in and turn the power on. Allow the pump to run the roller assembly in its collapsed position for approximately 2 to 4 minutes to relax the tube.
5. Turn the pump off and unplug the power cord.
6. Remove the tube housing cover and flip to use as a tool in the next step. *Illustration K*
7. Position the cover feet near the tube fittings. Align the cover holes with the knurled lugs on the roller assembly. *Illustration L*

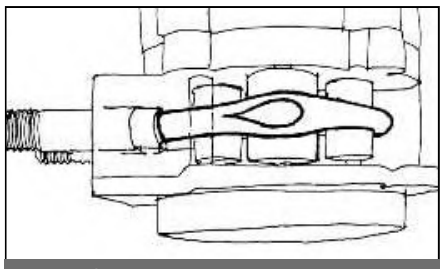
More on next page

INSTALL THE TUBE/EXPAND THE ROLLER ASSEMBLY continued

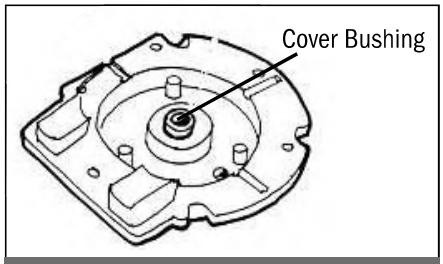
IMPORTANT: THE ROLLER ASSEMBLY MUST BE EXPANDED so the tube is pressed against the tube housing wall.



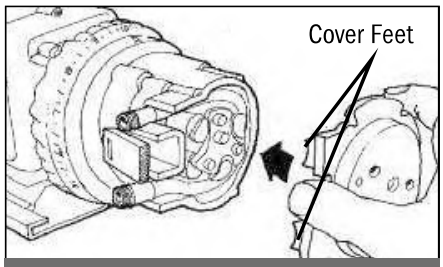
M Expand roller assembly



N Confirm roller assembly is expanded



O Apply Aquashield™ to cover bushing



P Install cover feet first

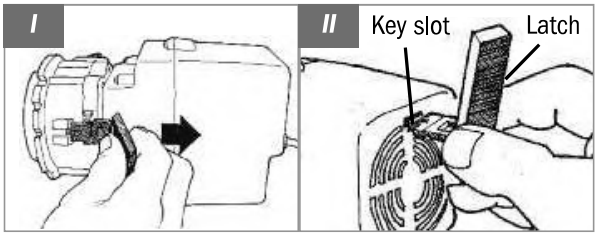
8. Expand roller assembly.

Adjustable Models

Hold the feed rate control securely, use the cover and gently rotate the roller assembly clockwise to expand the roller assembly. The tube will be pressed against the tube housing wall. *Illustrations M & N*

Proceed to step 9.

Fixed Output Models (motor vent with key slot, manufactured after 04/29/11)



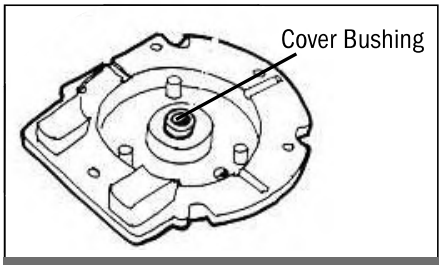
a. Slide one latch out to remove it from the tube housing. Insert the latch end into the key slot in the vent in the rear of the motor housing. *Illustrations I & II*

b. While pressing the latch into the rear of the motor, hold the motor securely, use the cover and gently rotate the roller assembly clockwise to expand the roller assembly. The tube will be pressed against the tube housing wall. *Illustrations M & N*

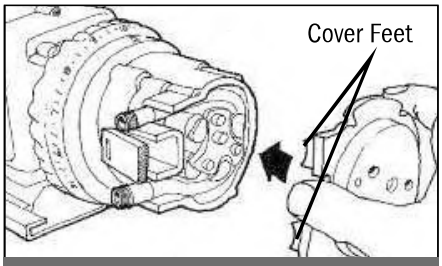
c. Re-attach latch to the tube housing.
Proceed to step 9.

More on next page

INSTALL THE TUBE/EXPAND THE ROLLER ASSEMBLY continued



O Apply Aquashield™ to cover bushing



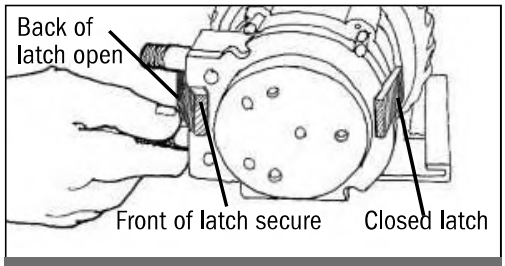
P Install cover feet first

9. Apply a small amount of AquaShield™ to the cover bushing ONLY. **DO NOT** lubricate the pump tube. *Illustration O*

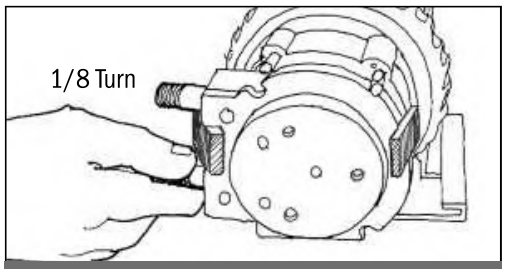
10. Place the tube housing cover (feet first) on the tube housing, affix the front of the latches to the cover lip and then press the latches back to secure. Be sure the cover is seated with the sleeve bearing on the shaft and is flush with the housing, before latching. *Illustration P*

More on next page

CENTER THE TUBE



Q Prepare to center tube



R Center tube

1. Ensure the pump is off. Lift the latch located between the tube fittings, leaving the end of the latch engaged with the lip on the tube housing cover. Leave the latch on the opposite side closed. *Illustration Q*
2. Plug the pump in and turn it on. Turn the tube fitting on the suction side not more than 1/8 of a turn in the direction the tube must move. *Illustration R*
3. **DO NOT** let go of the fitting until the tube rides approximately in center of the rollers.
4. Turn the pump off, let go of the fitting, and secure the latch between the fittings. *For CE pump only: Reinstall the safety screw on the cover.*
5. Inspect the suction and discharge lines, point of injection, and check valve duckbill for blockages. Clean all deposits and/or replace parts as required and always replace ferrules. Failure to do so may lead to poor pump performance, including shortened tube life.
6. Reconnect the suction and discharge lines. **DO NOT** allow the tube fittings to turn inside the pump housing.
7. Turn the pump on and run for two minutes to verify operation.

CLEANING THE POINT OF INJECTION

NOTICE: Indicates special instructions or general mandatory action.

Pumps rated 25 psi maximum are installed with an injection fitting and pumps rated 100 psi maximum are installed with a duckbill check valve. Both allow the extension tip to be installed in the center of the pipe directly in the flow of water to help reduce deposit accumulation.

⚠ WARNING Warns about hazards that CAN cause death, serious personal injury, or property damage if ignored.

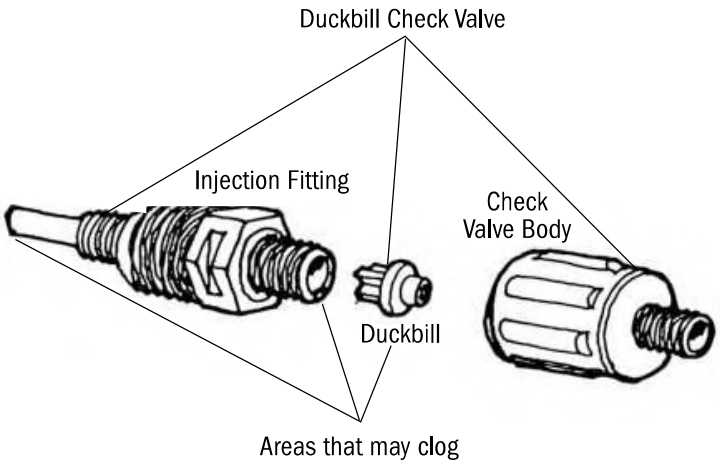
This is the safety alert symbol. When displayed in this manual or on the equipment, look for one of the following signal words alerting you to the potential for personal injury or property damage.

⚠ WARNING HAZARDOUS PRESSURE/CHEMICAL EXPOSURE

Use caution and bleed off all resident system pressure prior to attempting service or installation.

Use caution when disconnecting discharge line from pump. Discharge line may be under pressure. Discharge line may contain chemical.

To reduce risk of exposure, the use of proper personal protective equipment is mandatory when working on or near chemical metering pumps.



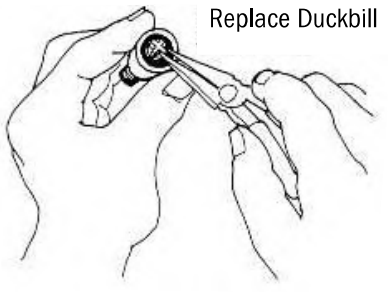
CLEANING THE POINT OF INJECTION continued

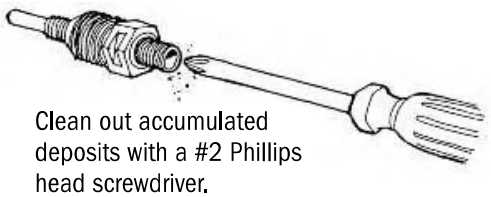
1. Turn metering pump off and unplug cord. Disable water pump or auxiliary equipment electrical supply.
2. Depressurize system and bleed pressure from pump discharge line.
3. Loosen and remove connecting nut and ferrule from the check valve or injection fitting to disconnect discharge tubing.

   Duckbill Check Valve, go to 4.
   Injection Fitting, skip 4 and go to 5.

4. - Unscrew the top fitting (check valve body) to disassemble. The bottom fitting (injection fitting with arrow) should remain attached to the pipe.
   - Remove duckbill from check valve body and replace it.
   - Examine o-ring in the injection fitting and replace if deteriorated or damaged.
5. Insert a #2 Phillips head screwdriver through injection fitting into the pipe to locate or break up accumulated deposits. If screwdriver cannot be inserted, drill the deposit out of the injection fitting (DO NOT drill through the opposite pipe wall).

More on next page





Clean out accumulated deposits with a #2 Phillips head screwdriver.

Periodic inspection and cleaning of the point of injection will maintain proper pump operation and provide maximum tube life.

CLEANING THE POINT OF INJECTION continued

6. Replace discharge line if cracked or deteriorated. If the end is clogged, cut off the calcified or blocked section of discharge line.

7. **Duckbill Check Valve**

   a. Reassemble the duckbill check valve.

   b. Replace ferrule and reinstall the discharge line to the check valve approximately 3/4" until it stops.

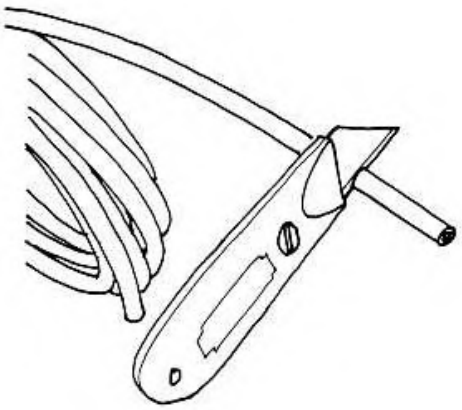
   Injection Fitting

   Replace ferrule and reinstall the discharge line to the injection fitting approximately 3/4" until it stops.

8. Tighten the connecting nut finger tight.

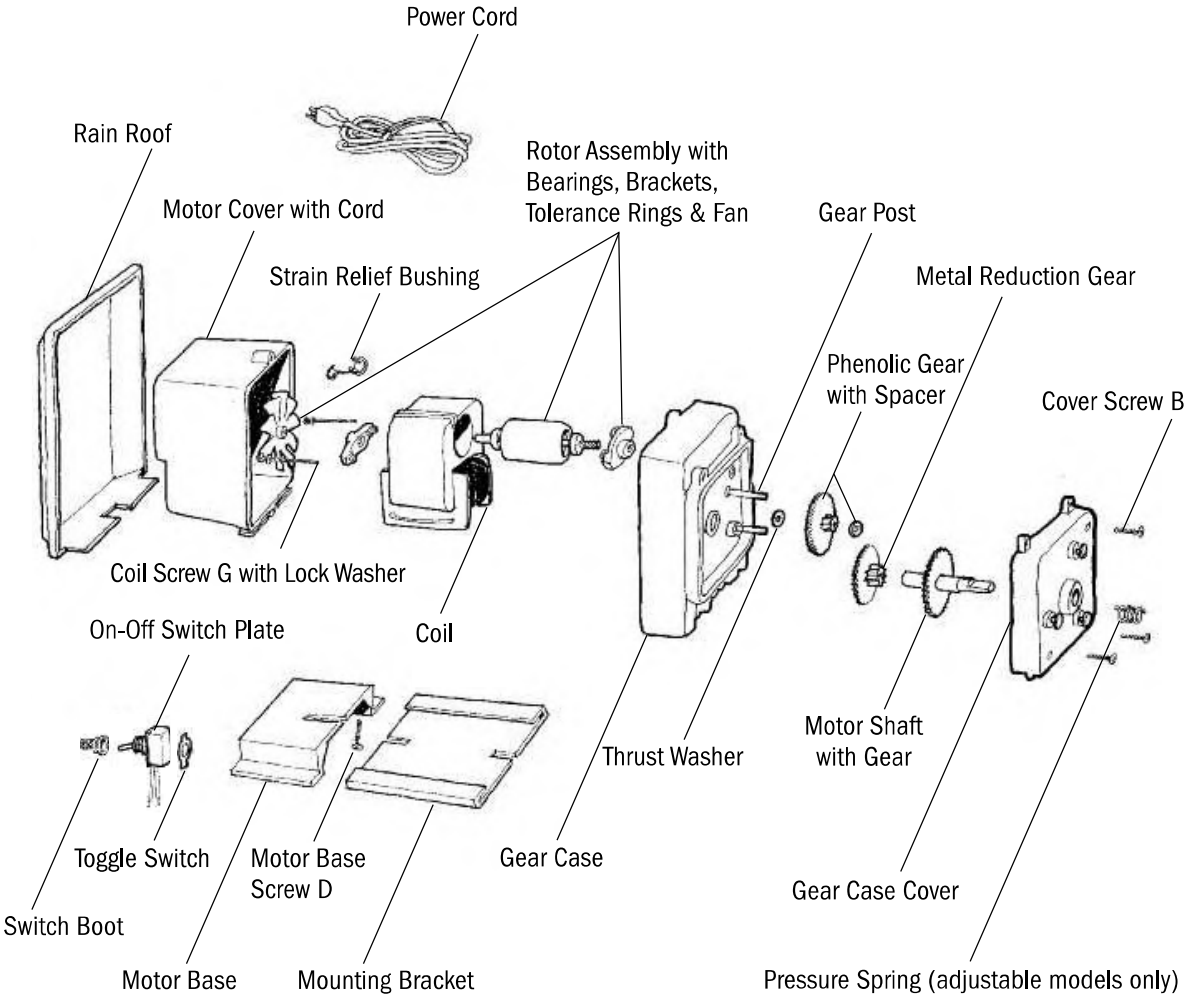
9. Enable the water pump electrical supply and pressurize the water system.
   NOTE: The roller assembly needs to be expanded so the tube is pressed against the tube housing wall.

10. Put the metering pump back in service and inspect all connections for leaks.



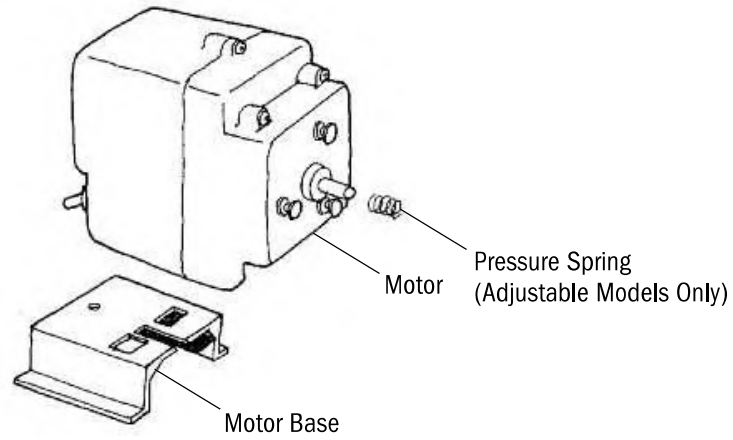
Cut off the calcified or blocked section.

MOTOR EXPLODED VIEW



Contact factory for part numbers.

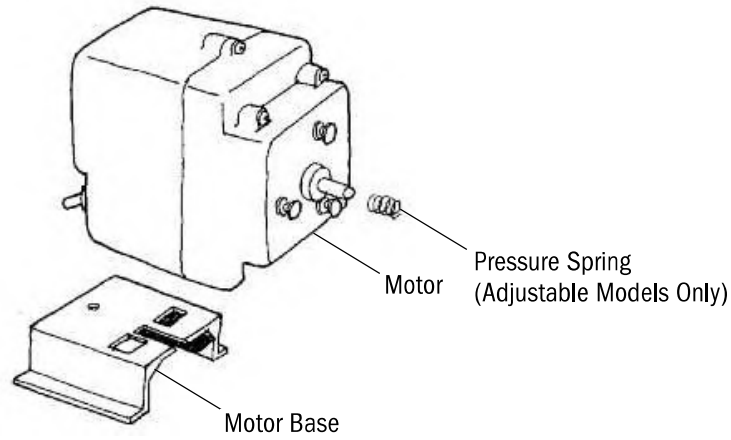
MOTOR 60Hz



MOTOR 60Hz

DESCRIPTION	WORKS WITH	PART NUMBER	UM
120V	Classic Adjustable 45, 100	**PM6041D**	EA
220V		**PM6042D**	EA
120V	Classic Adjustable 85, 170	**PM6081D**	EA
220V		**PM6082D**	EA
120V	Classic Fixed 45	**ME6041D**	EA
220V		**ME6042D**	EA
120V	Classic Fixed 85	**ME6081D**	EA
220V		**ME6082D**	EA
120V	Classic Fixed 100	**DM6041D**	EA
220V		**DM6042D**	EA
120V	Classic Fixed 170	**DM6081D**	EA
220V		**DM6082D**	EA

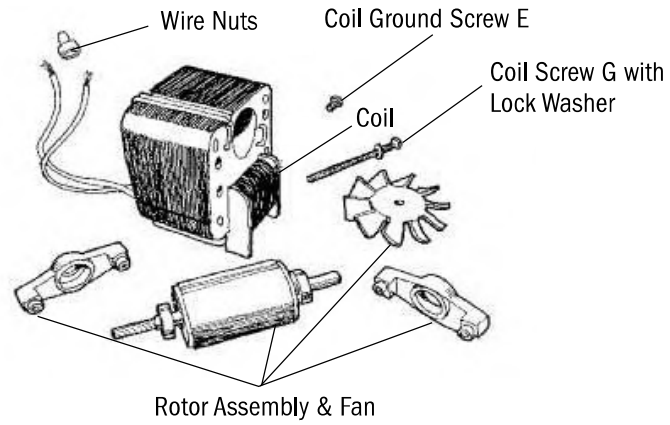
MOTOR 50Hz *International*



MOTOR 50Hz *International*

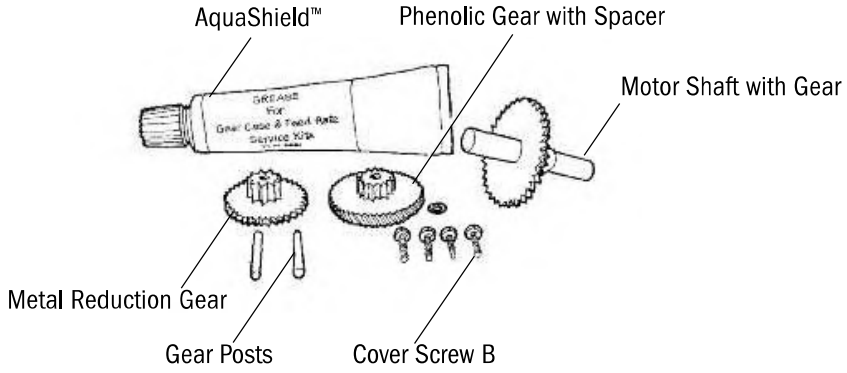
DESCRIPTION	WORKS WITH	PART NUMBER	UM
230V	Classic Adjustable 45, 100	PM64230	EA
250V		PM6426D	EA
230V	Classic Adjustable 85, 170	PM68230	EA
250V		PM6826D	EA
230V	Classic Fixed 45	ME64230	EA
250V		ME6426D	EA
230V	Classic Fixed 85	ME68230	EA
250V		ME6826D	EA
230V	Classic Fixed 100	DM64230	EA
250V		DM64250	EA
230V	Classic Fixed 170	DM68230	EA
250V		DM68250	EA

MOTOR SERVICE KITS



MOTOR SERVICE KIT 60HZ

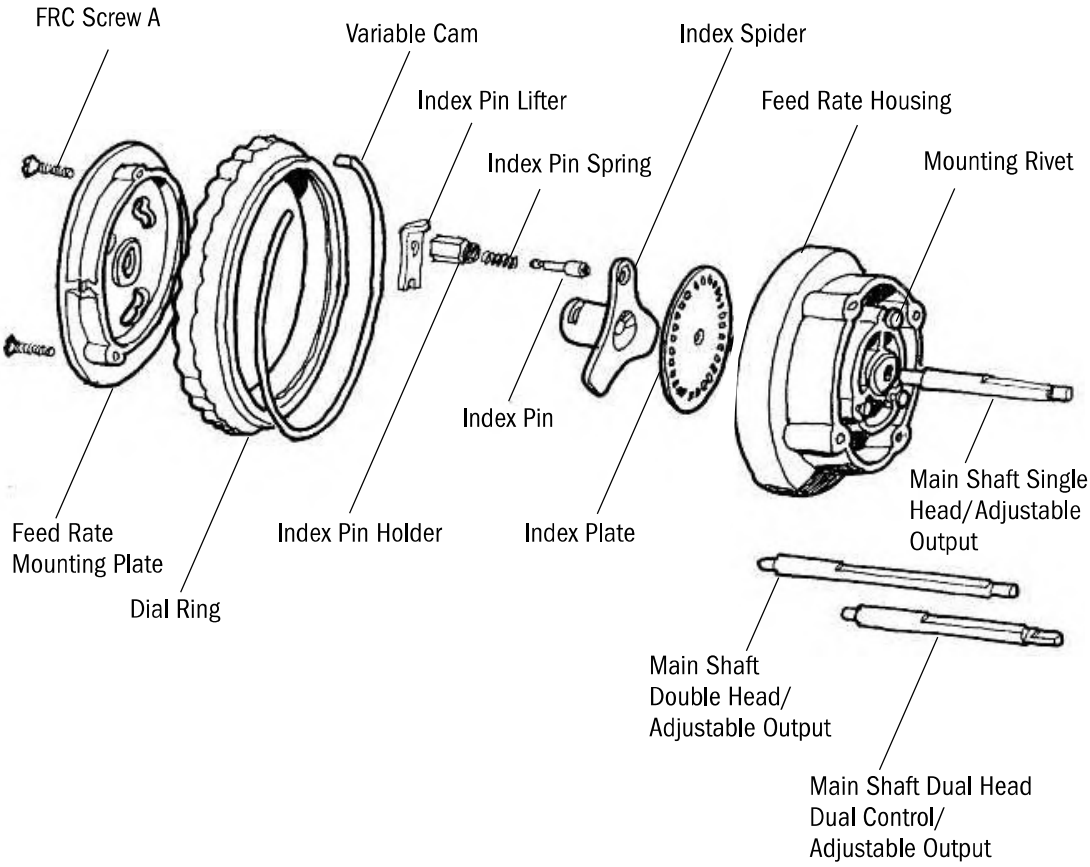
DESCRIPTION	PART NUMBER	UM
120V	MSK120	KIT
220V	MSK220	KIT



GEAR CASE SERVICE KIT

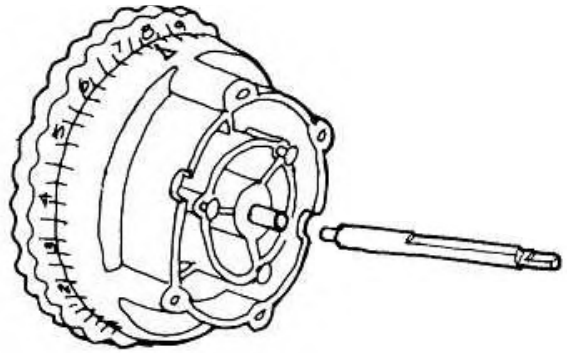
WORKS WITH	PART NUMBER	UM
Classic Adjustable 45, 100	GSK45A	KIT
Classic Adjustable 85, 170	GSK85A	KIT
Classic Fixed 45	GSK45F	KIT
Classic Fixed 85	GSK85F	KIT

FEED RATE CONTROL EXPLODED VIEW



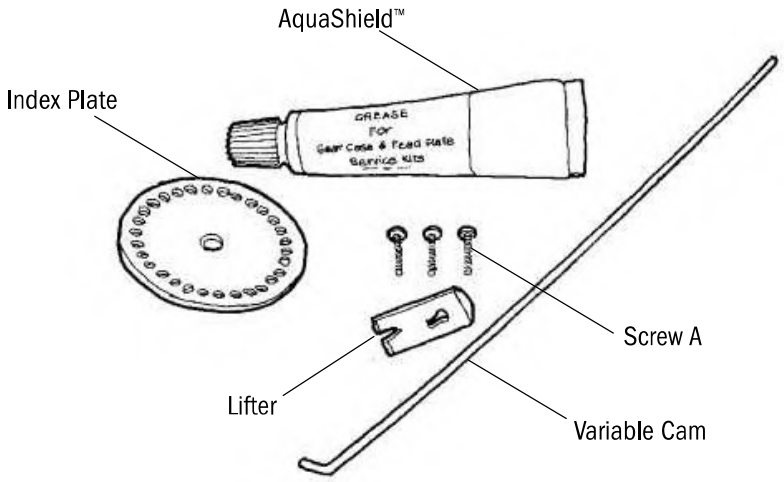
Contact factory for part numbers.

FEED RATE CONTROL AND SERVICE KIT



FEED RATE CONTROL WITH SHAFT

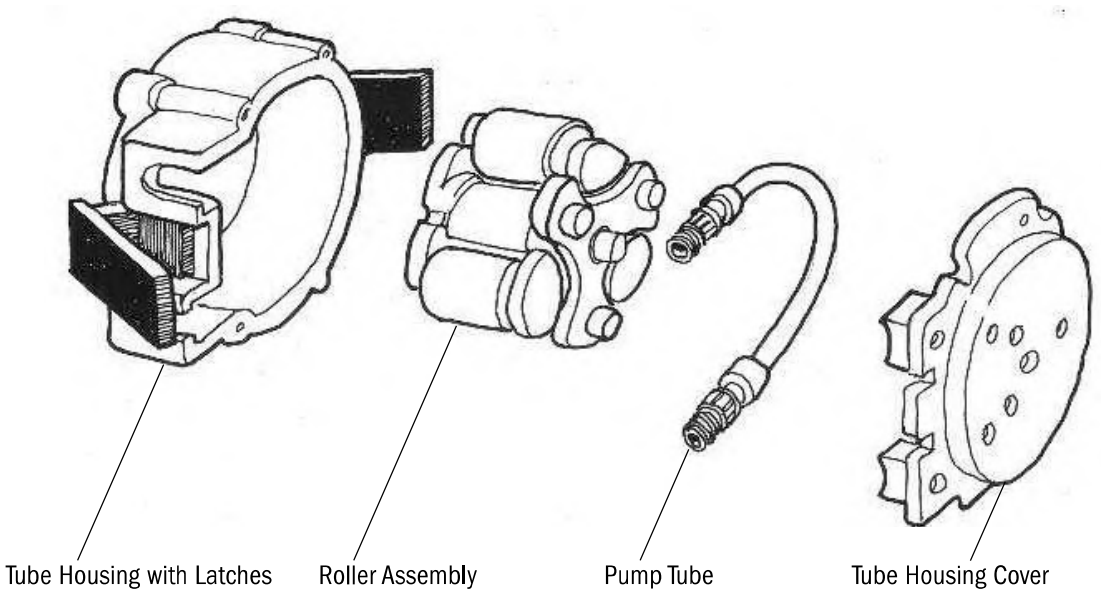
WORKS WITH	PART NUMBER	UM
Classic Adjustable 45, 85	FC5040D	EA
Classic Adjustable 100, 170	DM5040D	EA
Classic Dual Control 100, 170	DM504DC	EA



FEED RATE CONTROL SERVICE KIT

WORKS WITH	PART NUMBER	UM
Classic Adjustable 45, 85, 100, 170	FSK100	KIT

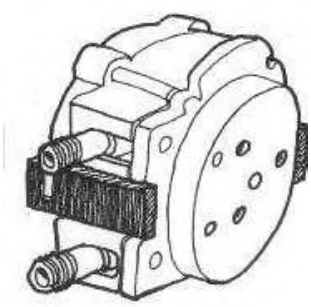
PUMP HEAD EXPLODED VIEW



PUMP HEAD PARTS

DESCRIPTION	EA	2-PK	4-PK
Tube Housing & Latches	QP400-1	QP400-2	———
Latches	———	QP401-2	———
Roller Assembly	QP500–1	———	QP500–4
Tube Housing Cover & Bushing	QP100–1	———	QP100–4

PUMP HEAD



Refer to the **FLOW RATE OUTPUT** chart to match the pump with the correct tube

PUMP HEAD 25 psi max.

Includes tube, ferrules 1/4"

DESCRIPTION	EA	2-PK
#1 Santoprene® QP Pump Head	QP251-1	QP251-2
#2 Santoprene® QP Pump Head	QP252-1	QP252-2
#3 Santoprene® QP Pump Head	QP253-1	QP253-2
#4 Santoprene® QP Pump Head	QP254-1	QP254-2
#5 Santoprene® QP Pump Head	QP255-1	QP255-2
#1 Versilon® QP Pump Head	QP25T1–1	-------
#2 Versilon® QP Pump Head	QP25T2–1	-------
#3 Versilon® QP Pump Head	QP25T3-1	-------
#4 Versilon® QP Pump Head	QP25T4-1	-------
#5 Versilon® QP Pump Head	QP25T5–1	-------

PUMP HEAD 100 psi max.

Includes tube, duckbill, ferrules 1/4"

DESCRIPTION	EA
#1 Santoprene® QP Pump Head	QP101-1
#2 Santoprene® QP Pump Head	QP102-1
#7 Santoprene® QP Pump Head (excludes Classic 100 or 170)	QP107-1
#1 Versilon® QP Pump Head	QP10T1-1
#2 Versilon® QP Pump Head	QP10T2-1

PUMP HEAD 1.7 bar max. *EUROPE*

Includes tube, ferrules 6 mm

DESCRIPTION	EA	2-PK
#1 Santoprene® QP Pump Head	QP171–1	QP171–2
#2 Santoprene® QP Pump Head	QP172–1	QP172–2
#3 Santoprene® QP Pump Head	QP173–1	QP173–2
#4 Santoprene® QP Pump Head	QP174-1	QP174-2
#5 Santoprene® QP Pump Head	QP175-1	QP175-2
#1 Versilon® QP Pump Head	QP17T1-1	-------
#2 Versilon® QP Pump Head	QP17T2-1	-------
#3 Versilon® QP Pump Head	QP17T3-1	-------
#4 Versilon® QP Pump Head	QP17T4-1	-------
#5 Versilon® QP Pump Head	QP17T5-1	-------

PUMP HEAD 6.9 bar max. *EUROPE*

Includes tube, duckbill, ferrules 6 mm

DESCRIPTION	EA
#1 Santoprene® QP Pump Head	QP691-1
#2 Santoprene® QP Pump Head	QP692-1
#7 Santoprene® QP Pump Head (excludes Classic 100 or 170)	QP697-1
#1 Versilon® QP Pump Head	QP69T1-1
#2 Versilon® QP Pump Head	QP69T2-1

NOTE: Confirm chemical compatibility with the chemical resistance guide in the catalog.

PUMP HEAD SERVICE KITS

Roller Assembly

Latches

Ferrules 1/4" or 6 mm *Europe*

Connecting Nuts 1/4"

Pump Tube

Duckbill
(100 psi)

PUMP HEAD SERVICE KIT 25 psi max.

Includes roller assembly, tube, nuts, ferrules 1/4", latches

DESCRIPTION	KIT
#1 Santoprene® QP Kit	QP251K
#2 Santoprene® QP Kit	QP252K
#3 Santoprene® QP Kit	QP253K
#4 Santoprene® QP Kit	QP254K
#5 Santoprene® QP Kit	QP255K
#1 Versilon® QP Kit	QP25T1K
#2 Versilon® QP Kit	QP25T2K
#3 Versilon® QP Kit	QP25T3K
#4 Versilon® QP Kit	QP25T4K
#5 Versilon® QP Kit	QP25T5K

PUMP HEAD SERVICE KIT 1.7 bar max. *EUROPE*

Includes roller assembly, tube, nuts, ferrules 6 mm, latches

DESCRIPTION	KIT
#1 Santoprene® QP Kit	QP171K
#2 Santoprene® QP Kit	QP172K
#3 Santoprene® QP Kit	QP173K
#4 Santoprene® QP Kit	QP174K
#5 Santoprene® QP Kit	QP175K
#1 Versilon® QP Kit	QP17T1K
#2 Versilon® QP Kit	QP17T2K
#3 Versilon® QP Kit	QP17T3K
#4 Versilon® QP Kit	QP17T4K
#5 Versilon® QP Kit	QP17T5K

PUMP HEAD SERVICE KIT 100 psi max.

Includes roller assembly, tube, duckbill, nuts, ferrules 1/4", latches

DESCRIPTION	KIT
#1 Santoprene® QP Kit	QP101K
#2 Santoprene® QP Kit	QP102K
#7 Santoprene® QP Kit	QP107K
#1 Versilon® QP Kit	QP10T1K
#2 Versilon® QP Kit	QP10T2K

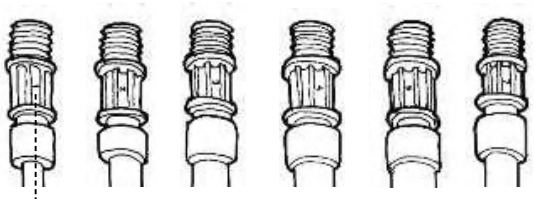
PUMP HEAD SERVICE KIT 6.9 bar max. *EUROPE*

Includes roller assembly, tube, duckbill, nuts, ferrules 6 mm, latches

DESCRIPTION	KIT
#1 Santoprene® QP Kit	QP691K
#2 Santoprene® QP Kit	QP692K
#7 Santoprene® QP Kit	QP697K
#1 Versilon® QP Kit	QP69T1K
#2 Versilon® QP Kit	QP69T2K

NOTE: Confirm chemical compatibility with the chemical resistance guide in the catalog.

PUMP TUBES



1 Tube number located on fitting

Refer to the **FLOW RATE OUTPUT** chart to match the pump with the correct tube

PUMP TUBE Includes ferrules 1/4"

DESCRIPTION	2-PK	5-PK
#1 Santoprene® Tube	UCCP201	MCCP201
#2 Santoprene® Tube	UCCP202	MCCP202
#3 Santoprene® Tube	UCCP203	MCCP203
#4 Santoprene® Tube	UCCP204	MCCP204
#5 Santoprene® Tube	UCCP205	MCCP205
#7 Santoprene® Tube (excludes Classic 100 or 170)	UCCP207	MCCP207
#1 Versilon® Tube	UCTYG01	MCTYG01
#2 Versilon® Tube	UCTYG02	MCTYG02
#3 Versilon® Tube	UCTYG03	MCTYG03
#4 Versilon® Tube	UCTYG04	MCTYG04
#5 Versilon® Tube	UCTYG05	MCTYG05

PUMP TUBE & DUCKBILL

Includes ferrules 1/4"

DESCRIPTION	2-PK
#1 Santoprene® Tube & Duckbill	UCCIFD
#2 Santoprene® Tube & Duckbill	UCCP2FD
#7 Santoprene® Tube & Duckbill (excludes Classic 100 or 170)	UCCP7FD
#1 Versilon® Tube & Duckbill	UCTY1FD
#2 Versilon® Tube & Duckbill	UCTY2FD

PUMP TUBE *EUROPE* Includes ferrules 6 mm

DESCRIPTION	2-PK	5-PK
#1 Santoprene® Tube	UCCP21CE	MCCP21CE
#2 Santoprene® Tube	UCCP21CE	MCCP21CE
#3 Santoprene® Tube	UCCP23CE	MCCP23CE
#4 Santoprene® Tube	UCCP24CE	MCCP24CE
#5 Santoprene® Tube	UCCP25CE	MCCP25CE
#7 Santoprene® Tube (excludes Classic 100 or 170)	UCCP27CE	MCCP27CE
#1 Versilon® Tube	UCTY1CE	MCTY1CE
#2 Versilon® Tube	UCTY2CE	MCTY2CE
#3 Versilon® Tube	UCTY3CE	MCTY3CE
#4 Versilon® Tube	UCTY4CE	MCTY4CE
#5 Versilon® Tube	UCTY5CE	MCTY5CE

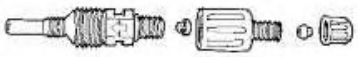
PUMP TUBE & DUCKBILL *EUROPE*

Includes ferrules 6 mm

DESCRIPTION	2-PK
#1 Santoprene® Tube & Duckbill	UC1FDCE
#2 Santoprene® Tube & Duckbill	UC2FDCE
#7 Santoprene® Tube & Duckbill (excludes Classic 100 or 170)	UC7FDCE
#1 Versilon® Tube & Duckbill	UCTY1DCE
#2 Versilon® Tube & Duckbill	UCTY2DCE

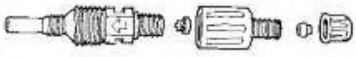
NOTE: Confirm chemical compatibility with the chemical resistance guide in the catalog.

INJECTION FITTINGS & CHECK VALVES



1/4" Duckbill Check Valve

3/8" Duckbill Check Valve



6 mm Duckbill Check Valve

INJECTION FITTINGS 25 psi max.

DESCRIPTION	EA	5-PK
1/4" Injection Fitting with Nut & Ferrule	UCAK300	MCAK300
3/8" Injection Fitting with Nut	UCAK400	———

INJECTION FITTINGS 1.7 bar max. *EUROPE*

DESCRIPTION	EA
6 mm Injection Fitting with Nut & Ferrule	UCAK3CE

DUCKBILL CHECK VALVES 100 psi max.

DESCRIPTION	EA	5-PK
1/4" Includes Santoprene® Duckbill, Nut, Ferrule	UCDBINJ	MCDBINJ
1/4" Includes Pellethane® Duckbill, Nut, Ferrule	UCTYINJ	MCTYINJ
1/4" Includes FKM Duckbill, Nut, Ferrule	UCKMINJ	MCKMINJ
3/8" Includes Santoprene® Duckbill, Nut	UCINJ38	MCINJ38
3/8" Includes Pellethane® Duckbill, Nut	UCTYIJ38	MCTYIJ38
3/8" Includes FKM Duckbill, Nut	UCKMI38	MCKMI38

DUCKBILL CHECK VALVES 6.9 bar max. *EUROPE*

DESCRIPTION	EA	5-PK
6 mm Includes Santoprene® Duckbill, Nut, Ferrule	UCINJCE	MCINJCE
6 mm Includes Pellethane® Duckbill, Nut, Ferrule	UCTINJCE	MCTINJCE
6 mm Includes FKM Duckbill, Nut, Ferrule	UCKMJCE	MCKMJCE

NOTE: Confirm chemical compatibility with the chemical resistance guide in the catalog.

FOR YOUR RECORDS

Pump Item Number

Serial Number

Date of Installation

STENNER PUMPS

STENNER PUMP COMPANY

3174 DeSalvo Road
Jacksonville, Florida 32246 USA

Phone: 904.641.1666
US Toll Free: 800.683.2378
Fax: 904.642.1012

sales@stenner.com
www.stenner.com

Hours of Operation (EST):
Mon.–Thu. 7:30 am–5:30 pm
Fri. 7:00 am–5:30 pm

Assembled in the USA

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IMCL 021822

CONVERSION TABLES AND FORMULAS

MULTIPLY	BY	TO GET
Acres	.4047	Hectares
Acres	43,560	Sq. feet
Acres	4047	Sq. meters
Acres	.001562	Sq. miles
Atmospheres	1.013	Bars
Atmospheres	76.0	Cm. of mercury
Atmospheres	33.90	Feet of water
Atmospheres	29.92	Inches of mercury
Atmospheres	101.325	KiloPascals
Atmospheres	14.70	Pounds/sq. inch
B.T.U.	778.3	Foot pounds
B.T.U.	252.0	Gram calories
B.T.U.	1,054.8	Joules
B.T.U.	.0002928	Kilowatt - hours
Bars	100	KiloPascals
Bars	14.50	Pounds/sq. inch
Calories	.003968	B.T.U.
Calories	3.0880	Foot-pounds
Centimeters	.03281	Feet
Centimeters	.3937	Inches
Centimeters	.01	Meters
Centimeters	10	Millimeters
Centimeters	393.7	Mils
Centimeters of mercury	.01316	Atmospheres
Centimeters of mercury	.4461	Feet of water
Centimeters of mercury	.1934	Pounds/ sq. inch
Chains	792	Inches
Chains	20.12	Meters
Chains	22	Yards
Cubic centimeters	.00003531	Cubic feet
Cubic centimeters	.06102	Cubic inches
Cubic centimeters	.000001	Cubic meters
Cubic centimeters	.001	Liters
Cubic feet	1728	Cubic inches
Cubic feet	.02832	Cubic meters
Cubic feet	.03704	Cubic yards
Cubic feet	7.4805	Gallons
Cubic feet	28.32	Liters
Cubic feet	59.84	Pints (liq.)
Cubic feet	29.92	Quarts (liq.)
Cubic feet/minute	.1247	Gallons/second
Cubic feet/minute	.4719	Liter/second
Cubic feet/minute	62.43	Pounds of water/min.
Cubic feet/second	448.831	Gallons/min.
Cubic inches	16.39	Cubic centimeters
Cubic inches	.0005787	Cubic feet
Cubic inches	.00001639	Cubic meters
Cubic inches	.004329	Gallons
Cubic inches	.01639	Liters
Cubic inches	.03463	Pints (liq.)
Cubic inches	.01732	Quarts (liq.)
Cubic meters	1,000,000	Cubic centimeters
Cubic meters	35.31	Cubic feet
Cubic meters	61,023	Cubic inches
Cubic meters	264.2	Gallons
Cubic meters	2113	Pints (liq.)
Cubic meters	1057	Quarts (liq.)
Cubic meters/hour	4.4	Gallons/minute
Cubic yards	764,600	Cubic centimeters
Cubic yards	27	Cubic feet
Cubic yards	46,656	Cubic inches
Cubic yards	.7646	Cubic meters
Cubic yards	202.0	Gallons
Cubic yards	764.6	Liters
Fathoms	6	Feet
Feet	30.48	Centimeters
Feet	12	Inches
Feet	.3048	Meters
Feet	304.8	Millimeters
Feet of water	.0295	Atmospheres
Feet of water	.8826	Inches of mercury
Feet of water	.4335	Pounds/sq. inch
Feet/minute	.5080	Centimeters/sec.
Feet/minute	.01667	Feet/sec.
Feet/minute	.3048	Meters/min.
Feet/minute	.01136	Miles/hour
Feet/second	18.29	Meters/min.
Feet/second	.6818	Miles/hour
Foot candles	10.764	Lux
Gallons	3785	Cubic centimeters
Gallons	.1337	Cubic feet
Gallons	231	Cubic inches

MULTIPLY	BY	TO GET
Gallons	.003785	Cubic meters
Gallons	3.785	Liters
Gallons	8	Pints (liq.)
Gallons	4	Quarts (liq.)
Gallons of water	8.345	Pounds of water
Gallons/minute	8.0208	Cubic feet/hour
Gallons/minute	3.785	Liters/minute
Gallons/minute	500	Pounds of water/hour
Grams	.001	Kilograms
Grams	1000	Milligrams
Grams	.03527	Ounces
Hectares	2.471	Acres
Inches	2.540	Centimeters
Inches	.02540	Meters
Inches	25.40	Millimeters
Inches	1000	Mils
Inches of mercury	.03342	Atmospheres
Inches of mercury	1.133	Feet of water
Inches of water	.002458	Atmospheres
Inches of water	.03613	Pounds/sq. inch
Joules	.000948	B.T.U.
Joules	.7376	Foot-pounds
Joules	.0002778	Watts-hour
Kilograms	1000	Grams
Kilograms	2.205	Pounds
Kilograms/meter	.6720	Pounds/foot
Kiloliters	1000	Liters
Kilometers	100,000	Centimeters
Kilometers	3281	Feet
Kilometers	1000	Meters
Kilometers	.6214	Miles
Kilometers	1094	Yards
Kilometers/hour	27.78	Centimeters/sec.
Kilometers/hour	54.68	Feet/min.
Kilometers/hour	.9113	Feet/sec.
Kilometers/hour	16.67	Meters/minute
Kilometers/hour	.6214	Miles/hour
KiloPascals	.1450	Pounds/sq. inch
Liters	1000	Cubic centimeters
Liters	.03531	Cubic feet
Liters	61.02	Cubic inches
Liters	.001	Cubic meters
Liters	.2642	Gallons
Liters	2.113	Pints (liq.)
Liters	1.057	Quarts (liq.)
Lumens/sq. foot	1	Foot-candles
Lumens/sq. foot	10.76	Lumens/sq. meter
Lux	.0929	Foot-candles
Meters	100	Centimeters
Meters	3.281	Feet
Meters	39.37	Inches
Meters	.001	Kilometers
Meters	1000	Millimeters
Meters	1.094	Yards
Meters/minute	3.281	Feet/minute
Meters/minute	.05468	Feet/second
Meters/minute	.06	Kilometers/hr.
Meters/minute	.03728	Miles/hr.
Meters/second	196.8	Feet/minute
Meters/second	3.281	Feet/second
Meters/second	3.6	Kilometers/hr.
Meters/second	2.237	Miles/hr.
Microns	.0000394	Inches
Microns	.000001	Meters
Miles	5280	Feet
Miles	1.609	Kilometers
Miles	1,609	Meters
Miles	1760	Yards
Miles/hour	44.70	Centimeters/sec.
Miles/hour	88	Feet/min.
Miles/hour	1.467	Feet/sec.
Miles/hour	1.609	Kilometers/hr.
Miles/hour	26.82	Meters/min.
Milligrams	.001	Grams
Milligrams/liter (liq.)	1	Parts/million
Milliliters	.001	Liters
Millimeters	.1	Centimeters
Millimeters	.003281	Feet
Millimeters	.03937	Inches
Mils	.00254	Centimeters
Mils	.001	Inches
Ounces	28.350	Grams

MULTIPLY	BY	TO GET
Ounces	29.47	Milliliters
Ounces	.0625	Pounds
Pints (liq.)	.4732	Liters
Pints (liq.)	16	Ounces
Pounds	16	Ounces
Pounds/sq. inch	.06804	Atmospheres
Multiply	by	to get
Pounds/sq. inch	2.307	Feet of water
Pounds/sq. inch	2.036	Inches of mercury
Pounds/sq. inch	6.897	KiloPascals
Quarts (liq.)	.9463	Liters
Quarts (liq.)	32	Ounces
Rods	16.5	Feet
Sq. centimeters	.001076	Sq. feet
Sq. centimeters	.1550	Sq. inches
Sq. centimeters	.0001	Sq. meters
Sq. centimeters	100	Sq. millimeters
Sq. feet	929	Sq. centimeters
Sq. feet	144	Sq. inches
Sq. feet	.09290	Sq. meters
Sq. inches	6.452	Sq. centimeters
Sq. inches	.006944	Sq. feet
Sq. inches	645.2	Sq. millimeters
Sq. kilometers	10,760,000	Sq. feet
Sq. kilometers	1,000,000	Sq. meters
Sq. kilometers	.3861	Sq. miles
Sq. meters	10.76	Sq. feet
Sq. meters	1.196	Sq. yards
Sq. miles	640	Acres
Sq. miles	2.590	Sq. kilometers
Sq. yards	9	Sq. feet
Sq. yards	1,296	Sq. inches
Ton (long)	1016	Kilograms
Ton (long)	2240	Pounds
Ton (long)	1.12	Ton (short)
Ton (metric)	1000	Kilograms
Ton (metric)	2205	Pounds
Ton (short)	907.1848	Kilograms
Ton (short)	32,000	Ounces
Ton (short)	2000	Pounds
Ton (short)	.89287	Ton (long)
Ton (short)	.90718	Tons (metric)
Yards	91.44	Centimeters
Yards	36	Inches
Yards	.9144	Meters

* All liquids are in U.S. fluid measurements unless otherwise stated.

DECIMAL AND MILLIMETER EQUIVALENTS OF FRACTIONS

FRACTIONS	DECIMALS	MILLIMETERS
1/32	.03125	.794
1/16	.0625	1.588
3/32	.09375	2.381
1/8	.125	3.175
5/32	.15625	3.969
3/16	.1875	4.763
7/32	.21875	5.556
1/4	.250	6.350
9/32	.28125	7.144
5/16	.3125	7.938
11/32	.34375	8.731
3/8	.375	9.525
13/32	.40625	10.319
7/16	.4375	11.113
15/32	.46875	11.906
1/2	.500	12.700
17/32	.53125	13.494
9/16	.5625	14.288
19/32	.59375	15.081
5/8	.625	15.875
21/32	.65625	16.669
11/16	.6875	17.463
23/32	.71875	18.256
3/4	.750	19.050
25/32	.78125	19.844
13/16	.8125	20.638
27/32	.84375	21.431
7/8	.875	22.225
29/32	.90625	23.019
15/16	.9375	23.813
31/32	.96875	24.606
1	1.000	25.400

CONVERSION TABLES AND FORMULAS

NUMERIC NOTATIONS

Prefix	Numeral	Symbol	Scientific
Tera	1,000,000,000,000	T	1012
Giga	1,000,000,000	G	109
Mega	1,000,000	M	106
Kilo	1000	k	103
Hecto	100	h	102
Deka	10	da	10
	1		
Deci	.1	d	10-1
Centi	.01	c	10-2
Milli	.001	m	10-3
Micro	.000001	μ	10-6
Nano	.000000001	n	10-9
Pico	.000000000001	p	10-12

TEMPERATURE CONVERSION FORMULAS

Degrees Celsius	= 5/9 (degrees Fahrenheit) –32
Degrees Celsius	= degrees Kelvin –273.15
Degrees Fahrenheit	= 1.8 (degrees Celsius) +32
Degrees Fahrenheit	= degrees Rankine –459.67
Degrees Kelvin	= degrees Celsius +273.15
Degrees Rankine	= degrees Fahrenheit +459.67

AVERAGE ABSOLUTE ATMOSPHERIC PRESSURE

Altitude above sea level	PSIA	Inches Hg.	mm. Hg.
0	14.7	29.9	760.0
500	14.4	29.4	744.6
1,000	14.2	29.8	734.3
1,500	13.9	28.3	718.8
2,000	13.7	27.8	708.4
3,000	13.2	26.8	685.6
4,000	12.7	25.9	656.7
5,000	12.2	24.9	630.9
6,000	11.7	24.0	605.5
7,000	11.3	23.1	584.4

TEMPERATURE CONVERSION TABLE

C	F	C	F	C	F	C	F
–40	–40.0	16	60.8	70	158.0	300	572.0
–38	–36.4	17	62.6	75	167.0	305	581.0
–36	–32.8	18	64.4	80	176.0	310	590.0
–34	–29.2	19	66.2	85	185.0	315	599.0
–32	–25.6	20	68.0	90	194.0	320	608.0
–30	–25.6	20	68.0	90	194.0	320	608.0
–28	–18.4	22	71.6	100	212.0	330	626.0
–26	–14.8	23	73.4	105	221.0	335	635.0
–24	–11.2	24	75.2	110	230.0	340	644.0
–22	–7.6	25	77.0	115	239.0	345	653.0
–20	–4.0	26	78.8	120	248.0	350	662.0
–19	–2.2	27	80.6	125	257.0	355	671.0
–18	–0.4	28	82.4	130	266.0	360	680.0
–17	+1.4	29	84.2	135	275.0	365	689.0
–16	3.2	30	86.0	140	284.0	370	698.0
–15	5.0	31	87.8	145	293.0	375	707.0
–14	6.8	32	89.6	150	302.0	380	716.0
–13	8.6	33	91.4	155	311.0	385	725.0
–12	10.4	34	93.2	160	320.0	390	734.0
–11	12.2	35	95.0	165	329.0	395	743.0
–10	14.0	36	96.8	170	338.0	400	752.0
–9	15.8	37	98.6	175	347.0	425	797.0
–8	17.6	38	10.4	180	356.0	450	842.0
–7	19.4	39	102.2	185	365.0	475	887.0
–6	21.2	40	104.0	190	374.0	500	932.0
–5	23.0	41	105.8	195	383.0	525	977.0
–4	24.8	42	107.6	200	392.0	550	1022.0
–3	26.6	43	109.4	205	401.0	575	1067.0
–2	28.4	44	111.2	210	410.0	600	1112.0
–1	30.2	45	113.0	215	419.0	625	1157.0
0	32.0	46	114.8	220	428.0	650	1202.0
1	33.8	47	116.6	225	437.0	675	1247.0
2	35.6	48	118.4	230	446.0	770	1292.0
3	37.4	49	120.2	235	455.0	725	1337.0
4	39.2	50	122.0	240	464.0	750	1382.0
5	41.0	51	123.8	245	473.0	775	1427.0
6	42.8	52	125.6	250	482.0	800	1472.0
7	44.6	53	127.4	255	491.0	825	1517.0
8	46.4	54	129.2	260	500.0	850	1562.0
9	48.2	55	131.0	265	509.0	875	1607.0
10	50.0	56	132.8	270	518.0	900	1652.0
11	51.8	57	134.6	275	527.0	925	1697.0
12	53.6	58	136.4	280	536.0	950	1742.0
13	55.4	59	138.2	285	545.0	975	1787.0
14	57.2	60	140.0	290	554.0	1000	1832.0
15	59.0	65	149.0	295	563.0	1050	2732.0

TEMPERATURE RANGES FOR PLASTICS*

	Maximum Use Temp. (°C)	HDT Temp. (°C)	Brittleness Temp. (°C)	Transparency	Autoclaving
ETFE	150	104	–105	Translucent	Yes
FEP	205	158	–270	Translucent	Yes
HDPE	120	65	–100	Translucent	No
LDPE	80	45	–100	Translucent	No
PC	135	138	–135	Clear	Yes
PETG	70	70	-40	Clear	No
PMP	175	85	20	Clear	Yes
PP	135	107	0	Translucent	Yes
PPCO	121	90	–40	Translucent	Yes
PS	90	105	20	Clear	No
PVC (rigid)	70	90	–30	Clear	No
Silicone	200	–46	–117	Translucent	Yes
TFE	288	200	–100	Opaque	Yes

*ABBREVIATION KEY

EFTE = Tefzel
FEP = Teflon
HDPE = high-density polyethylene
LDPE = low-density polyethylene
PC = polycarbonate
PETG = polyethylene terephthalate copolymer
PFA = Teflon PFA*
PMP = polymethylpentene
PP = polypropylene
PPCO = polypropylene copolymer
PS = polystyrene
PVC = polyvinyl chloride
PVDF = polyvinylidene fluoride
TFE = tetrafluoroethylene

THRESHOLD LIMIT VALUES*

TLV in mg/m^3 = $\frac{\text{(TLV in ppm) (gram molecular weight of substance)}}{24.45}$

TLV in ppm = $\frac{\text{(TLV in } mg/m^3\text{) (24.45)}}{\text{gram molecular weight of substance}}$

Volume percent = 10,000 ppm

Volume percent x .0001 = ppm

*Conversion of TLVs in ppm to mg/m^3:

FORMULAS

DOSAGE / WATER

GAS

GPM X .012 X PPM = PPD

Flow X .012 X Dose = Feed Rate

MGD X 8.34 X PPM = PPD

Flow X 8.34 X Dose = Feed Rate

LIQUID

MGD X 8.34 X PPM = PPD

Flow X 8.34 X Dose = Feed Rate

$$\frac{\text{PPD}}{\%\ \text{X SG X 8.34}} = \text{GPD}$$

Conc X Spec Grav X H20 = Gal

PUMP / WATER

$$\frac{\text{GPM X Ft. Head}}{\text{3960 X BHP}} = \text{Pump Eff}$$

BHP - Brake Horsepower to pump

$$\frac{\text{GPM X Ft. Head}}{\text{3960 X Eff.}} = \text{BHP}$$

Cost of Pumping 1,000 Gal.

$$\frac{\text{.189 X Cost KWH X Ft. Head}}{\text{Pump Eff X Motor Eff X 60}}$$

Pressure

PSI X 2.31 = Feet WC

WC - Water Column

Vacuum

Hg X 1.1338 = 1 Ft. WC

Velocity

.408 X GPM / (P")2 = FPS

(P")2 - Pipe Radius in Inches Sq.

1 Gallon = 8.34 Pounds

1 Cubic Foot = 7.48 Gallons

CFS = GPM / 449

CONVERSIONS

LENGTH

1 Mile = 5,280 Feet
1 Mile = 1.609 Kilometers
1 Kilometer = .621 Miles
1 Yard = .9144 Meters
1 Meter = 3.28 Feet
1 Meter = 39.37 Inches
1 Foot = .3048 Meters
1 Inch = 2.54 Centimeters
1 Centimeter = .394 Inches
1 Fathom = 6 Feet
1 Rod = 5.5 Yards

WEIGHT

1 Ton = 2000 Pounds
1 Ton = 907.2 Kilograms
1 Kilogram = 2.205 Pounds
1 Pound = 453.6 Grams
1 Ounce = 28.35 Grams
1 Gram = .0353 Ounces

DRY VOLUME

1 Cu. Meter = 1.308 Cu. Yards
1 Cu. Meter = 35.31 Cu. Feet
1 Cu. Yard = .7646 Cu. Meters
1 Cu. Foot = .0283 Cu. Meters

LIQUID VOLUME

1 Gallon = 3.785 Liters
1 Liter = .2642 Gallons
1 Quart = .9463 Liters
1 Liter = 1.057 Quarts

POWER

1 Horsepower = 746 Watts
1 Hp. = 33000 Ft. Lbs./Min
1 BTU/Hour = .293 Watts
1 BTU = 252 Gram-Calories

ELECTRIC

Ohms = Volts/Amperes
DC Watts = Volts X Amperes

TEMPERATURE

Fahrenheit = Cent. X 1.8 + 32
Cent. = Fahrenheit - 32 / 1.8

SCANNED 8/19/2011 13:14 GR

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

CON 24-06

Application No.: 080924-14
General Permit No.: 36-03239-W

August 19, 2011

USEPPA UTILITY COMPANY INC
P O BOX 640
BOKEELIA, FL 33922

Dear Permittee:

SUBJECT: **General Water Use Permit No.:** 36-03239-W
Project: USEPPA UTILITY COMPANY
Location: LEE COUNTY, S9/T44S/R21E
Permittee: USEPPA UTILITY COMPANY INC

This letter is to notify you of the District's agency action concerning your Notice of Intent to Use Water. This action is taken pursuant to Chapter 40E-20, Florida Administrative Code (F.A.C.). Based on the information provided, District rules have been adhered to and a General Water Use Permit is in effect for this project subject to:

1. Not receiving a filed request for Chapter 120, Florida Statutes, administrative hearing and

2. The attached Limiting Conditions.

The purpose of this application is to obtain a Water Use Permit for public water supply for USEPPA Utility Company (USEPPA) serving 463 persons in the year 2031 with an average per capita use rate of 117 gallons per day. Withdrawals are from the Mid-Hawthorn aquifer via two existing withdrawal facilities. USEPPA proposes to continue to upgrade the reverse osmosis (RO) water treatment system and increase the efficiency. The project was previously permitted as a major general permit, but the permit was allowed to expire. Due to the proposed decrease in population and increase in efficiency of the RO system this permit will be issued as a minor general permit. Staff recommends issuance of the same permit number (36-03239-W) for file continuity.

SCANNED 8/19/2011 13:14 GD

Date Of Issuance: August 19, 2011

Expiration Date: August 19, 2031

Water Use Classification: Public Water Supply

Water Use Permit Status: Expired/Previously Permitted

Environmental Resource Permit Status: Not Applicable

Right Of Way Permit Status: Not Applicable.

Ground Water From: Mid-Hawthorn Aquifer

Permitted Allocation(s):

Annual Allocation:	19,772,400 Gallons
Maximum Monthly Allocation:	2,964,200 Gallons
Maximum Daily Allocation:	97,500 Gallons

Existing Withdrawal Facilities - Ground Water

Source: Mid-Hawthorn Aquifer

2 - 6" X 320' X 90 GPM Wells Cased To 280 Feet

Rated Capacity

Source(s)	Status Code	GPM	MGD	MGM	MGY
Mid-Hawthorn Aquifer	E	180	0.26	7.9	95
Totals:		**180**	**0.26**	**7.9**	**95**

SCANNED 8/19/2011

Should you object to the Limiting Conditions, please refer to the attached Notice of Rights which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have questions concerning this matter. If we do not hear from you prior to the time frame specified in the Notice of Rights, we will assume that you concur with the District's recommendations.

Certificate Of Service

I HEREBY CERTIFY that a Notice of Rights has been mailed to the addressee not later than 5:00 p.m. this 19th day of August, 2011, in accordance with Section 120.60(3), Florida Statutes.

Sincerely,

Thomas Colios
Section Leader
Water Use Regulation Division

TDC /lu

Enclosure

c: Lee County HRS

Limiting Conditions

1. This permit shall expire on August 19, 2031.
2. Application for a permit modification may be made at any time.
3. Water use classification:

   Public water supply

4. Source classification is:

   Ground Water from:
   Mid-Hawthorn Aquifer

5. Annual allocation shall not exceed 19.7724 MG.

   Maximum monthly allocation shall not exceed 2.9642 MG.

6. Pursuant to Rule 40E-1.6105, F.A.C., Notification of Transfer of Interest in Real Property, within 30 days of any transfer of interest or control of the real property at which any permitted facility, system, consumptive use, or activity is located, the permittee must notify the District, in writing, of the transfer giving the name and address of the new owner or person in control and providing a copy of the instrument effectuating the transfer, as set forth in Rule 40E-1.6107, F.A.C.

   Pursuant to Rule 40E-1.6107 (4), until transfer is approved by the District, the permittee shall be liable for compliance with the permit. The permittee transferring the permit shall remain liable for all actions that are required as well as all violations of the permit which occurred prior to the transfer of the permit.

   Failure to comply with this or any other condition of this permit constitutes a violation and pursuant to Rule 40E-1.609, Suspension, Revocation and Modification of Permits, the District may suspend or revoke the permit.

   This Permit is issued to:

   USEPPA Utility Company
   3907 SW 1st Street
   Cape Coral, FL 33991

7. Withdrawal Facilities:

   Ground Water - Existing:

   2 - 6" X 320' X 90 GPM Wells Cased To 280 Feet

SCANNED 8/19/2011 13:14 52

Limiting Conditions

8. Permittee shall mitigate interference with existing legal uses that was caused in whole or in part by the permittee's withdrawals, consistent with the approved mitigation plan. As necessary to offset the interference, mitigation will include pumpage reduction, replacement of the impacted individual's equipment, relocation of wells, change in withdrawal source, or other means.

   Interference to an existing legal use is defined as an impact that occurs under hydrologic conditions equal to or less severe than a 1 in 10 year drought event that results in the:

   (1) Inability to withdraw water consistent with provisions of the permit, such as when remedial structural or operational actions not materially authorized by existing permits must be taken to address the interference; or

   (2) Change in the quality of water pursuant to primary State Drinking Water Standards to the extent that the water can no longer be used for its authorized purpose, or such change is imminent.

9. Permittee shall mitigate harm to existing off-site land uses caused by the permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the permittee to modify withdrawal rates or mitigate the harm. Harm caused by withdrawals, as determined through reference to the conditions for permit issuance, includes:

   (1) Significant reduction in water levels on the property to the extent that the designed function of the water body and related surface water management improvements are damaged, not including aesthetic values. The designed function of a water body is identified in the original permit or other governmental authorization issued for the construction of the water body. In cases where a permit was not required, the designed function shall be determined based on the purpose for the original construction of the water body (e.g. fill for construction, mining, drainage canal, etc.)

   (2) Damage to agriculture, including damage resulting from reduction in soil moisture resulting from consumptive use; or

   (3) Land collapse or subsidence caused by reduction in water levels associated with consumptive use.

SCANNED 8/19/2011 12:15 pm

Limiting Conditions

10. Permittee shall mitigate harm to the natural resources caused by the permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the permittee to modify withdrawal rates or mitigate the harm. Harm, as determined through reference to the conditions for permit issuance includes:

    (1) Reduction in ground or surface water levels that results in harmful lateral movement of the fresh water/salt water interface,

    (2) Reduction in water levels that harm the hydroperiod of wetlands,

    (3) Significant reduction in water levels or hydroperiod in a naturally occurring water body such as a lake or pond,

    (4) Harmful movement of contaminants in violation of state water quality standards, or

    (5) Harm to the natural system including damage to habitat for rare or endangered species.

11. If any condition of the permit is violated, the permit shall be subject to review and possible modification, enforcement action, or revocation.

12. Authorized representatives of the District shall be permitted to enter, inspect, and observe the permitted system to determine compliance with special conditions.

13. The Permittee is advised that this permit does not relieve any person from the requirement to obtain all necessary federal, state, local and special district authorizations.

14. The permit does not convey any property right to the Permittee, nor any rights and privileges other than those specified in the Permit and Chapter 40E-2, Florida Administrative Code.

15. Permittee shall submit all data as required by the implementation schedule for each of the limiting conditions to: SFWMD, Regulatory Support Division, MSC 2420, P.O. Box 24680, West Palm Beach, FL 33416-4680.

16. In the event of a declared water shortage, water withdrawal reductions will be ordered by the District in accordance with the Water Shortage Plan, Chapter 40E-21, F.A.C. The Permittee is advised that during a water shortage, pumpage reports shall be submitted as required by Chapter 40E-21, F.A.C.

17. Pursuant to Subsection 373.243 (4), Florida Statutes, nonuse of the water supply for a period of two years or more at any time within the duration of the permit may result in the District revoking the permit in whole or in part, unless the Permittee can demonstrate that the Permittee's nonuse of water was due to extreme hardship caused by factors beyond the Permittee's control.

18. The Permittee shall notify the District within 30 days of any change in service area boundary. If the Permittee will not serve a new demand within the service area for which the annual allocation was calculated, the annual allocation may then be subject to modification and reduction.

SCANNED 9/15/2011 12:14:21 PM

Limiting Conditions

19. Public water utilities that control, either directly or indirectly, a wastewater treatment plant, and which have determined pursuant to Section 403.064, F.S., that use of reclaimed water is feasible, must provide the District with annual updates of the following information: (1) the status of distribution system construction, including location and capacity of lines; (2) a summary of uncommitted supplies for the next year; (3) copies of any new or amended local mandatory reclaimed water reuse zone ordinances; and (4) a list of end-users who have contracted to receive reclaimed water and the agreed upon quantity of water to be delivered.

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NOTICE OF RIGHTS

As required by Sections 120.569(1), and 120.60(3), Fla. Stat., following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: 1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or 2) within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

Filing Instructions

The Petition must be filed with the Office of the District Clerk of the SFWMD. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** Any person wishing to receive a clerked copy with the date and time stamped must provide an additional copy. A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Any document received by the office of the SFWMD Clerk after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the SFWMD Clerk, P.O. Box 24680, West Palm Beach, Florida 33416.
- Filings by hand-delivery must be delivered to the Office of the SFWMD Clerk. **Delivery of a petition to the SFWMD's security desk does not constitute filing. To ensure proper filing, it will be necessary to request the SFWMD's security officer to contact the Clerk's office**. An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by facsimile must be transmitted to the SFWMD Clerk's Office at (561) 682-6010. Pursuant to Subsections 28-106.104(7), (8) and (9), Fla. Admin. Code, a party who files a document by facsimile represents that the original physically signed document will be retained by that party for the duration of that proceeding and of any subsequent appeal or subsequent proceeding in that cause. Any party who elects to file any document by facsimile shall be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed with the clerk as a result. The filing date for a document filed by facsimile shall be the date the SFWMD Clerk receives the complete document.

SCANNED 9/16/2011 13:14:57 #5

Initiation of an Administrative Hearing

Pursuant to Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 and 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other SFWMD identification number, if known.
2. The name, address and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose the extension. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

If the District takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

Mediation

The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401-.405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Sections 120.60(3) and 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

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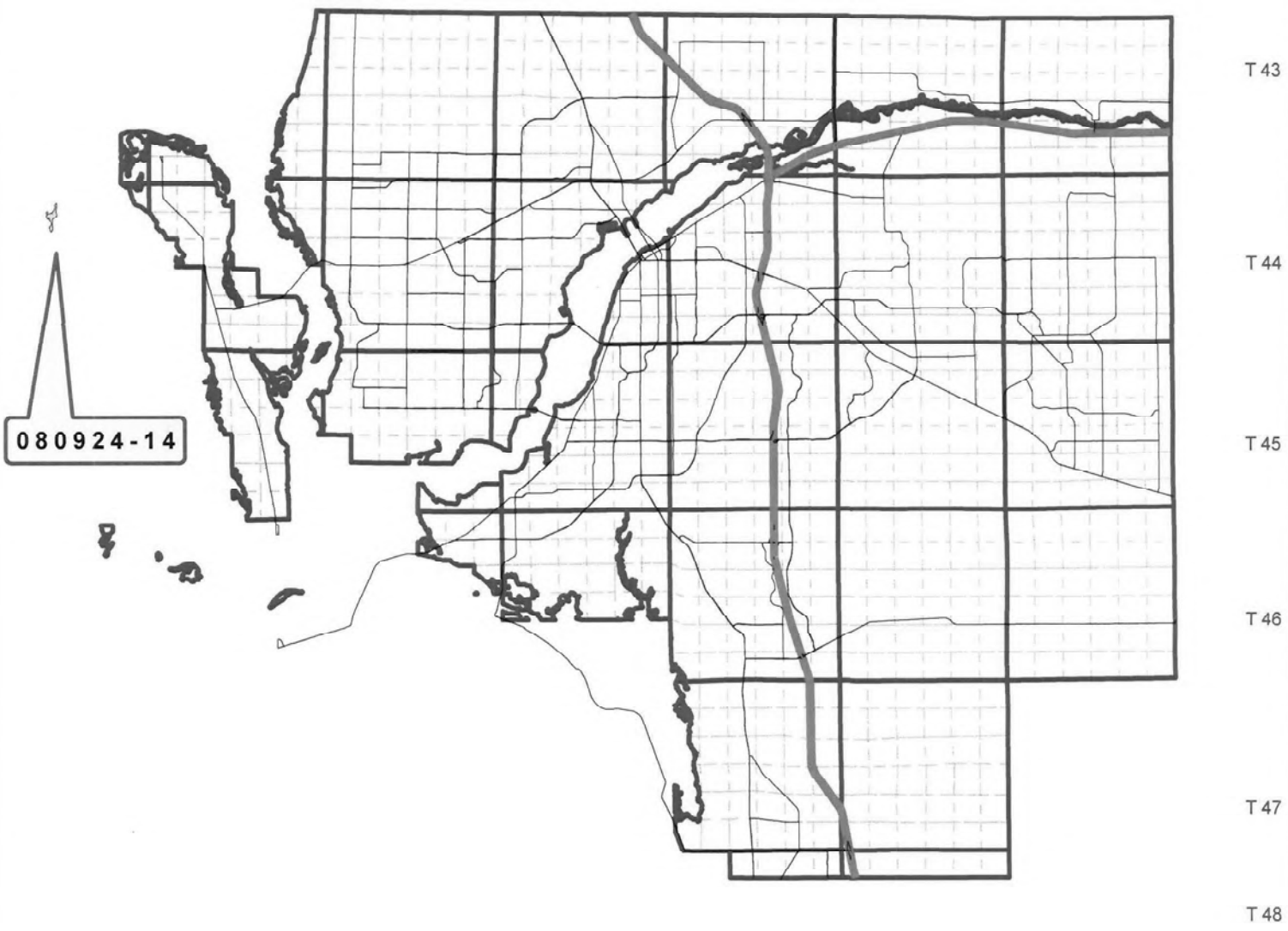


LEE COUNTY, FLORIDA

N

Application Number: 080924-14

Map Date: 2011-08-16

Permit Number: 36-03239-W

Sec 9 / Twp 44 / Rge 21

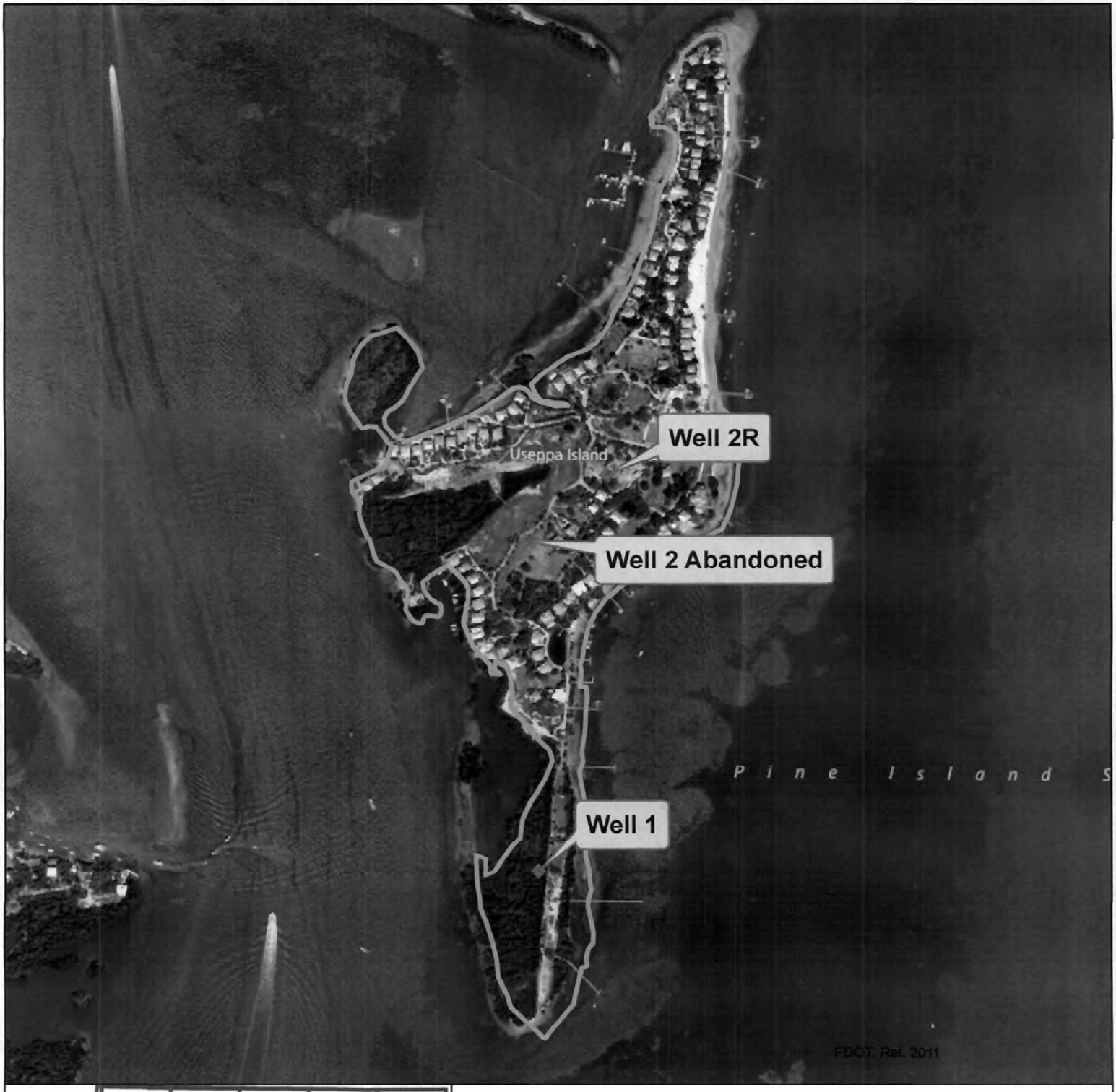
Project Name: USEPPA UTILITY COMPANY

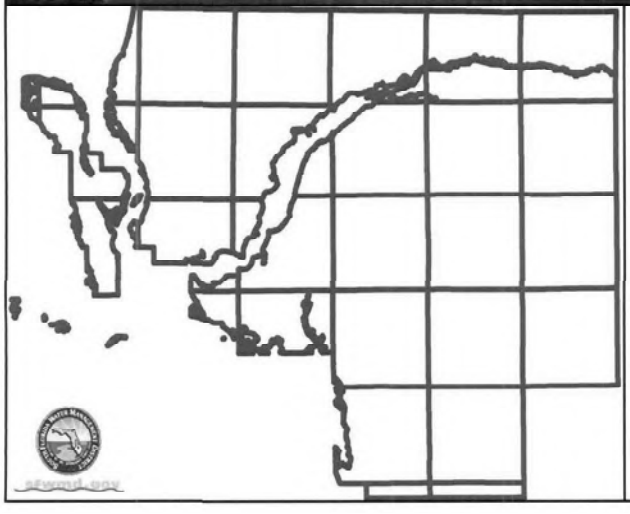
0 34,500 69,000

Feet

Exhibit No: 1

SCANNED 8/19/2011 13:16 GR





LEE COUNTY, FLORIDA

Application

WELL

N

Map Date: 2011-08-17

Application Number: 080924-14

Permit Number: 36-03239-W

Sec 9 / Twp 44 / Rge 21

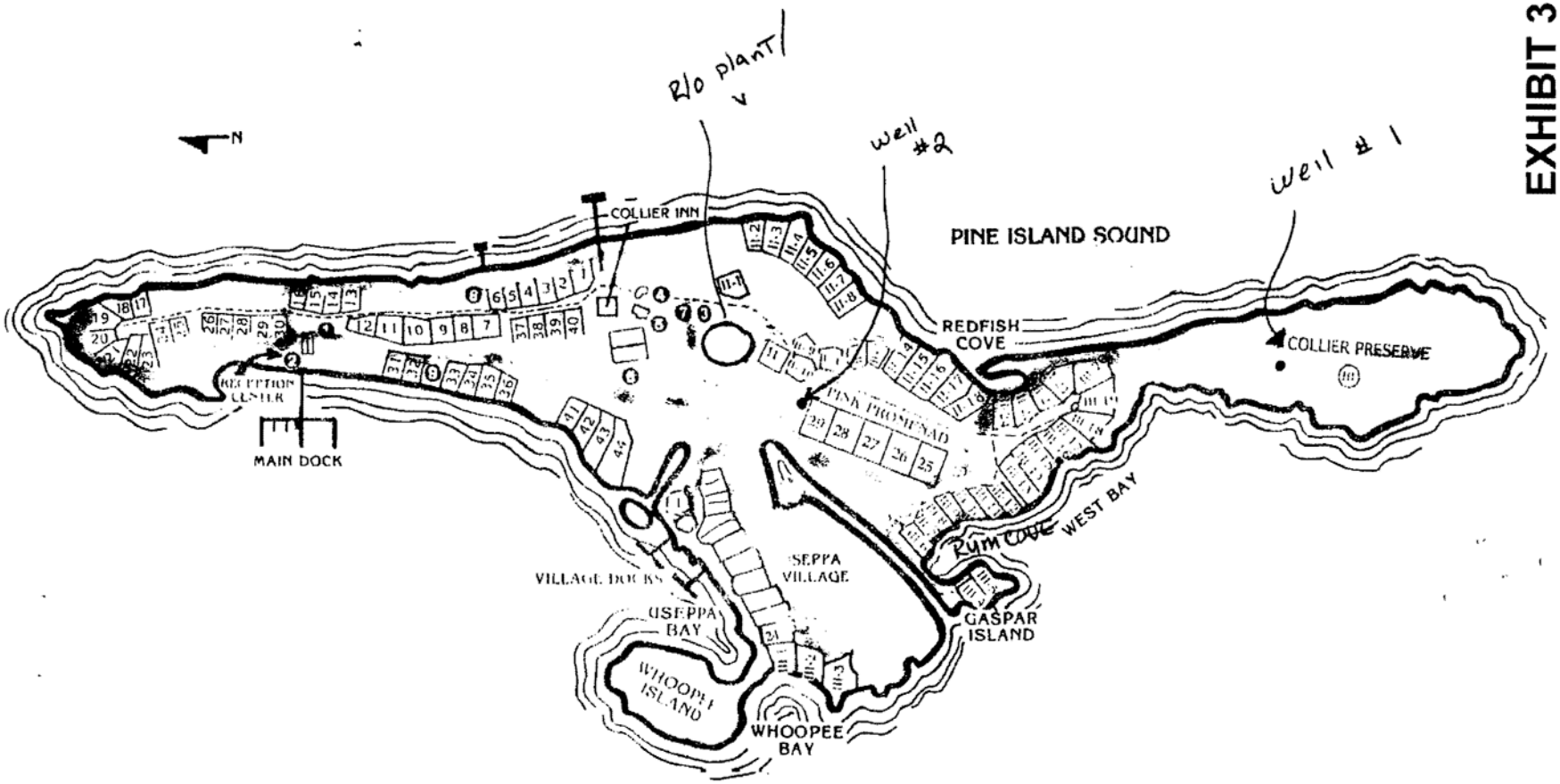
Project Name: USEPPA UTILITY COMPANY

0 0.125 0.25

Miles

Exhibit No: 2

EXHIBIT 3



1. RECEPTION CENTER, ADMINISTRATION, TARPON BAR, AND GENERAL STORE
2. BARBECUE AREA
3. HISTORICAL MUSEUM
4. SWIMMING POOL/SPA/SUN DECK
5. PRO SHOP
6. HAR TRU TENNIS COURTS
7. CROQUET COURTS
8. WHITE SAND BEACH
9. FITNESS CENTER
10. COLLIER PRESERVE
11. FIRE COMPANY RESIDENCE

USEPPA ISLAND CLUB

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SCANNED 8/19/2011 13:17 GR

TABLE - A
Description Of Wells.

Application Number: 080924-14

Well ID	25277	25278	114685
Name	Well 1	Well 2 Abandoned	Well 2R (replace well 2)
Map Designator	Well 1	Well 2 Abandoned	Well 2R
FLUWID Number			
Well Field			
Existing/Proposed	E	E	E
Well Diameter(Inches)	6	4	6
Total Depth(feet)	320	300	320
Cased Depth(feet)	280	290	280
Facility Elev. (ft. NGVD)			
Screened Interval			
From	0	0	
To	0	0	
Pumped Or Flowing	P	P	P
Pump Type	centrifugal	centrifugal	centrifugal
Pump Int. Elev.			
Feet (NGVD)			
Feet (BLS)	110	0	110
Pump Capacity(GPM)	90	0	90
Year Drilled	1989	1989	2002
Planar Location			
Source	APPLICANT	APPLICANT	APPLICANT
Feet East	259848	259783	260209
Feet North	846032	847805	848157
Accounting Method	unspecified	unspecified	flow meter
Use Status	Secondary	Abandoned	Primary
Water Use Type	Public Water Supply	Public Water Supply	Public Water Supply
Aquifer	Mid-Hawthorn Aquifer	Mid-Hawthorn Aquifer	Mid-Hawthorn Aquifer

Exhibit No: 4

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Summary Of Water Use Demands & Recommended Allocation Components

Application Number: 080924-14

Public Water Supply **Recommended Allocation (MGD):** 0.0542 **Recommended Maximum Month Withdrawals (MGM):** 2.9642

Description	Population	Rec. PCUR	<--------- Recommended Demands-- Avg. Daily MGD	Peak Factor	Max Monthly MGM	Delivery System Efficiency	<--------Recommended Alloca Daily MGD	Max. Monthly MGM
USEPPA ISLAND	463	117	0.0542	1.8	2.9642	100%	0.0542	2.9642

Exhibit No: 5

CAPACITY ANALYSIS REPORT

ENGINEERING SERVICES

Prepared for:

USEPPA ISLAND UTILITIES
WATER TREATMENT PLANT
USEPPA ISLAND
Lee County, Florida
PWS ID No. 536-0299

Prepared by:

U.S. Water®
Services Corporation

Water and Wastewater Utility Operations, Maintenance, Engineering, Management
4939 Cross Bayou Boulevard
New Port Richey • FL • 34652

June 2024

PROFESSIONAL ENGINEER CERTIFICATION

I hereby certify that I am a registered Professional Engineer in the State of Florida practicing with U.S. Water Services Corporation, and that I have supervised the preparation and have approved this report for:

PROJECT: **Useppa Island Utilities Company, Inc.**
Water Treatment System
PWS ID No. 536-0299
Useppa Island
Lee County, Florida

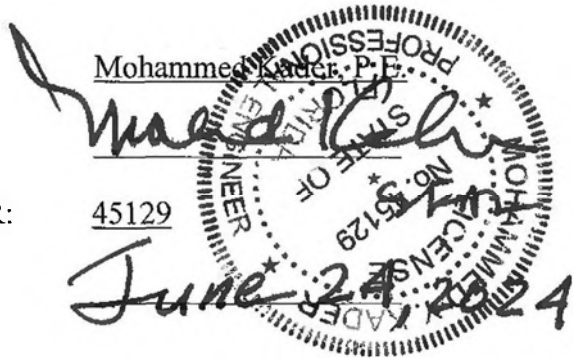
REPORT: **Capacity Analysis Report**

NAME: Mohammed Kader, P.E.

SIGNATURE:

FL PE NUMBER: 45129

DATE: June 24, 2024



U.S. Water®
Services Corporation

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Useppa Island Utilities
Water Treatment Plant
PWS ID No. 5360299
Capacity Analysis Report

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2.1 Average Daily and Maximum Day Demand	2
2.2 Per Capita Consumption	5
3.0 CURRENT AND PROJECTED WATER DEMAND	6
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4.0 SUMMARY AND RECOMMENDATIONS	13
REFERENCES	

Attachment A (Monthly Water Demand Summary Tables & Graph)
Attachment B (RO Permeate and Concentrate Flow Summary Tables & Graph)

U.S. Water®
Services Corporation

1.0 INTRODUCTION

The Useppa Island Reverse Osmosis Water Treatment System serves the Useppa Island community and is located at Useppa Island in Lee County, Florida. Based on FDEP records, the entire water system is currently permitted to produce a maximum of 63,000 gallons per day (GPD) and is currently regulated by the Florida Department of Environmental Regulation (FDEP) under PWS ID No. 5360299. The water system currently serves a total estimated population of about 200 with a total number of service connections of 151.

Raw water is supplied by two (2) wells with withdrawal limits specified by Water Use Permit No. 36-03239-W, as follows:

- Total maximum daily withdrawal limit of 97,500 gallons per day (GPD).
- Maximum monthly withdrawal limit of 2,964,200 gallons per month.
- Total annual withdrawal limit of 19,772,400 gallons per year.as specified by Water Use No. 36-00166-W for the facility.

Based on the water consumption data for the period from July 2014 through May 2024, the maximum daily water demand has exceeded the permitted maximum day treatment capacity of 63,000 GPD intermittently as summarized by Table 2-1 and Figure 2-1 below. In response, the facility is performing an updated capacity analysis report to determine if the water treatment system can be re-rated at a treatment capacity higher than 63,000 GPD based on the existing design capacities of the treatment units.

1.1 Information Source

This report has been prepared by using information obtained from publicly-accessible FDEP and South Florida Water Management District databases, a review of Lee County Department of Health's correspondence and files, a site visit to Useppa Island WTP on April 24, 2024, and information supplied by the facility's operation staff.

2.0 CONSUMPTION PATTERNS

In assessing the capacity of a water supply system, we are generally interested in the following statistical measures of water usage: monthly average demand and maximum day demand. The maximum day demand, annual average and monthly average are of interest to the FDEP who monitor the water use, based on the capacity of the water treatment system. The peak hourly demand is of interest in ascertaining if pump capacities are adequate to meet maximum hourly demand. Monthly water production data reported in the operation reports from July 2014 through May 2024, were accessed from the facility's operating staff. The total maximum withdrawals from the raw water wells are of interest to the South Florida Water Management District pursuant to Water Use Permit No. 36-03239-W which expires on August 19, 2031.

2.1 Average Daily and Maximum Day Demand

Table 2-1 and Figure 2-1 below provide a month-by-month comparison of the available average monthly and maximum daily water demand from July 2014 through May 2024.

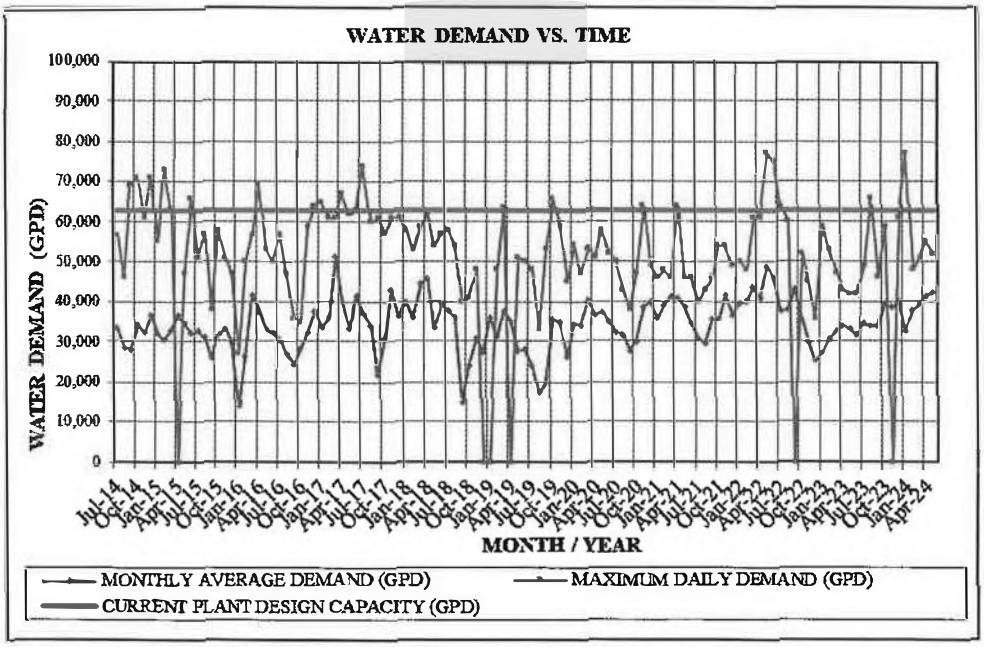


Figure 2-1: WATER DEMAND SUMMARY

Table 2-1
WATER DEMAND SUMMARY

Month/Year	Monthly Average Water Demand (GPD)	Maximum Daily Water Demand (GPD)	Permitted Maximum Daily Design Capacity (GPD)
July-14	33,347	56,600	63,000
August-14	28,677	46,000	63,000
September-14	28,033	69,000	63,000
October-14	34,226	71,000	63,000
November-14	32,290	61,000	63,000
December-14	36,700	71,000	63,000
January-15	31,935	55,000	63,000
February-15	30,429	73,000	63,000
March-15	32,774	63,000	63,000
April-15	36,800	89000*	63,000
May-15	34,581	47,000	63,000
June-15	31,948	66,000	63,000
July-15	32,613	51,000	63,000
August-15	31,032	57,000	63,000
September-15	25,933	38,000	63,000
October-15	31,774	58,000	63,000
November-15	33,500	51,000	63,000
December-15	29,871	47,000	63,000
January-16	13,774	27,000	63,000
February-16	26,464	50,000	63,000
March-16	41,687	56,700	63,000
April-16	37,633	69,000	63,000
May-16	33,290	53,000	63,000
June-16	32,367	50,000	63,000
July-16	30,581	57,000	63,000
August-16	26,935	47,000	63,000
September-16	24,533	36,000	63,000
October-16	28,226	35,000	63,000
November-16	32,320	59,000	63,000
December-16	37,742	64,000	63,000
January-17	33,806	65,000	63,000
February-17	36,143	61,000	63,000
March-17	51,290	61,000	63,000
April-17	40,100	67,000	63,000
May-17	33,290	62,000	63,000
June-17	41,667	63,000	63,000
July-17	36,871	74,000	63,000
August-17	34,129	60,000	63,000
September-17	21,800	61,000	63,000
October-17	30,839	57,000	63,000
November-17	42,833	61,000	63,000
December-17	36,613	61,000	63,000
January-18	40,065	58,000	63,000

February-18	36,179	53,000	63,000
March-18	44,484	59,000	63,000
April-18	45,900	62,000	63,000
May-18	33,645	54,000	63,000
June-18	39,693	57,000	63,000
July-18	37,710	58,000	63,000
August-18	36,258	54,000	63,000
September-18	15,267	40,000	63,000
October-18	24,194	41,000	63,000
November-18	30,800	48,000	63,000
December-18	27,258	91000*	63,000
January-19	36,129	86000*	63,000
February-19	31,043	48,000	63,000
March-19	37,929	63,800	63,000
April-19	35,367	90000*	63,000
May-19	27,608	51,000	63,000
June-19	28,200	50,000	63,000
July-19	23,968	48,000	63,000
August-19	17,387	33,000	63,000
September-19	19,800	53,000	63,000
October-19	35,645	66,000	63,000
November-19	34,900	59,000	63,000
December-19	26,290	45,000	63,000
January-20	34,367	54,000	63,000
February-20	34,071	47,000	63,000
March-20	40,419	53,000	63,000
April-20	36,733	51,000	63,000
May-20	37,513	58,000	63,000
June-20	35,367	52,000	63,000
July-20	32,419	50,000	63,000
August-20	31,839	43,000	63,000
September-20	27,733	38,000	63,000
October-20	29,968	47,000	63,000
November-20	38,900	64,000	63,000
December-20	39,935	49,000	63,000
January-21	35,871	46,000	63,000
February-21	39,143	48,000	63,000
March-21	41,367	46,000	63,000
April-21	41,133	64,000	63,000
May-21	38,645	46,000	63,000
June-21	34,767	46,000	63,000
July-21	30,733	40,000	63,000
August-21	29,581	43,000	63,000
September-21	35,793	46,000	63,000
October-21	35,742	54,000	63,000
November-21	41,633	54,000	63,000
December-21	36,903	49,000	63,000
January-22	39,774	50,000	63,000

February-22	39,964	48,000	63,000
March-22	43,516	61,000	63,000
April-22	41,133	61,000	63,000
May-22	48,774	77,000	63,000
June-22	45,900	75,000	63,000
July-22	37,677	64,000	63,000
August-22	38,258	60,000	63,000
September-22	43,231	92000*	63,000
October-22	35,423	52,000	63,000
November-22	30,133	45,000	63,000
December-22	25,355	36,000	63,000
January-23	27,419	59,000	63,000
February-23	30,714	53,000	63,000
March-23	32,839	47,000	63,000
April-23	34,100	43,000	63,000
May-23	33,194	42,000	63,000
June-23	31,600	42,000	63,000
July-23	34,613	49,000	63,000
August-23	33,839	66,000	63,000
September-23	34,000	46,000	63,000
October-23	39,581	59,000	63,000
November-23	38,620	97000*	63,000
December-23	40,323	61,000	63,000
January-24	32,742	77,000	63,000
February-24	37,690	48,000	63,000
March-24	39,258	51,000	63,000
April-24	41,467	55,000	63,000
May-24	42,161	52,000	63,000
Average:	**34,294**	**54,027**	**Max Day/Annual Avg Ratio**
Maximum:	**51,290**	**77,000**	**2.24**

*NOTE: These highly irregular flows are considered anomalies that are likely attributable to line breaks and/or emergency repairs.

2.2 Per Capita Consumption

Based on a total served population of 200 and the previous 10-year monthly average daily water demand of 34,294 GPD, the estimated average per capita daily water consumption is about 172 gpcd.

3.0 CURRENT AND PROJECTED WATER DEMAND

The service area for the Useppa Island Community Water System is located within the island and serves mostly single family residential homes, condominiums, and restaurants. Based on the water demand data for the past ten (10) years, the annual average water demand was approximately 34,294 GPD. This average demand is projected to follow the same patterns in the future due to insignificant future growth within the island.

As shown by Table 2-1 above, the existing water treatment system has exceeded its maximum day permitted capacity of 63,000 GPD few times in the past ten years. These exceedances are likely attributable to emergencies such as watermain breaks and high irrigation demand. To address this issue, the facility has already initiated design plans to expand the storage capacity by building a new 50,000-gallon above-ground storage tank (GST) in addition to the existing 100,000 GST. Completion of construction of the new GST is currently underway and is projected to be completed within the next 5-6 months.

4.0 WATER TREAMENT CAPACITY

The raw water from the existing two (2) water supply wells is pumped into the existing Reverse Osmosis (RO) treatment unit after receiving filtration through a cartridge filtration unit. The permeate from the RO system flows into an aeration tower. After aeration, the water is pumped into the existing 100,000-gfallon ground storage tank (GST). From the ground storage tank, the finished water is pumped into the distribution system through a 1,000-gallon hydropneumatic tank by two 10-HP high service pumps each rated at 140 GPM.

The existing RO skid is currently capable of producing 40,000 GPD which is below the permitted maximum daily limit of 63,000 GPD.

4.1 Water Supply Wells

Water is currently supplied by two water supply wells known as Well #1 and Well #2R. These wells are permitted under Water Use Permit No. 36-03239-W which expires on August 19, 2031. A list of the wells associated with the WTP with their pumping capacities is given in the table below.

Table 4-1
Water Supply Wells at WTP

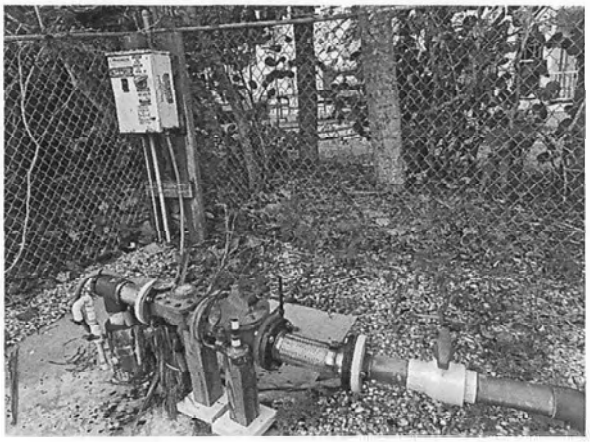
Well ID	Pumping Capacity	Max Daily Withdrawal Limit	Max Monthly Withdrawal Limit	Annual Withdrawal Limit
1	90 GPM	97,500 Gallons per Day (GPD)	2,964,200 Gallons per Month	19,772,400 Gallons per Year
2R	90 GPM			
Total capacity (two wells in service):	**259,200**			
Firm capacity (one well in service):	**129,600**			

Based on a well withdrawal limit of 97,500 GPD and an average RO recovery rate of 0.80 (for new RO skid), the potential permeate production capacity = Feed Rate (90 GPM) X Recovery Rate (0.71)

= 97,500 GPD x 0.8 = **78,000 GPD**

RO Concentrate Production Capacity = 90 GPM X 0.20 = **18 GPM** = **25,920 GPD**

This projected RO concentrate flow is less than the allowable limit of 50 GPM (72,000 GPD) imposed by UIC Permit No. 045884-005-UO for the Class V Injection Well System.



EXISTING WATER SUPPLY WELLS (WELL 1 and WELL 2R)

4.2 Aeration System

The existing fiber glass forced draft aerator is mounted on its clear well adjacent to the building which houses the RO skid as shown by the photo below. This aerator was originally sized for approximately 44 GPM (63,000 GPD). However, under any future expansion of the water treatment system, we recommend replacement of this aeration tower with a new one that is capable to handle at least 56 GPM (80,000 GPD).

EXISTING AERATION TOWER

4.3 Reverse Osmosis Demineralization Water Treatment System

As mentioned above, the raw water from the two water supply wells is treated through a reverse osmosis (RO) treatment system to reduce the salinity of the raw water. Based on our review of the water production data over the past fifteen (15) months, the existing permeate production capacity of the RO unit currently averages about 27.8 GPM (equivalent to about 40,000 GPD). This is about 34% decline from its original production rate of about 42.2 GPM as summarized by Figure 4-1 and Table 4-1 below. The recovery rate of the RO skid is about 0.66.

EXISTING REVERSE OSMOSIS TREATMENT SKID

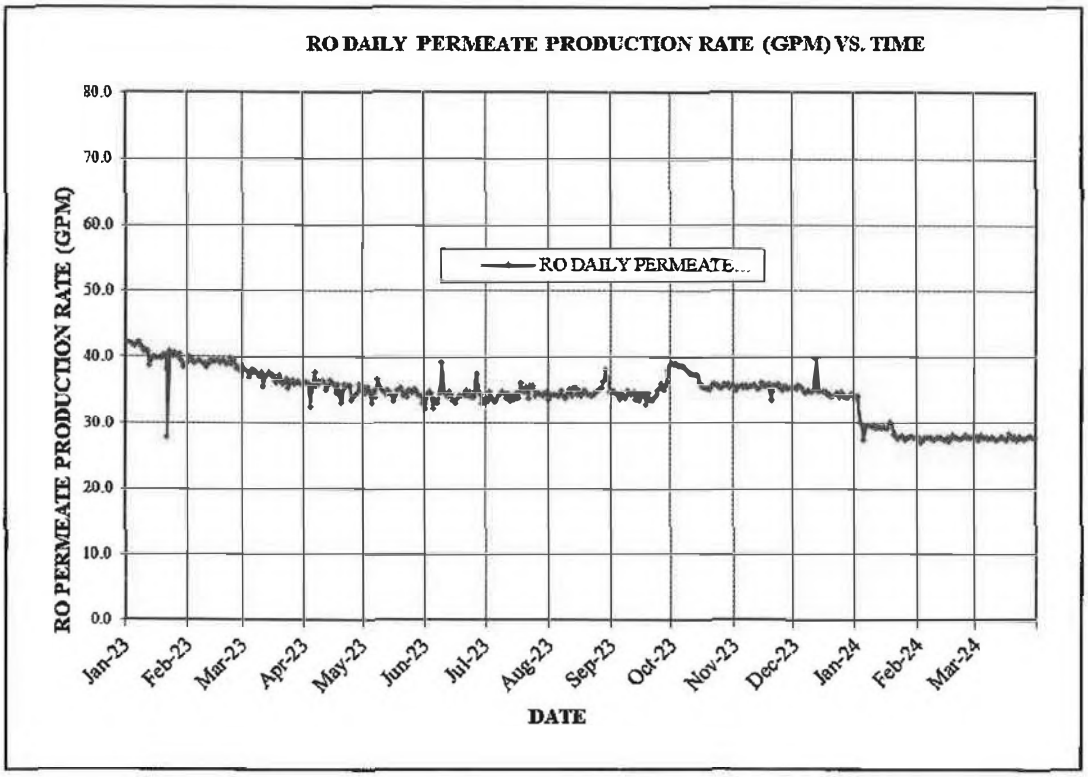


Figure 4-1: RO SKID PERMEATE PRODUCTION RATE (GPM) SUMMARY

Table 4-2
RO Skid PERMEATE PRODUCTION RATE (GPM) SUMMARY

DATE	RO PERMEATE PRODUCED (GPM)
1/1/23	42.2
2/1/23	39.9
3/1/23	38.2
4/1/23	36.2
5/1/23	35.5
6/1/23	32.2
7/1/23	33.7
8/1/23	33.5
9/1/23	34.8
10/1/23	39.0
11/1/23	35.6
12/1/23	35.3
1/1/24	34.0
2/1/24	27.5
3/1/24	28.0
3/2/24	27.9
3/3/24	27.4
3/4/24	28.2
3/5/24	27.7
3/6/24	27.7
3/7/24	27.7
3/8/24	27.5
3/9/24	27.7
3/10/24	27.8
3/11/24	27.5
3/12/24	27.3
3/13/24	27.6
3/14/24	27.9
3/15/24	27.8
3/16/24	27.6
3/17/24	27.4
3/18/24	28.3
3/19/24	27.9
3/20/24	27.6
3/21/24	27.9
3/22/24	27.3
3/23/24	28.0
3/24/24	27.7
3/25/24	27.5
3/26/24	27.6
3/27/24	27.8
3/28/24	27.9
3/29/24	27.9
3/30/24	27.8
3/31/24	27.8

Table 4-3
RO SKID PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
1/1/23	40,000	17,000	0.70
2/1/23	7,000	4,000	0.64
3/1/23	37,000	20,000	0.65
4/1/23	37,000	21,000	0.64
5/1/23	38,000	24,000	0.61
6/1/23	27,000	16,000	0.63
7/1/23	31,000	19,000	0.62
8/1/23	45,000	27,000	0.63
9/1/23	29,000	17,000	0.63
10/1/23	30,000	13,000	0.70
11/1/23	34,000	16,000	0.68
12/1/23	25,000	12,000	0.68
1/1/24	25,000	12,000	0.68
2/1/24	34,000	14,000	0.71
3/1/24	39,000	16,000	0.71
3/2/24	37,000	15,000	0.71
3/3/24	32,000	13,000	0.71
3/4/24	41,000	17,000	0.71
3/5/24	33,000	13,000	0.72
3/6/24	32,000	13,000	0.71
3/7/24	33,000	14,000	0.70
3/8/24	36,000	15,000	0.71
3/9/24	39,000	16,000	0.71
3/10/24	32,000	13,000	0.71
3/11/24	41,000	17,000	0.71
3/12/24	39,000	16,000	0.71
3/13/24	33,000	13,000	0.72
3/14/24	34,000	14,000	0.71
3/15/24	39,000	16,000	0.71
3/16/24	34,000	14,000	0.71
3/17/24	33,000	13,000	0.72
3/18/24	37,000	15,000	0.71
3/19/24	40,000	16,000	0.71
3/20/24	39,000	16,000	0.71
3/21/24	41,000	17,000	0.71
3/22/24	36,000	15,000	0.71
3/23/24	37,000	15,000	0.71
3/24/24	35,000	15,000	0.70
3/25/24	41,000	17,000	0.71
3/26/24	38,000	16,000	0.70
3/27/24	33,000	13,000	0.72
3/28/24	33,000	13,000	0.72
3/29/24	39,000	16,000	0.71
3/30/24	40,000	16,000	0.71
3/31/24	40,000	16,000	0.71
Average:	**34,459**	**17,670**	**0.66**
Maximum:	**55,000**	**29,000**	**0.73**

4.4 Storage & Pumping System

The existing water treatment system is equipped with adequate storage and pumping to meet both domestic and fire flow demand. There is currently one active 100,000-gallons ground tank (GST) and one new 50,000-gallon GST currently under construction. A list of these storage tanks with their corresponding capacities are itemized in the table below:

Table 4-4
List of Water Storage Tanks

TANK NO.	LOCATION	VOLUME (GAL)
1	Existing GST at WTP	100,000
2	Proposed New GST at WTP	50,000
	TOTAL CAPACITY SUPPLIED AFTER COMPLETION OF CONSTRUCTION OF NEW GST:	**150,000**

Based on a proposed maximum daily design capacity of 80,000 GPD, and a fire flow storage capacity of 60,000 gallons (using 500 GPM for two hours), the required storage volume required pursuant to Chapter 62-555, F.A.C. is calculated as follows:

Total Storage Volume Required =

(Potable Water Storage Requirements) + (Storage Required for Fire Flow Demand)
= (0.25 x Maximum Day Design Capacity) + (500 gpm x 120 minutes)
= (0.25 x 80,000 gpd) + (60,000 gallons)
= (20,000 gallons) + (60,000 gallons)
= **80,000 gallons which is less than supplied storage volume of 150,000 gallons**

EXISTING 100,000 GALLON GST

PROPOSED 50,000 GALLON GST UNDER CONSTRUCTION

The water system also is equipped with a total of two (2) high service pumps (HSPs) that can meet both the current and projected water demand. Based on a design capacity of 80,000 GPD, the high service

pumps should be able to meet the peak hourly water demand based on a peak hourly flow factor of 4.0. Based on a maximum day design capacity of 80,000 GPD, the peak hourly flow is calculated as follows:

Peak Hourly Demand = (Average Demand) x (4 Peak Factor)

= [(80,000 gpd)/(max day peak factor of 2) x (4 PF) = 160,000 GPD

= 111 GPM which is less than 140 GPM (capacity of HSP's)

Table 4-1 below summarizes the total number of the existing high service pumps with their respective pumping capacities.

Table 4-5
List of High Service Pumps

PUMP NO.	LOCATION	MOTOR (HP)	TDH (FEET)	PUMP RATE (GPM)
1	HSP #1 at WTP No. 1	10	139	140
2	HSP #2 at WTP No. 1	10	139	140
	TOTAL PUMPING CAPACITY PROVIDED WITH BOTH PUMPS IN SERVICE:			**280 GPM** **403,200 GPD**

5.0 SUMMARY AND RECOMMENDATIONS

As shown by Figure 5-1 below, the assigned maximum day permitted treatment capacity of 63,000 GPD of the WTP was exceeded several times during the past ten (10) years. However, the average water demand stayed below the maximum day permitted capacity at all times. The facility, however, was able to accommodate these exceedances due to the adequate storage and pumping capacities of the water system.

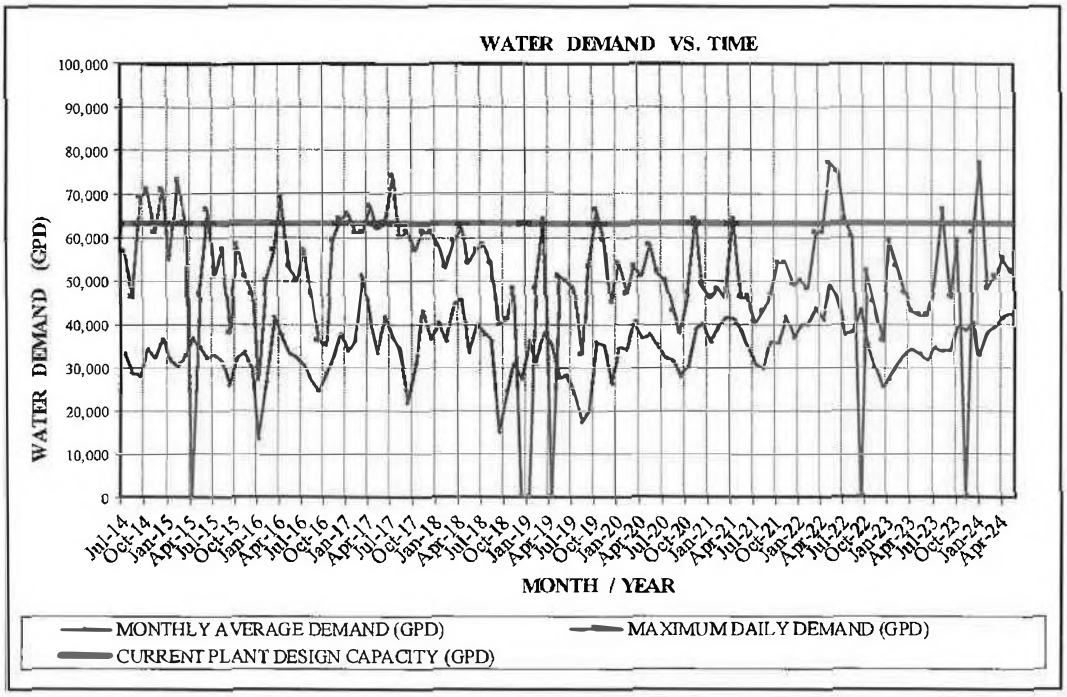


FIGURE 5-1: WATER DEMAND VS. TIME SUMMARY

However, based on the RO permeate current production capacity of the existing RO skid of 40,000 GPD, the maximum day design capacity (see Figure 5-2 below) cannot be achieved without adequate storage.

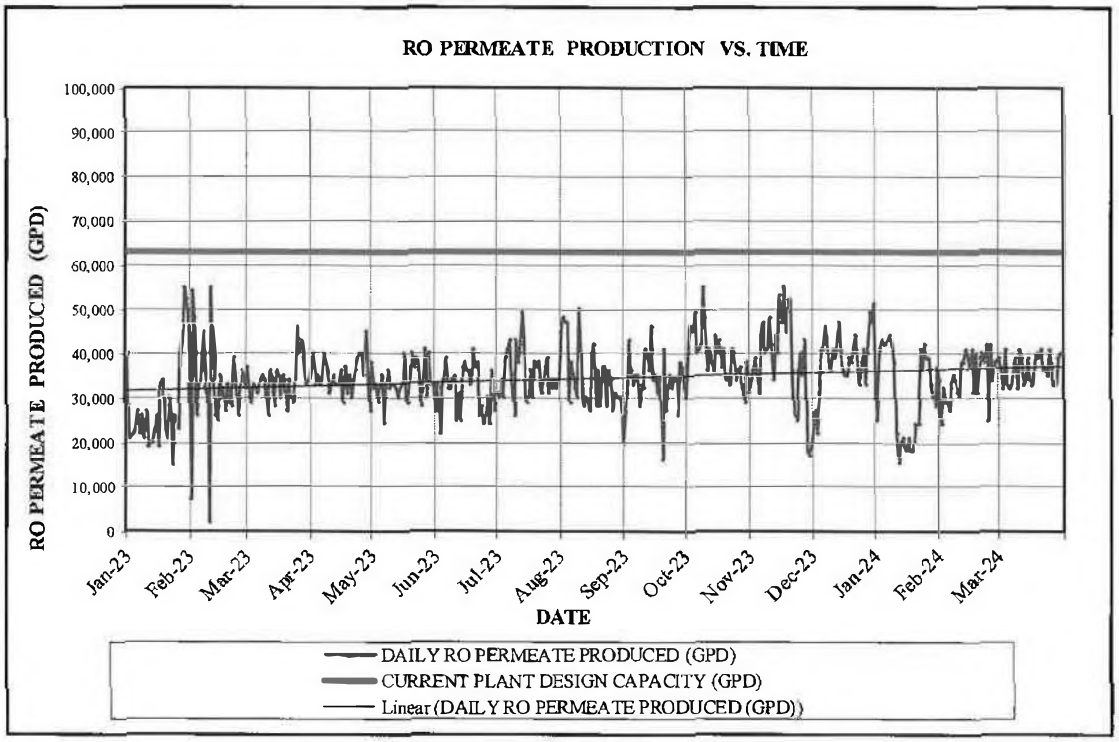


FIGURE 5-2: RO PERMEATE PRODUCTION VS. TIME SUMMARY

The table below presents the calculated unit treatment processes at WTP with their respective maximum day capacities:

Table 5-1
WTP No. 1 Supply & Treatment Processes

Process	Total Capacity	
Water Supply Wells	97,500 GPD (Maximum Daily Allocation for Both Wells)	97,500 GPD x RO Recovery Ratio of 0.8 = 78,000 GPD
Existing RO Treatment Skid	27.8 GPM	40,000 GPD
Pumping – HSP's	140 GPM (Using One HSP)	201,600 GPD max day capacity. Also, exceeds peak hourly demand of 111 GPM based on design capacity of 80,000 GPD.
Storage (Existing)	-	100,000 Gallons

According to the unit treatment capacity analysis shown above, the existing RO treatment system is currently capable of producing up to a maximum daily flow of 40,000 GPD which is below the permitted design capacity of the WTP.

Therefore, considering this and the fact that the water treatment plant has occasionally exceeded its permitted maximum day design capacity of 63,000 GPD, we recommend the following:

- Expand the water treatment system by the addition of a second RO treatment skid with a permeate production capacity of at least 54 GPM (78,000 GPD). See Figure 5-3 below.
- Re-habilitate the existing RO skid and replace its membranes, if necessary.
- In addition, we also recommend re-rating of the WTP to a minimum design capacity of 78,000 GPD (maximum day).

By the addition of the new 50,000-gallon GST and a second RO treatment skid, the WTP will achieve all applicable redundancy requirements and will be more reliable.

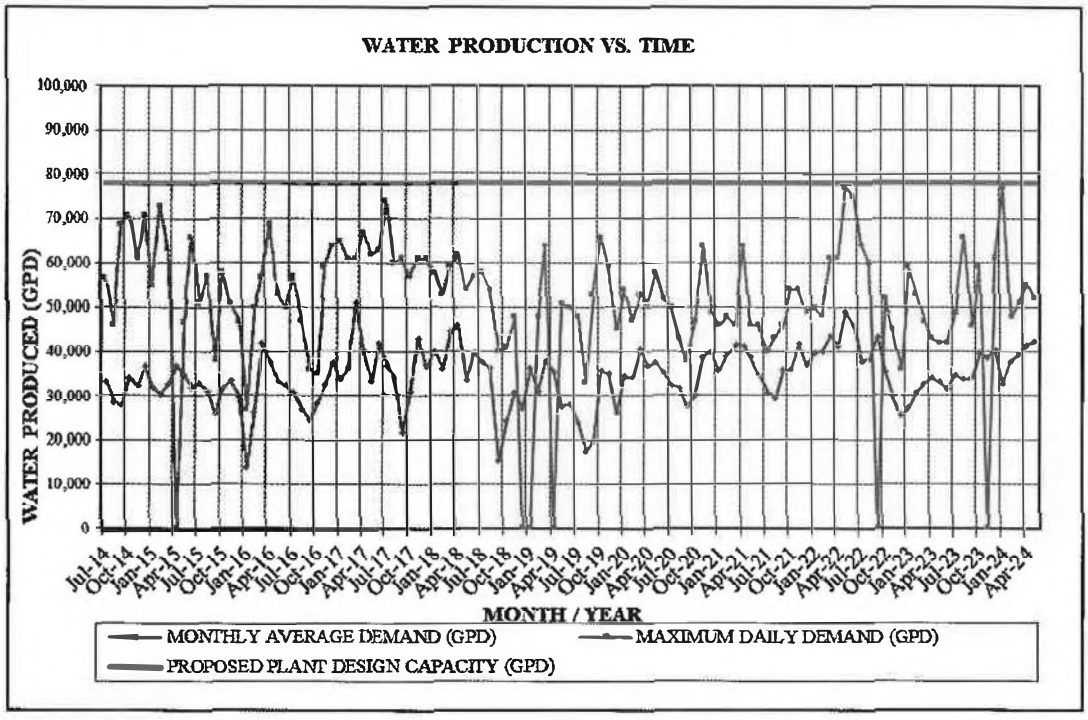


FIGURE 5-3: PROPOSED MAXIMUM DAY DESIGN CAPACITY

Attachment A

(Monthly Water Demand Summary Tables & Graph)

U.S. Water®
Services Corporation

USEPPA ISLAND UTILITIES
WATER TREATMENT PLANT
PWS ID No. 536-0299

MONTHLY WATER DEMAND SUMMARY

Month/Year	Monthly Average Demand (GPD)	Maximum Daily Demand (GPD)	Permitted Maximum Daily Capacity (GPD)
July-14	33,347	56,600	63,000
August-14	28,677	46,000	63,000
September-14	28,033	69,000	63,000
October-14	34,226	71,000	63,000
November-14	32,290	61,000	63,000
December-14	36,700	71,000	63,000
January-15	31,935	55,000	63,000
February-15	30,429	73,000	63,000
March-15	32,774	63,000	63,000
April-15	36,800	89000*	63,000
May-15	34,581	47,000	63,000
June-15	31,948	66,000	63,000
July-15	32,613	51,000	63,000
August-15	31,032	57,000	63,000
September-15	25,933	38,000	63,000
October-15	31,774	58,000	63,000
November-15	33,500	51,000	63,000
December-15	29,871	47,000	63,000
January-16	13,774	27,000	63,000
February-16	26,464	50,000	63,000
March-16	41,687	56,700	63,000
April-16	37,633	69,000	63,000
May-16	33,290	53,000	63,000
June-16	32,367	50,000	63,000
July-16	30,581	57,000	63,000
August-16	26,935	47,000	63,000
September-16	24,533	36,000	63,000
October-16	28,226	35,000	63,000
November-16	32,320	59,000	63,000
December-16	37,742	64,000	63,000
January-17	33,806	65,000	63,000
February-17	36,143	61,000	63,000
March-17	51,290	61,000	63,000
April-17	40,100	67,000	63,000
May-17	33,290	62,000	63,000
June-17	41,667	63,000	63,000
July-17	36,871	74,000	63,000
August-17	34,129	60,000	63,000
September-17	21,800	61,000	63,000
October-17	30,839	57,000	63,000
November-17	42,833	61,000	63,000
December-17	36,613	61,000	63,000
January-18	40,065	58,000	63,000
February-18	36,179	53,000	63,000
March-18	44,484	59,000	63,000
April-18	45,900	62,000	63,000
May-18	33,645	54,000	63,000
June-18	39,693	57,000	63,000

USEPPA ISLAND UTILITIES
WATER TREATMENT PLANT
PWS ID No. 536-0299

MONTHLY WATER DEMAND SUMMARY

Month/Year	Monthly Average Demand (GPD)	Maximum Daily Demand (GPD)	Permitted Maximum Daily Capacity (GPD)
July-18	37,710	58,000	63,000
August-18	36,258	54,000	63,000
September-18	15,267	40,000	63,000
October-18	24,194	41,000	63,000
November-18	30,800	48,000	63,000
December-18	27,258	91000*	63,000
January-19	36,129	86000*	63,000
February-19	31,043	48,000	63,000
March-19	37,929	63,800	63,000
April-19	35,367	90000*	63,000
May-19	27,608	51,000	63,000
June-19	28,200	50,000	63,000
July-19	23,968	48,000	63,000
August-19	17,387	33,000	63,000
September-19	19,800	53,000	63,000
October-19	35,645	66,000	63,000
November-19	34,900	59,000	63,000
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June-20	35,367	52,000	63,000
July-20	32,419	50,000	63,000
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December-20	39,935	49,000	63,000
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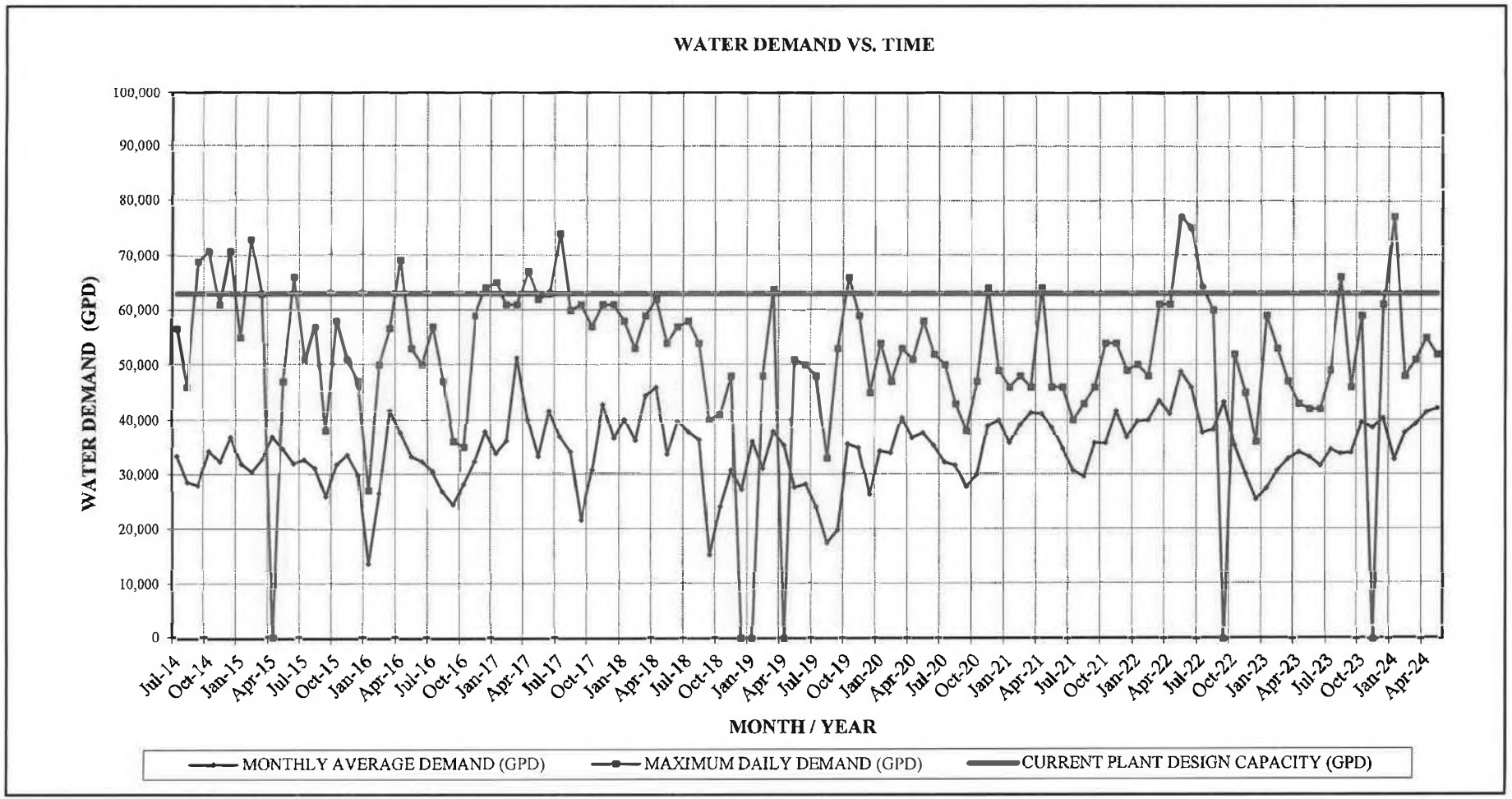
February-22	39,964	48,000	63,000
March-22	43,516	61,000	63,000
April-22	41,133	61,000	63,000
May-22	48,774	77,000	63,000
June-22	45,900	75,000	63,000

USEPPA ISLAND UTILITIES
WATER TREATMENT PLANT
PWS ID No. 536-0299

MONTHLY WATER DEMAND SUMMARY

Month/Year	Monthly Average Demand (GPD)	Maximum Daily Demand (GPD)	Permitted Maximum Daily Capacity (GPD)
July-22	37,677	64,000	63,000
August-22	38,258	60,000	63,000
September-22	43,231	92000*	63,000
October-22	35,423	52,000	63,000
November-22	30,133	45,000	63,000
December-22	25,355	36,000	63,000
January-23	27,419	59,000	63,000
February-23	30,714	53,000	63,000
March-23	32,839	47,000	63,000
April-23	34,100	43,000	63,000
May-23	33,194	42,000	63,000
June-23	31,600	42,000	63,000
July-23	34,613	49,000	63,000
August-23	33,839	66,000	63,000
September-23	34,000	46,000	63,000
October-23	39,581	59,000	63,000
November-23	38,620	97000*	63,000
December-23	40,323	61,000	63,000
January-24	32,742	77,000	63,000
February-24	37,690	48,000	63,000
March-24	39,258	51,000	63,000
April-24	41,467	55,000	63,000
May-24	42,161	52,000	63,000
Average:	**34,294**	**54,027**	**Max Day/Annual Avg Ratio**
Maximum:	**51,290**	**77,000**	2.24

*NOTE: These highly irregular flows are considered anomalies that are likely attributable to line breaks and/or emergencies repairs.


WATER DEMAND VS. TIME
WATER DEMAND (GPD)
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
Jul-14
Oct-14
Jan-15
Apr-15
Jul-15
Oct-15
Jan-16
Apr-16
Jul-16
Oct-16
Jan-17
Apr-17
Jul-17
Oct-17
Jan-18
Apr-18
Jul-18
Oct-18
Jan-19
Apr-19
Jul-19
Oct-19
Jan-20
Apr-20
Jul-20
Oct-20
Jan-21
Apr-21
Jul-21
Oct-21
Jan-22
Apr-22
Jul-22
Oct-22
Jan-23
Apr-23
Jul-23
Oct-23
Jan-24
Apr-24
MONTH / YEAR
MONTHLY AVERAGE DEMAND (GPD)
MAXIMUM DAILY DEMAND (GPD)
CURRENT PLANT DESIGN CAPACITY (GPD)

Attachment B

(RO Permeate and Concentrate Flow Summary Tables & Graph)

U.S. Water®
Servicos Corporation

USEPPA UTILITY COMPANY
WATER TREATMENT PLANT
PWS ID No. 536-0299
RO PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
1/1/23	40,000	17,000	0.70
1/2/23	21,000	9,000	0.70
1/3/22	27,000	12,000	0.69
1/4/23	22,000	10,000	0.69
1/5/23	24,000	11,000	0.69
1/6/23	27,000	12,000	0.69
1/7/23	22,000	10,000	0.69
1/8/23	26,000	12,000	0.68
1/9/23	21,000	9,000	0.70
1/10/23	27,000	12,000	0.69
1/11/23	19,000	9,000	0.68
1/12/23	20,000	9,000	0.69
1/13/23	20,000	9,000	0.69
1/14/23	23,000	11,000	0.68
1/15/23	26,000	12,000	0.68
1/16/23	19,000	9,000	0.68
1/17/23	33,000	18,000	0.65
1/18/23	34,000	16,000	0.68
1/19/23	24,000	12,000	0.67
1/20/23	21,000	10,000	0.68
1/21/23	28,000	14,000	0.67
1/22/23	27,000	13,000	0.68
1/23/23	15,000	7,000	0.68
1/24/23	26,000	13,000	0.67
1/25/23	25,000	12,000	0.68
1/26/23	23,000	12,000	0.66
1/27/23	40,000	20,000	0.67
1/28/23	45,000	23,000	0.66
1/29/23	55,000	27,000	0.67
1/30/23	52,000	26,000	0.67
1/31/23	49,000	24,000	0.67
2/1/23	7,000	4,000	0.64
2/2/23	54,000	27,000	0.67
2/3/23	48,000	24,000	0.67
2/4/23	26,000	13,000	0.67
2/5/23	33,000	16,000	0.67
2/6/23	36,000	18,000	0.67
2/7/23	45,000	23,000	0.66
2/8/23	32,000	16,000	0.67
2/9/23	31,000	16,000	0.66
2/10/23	2,000	1,000	0.67
2/11/23	55,000	22,000	0.71
2/12/23	34,000	17,000	0.67
2/13/23	26,000	13,000	0.67
2/14/23	25,000	13,000	0.66
2/15/23	35,000	18,000	0.66
2/16/23	30,000	16,000	0.65

USEPPA UTILITY COMPANY
WATER TREATMENT PLANT
PWS ID No. 536-0299
RO PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
2/17/23	32,000	17,000	0.65
2/18/23	27,000	14,000	0.66
2/19/23	33,000	18,000	0.65
2/20/23	29,000	15,000	0.66
2/21/23	28,000	15,000	0.65
2/22/23	39,000	20,000	0.66
2/23/23	33,000	18,000	0.65
2/24/23	26,000	14,000	0.65
2/25/23	30,000	17,000	0.64
2/26/23	36,000	19,000	0.65
2/27/23	35,000	19,000	0.65
2/28/23	32,000	17,000	0.65
3/1/23	37,000	20,000	0.65
3/2/23	30,000	16,000	0.65
3/3/23	29,000	15,000	0.66
3/4/23	33,000	18,000	0.65
3/5/23	32,000	17,000	0.65
3/6/23	31,000	17,000	0.65
3/7/23	34,000	18,000	0.65
3/8/23	35,000	19,000	0.65
3/9/23	34,000	19,000	0.64
3/10/23	30,000	16,000	0.65
3/11/23	26,000	14,000	0.65
3/12/23	36,000	20,000	0.64
3/13/23	34,000	19,000	0.64
3/14/23	28,000	16,000	0.64
3/15/23	36,000	19,000	0.65
3/16/23	35,000	20,000	0.64
3/17/23	30,000	17,000	0.64
3/18/23	35,000	20,000	0.64
3/19/23	34,000	19,000	0.64
3/20/23	27,000	15,000	0.64
3/21/23	34,000	19,000	0.64
3/22/23	30,000	16,000	0.65
3/23/23	29,000	16,000	0.64
3/24/23	35,000	20,000	0.64
3/25/23	46,000	26,000	0.64
3/26/23	40,000	23,000	0.63
3/27/23	43,000	24,000	0.64
3/28/23	39,000	21,000	0.65
3/29/23	34,000	19,000	0.64
3/30/23	33,000	19,000	0.63
3/31/23	34,000	19,000	0.64
4/1/23	37,000	21,000	0.64
4/2/23	40,000	23,000	0.63
4/3/23	33,000	19,000	0.63
4/4/23	35,000	20,000	0.64

USEPPA UTILITY COMPANY
WATER TREATMENT PLANT
PWS ID No. 536-0299
RO PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
4/5/23	33,000	21,000	0.61
4/6/23	33,000	21,000	0.61
4/7/23	40,000	22,000	0.65
4/8/23	38,000	22,000	0.63
4/9/23	36,000	20,000	0.64
4/10/23	31,000	23,000	0.57
4/11/23	33,000	19,000	0.63
4/12/23	35,000	14,000	0.71
4/13/23	33,000	19,000	0.63
4/14/23	33,000	19,000	0.63
4/15/23	33,000	19,000	0.63
4/16/23	36,000	23,000	0.61
4/17/23	29,000	16,000	0.64
4/18/23	37,000	16,000	0.70
4/19/23	31,000	21,000	0.60
4/20/23	35,000	17,000	0.67
4/21/23	30,000	18,000	0.63
4/22/23	34,000	20,000	0.63
4/23/23	36,000	20,000	0.64
4/24/23	39,000	22,000	0.64
4/25/23	40,000	23,000	0.63
4/26/23	40,000	20,000	0.67
4/27/23	35,000	19,000	0.65
4/28/23	45,000	26,000	0.63
4/29/23	35,000	20,000	0.64
4/30/23	27,000	15,000	0.64
5/1/23	38,000	24,000	0.61
5/2/23	32,000	17,000	0.65
5/3/23	33,000	19,000	0.63
5/4/23	29,000	17,000	0.63
5/5/23	32,000	18,000	0.64
5/6/23	35,000	20,000	0.64
5/7/23	24,000	14,000	0.63
5/8/23	32,000	19,000	0.63
5/9/23	36,000	21,000	0.63
5/10/23	32,000	18,000	0.64
5/11/23	33,000	19,000	0.63
5/12/23	33,000	19,000	0.63
5/13/23	32,000	19,000	0.63
5/14/23	30,000	18,000	0.63
5/15/23	32,000	19,000	0.63
5/16/23	33,000	19,000	0.63
5/17/23	40,000	23,000	0.63
5/18/23	29,000	17,000	0.63
5/19/23	29,000	17,000	0.63
5/20/23	37,000	22,000	0.63
5/21/23	40,000	23,000	0.63

USEPPA UTILITY COMPANY
WATER TREATMENT PLANT
PWS ID No. 536-0299
RO PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
5/22/23	37,000	22,000	0.63
5/23/23	39,000	23,000	0.63
5/24/23	36,000	21,000	0.63
5/25/23	28,000	17,000	0.62
5/26/23	32,000	19,000	0.63
5/27/23	41,000	24,000	0.63
5/28/23	30,000	18,000	0.63
5/29/23	40,000	23,000	0.63
5/30/23	33,000	19,000	0.63
5/31/23	33,000	19,000	0.63
6/1/23	27,000	16,000	0.63
6/2/23	33,000	19,000	0.63
6/3/23	22,000	17,000	0.56
6/4/23	32,000	19,000	0.63
6/5/23	34,000	20,000	0.63
6/6/23	39,000	23,000	0.63
6/7/23	32,000	19,000	0.63
6/8/23	32,000	19,000	0.63
6/9/23	34,000	20,000	0.63
6/10/23	35,000	21,000	0.63
6/11/23	25,000	15,000	0.63
6/12/23	31,000	19,000	0.62
6/13/23	25,000	15,000	0.63
6/14/23	37,000	22,000	0.63
6/15/23	38,000	23,000	0.62
6/16/23	36,000	22,000	0.62
6/17/23	36,000	22,000	0.62
6/18/23	33,000	20,000	0.62
6/19/23	41,000	25,000	0.62
6/20/23	37,000	22,000	0.63
6/21/23	38,000	23,000	0.62
6/22/23	26,000	16,000	0.62
6/23/23	28,000	15,000	0.65
6/24/23	24,000	14,000	0.63
6/25/23	26,000	16,000	0.62
6/26/23	30,000	17,000	0.64
6/27/23	24,000	14,000	0.63
6/28/23	36,000	21,000	0.63
6/29/23	27,000	16,000	0.63
6/30/23	31,000	19,000	0.62
7/1/23	31,000	19,000	0.62
7/2/23	30,000	18,000	0.63
7/3/23	34,000	21,000	0.62
7/4/23	30,000	18,000	0.63
7/5/23	39,000	23,000	0.63
7/6/23	41,000	25,000	0.62
7/7/23	43,000	26,000	0.62

USEPPA UTILITY COMPANY
WATER TREATMENT PLANT
PWS ID No. 536-0299
RO PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
7/8/23	35,000	21,000	0.63
7/9/23	26,000	16,000	0.62
7/10/23	43,000	26,000	0.62
7/11/23	38,000	23,000	0.62
7/12/23	40,000	24,000	0.63
7/13/23	49,000	29,000	0.63
7/14/23	42,000	22,000	0.66
7/15/23	29,000	18,000	0.62
7/16/23	30,000	18,000	0.63
7/17/23	36,000	22,000	0.62
7/18/23	30,000	18,000	0.63
7/19/23	38,000	23,000	0.62
7/20/23	37,000	22,000	0.63
7/21/23	38,000	23,000	0.62
7/22/23	33,000	20,000	0.62
7/23/23	31,000	19,000	0.62
7/24/23	37,000	20,000	0.65
7/25/23	39,000	23,000	0.63
7/26/23	31,000	19,000	0.62
7/27/23	34,000	21,000	0.62
7/28/23	32,000	19,000	0.63
7/29/23	34,000	21,000	0.62
7/30/23	32,000	19,000	0.63
7/31/23	34,000	21,000	0.62
8/1/23	45,000	27,000	0.63
8/2/23	48,000	28,000	0.63
8/3/23	47,000	28,000	0.63
8/4/23	47,000	28,000	0.63
8/5/23	29,000	17,000	0.63
8/6/23	38,000	22,000	0.63
8/7/23	35,000	20,000	0.64
8/8/23	32,000	19,000	0.63
8/9/23	30,000	18,000	0.63
8/10/23	50,000	29,000	0.63
8/11/23	35,000	21,000	0.63
8/12/23	28,000	17,000	0.62
8/13/23	30,000	18,000	0.63
8/14/23	29,000	17,000	0.63
8/15/23	27,000	16,000	0.63
8/16/23	40,000	24,000	0.63
8/17/23	42,000	25,000	0.63
8/18/23	28,000	17,000	0.62
8/19/23	36,000	21,000	0.63
8/20/23	28,000	17,000	0.62
8/21/23	37,000	22,000	0.63
8/22/23	37,000	23,000	0.62
8/23/23	28,000	16,000	0.64

USEPPA UTILITY COMPANY
WATER TREATMENT PLANT
PWS ID No. 536-0299
RO PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
8/24/23	36,000	21,000	0.63
8/25/23	33,000	20,000	0.62
8/26/23	27,000	16,000	0.63
8/27/23	31,000	18,000	0.63
8/28/23	30,000	18,000	0.63
8/29/23	30,000	18,000	0.63
8/30/23	30,000	18,000	0.63
8/31/23	20,000	12,000	0.63
9/1/23	29,000	17,000	0.63
9/2/23	31,000	19,000	0.62
9/3/23	43,000	25,000	0.63
9/4/23	36,000	21,000	0.63
9/5/23	33,000	20,000	0.62
9/6/23	35,000	21,000	0.63
9/7/23	35,000	21,000	0.63
9/8/23	28,000	12,000	0.70
9/9/23	33,000	20,000	0.62
9/10/23	32,000	19,000	0.63
9/11/23	41,000	25,000	0.62
9/12/23	39,000	24,000	0.62
9/13/23	36,000	22,000	0.62
9/14/23	46,000	27,000	0.63
9/15/23	34,000	21,000	0.62
9/16/23	35,000	21,000	0.63
9/17/23	31,000	19,000	0.62
9/18/23	34,000	21,000	0.62
9/19/23	16,000	9,000	0.64
9/20/23	41,000	25,000	0.62
9/21/23	27,000	16,000	0.63
9/22/23	32,000	19,000	0.63
9/23/23	35,000	21,000	0.63
9/24/23	32,000	19,000	0.63
9/25/23	34,000	20,000	0.63
9/26/23	34,000	19,000	0.64
9/27/23	26,000	14,000	0.65
9/28/23	38,000	17,000	0.69
9/29/23	37,000	16,000	0.70
9/30/23	32,000	14,000	0.70
10/1/23	30,000	13,000	0.70
10/2/23	40,000	17,000	0.70
10/3/23	46,000	20,000	0.70
10/4/23	45,000	19,000	0.70
10/5/23	49,000	21,000	0.70
10/6/23	40,000	17,000	0.70
10/7/23	41,000	18,000	0.69
10/8/23	42,000	18,000	0.70
10/9/23	55,000	24,000	0.70

USEPPA UTILITY COMPANY
WATER TREATMENT PLANT
PWS ID No. 536-0299
RO PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
10/10/23	48,000	21,000	0.70
10/11/23	36,000	16,000	0.69
10/12/23	41,000	18,000	0.69
10/13/23	38,000	17,000	0.69
10/14/23	36,000	16,000	0.69
10/15/23	44,000	20,000	0.69
10/16/23	40,000	19,000	0.68
10/17/23	43,000	20,000	0.68
10/18/23	37,000	17,000	0.69
10/19/23	41,000	19,000	0.68
10/20/23	34,000	16,000	0.68
10/21/23	35,000	16,000	0.69
10/22/23	33,000	15,000	0.69
10/23/23	41,000	19,000	0.68
10/24/23	40,000	19,000	0.68
10/25/23	34,000	16,000	0.68
10/26/23	36,000	17,000	0.68
10/27/23	37,000	18,000	0.67
10/28/23	33,000	16,000	0.67
10/29/23	29,000	14,000	0.67
10/30/23	38,000	18,000	0.68
10/31/23	31,000	15,000	0.67
11/1/23	34,000	16,000	0.68
11/2/23	36,000	17,000	0.68
11/3/23	39,000	18,000	0.68
11/4/23	36,000	17,000	0.68
11/5/23	31,000	15,000	0.67
11/6/23	44,000	21,000	0.68
11/7/23	47,000	22,000	0.68
11/8/23	40,000	19,000	0.68
11/9/23	41,000	19,000	0.68
11/10/23	48,000	22,000	0.69
11/11/23	42,000	20,000	0.68
11/12/23	34,000	16,000	0.68
11/13/23	44,000	21,000	0.68
11/14/23	40,000	19,000	0.68
11/15/23	53,000	25,000	0.68
11/16/23	47,000	22,000	0.68
11/17/23	55,000	26,000	0.68
11/18/23	45,000	21,000	0.68
11/19/23	52,000	24,000	0.68
11/20/23	52,000	24,000	0.68
11/21/23	36,000	16,000	0.69
11/22/23	26,000	12,000	0.68
11/23/23	25,000	12,000	0.68
11/24/23	36,000	17,000	0.68
11/25/23	40,000	19,000	0.68

USEPPA UTILITY COMPANY
WATER TREATMENT PLANT
PWS ID No. 536-0299
RO PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
11/26/23	35,000	17,000	0.67
11/27/23	43,000	20,000	0.68
11/28/23	18,000	9,000	0.67
11/29/23	17,000	9,000	0.65
11/30/23	20,000	10,000	0.67
12/1/23	25,000	12,000	0.68
12/2/23	27,000	13,000	0.68
12/3/23	22,000	11,000	0.67
12/4/23	31,000	15,000	0.67
12/5/23	41,000	17,000	0.71
12/6/23	41,000	20,000	0.67
12/7/23	46,000	22,000	0.68
12/8/23	42,000	20,000	0.68
12/9/23	38,000	18,000	0.68
12/10/23	36,000	17,000	0.68
12/11/23	41,000	20,000	0.67
12/12/23	39,000	18,000	0.68
12/13/23	41,000	20,000	0.67
12/14/23	47,000	23,000	0.67
12/15/23	40,000	19,000	0.68
12/16/23	36,000	17,000	0.68
12/17/23	35,000	17,000	0.67
12/18/23	35,000	17,000	0.67
12/19/23	39,000	19,000	0.67
12/20/23	38,000	18,000	0.68
12/21/23	40,000	19,000	0.68
12/22/23	44,000	21,000	0.68
12/23/23	37,000	18,000	0.67
12/24/23	33,000	16,000	0.67
12/25/23	38,000	18,000	0.68
12/26/23	41,000	19,000	0.68
12/27/23	33,000	16,000	0.67
12/28/23	40,000	19,000	0.68
12/29/23	49,000	23,000	0.68
12/30/23	47,000	22,000	0.68
12/31/23	51,000	24,000	0.68
1/1/24	25,000	12,000	0.68
1/2/24	34,000	19,000	0.64
1/3/24	41,000	16,000	0.72
1/4/24	43,000	17,000	0.72
1/5/24	42,000	17,000	0.71
1/6/24	42,000	17,000	0.71
1/7/24	43,000	17,000	0.72
1/8/24	44,000	18,000	0.71
1/9/24	42,000	16,000	0.72
1/10/24	38,000	15,000	0.72
1/11/24	22,000	9,000	0.71

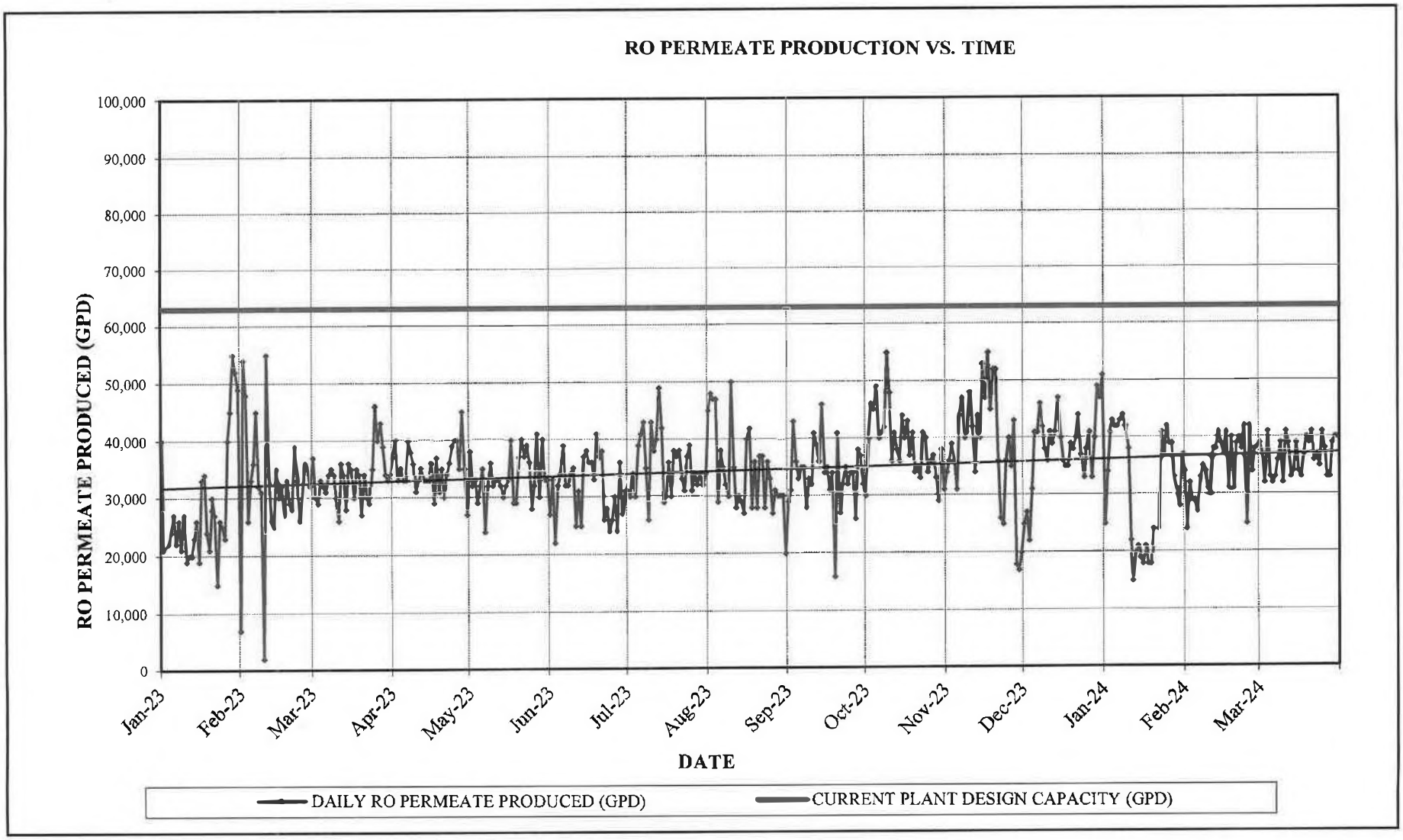
USEPPA UTILITY COMPANY
WATER TREATMENT PLANT
PWS ID No. 536-0299
RO PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
1/12/24	15,000	6,000	0.71
1/13/24	20,000	9,000	0.69
1/14/24	21,000	10,000	0.68
1/15/24	19,000	10,000	0.66
1/16/24	18,000	9,000	0.67
1/17/24	21,000	11,000	0.66
1/18/24	18,000	10,000	0.64
1/19/24	18,000	8,000	0.69
1/20/24	24,000	9,000	0.73
1/21/23	30,000	12,000	0.71
1/22/24	24,000	10,000	0.71
1/23/24	41,000	16,000	0.72
1/24/24	37,000	15,000	0.71
1/25/24	42,000	17,000	0.71
1/26/24	39,000	15,000	0.72
1/27/24	39,000	16,000	0.71
1/28/24	33,000	13,000	0.72
1/29/24	31,000	12,000	0.72
1/30/24	28,000	11,000	0.72
1/31/24	37,000	15,000	0.71
2/1/24	34,000	14,000	0.71
2/2/24	24,000	15,000	0.62
2/3/24	32,000	13,000	0.71
2/4/24	29,000	12,000	0.71
2/5/24	29,000	16,000	0.64
2/6/24	27,000	11,000	0.71
2/7/24	33,000	13,000	0.72
2/8/24	35,000	14,000	0.71
2/9/24	34,000	14,000	0.71
2/10/24	31,000	13,000	0.70
2/11/24	30,000	12,000	0.71
2/12/24	38,000	15,000	0.72
2/13/24	38,000	16,000	0.70
2/14/24	41,000	17,000	0.71
2/15/24	39,000	16,000	0.71
2/16/24	37,000	15,000	0.71
2/17/24	41,000	16,000	0.72
2/18/24	31,000	13,000	0.70
2/19/24	40,000	16,000	0.71
2/20/24	31,000	13,000	0.70
2/21/24	39,000	16,000	0.71
2/22/24	40,000	16,000	0.71
2/23/24	38,000	16,000	0.70
2/24/24	42,000	17,000	0.71
2/25/24	25,000	10,000	0.71
2/26/24	42,000	17,000	0.71
2/27/24	34,000	14,000	0.71

USEPPA UTILITY COMPANY
WATER TREATMENT PLANT
PWS ID No. 536-0299

RO PERMEATE AND CONCENTRATE FLOW SUMMARY

DATE	DAILY RO PERMEATE FLOW (GPD)	DAILY RO CONCENTRATE FLOW (GPD)	RO SKID RECOVERY RATIO
2/28/24	38,000	15,000	0.72
3/1/24	39,000	16,000	0.71
3/2/24	37,000	15,000	0.71
3/3/24	32,000	13,000	0.71
3/4/24	41,000	17,000	0.71
3/5/24	33,000	13,000	0.72
3/6/24	32,000	13,000	0.71
3/7/24	33,000	14,000	0.70
3/8/24	36,000	15,000	0.71
3/9/24	39,000	16,000	0.71
3/10/24	32,000	13,000	0.71
3/11/24	41,000	17,000	0.71
3/12/24	39,000	16,000	0.71
3/13/24	33,000	13,000	0.72
3/14/24	34,000	14,000	0.71
3/15/24	39,000	16,000	0.71
3/16/24	34,000	14,000	0.71
3/17/24	33,000	13,000	0.72
3/18/24	37,000	15,000	0.71
3/19/24	40,000	16,000	0.71
3/20/24	39,000	16,000	0.71
3/21/24	41,000	17,000	0.71
3/22/24	36,000	15,000	0.71
3/23/24	37,000	15,000	0.71
3/24/24	35,000	15,000	0.70
3/25/24	41,000	17,000	0.71
3/26/24	38,000	16,000	0.70
3/27/24	33,000	13,000	0.72
3/28/24	33,000	13,000	0.72
3/29/24	39,000	16,000	0.71
3/30/24	40,000	16,000	0.71
3/31/24	40,000	16,000	0.71
Average:	**34,459**	**17,670**	**0.66**
Maximum:	**55,000**	**29,000**	**0.73**


RO PERMEATE PRODUCTION VS. TIME
RO PERMEATE PRODUCED (GPD)
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
Jan-23
Feb-23
Mar-23
Apr-23
May-23
Jun-23
Jul-23
Aug-23
Sep-23
Oct-23
Nov-23
Dec-23
Jan-24
Feb-24
Mar-24
DATE
DAILY RO PERMEATE PRODUCED (GPD)
CURRENT PLANT DESIGN CAPACITY (GPD)

December 2, 2023

Useppa Island Club
P. O. Box 640
Bokeelia, Florida 33922

Ref: Job # 58027A

Dear Billy Gay:

Liquid Engineering Corporation is now part of the Pittsburg Tank and Tower Group family of companies.
Pittsburg Tank and Tower Maintenance Company is an industry leader in tank rehabilitation and recoating projects of any size. The following summary report will detail areas of your tank that are in need of maintenance as dictated by applicable EPA, OSHA, AWWA, and NFPA codes. We have also included general recommendations to prolong the lifespan of your tank.

For ease of understanding, we have organized the report into categories:

1. Critical Deficiencies
2. OSHA Deficiencies
3. AWWA/NFPA Deficiencies
4. Preventive Maintenance

We appreciate your business and look forward to handling your tank maintenance.

Sincerely,

Liquid Engineering Corporation
Misti Moody
Account Executive
406-869-3157 – Direct
406-651-0120 – Fax
mmoody@liquidengineering.com

PITTSBURG TANK & TOWER GROUP
MAINTENANCE DIVISION Since 1919

1 Watertank Place
PO Box 1849
Henderson, KY 42419
P: (270) 826-9000
F: (270) 767-6912
www.pttg.com

Useppa Island Club
P. O. Box 640
Bokeelia, Florida 33922
RE: Useppa Island Club
1,000 Gallon Pressure Vessel
December 2, 2023
Billy Gay
Utility Manager
(239) 478-6251
Job No. 58027A

KEITH M. EATON
LICENSE
No. 77451
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

PTTG Since 1919
MAINTENANCE DIVISION

Useppa Island Club
RE: Useppa Island Club
1,000 Gallon Pressure Vessel
Job No. 58027A

Photo shows the tank is secured with fencing. There is no signage on the fence. We recommend posting a **Warning, Tampering With This Facility is a Federal Offense** (US code title 42, section 300i-1) sign and a **No Trespassing** sign.

Photo shows the condition of the foundation. AWWA D100-21; 12.7.1 Height aboveground states, “The tops of the concrete foundations shall be a minimum of 6” above the finished grade, unless otherwise specified.” We recommend clearing any dirt, debris and other loose gravel away from the foundation, down to a minimum 6" below top of foundation. This should be done by a local excavating company.

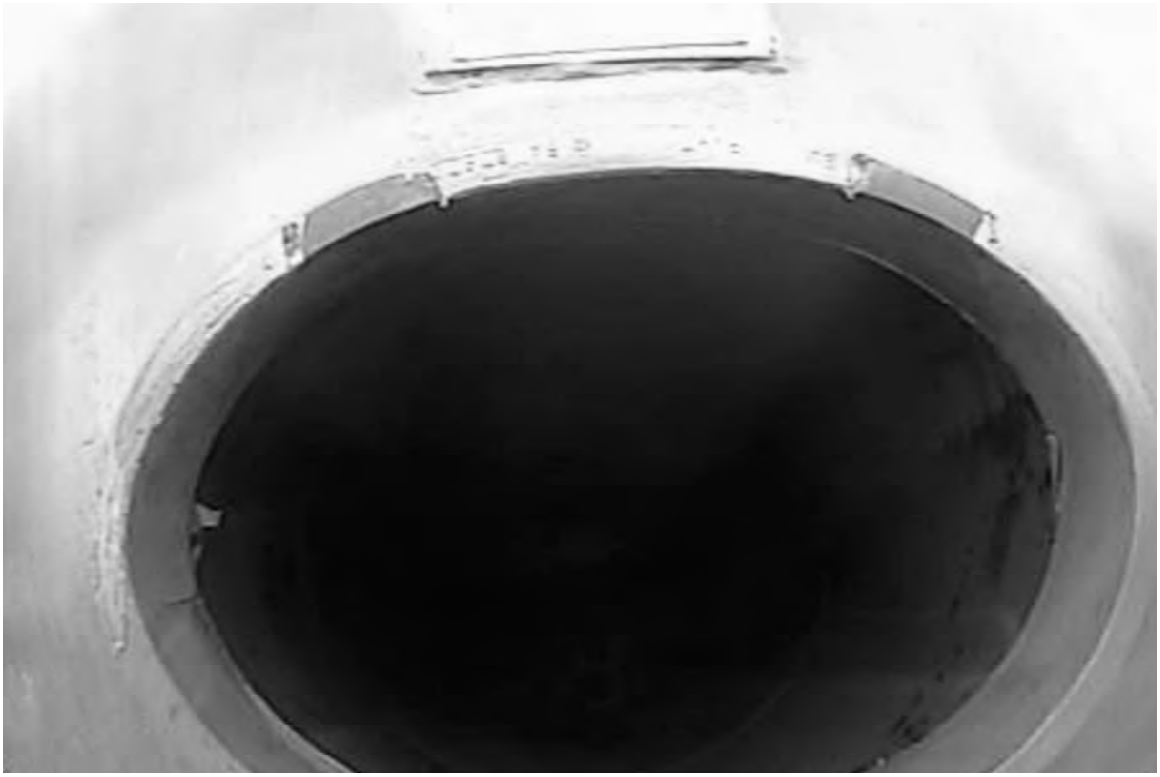


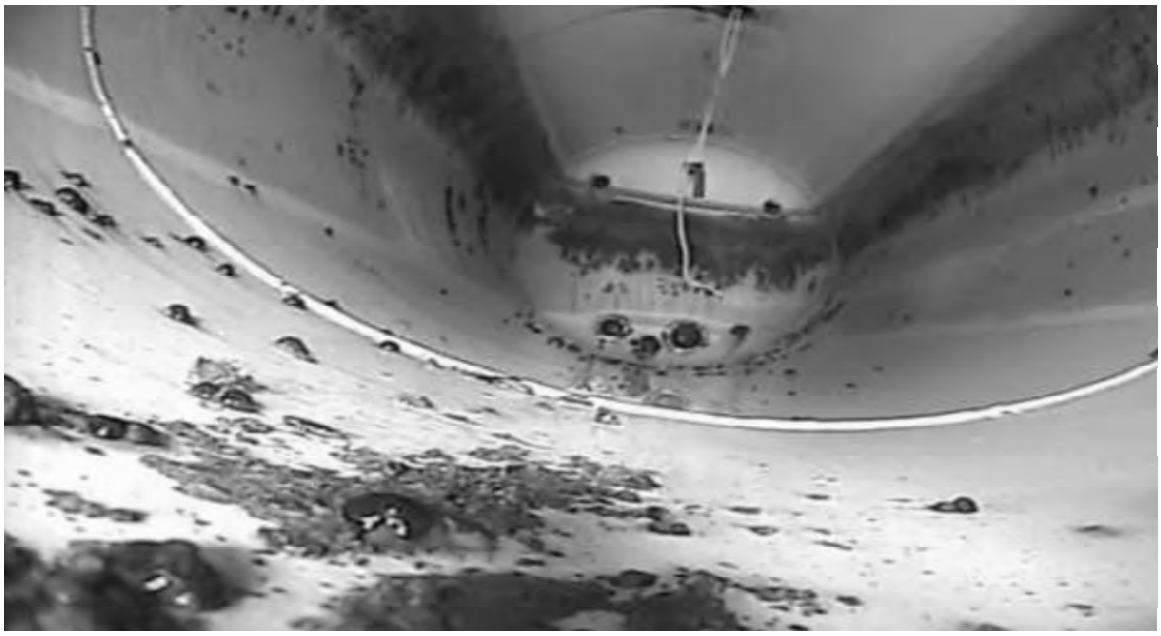
Photo shows the primary elliptical style manway, which is in compliance with OSHA 1910.146(c)(2) Confined spaces, and appears to be in good condition.

Photo shows the tank is equipped with a sight glass. **Notice the sight glass appears to be damaged or leaking.** We recommend replacing the sight glass water level gauge.

Photos show the tank exterior coating system. The overall exterior coating system appears to be in good condition. We recommend re-evaluating the tank exterior at next inspection cycle.

PTTG Since 1919
MAINTENANCE DIVISION

Useppa Island Club
RE: Useppa Island Club
1,000 Gallon Pressure Vessel
Job No. 58027A



Photos show the condition of the interior coating system. We recommend power tool cleaning all rusted and abraded areas on the tank interior, stripe coating all seams and welds, then applying an epoxy liner.

Beginning Jan. 1, 2023 all new interior coating systems for potable water tanks must adhere to the new NSF 600 regulations.

PITTSBURG TANK & TOWER GROUP
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1 Watertank Place
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Henderson, KY 42419
P: (270) 826-9000
F: (270) 767-6912
www.pttg.com

PRESSURE VESSEL INSPECTION REPORT

JOB NO: 58027A INSPECTOR: Dive Team 10 (JR)

TANK OWNER: Useppa Island Club

OWNER'S REPRESENTATIVE: Billy Gay

TITLE: Utility Manager

MAILING ADDRESS: P. O. Box 640, Bokeelia, Florida 33922

PHYSICAL ADDRESS: P. O. Box 640, Bokeelia, Florida 33922

E-MAIL: utilities@useppa.com; service@useppa.com

CITY, STATE: Bokeelia, Florida ZIP: 33922 COUNTY: Lee County

TELEPHONE: (239) 478-6251 FAX: Not Provided

LOCATION OF TANK: 708 Useppa Island, Captiva, Florida 33924

Useppa Island Club
P. O. Box 640
Bokeelia, Florida 33922
December 2, 2023
Billy Gay
Utility Manager
(239) 478-6251

ORIGINAL CONTRACT NO: Not Provided YEAR BUILT: 2017

ORIGINAL MANUFACTURER: Dixie Tank Company CAPACITY: 1,000 Gallon

DATE OF LAST INSPECTION: Not Provided TYPE: Potable

DIAMETER: 42" LENGTH: 14'-0"

TYPE CONSTRUCTION: WELDED: X BOLTED:

ACCOUNT EXECUTIVE: Misti Moody

PITTSBURG TANK & TOWER GROUP
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Page #	Work Proposed	Critical Deficiency	NON-Critical Deficiency	OSHA	Structural	Preventative Maintenance
2	Post a **Warning, Tampering With This Facility is a Federal Offense** (US code title 42, section 300i-1) sign.		X			
	Post a **No Trespassing** sign.		X			
3	Clear dirt, debris and loose gravel away from the saddle support foundation pad, down to a minimum of 6" below the top of the foundation. This should be done by a local excavating company.					X
5	Replace a sight glass water level gauge.		X			
6	Re-evaluate the tank exterior at next inspection cycle.					X
7	Power tool clean all rusted and abraded areas on the tank interior, stripe coat all seams and welds, then apply an epoxy liner.					X

December 2, 2023

Useppa Island Club
P. O. Box 640
Bokeelia, Florida 33922

Ref: Job # 58027B

Dear Billy Gay:

Liquid Engineering Corporation is now part of the Pittsburg Tank and Tower Group family of companies.
Pittsburg Tank and Tower Maintenance Company is an industry leader in tank rehabilitation and recoating projects of any size. The following summary report will detail areas of your tank that are in need of maintenance as dictated by applicable EPA, OSHA, AWWA, and NFPA codes. We have also included general recommendations to prolong the lifespan of your tank.

For ease of understanding, we have organized the report into categories:

1. Critical Deficiencies
2. OSHA Deficiencies
3. AWWA/NFPA Deficiencies
4. Preventive Maintenance

We appreciate your business and look forward to handling your tank maintenance.

Sincerely,

Liquid Engineering Corporation
Misti Moody
Account Executive
406-869-3157 – Direct
406-651-0120 – Fax
mmoody@liquidengineering.com

PITTSBURG TANK & TOWER GROUP
MAINTENANCE DIVISION Since 1919
"100 years and still climbing"

1 Watertank Place
PO Box 1849
Henderson, KY 42419
P: (270) 826-9000
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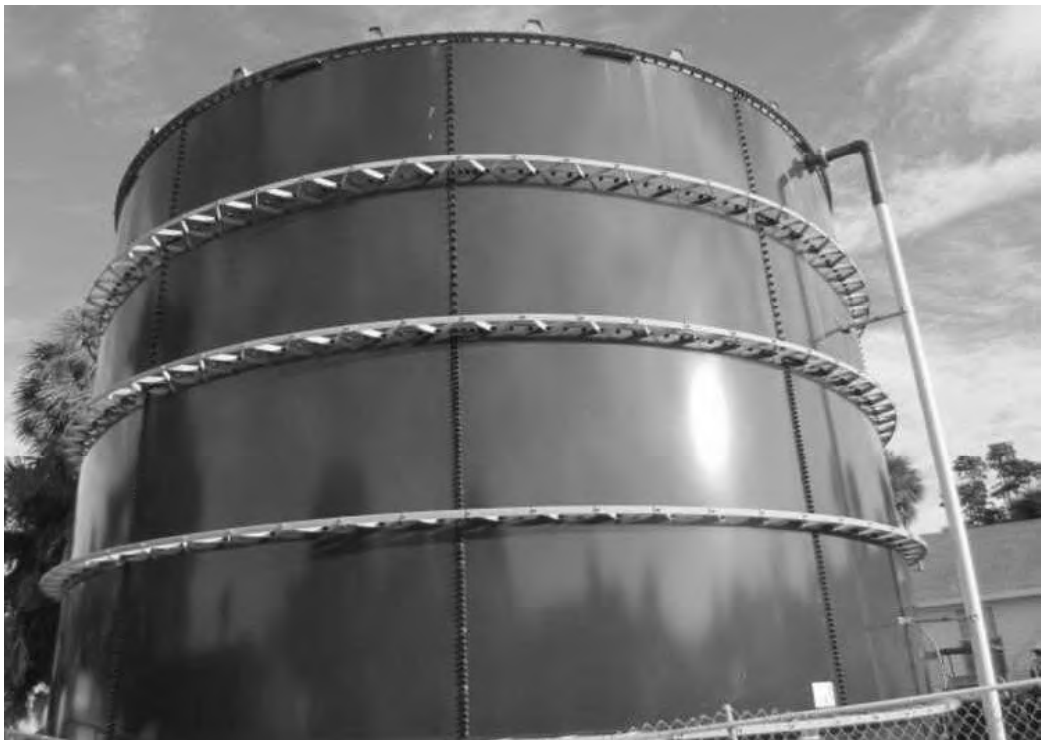


Useppa Island Club

Billy Gay

(239) 478-6251

P. O. Box 640

Bokeelia, Florida 33922

RE: Useppa Island Club

Captiva, Florida

December 02, 2023

100,000 Gallon Bolted Ground Storage Tank

Job No. 58027B

KEITH M. EATON
LICENSE
No. 77451
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Paint ● Repair ● Dismantle ● Inspect ● Reinsulate ● Tanks Raised, Lowered, and Moved New and Used Tanks

PITTSBURG TANK & TOWER GROUP
MAINTENANCE DIVISION Since 1919
"100 years and still climbing"

1 Watertank Place
PO Box 1849
Henderson, KY 42419
P: (270) 826-9000
F: (270) 767-6912
WWW.PTTG.COM

Tank Summary

Job Number
58027B

Inspector
Dive Team 10

Tank Owner
Useppa Island Club

Customer
Billy Gay

Customer Email
utilities@useppa.com; service@useppa.com

Test Results

Interior Lead Results
N/A

Exterior Lead Results
N/A

Tank Address
828 Useppa Island

Tank City
Captiva

Tank State
Florida

Tank Zip
33924

Tank County
Lee

Latitude
26.6621404

Longitude
-82.2121706

Last Inspection Date
11/28/2018

Inspection Date
Dec 02, 2023

Manufacturer
Not Provided

Year Built
2003

Contract Number
Not Provided

Tank Type
Ground Storage Tank

Tank Use
Potable

Material
Carbon Steel

Construction
Bolted

Capacity
100,000

Diameter
28' - 0"

Height
25' - 0"

Drain Diameter
6"

Overflow Diameter
4"

Roof Rail Height
N/A

Anchor Bolts
N/A

Chairs
N/A

Primary Manway Diameter
28"

Primary Roof Hatch
24"

Roof Vent 1
Not Provided

Pittsburg Tank & Tower Maintenance

Inspection Executive Summary

Critical

Coatings/Interior Wet

- Abrasive blast all interior areas to a SSPC-SP10 (near white) then apply a 80-100 mil thick monolithic 100% solids/zero VOC lining system. The elastomeric properties allow for expansion and contraction of the substrate caused by thermal shifts and weight. This coating meets the NSF 61/600 and FDA requirements for food contact. This coating would only be applied to the floor and shell of the tank.

Roof /Roof Deterioration

- Replace the existing roof with a new roof in compliance with current applicable OSHA, AWWA, NFPA and AISC standards. The roof will be complete with a 42" high 360° handrail system, a vacuum-pressure frost-proof vent, two (2) 30" roof hatches, locking devices, two (2) interior access ladders complete with cable-type safety devices, and Confined Space Entry signs.

OSHA

Ladders/Platforms/Shell Ladder

- Install a cable-type safety climb device on the shell ladder.

Access Points/Primary Shell Manway

- Install a Confined Space Entry sign on the primary shell manway.

Deficiency

Coatings/Exterior

- Pressure wash the tank exterior with an anti-fungal biodegradable solution (minimum 3,500 psi at 3.0 gpm), SSPC-SP2/SSPC-SP3 hand or power tool clean all rusted and flaking areas, spot prime, and apply one (1) finish coat of Alkyd paint to match the existing color.

Security/Site Security

- Post a "No Trespassing" sign.
- Install a "Warning Tampering with this Facility is a Federal Offense" sign.

Foundation & Grade/Foundation

- Remove all fill to expose 6" of foundation and properly grade for drainage. This should be done by a local excavating company.

Shell Accessories/Drain

- Install a locking device on the existing drain valve.

Shell Accessories/Liquid Level Gauge

- Adjust, calibrate, and lubricate the existing liquid level gauge.

Shell Accessories/Overflow

- Install a flapper valve and screen on the overflow pipe at the termination point.

Access Points/Primary Shell Manway

- Install a davit arm on the primary shell manway.

Preventive

Foundation & Grade/Foundation

- Clean the exposed foundation and seal or paint to protect the concrete.
- Remove the vegetation/debris from around the tank. *This work to be performed by others.*

Foundation & Grade/Grounding

- Install two (2) grounding assemblies.

Ladders/Platforms/Shell Ladder

- Install a Fall Protection Required sign near the base of the shell ladder.

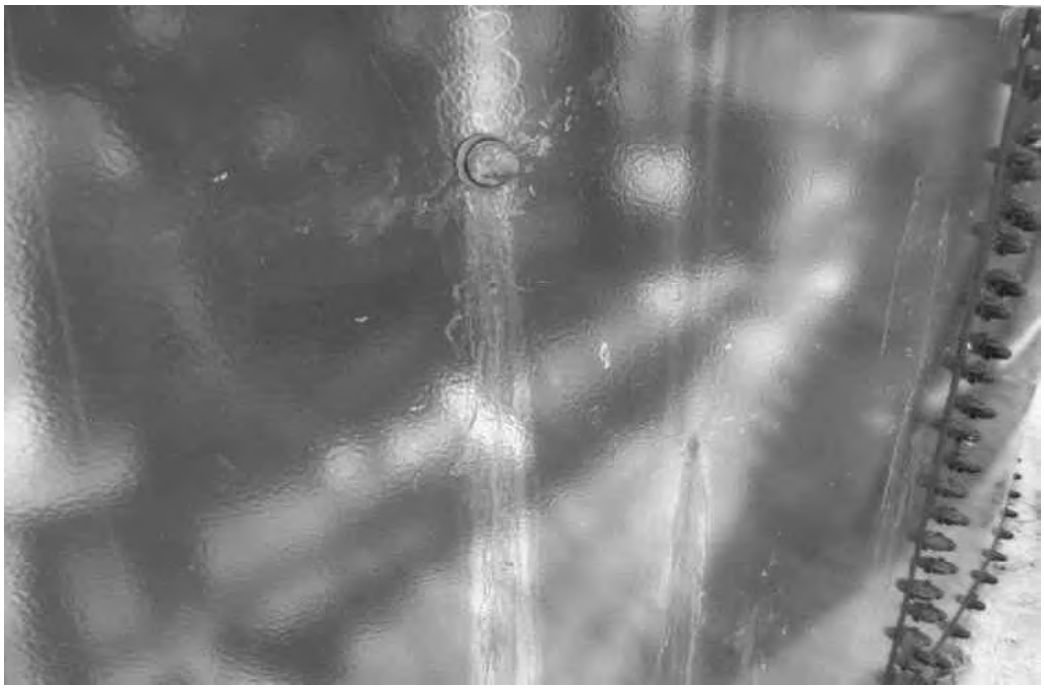
Interior /Mixing System

- Install a Grid Bee mixing system to enhance water quality. *Electrical work to be done by others.*

Performing welding, cutting, grinding or using a cut off saw is not recommended by the manufacturer of 'Glass Lined' tanks. Some of recommendations in this report are for preventive maintenance items and/or to keep the tank in compliance with governing codes. Any items that require "Hot Work" will be performed at the request of the owner or owner's authorized agent.

Coatings

Exterior



Current Conditions:

- The tank's exterior coating has corrosion and is starting to fail.

Recommendations:

- Pressure wash the tank exterior with an anti-fungal biodegradable solution (minimum 3,500 psi at 3.0 gpm), SSPC-SP2/SSPC-SP3 hand or power tool clean all rusted and flaking areas, spot prime, and apply one (1) finish coat of Alkyd paint to match the existing color.

Coatings

Exterior (Cont...)

Misti Moody
Account Executive
Phone: 270-826-9000 Direct/Extension: (406) 869-3157
WWW.PTTG.COM

Coatings

Exterior (Cont...)

Misti Moody
Account Executive
Phone: 270-826-9000 Direct/Extension: (406) 869-3157
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Coatings

Interior Wet

Current Conditions:

- The tank's interior coating has heavy corrosion and has failed.

Recommendations:

- Abrasive blast all interior areas to a SSPC-SP10 (near white) then apply a 80-100 mil thick monolithic 100% solids/zero VOC lining system. The elastomeric properties allow for expansion and contraction of the substrate caused by thermal shifts and weight. This coating meets the NSF 61/600 and FDA requirements for food contact. This coating would only be applied to the floor and shell of the tank.

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Coatings

Interior Wet (Cont...)

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Account Executive
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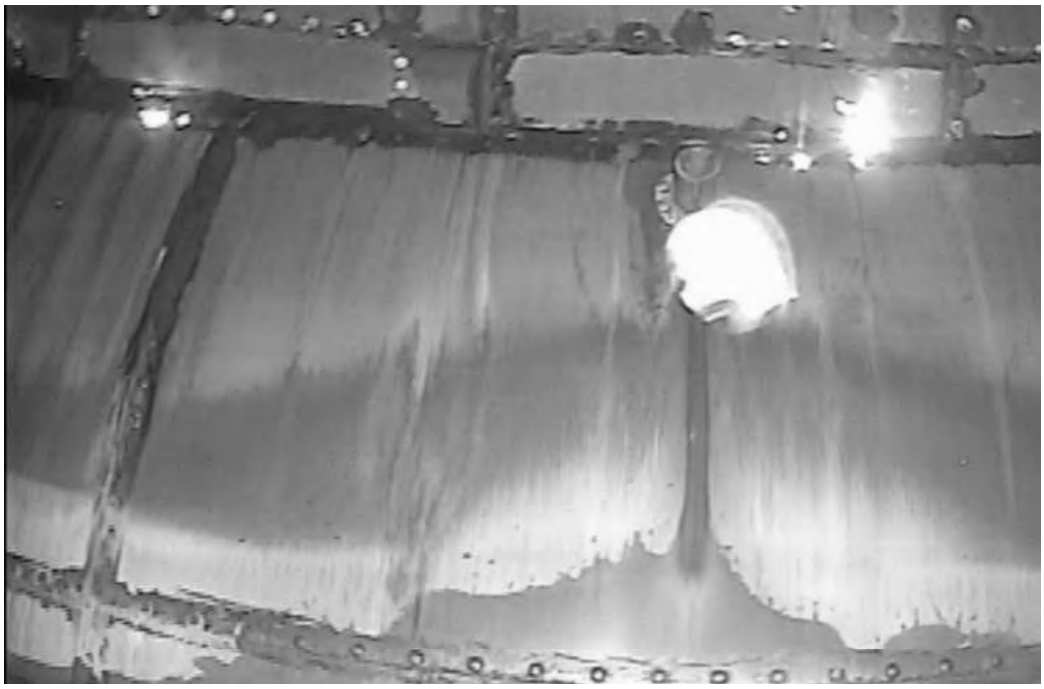
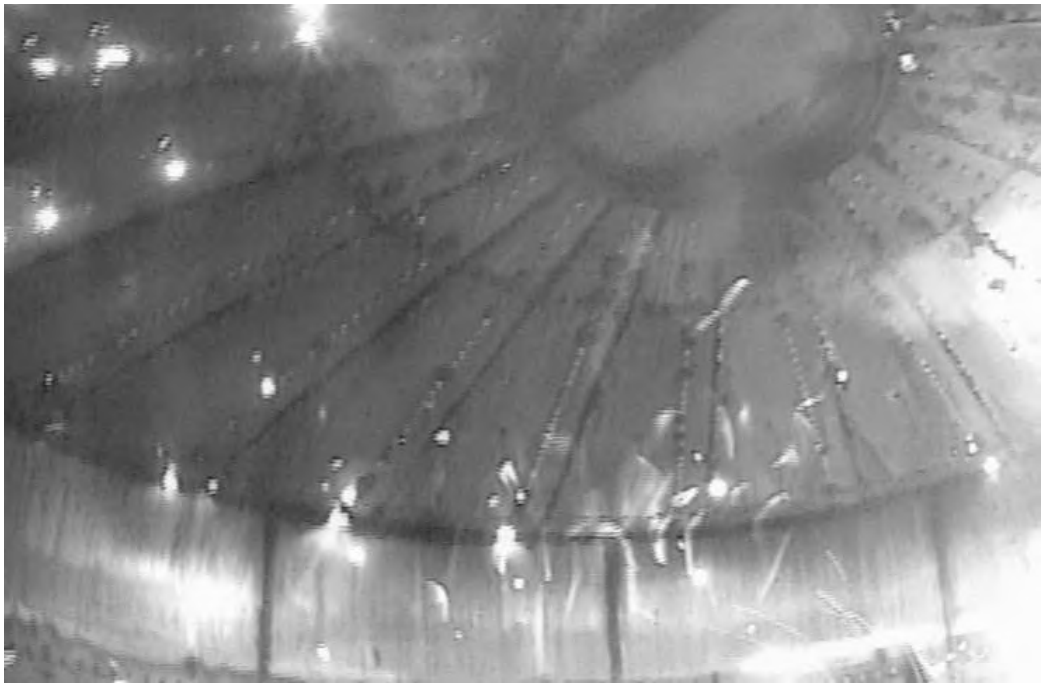
Coatings

Interior Wet (Cont...)





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Account Executive
Phone: 270-826-9000 Direct/Extension: (406) 869-3157
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Coatings

Sediment

Current Conditions:

- Photos show before and after a dive cleanout was performed.

Recommendations:

- No work recommended.

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Account Executive
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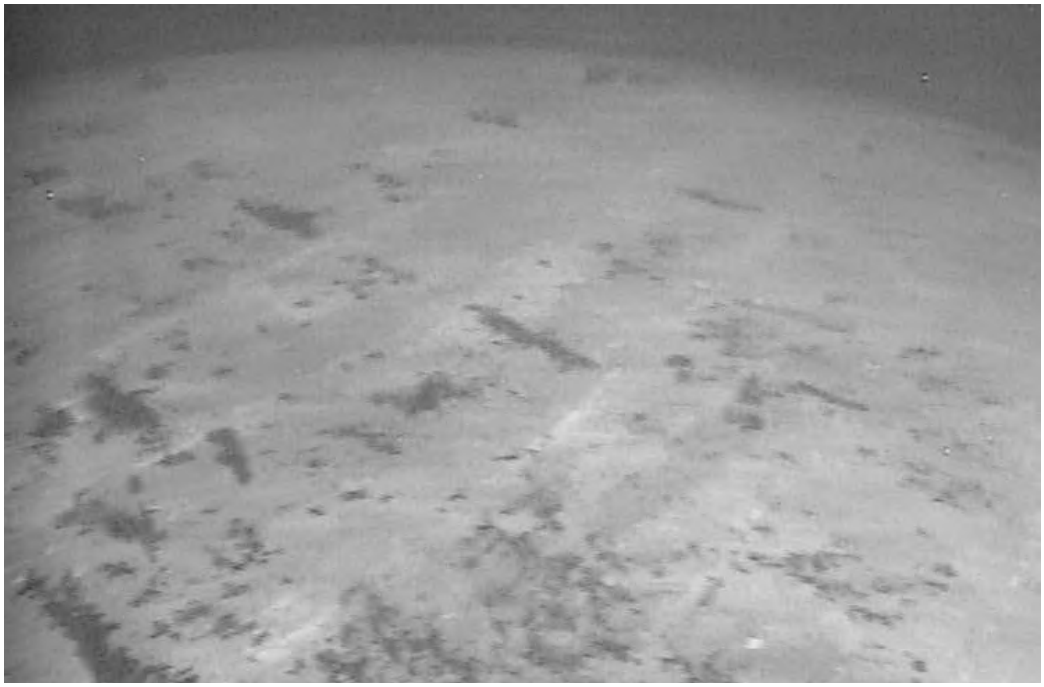
Coatings

Sediment (Cont...)



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Account Executive
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Security

Site Security

Current Conditions:

- The site does not have "No Trespassing" signage.
- The site does not have "Warning Tampering with this Facility is a Federal Offense" signage.

Recommendations:

- Post a "No Trespassing" sign.
- Install a "Warning Tampering with this Facility is a Federal Offense" sign.

Foundation & Grade

Foundation

Current Conditions:

- The foundation does not appear to be sealed.
- The structure currently has vegetation/debris near the tank.
- The top of the foundation is less than 6" above grade.

Recommendations:

- Clean the exposed foundation and seal or paint to protect the concrete.
- Remove the vegetation/debris from around the tank. *This work to be performed by others.*
- Remove all fill to expose 6" of foundation and properly grade for drainage. This should be done by a local excavating company.

Misti Moody
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Phone: 270-826-9000 Direct/Extension: (406) 869-3157
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Foundation & Grade

Foundation (Cont...)

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Account Executive
Phone: 270-826-9000 Direct/Extension: (406) 869-3157
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Foundation & Grade

Grounding

Current Conditions:

- The tank does not appear to be properly grounded for lightning protection.

Recommendations:

- Install two (2) grounding assemblies.

Misti Moody
Account Executive
Phone: 270-826-9000 Direct/Extension: (406) 869-3157
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Shell Accessories

Drain

Current Conditions:

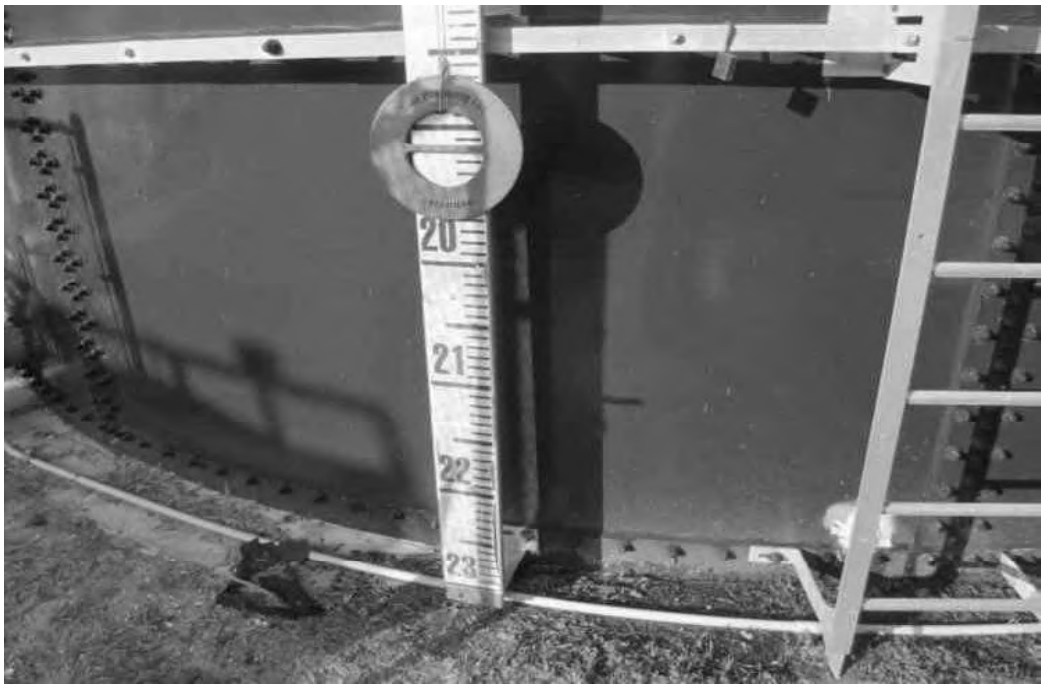
- The existing drain valve is not locked.

Recommendations:

- Install a locking device on the existing drain valve.

Shell Accessories

Liquid Level Gauge



Current Conditions:

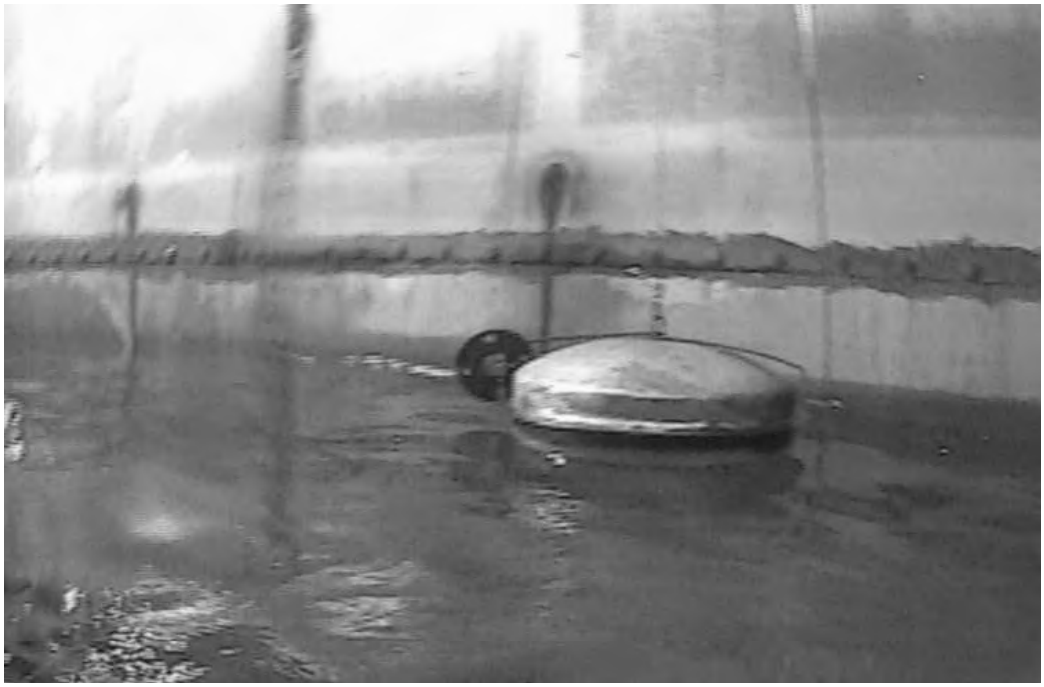
- The liquid level gauge needs to be adjusted and calibrated.

Recommendations:

- Adjust, calibrate, and lubricate the existing liquid level gauge.

Shell Accessories

Liquid Level Gauge (Cont...)



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Account Executive
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Shell Accessories

Overflow

Current Conditions:

- The overflow is not equipped with a flapper valve.

Recommendations:

- Install a flapper valve and screen on the overflow pipe at the termination point.

Misti Moody
Account Executive
Phone: 270-826-9000 Direct/Extension: (406) 869-3157
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Shell Accessories

Overflow (Cont...)

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Account Executive
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Ladders/Platforms

Shell Ladder

Current Conditions:

- The shell ladder is not in compliance for the following reason: Does not have a compliant cable-type safety climb device.
- There is currently no signage at the base of the shell ladder.

Recommendations:

- Install a cable-type safety climb device on the shell ladder.
- Install a Fall Protection Required sign near the base of the shell ladder.

Misti Moody
Account Executive
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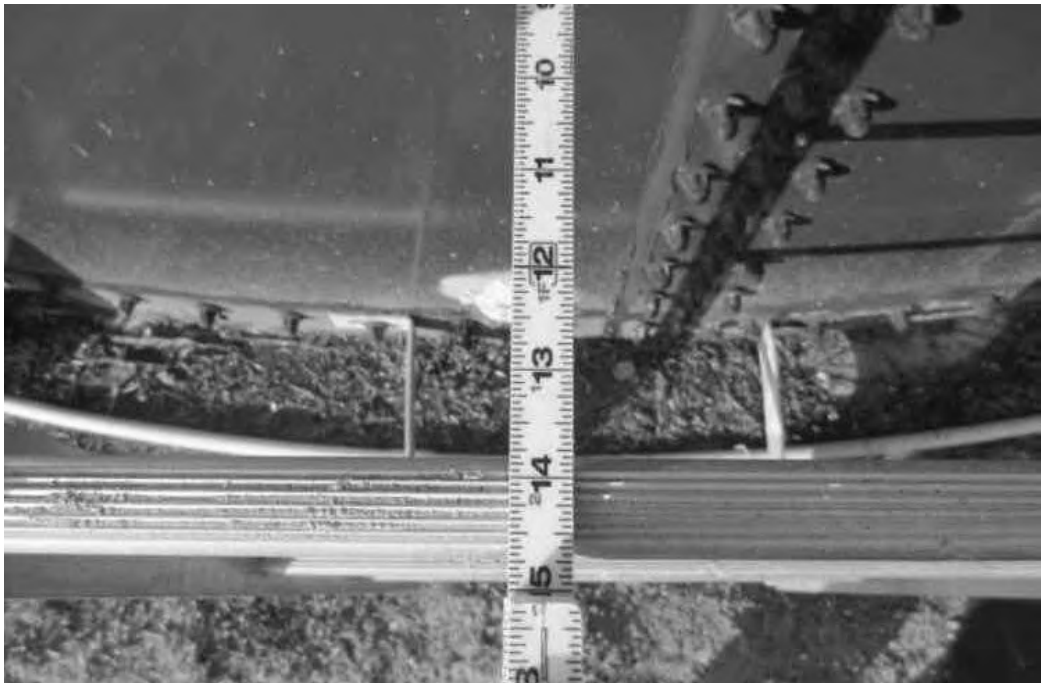
Ladders/Platforms

Shell Ladder (Cont...)



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Ladders/Platforms

Shell Platform

Current Conditions:

- The access platform appears to be in good condition.

Recommendations:

- No work recommended.

Access Points

Primary 28" Shell Manway

Current Conditions:

- The primary shell manway is not equipped with a davit arm.
- The primary shell manway does not have a Confined Space Entry sign.

Recommendations:

- Install a davit arm on the primary shell manway.
- Install a Confined Space Entry sign on the primary shell manway.

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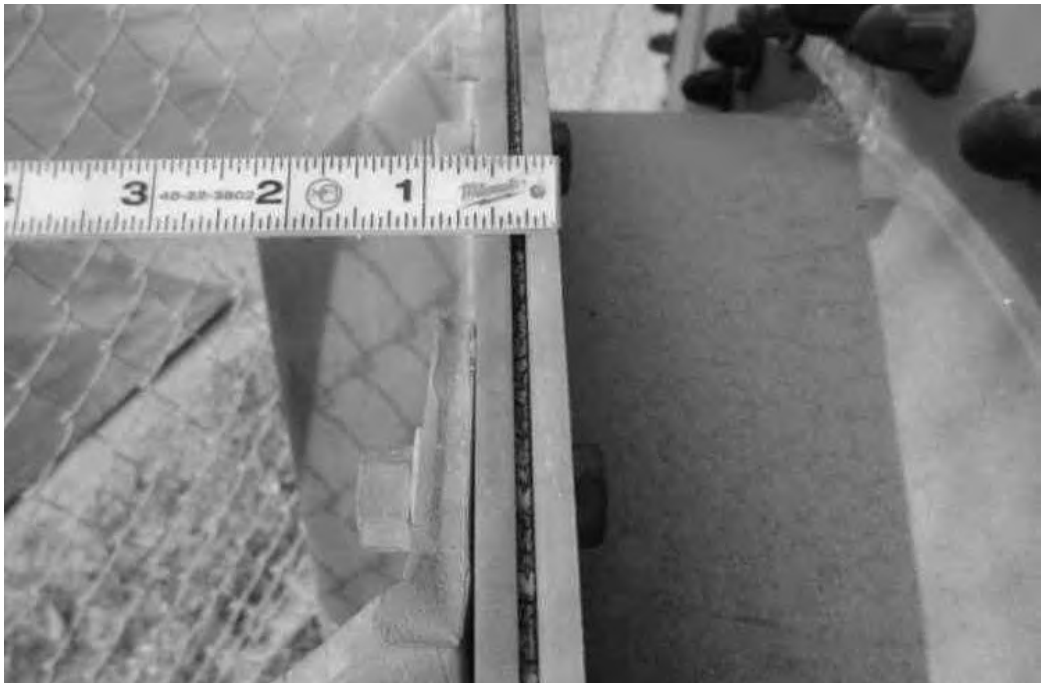
Access Points

Primary Shell Manway (Cont...)



Roof

Roof Deterioration

Current Conditions:

- The existing roof is deteriorated and in poor condition. The current condition allows rainwater and contaminants to potentially enter the tank.

Recommendations:

- Replace the existing roof with a new roof in compliance with current applicable OSHA, AWWA, NFPA and AISC standards. The roof will be complete with a 42" high 360° handrail system, a vacuum-pressure frost-proof vent, two (2) 30" roof hatches, locking devices, two (2) interior access ladders complete with cable-type safety devices, and Confined Space Entry signs.

Roof

Roof Deterioration (Cont...)

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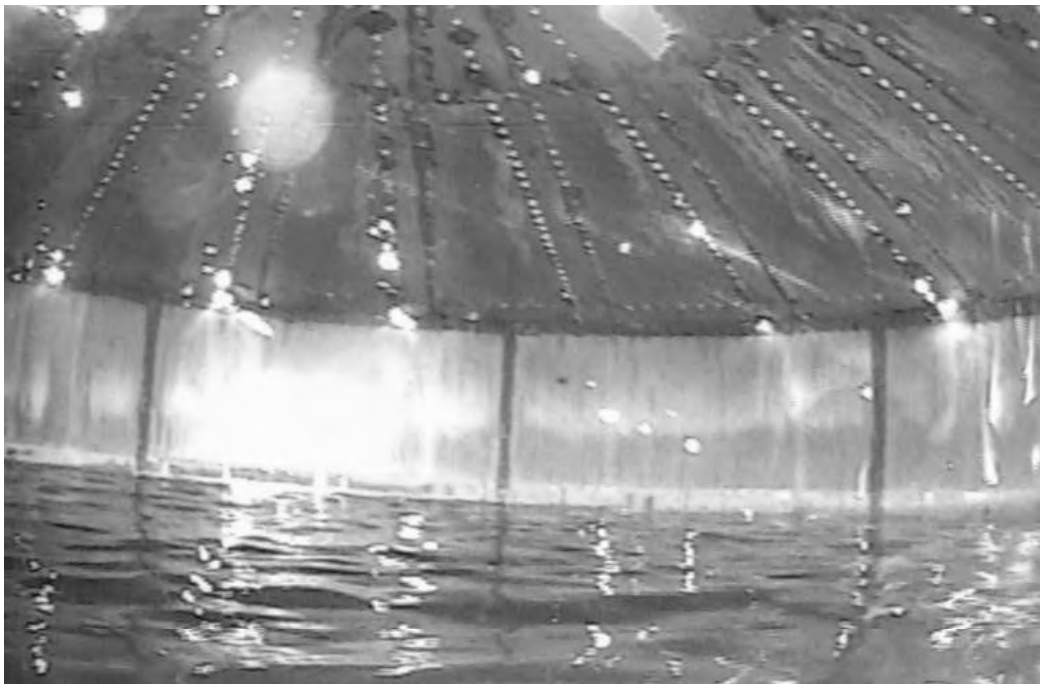
Roof

Roof Deterioration (Cont...)



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Interior

Mixing System

Current Conditions:

- The tank is not currently equipped with a mixing system.

Recommendations:

- Install a Grid Bee mixing system to enhance water quality. *Electrical work to be done by others.*

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Performing welding, cutting, grinding or using a cut off saw is not recommended by the manufacturer of 'Glass Lined' tanks. Some of recommendations in this report are for preventive maintenance items and/or to keep the tank in compliance with governing codes. Any items that require "Hot Work" will be performed at the request of the owner or owner's authorized agent.

Code Summary

Coatings/Exterior

AWWA D102-17 4.3 Outside Coating Systems

Coatings/Interior Wet

AWWA D102-17 4.6.3.2.3 Interior wet surfaces shall have existing coatings removed and be blast cleaned in accordance with SSPC-SP 10/NACE No. 2 when (1) the existing coatings have deteriorated extensively, (2) the existing coating system is determined not to be a candidate for overcoating when evaluated in accordance with SSPC-TU 3, or (3) the candidate overcoat system or systems are not compatible with the existing coating system.

Coatings/Sediment

PTTG PGR 1000 Sediment should be removed from tanks regularly to avoid issues associated with excessive sediment buildup.

Security/Site Security

Federal Regulations Public Health US Code title 42, section 300i-2 Any person who tampers with a public water system shall be imprisoned for not more than 5 years, or be fined in accordance with Title 18 or both.

Federal Regulations Public Health US Code title 42, section 300i-2 Any person who tampers with a public water system shall be imprisoned for not more than 5 years, or be fined in accordance with Title 18 or both.

Foundation & Grade/Foundation

PTTG PGR 2000 Caulk or grout should be installed at the base of the tank to prevent water from collecting under the floor and chime area. Foundations should be sealed or painted to protect the concrete.

PTTG PGR 2003 Storage tanks and their surrounding areas should be kept clean to allow for maintenance and inspections to be performed.

AWWA D103-19 13.5.1 The tops of the concrete foundations shall be a minimum of 6 in. above the adjacent grade, unless otherwise specified.

Foundation & Grade/Grounding

PTTG PGR 2004 Storage tanks should be grounded for lightning protection.

Shell Accessories/Drain

PTTG PGR 5001 Drain valves should be locked to prevent unauthorized draining of the tank.

Shell Accessories/Liquid Level Gauge

PTTG PGR 5003 Tanks should be equipped with a mechanical liquid level indicator system. This allows the tank level to be monitored.

Shell Accessories/Overflow

AWWA D103-19 7.3 The tank shall be equipped with an overflow of the type and size specified. If a stub overflow is specified, it shall project at least 12 in. (300 mm) beyond the tank shell. If an overflow to ground is specified, it shall be brought down the outside of the tank shell and supported at proper intervals with suitable brackets. It shall terminate at the top in a weir box or other suitable intake. Unless otherwise specified, the overflow pipe shall be fitted with an elbow, screened flap valve or duckbill, and terminate 24 in. above ground. Internal overflows are not recommended but may be provided if specified. Internal overflows, where a portion of the piping is within the tank container, are not recommended when tank usage and climatic conditions are such that ice damage may occur to the overflow pipe or its attachments.

Ladders/Platforms/Shell Ladder

OSHA 1910 28(b)(9)(i) Existing fixed ladders. Each fixed ladder installed before November 19, 2018 is equipped with a personal fall arrest system, ladder safety system, cage, or well. New fixed ladders. Each fixed ladder installed on and after November 19, 2018, is equipped with a personal fall arrest system or a ladder safety system.

PTTG PGR 4002 Fall Protection Required signs should be posted at the base of ladders as a reminder that fall protection is required to climb.

Ladders/Platforms/Shell Platform

OSHA 1910 29(b)(1) The top edge height of top rails, or equivalent guardrail system members, are 42 inches (107 cm), plus or minus 3 inches (8 cm), above the walking-working surface. The top edge height may exceed 45 inches (114 cm), provided the guardrail system meets all other criteria of paragraph (b) of this section (see Figure D–11 of this section).

Access Points/Primary Shell Manway

AWWA D103-19 7.1 One manhole, unless otherwise specified, shall be provided in the first ring of the tank shell. In tanks with one manhole, a sheet opposite the manhole may be removed for additional ventilation if required for inspections or recoating. If any manhole cover weighs more than 50 lb. (23 kg) a hinge or davit shall be provided. Manholes may be either circular, 24 in. (610 mm) in diameter; square 24 in. (610 mm) x 24 in. (610 mm); or elliptical 18 in. (460 mm) x 22 in. (560 mm) minimum size. Flush rectangular manholes with a minimum length of 24 in. (610 mm) in the shortest direction and a maximum length of 48 in. (1220 mm) in the longest direction are also acceptable.

OSHA 1910 146 (c)(2) If the workplace contains permit spaces, the employer shall inform exposed employees, by posting danger signs or by any other equally effective means, of the existence and location of and the danger posed by the permit spaces.

Roof /Roof Deterioration

PTTG PGR 6000 Damaged or deteriorated tank roofs should be replaced on an emergency basis.

Interior /Mixing System

PTTG PGR 7006 Many operators rely on mixing via normal cycling of water in and out of the tank to limit water age and deterioration of disinfectant chemicals. This reliance on “passive mixing” is not enough in most cases to prevent thermal stratification, which can lead to a drop in residual chlorine and a resultant growth of bacteria.

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

In the matter of an
Application for Permit by:

Useppa Island Utility Co, Inc.
JR Hiller, Service Director
P.O. Box 640
Bokeelia, FL 33922
jrhiller@useppa.com

Permit No.: 129531-005-WC
County: Lee County
Project Name: New Potable Water Storage Tank
PWS ID: 5360299

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number 129531-005-WC to construct the subject modifications to the existing water treatment plant, issued pursuant to Section 403.861(9), Florida Statutes.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until a subsequent order of the department. Because the administrative hearing process is designed to formulate final agency action, the subsequent order may modify or take a different position than this action.

Petition for Administrative Hearing

A person whose substantial interests are affected by the department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
(c) A statement of when and how the petitioner received notice of the agency decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@FloridaDEP.gov. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a).

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver may not apply to persons who have not received a clear point of entry.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the department's action may also request an extension of time to file a petition for an administrative hearing. The department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@FloridaDEP.gov, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and

by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

EXECUTION AND CLERKING

Executed in Fort Myers, Florida.
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Elizabeth Sweigert
Director of District Management

Attachment:
Permit No.: 129531-005-WC

CERTIFICATE OF SERVICE
The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

Patrick Day, P.E., DRMP, pday@drmp.com

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

November 6, 2024

Clerk Date

FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

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Governor

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Lt. Governor

Shawn Hamilton
Secretary

Useppa Island Utility Co, Inc.
JR Hiller, Service Director
P.O. Box 640
Bokeelia, FL 33922
jrhiller@useppa.com

Water Supplier: Useppa Island WTP
PWS ID: 5360299
Permit No.: 129531-005-WC
Issue Date: November 6, 2024
Expiration Date: November 5, 2029
County: Lee County
Project Name: New Potable Water Storage Tank

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-550, and 62-555. The above-named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

TO CONSTRUCT: A new potable water storage tank. The maximum day operating capacity of plant is **63,000** gpd.

CONSTRUCTION INCLUDES INSTALLATION OF:

1. Permastore 52,802-gallon potable water storage tank. This tank will be in addition to the existing tank to provide redundancy.
2. Associated 6-inch PVC piping for interconnect to existing storage tank and potable water from plant.

IN ACCORDANCE WITH: DRMP design drawings, sheet numbers 1 through 3, dated September 27, 2024. The application was dated August 16, 2024 and last received on September 30, 2024.

LOCATION: Project located along Road D on Useppa Island, Lee County, Florida. Latitude 26°39'43.70"N, Longitude 82°12'43.25"W.

Work must be conducted in accordance with the General and Specific Conditions attached hereto.

GENERAL CONDITIONS:

The following General Conditions are referenced in Florida Administrative Code Rule 62-4.160.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings,

exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties; therefore, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

   a. Have access to and copy any records that must be kept under conditions of the permit;

   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules. Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the department with the following information:

   a. A description of and cause of noncompliance; and

   b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the department may be used by the department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

11. This permit is transferable only upon department approval in accordance with Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:
    a. Determination of Best Available Control Technology (BACT)
    b. Determination of Prevention of Significant Deterioration (PSD)
    c. Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
    d. Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

    a. Upon request, the permittee shall furnish all records and plans required under department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the department.

    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by department rule.

    c. Records of monitoring information shall include:

        1. the date, exact place, and time of sampling or measurements;
        2. the person responsible for performing the sampling or measurements;
        3. the dates analyses were performed;
        4. the person responsible for performing the analyses;
        5. the analytical techniques or methods used;
        6. the results of such analyses.

15. When requested by the department, the permittee shall furnish within a reasonable time any information required by law, which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The Permittee shall retain service a Florida-licensed professional engineer to take responsible charge of inspecting construction of the project for the purpose of determining in general if the construction proceeds in compliance with the permit, including the approved preliminary design report or drawings and specifications for the project. [62-555.530(3), F.A.C.]

2. The Permittee shall have complete record drawings produced for the project in accordance with subsection 62-555.530(4), F.A.C.

3. Prior to placing the new tank and piping in service, the Permittee shall update the operation and maintenance manual to include the new units. [62-555.350(13). F.A.C.]

4. The Permittee shall submit a certification of construction completion to the department and obtain approval or clearance, from the department before placing any public water system components constructed or altered under this permit in operation for any purpose other than disinfection, testing for leaks, or testing equipment operation. [62-555.345, F.A.C.]

5. The newly installed components that come into contact with drinking water or drinking water treatment chemicals shall conform to one of the following:

   a. NSF International Standard 61
   b. NSF International Standard 42, 44, 53, 55, 58, or 62
   c. Section 6 of NSF International Standard 14, or
   d. The Food and Drug Administration's regulations for indirect food additives as contained in the April 1, 2002, revision of 21 C.F.R. Parts 174 through 189.

   [62-555.320(3)(b), F.A.C.]

6. The pipe, pipe fitting, solder, and flux used in the construction of this project shall be lead free. [Rule 62-555.322(1), F.A.C.]

7. The tank and piping authorized by this permit may not be placed into service until a letter of clearance has been issued by this department. [Rule 62-555.345(1), F.A.C.]

8. Prior to placing this project into service, Permittee shall submit, at a minimum, all of the following to the department for evaluation and approval for operation, as provided in Rules 62-555.340 and 62-555.345, F.A.C.:

   a. The Certification of Construction Completion and Request for Clearance to Place Permitted PWS Components into Operation {DEP Form 62-555.900(9)}

   b. Certified record drawings if there are any changes noted for the permitted project.

   c. Two days of satisfactory bacteriological analytical results.

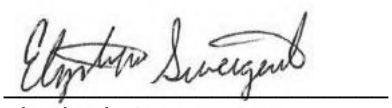
   Bacteriological test results shall be considered unacceptable if the test were completed more than 60 days before the department received the results. [Rule 62-555.340(2)(c), F.A.C.]

In order to facilitate the issuance of a letter of clearance, the department requests that all of the above information be submitted as one package to https://www.fldepportal.com/DepPortal/go/submit-registration.

9. The permittee or supplier of water shall telephone the State Warning Point (SWP), at 1-800-320-0519 immediately (i.e. within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [62-555.350(10), F.A.C.]

Executed in Fort Myers, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Elizabeth Sweigert
Director of District Management

FLORIDA DEPARTMENT OF Environmental Protection

South District
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Fort Myers FL 33902-2549
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Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

REQUEST FOR ADDITIONAL INFORMATION

September 16, 2024

Donald Beckstead
8115 Main Street
Bokeelia, FL 33922
DBeckstead@Useppa.com

Re: First Request for Additional Information (RAI)
Lee County – Potable Water
Facility Name: Useppa Island Club
Site ID: 5360299

Dear Mr. Beckstead:

Thank you for your submittal of the Capacity Analysis Report submitted on June 28, 2024 for the above referenced Facility. A review of your submittal and supporting documentation indicates the submittal is incomplete. Please provide the information listed below and refer to this RAI in your response. The response to this RAI must be signed, sealed, and dated by a registered Florida Professional Engineer.

1. Water usage data calculated from monthly operation reports (MOR) describe water production capabilities, not water demand. The terms “water usage” or “water production” are used interchangeably with “water demand” throughout the report, but water production and water demand measure different aspects of the water system.
    a. Please revise table 2-1 to indicate that the data provided are historic data of water produced as required per 62-555.348 (4)(b) F.A.C.
    b. Provide the historic demand values in a separate table to determine compliance with 62-555.315(3), F.A.C.
    c. Please review 62-555.348(4), F.A.C. for the metrics required to be included in a capacity analysis report.
2. Provide the current useful capacity of each finished-water storage facility consistent with 62-555.348(4)(a) F.A.C. and as outlined in 62-555.320(19)(a), F.A.C., which states “*the*

Attachment 4-4
Communication Date 09/16/24

*total useful finished-water storage capacity (**excluding** any storage capacity for **fire protection**) connected to a water system shall at least equal **25 percent of the system's maximum-day water demand**, excluding any design fire-flow demand."* The calculation in Section 4.4 shows existing finished water storage, including fire flow. Fire flow must be excluded in this calculation and water demand values should be used in the calculation, not production. Calculations will be verified once the current water demand is confirmed.

3. Page 5 of the report includes a footnote "NOTE: These highly irregular flows are considered anomalies that are likely attributable to line breaks and/or emergency repairs". Please provide contemporary notes or logbooks which describe such anomalies happening during the timeframe in question.
4. Page 6 of the report indicates "average demand is projected to follow the same patterns in the future due to insignificant future growth within the island". Please provide evidence of little to no growth in water demand on the island. Total annual average daily demand and total maximum-day demand (including fire-flow) should be projected out for at least the next ten years and indicated in a separate table to determine compliance with 62-555.348 (4)(c), F.A.C.
5. Page 6 of the report indicates "the facility has already initiated design plans to expand storage capacity by building a new 50,000 gallon above-ground storage tank (GST) in addition to the existing 100,000 GST." DEP requested a copy of the construction permit on July 1, 2024 and has yet to receive or review the permit for the addition of the new ground storage tank. Please provide a copy of this construction permit for our records and review.
6. Please verify whether the two high service pumps capacities (140 gpm each) provided in section 4.0 (page 6 of 17) and table 5-1 in page 16 of 17 are firm capacities.
7. The well pump capacities provided in Table 4-1 (page 7 of 17) of section 4.1 are based on the South Florida Water Management District (SFWMD) well permit 36-0329-W. The values are not based on the firm capacities (field verified capacities) of the pumps. Please complete a physical capacity demonstration to confirm the current well pump firm capacities. Revise the permeate (80% recovery) and concentrate (20% recovery) calculations in page 7 of 17.
8. Page 6, section 4.0 of the report indicates "The existing RO skid is currently capable of producing 40,000 GPD, which is below the permitted maximum daily limit of 63,000 GPD." The previous limiting factor for production at the water system appeared to be aerator. If the reverse osmosis skids can only produce 40,000 gallons per day, that treatment appears to be the new limiting factor, reducing the design capacity of the system to 40,000 GPD. Page 6 section 4.3 also indicates that the original production rate was about 42.2 GPM which was still below the permitted design Capacity of 63,000 GPD. Section 4.0 on Page 6 of 17, Section 4.3 on page 8 of 17, and Table 4-3 on Page 11 of 17 confirm that the RO skid firm capacity is 40,000GPd. Please do one of the following:
    a. Submit a re-rate application to the department. Verify that the service pump firm capacities can meet the proposed rerate design capacity OR
    b. Provide a schedule indicating specific dates of when the RO skid rehabilitation will take place as indicated on Page 17 of 17. Dates may need to be memorialized depending on how long the rehabilitation will take.
9. Page 7 of the report indicates different recovery rate for the new RO skid. The well withdrawal limit (97,500GPD) is multiplied by the average recovery rate 80%. However, the sentence below table 4-1 states that the potential permeate production capacity is feed rate (90 GPM) X Recovery rate (0.71). Could you please confirm whether the potential RO

recovery rate means permeate recovered when RO system performance is optimized, thus lower recovery rate but better permeate quality?

10. Provide an estimate of the time required for finished-water storage need (including fire storage if fire protection is being provided) to exceed the existing total useful finished-water storage capacity to ensure compliance with 62-555.348 (4)(d), F.A.C.
11. Provide estimate of the time required for maximum-day water demand (including fire-flow demand if fire protection is being provided) to exceed the total permitted maximum-day operating capacity of the plant to ensure compliance with 62-555.348 (4)(d), F.A.C. Please note that projections must be based on demand, not production.
12. The facility has exceeded permitted design capacity in August and November of 2023 as well as January and June of 2024. Provide a detailed schedule with specific dates for the design, permitting, and construction of the facility improvements per 62-222.348(4)(e) F.A.C. and 62-222.348(4)(f) F.A.C. If the total permitted maximum-day operating capacity of the treatment plant will be exceeded in less than five years or that finished-water storage need (including fire storage if fire protection is being provided) will exceed the existing total useful finished-water storage capacity in less than five years, the next updated report shall be submitted annually per 62-555.348(3)(b)4 F.A.C.
13. Please revise the document to show verbiage consistent with 62-555.348 F.A.C.

Please provide the additional information requested above **within 30 days of receipt of this letter**. If you have any questions, please feel free to contact George Ugartemendia at 239-344-5623, or George.Ugartemendia@FloridaDEP.gov.

Sincerely,

George Ugartemendia
Environmental Consultant

Cc: Useppa Island Utilities Company Utilities@Useppa.com
JR Hillier JRHillier@Useppa.com
Billy Gay GBay@Useppa.com
US Water Services Corp DrinkingWater@USWaterCorp.net
Mohammed Kader MKader@USWaterCorp.net
Natalie Harvey NHarvey@USWaterCorp.net
William Edwards WJEdwards@USWaterCorp.net
Selina Makofsky SMakofsky@USWaterCorp.net
Lina Quintero LQuintero@USWaterCorp.net

U.S. Water Services Corporation

Water and Wastewater Utility Operations, Maintenance, Engineering, Management, Construction

August 3, 2023

Elizabeth Sweigert
Assistant Director of District Management
South District Office
Florida Department of Environmental Protection

RE:
Compliance Assistance Offer Letter
Useppa Island Club
Facility ID: 5360299
Lee County – PW

Dear Ms. Sweigert,

Below for the Department's review are responses to the deficiencies noted in the Compliance Assistance Offer dated July 7, 2023:

1. Gap and holes in the sanitary seal of well 1 must be sealed. Sand and paint sanitary seals. Replace sanitary seal if necessary.

   Response: Gap and holes in the sanitary seal of Well 1 have been sealed. The sanitary seals have also been sanded and painted.

2. Enclose the wellhead(s), treatment facilities, storage tanks, and pumping facilities within a security fence with a locking access gate OR house in a locking building or enclosure.

   Response: A new tank is planned to be installed in the near future. Once the tank has been installed, security fencing will be installed around the facility. Pictures will be sent to the Department once completed.

4939 Cross Bayou Boulevard * New Port Richey * Florida * 34652
Tel: 727-848-8292 Fax: 727-848-7701 Toll Free: 866-753-829

Attachment 4-4
Communication Date 08/23/23

3. Provide an Emergency Response Plan that meets the requirements outlined in 62-555.350(15), including generator capacity and contact information.

   Response: An updated Emergency Response Plan will be placed on site.

4. Provide an O&M manual for review at the water treatment plant.

   Response: An O&M manual will be placed on site.

5. Repair leaks or contact the Department if replacement is necessary.

   Response: Parts to repair the leaks have been ordered and are planned to be installed in the next 3 weeks once the parts have arrived.

6. Investigate the cause of the exceedance of the plant's permitted design capacity and provide a written response. A capacity analysis report (CAR) is required.

   Response: A proposal to complete the CAR is being submitted to Useppa Island Club for approval.

7. Provide Department with tank inspection results as soon as they are completed. Finished drinking water storage tanks and Hydropneumatic tank must be cleaned and inspected at least every five years.

   Response: The 5 year tank inspection has been schedule for November 2023.

8. Secure, replace or repair degasifier.

   Response: The current degasifier has been secured and is functional. The Utility is looking into purchasing a new degasifier and has received a proposal from a vendor for replacement.

If there are any questions or concerns regarding any of the responses, please don't hesitate to contact me via e-mail at nharvey@uswatercorp.net.

Sincerely,

Natalie Harvey
US Water Compliance Assistant

Disaster-Specific Preparedness/Emergency Response Plan

Useppa Island Club Water System

Address:	8115 Main Street Bokeelia, FL 33922
Phone:	239-209-7343
Contact:	Jonathan Schmidt
E-mail:	jschmidt@uswatercorp.net
PWS:	5360299
County:	Lee

Updated – August 2023

Prepared by:

U.S. Water Services Corporation
4939 Cross Bayou Blvd.
New Port Richey, FL 34652
(727) 848-8292

Emergency Notification

Emergency Notification List				
Organization or Department	**Name**	**Telephone**	**After Hours Telephone**	**E-mail or Fax**
US Water Lead Operator	William Edwards	863-558-2327	863-558-2327	wjedwards@uswatercorp.net
US Water Regional Operations Manager	Jonathan Schmidt	239-209-7343	239-209-7343	jschmidt@uswatercorp.net
US Water Compliance Abnormal Event Reporting	-	866-753-8292	727-359-8457	-
US Water Maintenance After Hours	-	-	727-848-8292	-
US Water Maintenance Supervisor	Billy Adams	239-286-9685	Call the number above ^	wadams@uswatercorp.net
US Water Regional Manager	Lina M. Quintero	727-858-2396	727-858-2396	lquintero@uswatercorp.net
US Water Regional Maintenance Manager	Steve Stanton	239-209-6120	239-209-6120	sstanton@uswatercorp.net
State Warning Point	Duty Officer	800-320-0519	800-320-0519	http://floridadisaster.org/Response/Operations/swp.htm
County Health Department	Lee County	239-332-9501	-	LeeCHDFeedback@flhealth.gov
Florida Department of Environmental Protection (FDEP) District Office	South District	239-344-5600	239-344-5600	850-412-0590 http://www.dep.state.fl.us/south/
Safe Drinking Water Hot Line	Duty Officer	800-426-4791 202-564-3750	800-426-4791	202-564-3752 http://water.epa.gov/drink/hotline/index.cfm
FEMA	Duty Officer	1-800-621-3362	1-800-621-3362	www.fema.gov
Local Law Enforcement	Duty Officer	911	911	-
Fire Department	Duty Officer	911	911	-
Emergency Medical Services	Duty Officer	911	911	-
National Spill Response Center	Duty Officer	800-424-8802	800-424-8802	HQS-DG-lst-nrcmgmt@uscg.mil http://www.nrc.uscg.mil/nrchp.html

Service / Repair Notifications			
Organization Or Department	**Company Name**	**Telephone**	**Night Phone or Fax Number**
Electric Utility Co.	Florida Power & Light Company	1-800-375-2434	1-800-375-2434
Electrician	U.S. Water Services Corporation	239-368-1766	1-866-753-8292
Water Testing Lab.	AEL	239-674-8130	Josh Snead Cell: 239-994-2226
Pump Supplier	Mader Electric Motors	239-731-5455	239-731-8165
Chlorine Supplier	Hawkins	800-328-5460	-
Radio/SCADA Repair Co.	U.S. Water Services Corporation	239-368-1766	1-866-753-8292
Well Drilling Co.	Youngquist Brothers, Inc.	239-489-4444	239-489-4545

Customers

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ This information explains the simple steps you can take to protect you and your family's health.
▪ We will keep you informed as soon as we know more.
▪ Due to this incident as a precaution we advise that all water used for drinking or cooking be boiled.
▪ You can consult a variety of sources for additional information, for example you family doctor or pediatrician.
▪ If you think you may be ill or need medical advice, contact a physician.
▪ Water samples must be collected and tested to validate the microbiological safety of drinking water provided to the consumer.
▪ If you have any questions please contact as at _____
▪ We are taking this incident seriously and doing everything we can do to resolve it.

Disaster-Specific Preparedness/ Emergency Response Plan

A. Vandalism or Sabotage Response Procedures

1. The person first aware of the incident calls the Lead Operator and 911 as soon he knows about the incident.

2. Lead Operator shall contact the Regional Operations Manager to notify State Warning Point 1-800-320-0519 immediately about the incident within the two hours after discovery of sabotage.

3. Regional Operations Manager shall call the appropriate FDEP South District Office, County Health Department and the Facility Owner within the two hours after discovery of sabotage.

4. The Lead Operator collects all reports produced during the investigation and work with the authorities on anything required in the case.

5. Water customers shall be notified also if the water quality has been affected.

6. Lead Operator assesses damage and directs repairs as needed in coordination with the Collection and Distribution System Manager (if necessary).

7. Repair affected facilities as soon as possible.

8. Lead Operator returns the system to normal operation and reports findings to the Regional Operations Manager to proceed with required notifications and updates.

B. Drought Response Procedures

1. Supplier of water analyzes the drought conditions.

2. The permittee shall cease or reduce water withdrawal as directed by the South Water Management District (SFWMD) if water levels in the aquifers fall below the minimum levels established by the Board.

3. Regional Operations Manager notifies Facility Owner and the SFWMD about those conditions and about the measures taken during the emergency.

4. A Water Conservation Plan should be implemented if necessary to get cooperation from the customers during the emergency.

5. The customers are notified about the water use restriction plan.

6. When there is no further need for additional restrictions, the Lead Operator returns the system to normal operation.

7. Customers are notified.

C. Structure Fire Response Procedures

1. As soon as fire is discovered, evacuation of the building(s) is ordered. All employees should know escape routes from every area of the buildings.

2. Activate any visible alarms.

3. Call 911 to notify the Fire Department.

4. If possible, attempt to contain or control the fire using the fire extinguishers located at the facility.

5. Call Regional Operations Manager and Facility Owner.

6. Regional Operations Manager notifies the State Warning Point 1-800-320-0519 immediately and the FDEP South District.

7. Lead Operator and Regional Operations Manager survey the damages after the incident and inform the Facility Owner.

8. Lead Operator and Collection and Distribution System Manager direct all necessary repairs to complete them as soon as possible to avoid service interruptions.

9. Lead Operator notifies the Regional Operations Manager about the conditions of the system when everything is back to normal.

10. All fire extinguishers located in the facility shall remain accessible at all times and annually inspected to ensure they can be used in case of emergency.

D. Flood Preparedness & Response Procedures

1. Do not visit disaster areas until it is safe to access.

2. Stay out of buildings that remain in flood waters.

3. Do not handle live electrical equipment in wet areas.

4. Lead Operator and Regional Operations Manager analyze the severity of the emergency, flood watch and flood warnings.

5. Regional Manager notifies the Facility Owner.

6. Regional Operations Manager directs staff to operate the system without the well(s) that is(are) affected.

7. Regional Operations Manager notifies the State Warning Point 1-800-320-0519 about the severity of the emergency.

8. Lead Operator and Regional Operations Manager analyze the status of critical components, for adequate protection during the emergency.

9. Utility staff involved with the system and properly trained provides emergency assistance to save lives (operators, personnel at the facility and water customers).

10. Regional Manager notifies the customer to boil water or other emergency measures.

11. Lead Operator and Regional Operations Manager have all the equipment and operating personnel ready for reparation as soon as they are able to enter the facility.

12. If necessary call the police and public health officials.

13. After corrective actions, a predetermined number of representative water samples must be collected and tested to validate the microbiological safety of drinking water provided to the costumer.

14. Final report presented to the Facility Owner.

E. Hazardous Material Release Response Procedures

1. Utility staff discovering hazardous materials release orders immediate evacuation of the facility and call 911, State Warning Point 1-800-320-0519 and National Response Center 1-800-424-8802.

2. Regional Manager notifies the emergency agencies having jurisdiction and the Facility Owner.

3. If any person is exposed to any chemical by contact, first wash with soap and water, move to fresh air, flush eyes and if irritation occurs and consult a physician for safety purposes.

4. Locate source of leaks and safely stop it.

5. Clean up the spills with adequate material and place into appropriate container for proper disposal.

6. If the material is considered extremely hazardous

7. Flush spill areas with large amount of water to avoid people coming into contact with these chemicals.

8. Use “Caution” signs to keep all people away from the spill and dispose the waste in accordance with federal, state and local regulations.

F. Hurricane Preparedness & Response Procedures

This procedure is a summary of the actions that must be taken before each hurricane season and before each pending hurricane.

Category 1 hurricane – Sustained winds of 74-95 mph
Category 2 hurricane – Sustained winds of 96-110 mph
Category 3 hurricane – Sustained winds of 111-135 mph
Category 4 hurricane – Sustained winds of 136-155 mph
Category 5 hurricane – Sustained winds of >155 mph

Before Hurricane

Hurricane Watch is issued:

1. Regional Operations Manager shall notify the personnel and give them safety instructions before and after the hurricane.
2. Regional Operations Manager establishes constant communication system with the Facility Owner so they will know the status of the system at all times.
3. Regional Operations Manager establishes communication with the Emergency Operations Center.
4. Check all auxiliary and standby equipment.
5. Stock adequate fuel supplies for the equipment and the emergency trucks and vehicles.
6. Maintain in good repair all mechanical equipment at the plants and wells.
7. Stock spare parts which are critical to the operation of the plant.
8. Stock sufficient supplies of necessary treatment chemicals to treat the water for at least 14 days.

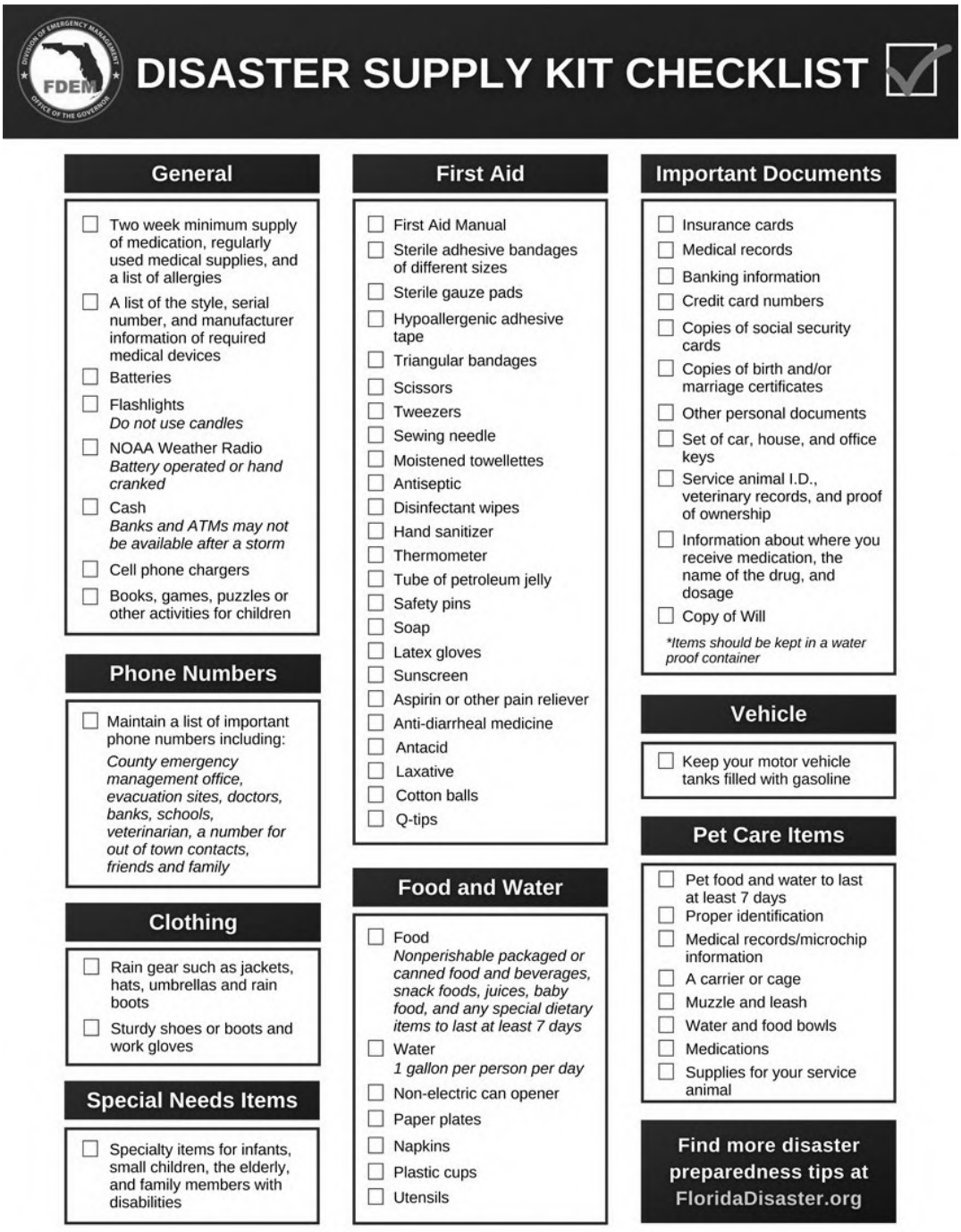
Hurricane Warning is issued:

9. After hurricane warnings are received Regional Operations Manager shall notify the DEP South District.
10. Lead operators should be available to report to work if called in.
11. Make arrangements to use a secure location to store computers and other office equipment.
12. Keep all water storage facilities as near to full capacity as possible upon receiving the hurricane warnings.
13. Keep all supplies in a safe place to prevent them from becoming airborne during the hurricane.
14. Know the electrical requirements of the system that must be powered during an emergency so that portable generator needs can be specified.

15. Stay alert for tornados at this point.

16. Establish communication with adjacent utilities in case of a mutual need is critical to the welfare of the community.

17. Regional Operations Manager continues communication with the operating personnel and regulatory agencies so they will know how and where to contact the utility staff in charge during emergency conditions.



Hurricane within 4-6 Hours

18. Shut down all computers and non-essential items at the offices and the plants.

19. All personnel shall be familiar with all evacuation notifications.

20. Prepare to evacuate if the current location is not the safest.

21. Notify residents to conserve water and to boil water until storm passes and all clear is given.

22. Keep constant communication with County Emergency Management.

During the Storm

All outside activities should be kept to a minimum. The main danger in high winds is not the wind, but the debris the wind carries. Work crews must have an operational radio or phone and should be working in pairs if it is absolutely necessary to work outside.

After Hurricane

1. All employees should call in and report to the supervisors and/or the Regional Operations Manager.

2. Take extra-safety precautions after returning to the facilities.

3. If power outages have occurred, the system has to be monitored and if necessary, water consumers will be notified by boil water notices.

4. Regional Operations Manager and the Facility Owner inspect the system for survey of all damages and make sure water is being properly treated.

5. If there is a problem with water, Regional Operations Manager notifies the FDEP South District and SFWMD immediately.

6. If necessary, the Regional Operations Manager immediately contact a tree Service Company and the power company to address any road blocks such as fallen trees and/or power lines.

7. The Regional Operations Manager assesses damage and directs repairs as needed in coordination with the Collection and Distribution System Manager.

8. Bacteriological samples should be taken after reparations to ensure water is safe for the consumer.

9. Once the plant is back to normal operation Regional Operations Manager notifies the regulatory agencies and water customers about the status of the system.

10. The Regional Operations Manager shall utilize the Storm Tracker system to report the facility status immediately following a significant weather-related event.

G. Other Disasters Response Procedures

Severe Contamination (any abnormal color, odor, or taste)

1. Lead Operator notifies the Regional Operations Manager.
2. Regional Operations Manager speaks directly to a person at DEP South District Office and the Facility Owner as soon as possible.
3. Regional Operations Manager speaks directly with the Department's inspector to notify him about the contamination.
4. FDEP South District determines what notification is required to distribute to consumers.
5. Regional Operations Manager distributes required notification to water consumers as soon as possible.
6. Regional Operations Manager takes corrective measures to the water system.
7. When corrective actions are completed, a predetermined number of representative water samples must be collected and tested to validate the microbiological safety of drinking water provided to the consumers.
8. After lab results prove satisfactory, Regional Manager sends a copy to the regulatory agency for approval, and lets the consumers know that the plant is back to normal operations.

Standby Power Requirements

Standby Power	The WTP has a 60 kW stand-by generator for backup power.

Drinking Water Treatment Chemicals & Disinfectants

Chemicals & Disinfectants

WTP
Diesel fuel
Sodium Hypochlorite – 2 x 55 gals

Basic System information

System Identification Number (PWS ID)	5360299
System Name and Mailing Address	Useppa Island Club WTP P.O Box 640 Bokeelia, FL 33922
GPS Coordinates	26º39'43.84"N 82º12'44.74"W
Basic Description	Water is sourced from 2 ground water wells. Reverse Osmosis plant has a blend rate of 6 gpm and finished water is stored in a 100,000 gal ground storage tank.
Population Served and Service Connections.	151 connections, population served: 200
System Owner	Useppa Island Club President – Donald Beckstead
Management Authority	Useppa Island Utilities Company dbeckstead@useppa.com 239-283-1061 x 2630
Name, Title, and Phone Numbers of Person Responsible for Maintaining and Implementing the ERP	Jonathan Schmidt US Water Route Operations Manager Cell: 239-209-7343 Email: jschmidt@uswatercorp.net

System Demand

WTP	
Current Demands	Max Day 92,000 gpd Average Day 35,654 gpd
Design Capacity	63,000 gpd

Well Information

WTP				
Well	**Well ID.**	**Location**	**Well Dia. (in)**	**Depth Drilled**
1	AAD5763	WTP	6"	320'
2	AAD5762	WTP	6"	320'

Location of Pertinent Information

Item	Location
Distribution System Map	Operation and Maintenance Manual kept at the water treatment plant
O&M Manual	Water treatment plant
Start-Up / Shut-Down Procedures	Operation and Maintenance Manual kept at the water treatment plant

High Service Pumps

	Pump	Motor HP	Capacity GPM	Type
WTP	1	10	140	Centrifugal
	2	10	140	Centrifugal

Finished Water Storage

Name of Storage Unit	Total Storage Capacity: 101,000 GPD One 100,000 gal ground storage tank and one 1,000 gal hydropnumatic tank at the WTP.
Location (Street)	
Location (GPS)	
Type (ground, elevated, etc.) & Capacity	

OPERATION AND MAINTENANCE MANUAL

Prepared For:

Useppa Island Club
Water System
8115 Main Street
Bokeelia, FL 33922

PWS ID No. 5360299

Prepared by:

U.S. Water®
Services Corporation

4939 Cross Bayou Boulevard
New Port Richey, Florida 34652

August 2023

INTRODUCTION

This manual is intended to serve as a ready reference to the plant operator on operation and maintenance procedures, as well as preventive maintenance and repair procedures for all plant equipment; to ensure the water supplied is safe for human consumption and that it meets the health based standards and other regulatory requirements.

The manual also contains procedures for notification of state and local regulatory officials on any abnormal operating conditions including breakdown of treatment or disinfection facilities, any security breach, sabotage or other emergencies.

Operation and maintenance procedures will vary with the conditions of the water treatment system. The operations and maintenance personnel will have to adapt the information and procedures in this manual to the particular situation.

Copies of Rules 62-550, 62-555 and 62-602, F.A.C. are also attached to the Manual for reference.

WTP MALFUNCTION / ABNORMAL EVENT REPORT

Please note for accordance with the **Florida Administrative Code (F.A.C.) Rules.** **This form is provided for your convenience only.** **You may complete this form and FAX it to the Wastewater Section at (239) 332-6969 or email to Keith.Kleinmann@dep.state.fl.us. If spill is greater than 1000 gallons you MUST call State Warning Point at 1-800-320-0519.** All items in red below are requirements by rule that must be completed.

FACILITY NAME:		COUNTY: *Lee*	
PERMIT NUMBER:		REPORTER PHONE:	
REPORTER NAME:		METHOD OF CONTACT:	
REPORTER ADDRESS:		RESPONSIBLE PARTY PHONE:	
RESPONSIBLE PARTY:		RESPONSIBLE PARTY ADDRESS:	

DEP: ☐	DATE:	TIME:	PERSON CONTACTED:	
STATE WARNING POINT: ☐	DATE:	TIME:	PERSON CONTACTED:	
OTHER: ☐	DATE:	TIME:	PERSON CONTACTED:	

SPILL INFORMATION

SPILL CHARACTERISTIC	SOURCE		AREA AFFECTED
☐ RAW WASTEWATER	☐ LIFT STATION # _____	☐ SURGE TANK	☐ STORM WATER
☐ EFFLUENT	☐ LINE BREAK	☐ AERATION TANK	☐ SURFACE WATER/ _____
☐ MIXED LIQUOR	☐ FILTER	☐ CLARIFIER	☐ GROUNDWATER
☐ SLUDGE	☐ DISPOSAL SYSTEM	☐ DIGESTER	☒ ON GROUND
☐ OTHER* ***reuse***	☐ OTHER* _____	☐ OTHER* _____	☐ OTHER/ _____

DATE / TIME DISCHARGE OCCURRED: _____

AMOUNT OF DISCHARGE (1) _____ TOTAL GALLONS **OR** (2) _____ ***gallons*** PER ***hour*** FOR _____ ***hours***.

ONGOING: ☐ CEASED: ☐

PHYSICAL LOCATION/ ADDRESS/ OTHER REFERENCE:

MALFUNCTION/CAUSE

		WEATHER
☐ POWER OUTAGE	☐ RAS LINE	☐ LIGHTNING
☐ PUMP FAILURE	☐ LEAK	☐ HEAVY RAINFALL
☐ DISINFECTION SYSTEM FAILURE	☐ SWITCH/TIMER FAILURE	☐ HIGH WINDS
☐ CLARIFIER FAILURE	☐ FILTRATION SYSTEM PROBLEM	☐ TROPICAL STORM: _____
☐ FILTER BYPASS	☐ CLOG OR BLOCKAGE	☐ HURRICANE: _____
☐ BLOWER FAILURE	☐ LINE BREAK	☐ OTHER: _____
☐ OTHER* _____	☐ OTHER* _____	

EXPLAIN:

EFFLUENT LIMIT VIOLATIONS

☐ Cl_2 _____ MG/L	☐ TURBIDITY _____ NTU	☐ PH _____ SU
☐ TSS _____ MG/L	☐ NO_3 _____ MG/L	☐ $CBOD_5$ _____ MG/L
☐ OTHER* _____	☐ FECAL COLIFORMS _____ CFU/100ML	☐ ABNORMAL FLOW _____ MGD

CORRECTIVE / REMEDIAL ACTION BEING TAKEN

☐ AUXILIARY POWER SYSTEM ON-LINE	☐ BACK-UP ON-LINE	☐ NOTIFIED LOCAL AUTHORITIES
☐ DISINFECT WITH _____	☐ SAMPLES TAKEN	☐ NOTIFIED STATE WARNING POINT
☐ BYPASS	☐ RESTORE POWER	☐ NOTIFIED DEP
☐ CONTAINED ON-SITE	☒ REPLACE EQUIPMENT/SUPPLIES	
☐ OTHER* _____	☐ VAC TRUCK/DESTINATION: _____	

REMEDIAL ACTION BEING TAKEN / ESTIMATED TIME FOR COMPLETION OF REPAIRS:

* PLEASE EXPLAIN IN DETAIL IN THE LINE PROVIDED.

EMERGENCY CONTACT LIST

Organization or Department	Name	Telephone	Cell Phone or Fax	E-mail
Lead Operator	Jonathan Schmidt	-	239-209-7343	jschmidt@uswatercorp.net
Regional Manager	Lina Quintero	727-858-2396	239-543-2226	lquintero@uswatercorp.net
Regional Maintenance Manager	Steve Stanton	239-209-6120	239-208-7209	sstanton@uswatercorp.net
State Watch Office	Duty Officer	1-800-320-0519	-	-
County Health Department	Lee County	239-332-9501	-	-
DEP District Office	South District	239-344-5600	850-412-0590	-
County Emergency Management Dept.	Operations Center	863-385-1112	-	-
Local Law Enforcement	Duty Officer	911	911	-
Fire Department	Duty Officer	911	911	-
Emergency Medical Services	Duty Officer	911	911	-
National Spill Response Center	Duty Officer	800-424-8802	800-424-8802	-
American Red Cross	Sebring	863-314-6743	-	-

Instructions:

a. The appropriate DEP District Office has to know as soon as possible about the occurrence of any abnormal color, odor, or taste in the system's raw or finished water.

b. The appropriate DEP District Office has to know as soon as possible about the failure of the system to comply with applicable disinfection requirements.

c. Suppliers of water shall telephone the SWP at 1-800-320-0519 immediately after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving the public water system.

d. Supplier shall notify the appropriate DEP or ACHD about the breakdown of any water treatment or pumping facilities, or the break of any water main in the system.

e. The State Department of Environmental Protection and Health and Rehabilitative Services shall be contacted to insure that steps taken in case of emergency are sufficient to protect the public, and corrective measures are appropriate for any contamination.

SAFETY RELATED EMERGENCIES: 911

HAZARDOUS WATER EMERGENCIES: 911

1.0 System Description

System Identification Number (PWS ID)	5360299
System Name and Mailing Address	Useppa Island Club WTP P.O Box 640 Bokeelia, FL 33922
GPS Coordinates	26º39'43.84"N 82º12'44.74"W
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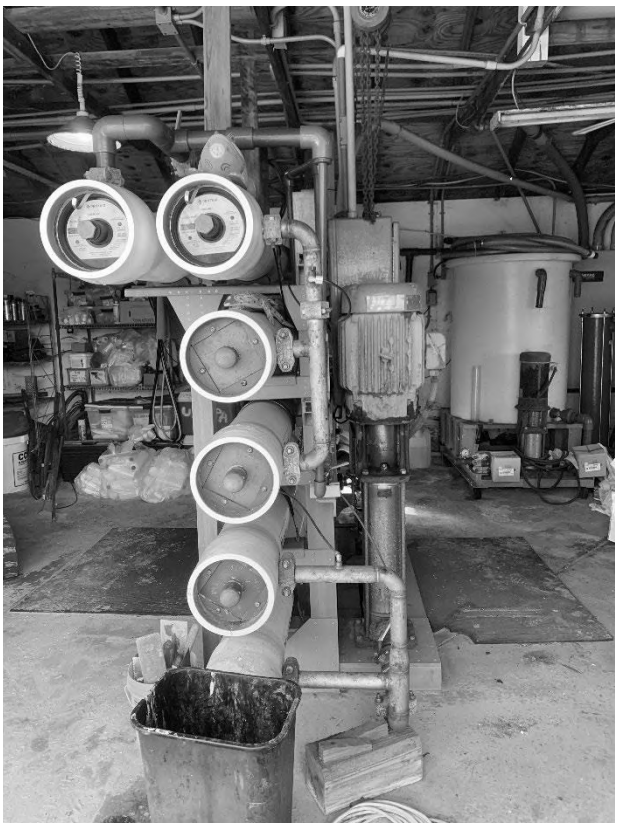
Population Served and Service Connections.	151 connections, population served: 200
System Owner	Useppa Island Club President – Donald Beckstead
Management Authority	Useppa Island Utilities Company dbeckstead@useppa.com 239-283-1061 x 2630
Name, Title, and Phone Numbers of Person Responsible for Maintaining and Implementing the ERP	Jonathan Schmidt US Water Route Operations Manager Cell: 239-209-7343 Email: jschmidt@uswatercorp.net



1.1 Chemicals

Hypo-chlorinated with two 55 gal tanks. The feed rate is 1.75 via a Stenner pump. Chlorine is injected into the degasifier.

1.2 Sampling and Monitoring

All analytical testing is performed by laboratories that have been certified in drinking water by the Florida Department of Health. All on-site tests are performed by an operator certified by the State of Florida.

1.3 Plant Operating Staff

5 visits per week required.

Lead operator shall be available to be contacted during all periods of plant operation to initiate the appropriate action in a timely manner.

Introduction

Maintenance is a continuous job. The water treatment plant maintenance program is an important part of plant operations. The purpose of maintenance is to protect structures and ensure that all equipment will function properly.

System Maintenance

DAILY MAINTEANACE CHECKLIST

- Read meter of each well at about same time and record daily pumpage.
- Inspect the compressor daily.
- Make proper entries to your daily log sheet.
- Collect samples for laboratory analysis, as required.
- Clean outside grounds-trim and cut grass and shrubs as necessary.
- Make sure chlorine is being delivered at proper rate.
- Make sure all other chemicals (if any) are being delivered at proper rate
- All piping should be kept as clean and free of debris as possible.

WEEKLY MAINTENANCE CHECKLIST

- All switches should be checked for dryness and corrosion.
- Clean all chemical injection points once a week.

MONTHLY MAINTENANCE CHECKLIST

- Check safety devices. Repair if necessary.
- Prepare monthly report of operations and laboratory analyses.
- Check all pipe connection between tanks. Fix all leaks.

ANNUAL MAINTENANCE CHECKLIST

- Valves should be exercised at least annually to ensure that they are working on the right way, and they can be repositioned in emergency situations.

- The tanks shall be checked once a year to ensure that hatches are closed and screens are in place.

- Tanks shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.

- Clean all pumps.

- Check all connections.

- Check power and control cables for pumps, nicks and evidence of damage. Replace as necessary.

A well planned and conscientiously implemented preventive maintenance program will apply effective control procedures to detect early symptoms of trouble and help ward off costly major breakdowns and attendant downtime. Such a program is practical, since it encourages economical operation. Above all, such a program results in dependable equipment operation, less downtime, longer equipment life, and lower overall costs. Preventive maintenance of motor controls consists of regularly scheduled inspections, required minor maintenance, and system records for future reference. The exact maintenance requirements and schedules for the pumping system cannot be predicted before installation. The following key factors and maintenance decisions must be weighed when establishing a maintenance program.

a. If a high degree of reliability is required of the equipment, inspections and maintenance procedures should be performed more frequently.

b. Older equipment may require more frequent inspections.

c. Adverse environmental conditions will significantly increase the need for inspection. If the environment is moist or humid, or if the area is subject to salt spray or coastal conditions, inspection should be much more frequent. If the enclosure or building has not heating system or ventilating system, condensation may be a problem requiring more frequent inspection. The use of unfiltered air for ventilation can pose a dust problem if the surrounding area is sandy or dusty.

d. Systems in which pumps and motors are operating continuously, or nearly continuously, should be inspected more frequently than those subject to light or intermittent duty.

e. Maintenance supervisors must weigh the costs of inspections against the cost of failure. Those systems which receive heavier use are more likely to be damaged as a result of failure and attendant flooding then those which receive light use.

f. The experience of maintenance personnel with other electrical equipment under similar conditions should also be considered.

Other items should be added to the checklist as you gain experience with the plant and its peculiarities.

Note: When performing any of the listed checklists, always refer to the included manufacturer's manual for detailed specific instructions.

STANDARD OPERATING PROCEDURES FOR OPERATION OF WATER TREATMENT FACILITIES

1. Plants must be visited during light.

2. Record in the logbook and daily field sheet the time in and out, sign your name and operator's license number.

3. Check all plant equipment to ensure proper operation. Report any equipment malfunctions to the lead operator.

4. Operate the facility within the guidelines of FDEP (Florida Department of Environmental Protection) and the company's operating protocol.

5. Operate emergency generator (if any) in accordance with FDEP auxiliary power requirements, check and record in logbook the weekly generator fuel level. Notify lead operator when fuel level is below ¼ full.

6. Check storage tanks levels periodically.

7. Perform general housekeeping duties such as picking up and disposing of trash and debris.

8. Fill chemical tanks as necessary to provide for uninterrupted chemical dosage.

9. Clean chemical injection points when necessary, but not less than once per week.

10. Lubricate plant equipment as necessary or as directed by the lead operator.

11. Perform compliance sampling in accordance with the company protocol, FDEP and WMD requirements, as well as any requirements from other appropriate regulatory agencies.

12. Notify the regional office (while on site) or regulatory agency of any abnormal events which occur at the facility and record in log book.

13. Verify that required records are maintained on site. For example: Lab Certification, Operator License, Water Use Permit, Operating Permit, Operating Protocol, Bacteriological Sampling Plan, MSDS Sheets, NSF Certifications, etc. Notify lead operator if any records are missing and obtain replacement documents as necessary to insure that all required records are maintained on site.

14. Calibrate chlorine and pH meters and record calibration on instruments in field sheet and in the facility logbook in accordance with FDEP requirements and the company operating protocol.

15. Conduct safety inspections on a regular basis; follow safety rules for plant operations.

16. Communicate effectively with other operators and supervisors on the status of the water system.

17. Record and calculate all ETM run times.

18. Record in the logbook any adjustment to chemical dosages, feed rate, pumping rates or any other operational adjustments.

19. Record the flows in the logbook and daily field sheet for the individual facility operation. For example: potable water, raw water, backwash water, reject flow, recycled flows.

20. Measure and record in the logbook and daily field sheet the following items: Free chlorine residual at the point of entry and the designated remote sampling point.

21. Measure and record in the logbook and daily field sheet the pH at the point of entry.

22. Record pressure reading in the logbook and daily log sheet. For example: Well pressure, reject pressure, concentrate pressure, effluent discharge pressure, etc.

23. Record in the logbook and daily field sheet the air to water ratio of the Hydropneumatic tank and the water levels of the other storage tanks.

PLANT OPERATOR'S DUTIES

- A certified operator is responsible for performing treatment plant operation and maintenance duties in a responsible and professional manner consistent with standard operating practices in order to meet state standards and rules, and to protect public health and the environment. (62-602.650)

- Have familiarity with all aspects of the treatment and distribution operation of the water system.

- Properly operate and maintain the facility and systems of the treatment and control (and related appurtenances) that are installed or used by the supplier of water to achieve and maintain compliance with the conditions of the permit.

- Operation of backup or auxiliary facilities or similar systems to achieve compliance with conditions of the Local Regulatory Agency.

- Be responsible for setting, measuring, and recording of all chemical additions.

- Order chemicals and fill chemical feed tanks as necessary.

- Clean, flush, disinfect and test the water distribution system and storage tanks as needed.

- Review the sample monitoring schedule and locations quarterly.

- Inspect systems within 24 hours of fecal or second Total Coliform positive results or other water system failures.

- Attend all inspections conducted by regulatory agency personnel.

- If for any reason the operator cannot comply with, or will be unable to comply with any conditions or limitations in the operation of the system, he shall immediately notify the owner, in writing of the following:

    a. A description of and cause of the non-compliance.

    b. Period of non-compliance, including exact dates and times or if not corrected, the anticipated time of non-compliance is expected to continue, and steps being taken to eliminate.

- Perform responsible, efficient and effective on-site management and supervision over plant personnel within the operator's responsibility.(62-602.650(1))

- Submit all required reports in the manner required by the Department in Rule or the supplier of water. (62-601.300)

- Report to the supplier of water and the Department of Environmental Protection or the local approved regulatory agency by wire or telephone any serious plant breakdown or condition causing or likely to cause serious, inefficient or unsafe treatment plant operation, or discharge of water or wastewater in a manner not authorized as soon as possible, but no later than within 24 hours following this occurrence or condition. (62-602.650(3))

- Submit accurate reports relative to treatment plant operation, sampling and laboratory analysis.

- Perform preventive maintenance and either repair or request that the responsible authority repair equipment as needed to keep the treatment plant operating as permitted.

- Maintain an operation and maintenance log for each plant, in a location accessible to 24 hour inspection and protected from weather and current to the last operation and maintenance performed. This log may be required to be submitted to the Department and the approved local program on a periodic basis. The log, at a minimum, shall include: identification of the plant, the signature and certification number of the operator; date and time in and out; specific operation and maintenance performed; tests performed and samples taken and major repairs made. (62-602.650(4))

- Records of monitoring information shall include:

  a. The date, exact place, and time of sampling or measurement;

  b. The person responsible for performing the sampling or measurement;

  c. The date(s) analyses were performed;

  d. The person responsible for performing the analyses;

  e. The analytical techniques or methods used; and

  f. The results of such analyses.

- An Operation and Maintenance Manual for this facility should be available at the plant for use by the operation and maintenance personnel. (62-655.350(13))

SAFETY

Introduction

The primary objectives of safety is protecting human health and ensuring good water supply to the consumer. The plant operator should acquaint himself with the hazards associated with plant operation and maintenance, and take the necessary steps to avoid them.

Plant Safety:

1. Security measures shall be installed and instituted as required by the reviewing authority. Such measures, as a minimum, shall include means to lock all exterior doorways, windows, gates and other entrances to source, fencing, signage and alarms.
2. Follow the Company's Lock Out / Tag Out Policy when working on electrical equipment.
3. Check electrical equipment for proper grounding and exposed wires.
4. Practice good housekeeping to help prevent falls.
5. Avoid tripping hazards, keep surrounding area mowed and keep exposed chambers to a minimum while servicing.
6. Fix or replace corroded grates and handrails.
7. Follow the Company's Confined Space Policy.
8. Learn how to properly lift materials and know your limit.
9. Extinguish all cigarettes or other smoking materials before lifting a manhole or wetwell cover.
10. Post "No Smoking" signs where a potential fire hazard exists.
11. Wear safety shoes when working around the plant.
12. Do not remove protective guards on rotating equipment.
13. Close all openings after repairs or replacements are complete.

Human Health:

1. Infection can be prevented by vigilance, personal cleanliness and prevention of any possible cross-connections between drinking water and wastewater or raw water pipes.

2. Do not smoke or eat before washing your hands.

3. Wear protective equipment and clothing when necessary.

Electrical Equipment:

1. Follow the Company's Lock Out / Tag Out Policy when working on electrical equipment.

2. Keep all electrical controls accessible and well marked.

3. Never use metal ladders around electrical equipment.

4. Work in pair around electrical equipment.

5. Handle breaker wires as though they are "live" wires.

6. All electrical cords should be in good condition.

7. Wear protective gloves.

8. When in doubt about operating procedure or repairs, ask for help.

Chlorine:

The plant operator must take certain precautions when handling chlorine. Chlorine is a light, yellow-green liquid with penetrating odor. It is an extremely active chemical element which is damaging to the eyes, mucous membrane, respiratory system, and skin.

1. Do not breathe fumes or mist.

2. Know the location of all safety showers and eye wash facilities.

2. Wash thoroughly after handling any chemical product, before eating or drinking

4. Do no get in eyes or skin, any contaminated clothing should be removed and the skin flushed with water.
5. Use protective gloves like rubber or plastic

6. Use chemical goggles and face shield.

7. Promptly clean up all chemical spills following safe handling procedures.

ODYSSEY
MANUFACTURING CO.

SAFETY DATA SHEET

REVISED 12/01/16

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
Product name: Ultra-CHLOR
Product code(s): 8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
Synonyms: Sodium Hypochlorite Solution, Bleach Solution, Bleach Liquor, Hypo-solution, Bleach, Liquid Bleach
REACH Registration Number: The materials in this product have been registered according to Regulation (EC) 1907/2006.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Uses: Cleaner, Disinfectant, Biocide and Sanitizer
Uses Advised Against: None

1.3 Details of the Supplier and of the Safety Data Sheet (SDS)
Odyssey Manufacturing Co.
1484 Massaro Boulevard
Tampa, Florida 33619
+1-813-635-0339 (24 hours)

1.4 Emergency telephone number:
1-800-ODYSSEY (Florida)
1-813-635-0339 (Outside Florida)
1-813-340-9093 (Control Room Cell Phone)

SECTION II - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture
Classification REGULATION (EC) No 1272/2008
Skin Corrosiveness: 1B; Skin Irritant: 2
Eye Irritant: 2
Aquatic Acute: 1
Description: Clear, greenish-yellow liquid; chlorine-like odor. Irritating to eyes, skin and respiratory system. Can cause burns to all areas contacted.

2.2 Label elements
Labeling Regulation (EC) No 1272/2008
Hazard pictograms

Signal word: **DANGER**
Hazard statements:

H314 – Causes severe skin burns and eye damage
H319 – Causes serious eye irritation
H400 – Very toxic to aquatic life
[Prevention] P260 – Do not breathe dusts or mists.
P264 – Wash hands or any exposed skin areas thoroughly after handling.
P273 – Avoid release to the environment.

P280 – Wear protective gloves/protective/clothing/eye protection/face protection.

[Response] P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 – Wash contaminated clothing before reuse.
P304 + 340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 – Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 – If eye irritation persists: Get medical advice/attention.
P391 – Collect spillage.

[Storage] P405 – Store locked up.

[Disposal] P501 – Dispose of container in accordance with local/regional/national/international regulations.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Risk phrases: R31 – Contact with acids liberates toxic gas.
R34 – Causes burns.
R36/38 – Irritating to eyes and skin.
R50 – Very toxic to aquatic organisms.

Safety phrases: S1/2 – Keep locked up and out of the reach of children.
S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 – After contact with skin, wash immediately with plenty of soap-suds.
S37/39 – Wear suitable gloves and eye/face protection.
S45 – In case of accident or if you feel unwell, seek medical advice immediately (Show the label whenever possible).
S50 – Do not mix with acids or other incompatible materials (refer to section 10).
S60 – This material and its container must be disposed of as hazardous waste.

Additional labeling: EUH031 – Contact with acids liberates toxic gas.

SECTION III - COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances
Chemical nature: Sodium hypochlorite, aqueous solution

% by Weight	Ingredient	CAS Number	EC Number	Index Number	EC Classification
10.0 – 20.0	Sodium Hypochlorite	7681-52-9	231-668-3	017-011-00-1	C, R34; R31: N, R50
0.1 – 0.4	Sodium Hydroxide	1310-73-2	215-185-5	011-002-00-6	Xi, 36/38
79.7 89.9	Water	7732-18-5	231-791-2		

3.2 Mixtures - Not applicable

SECTION IV - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product vapors or mists cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.

Eyes: Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting upper and lower lids. Remove contact lenses after the first 5 minutes and continue washing. Obtain immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash affected area with soap and water. Wash contaminated clothing and shoes thoroughly before reuse. Seek prompt medical attention if rash develops.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes severe eye irritation and burns. Symptoms include redness, pain, itching, burning sensation and tearing. Material is extremely destructive to eyes, mucous membranes and surrounding tissues.

Skin: Causes severe skin irritation and burns. Symptoms include redness, pain, itching and burning sensation. May be harmful if absorbed through the skin.

Inhalation: Vapors and mists may be harmful is inhaled, causing sore throat and cough. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: May cause severe gastrointestinal tract irritation with abdominal pain, burning sensation, cough, diarrhea, sore throat and vomiting. May cause burns and irritation to mucous membranes of the mouth and to tissues of the digestive tract.

Chronic: Repeated or prolonged contact with spray mist may produce chronic eye irritation, severe skin irritation and/or respiratory tract irritation leading to frequent attacks of bronchial infection.

SECTION V - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Material does not burn. Use fire extinguishing media appropriate for surrounding materials.

Unsuitable methods of extinction: None listed

5.2 Special hazards arising from the substance or mixture

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat. During emergency conditions overexposure to toxic decomposition products may cause a health hazard. Fire may cause the evolution of chlorine, hydrogen chloride gas and chlorine oxides. Symptoms may not be immediately apparent. Obtain immediate medical attention.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control run-off water to prevent environmental contamination.

SECTION VI - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors/mists. Avoid contact with skin and eyes. Wear appropriate protective clothing designated in Section 8. Ventilate the area. Evacuate personnel to safe areas.

6.2 Environmental precautions

Avoid dispersal of spilled material or run-off and prevent contact with soil and entry into drains, sewers or waterways. Contain and recover liquid when possible.

6.3 Methods and materials for containment and cleaning up

Cover drains. Cover with a large quantity of inert absorbent (e.g. sand, vermiculite, kitty litter, dry earth). Do not use combustible materials such as saw dust. Collect product using a shovel and place into approved container for proper disposal as hazardous waste. For large spills use water spray to divert vapor drift. Observe possible material restrictions (section 7.2 and 10.5). Clean contaminated area with water. Do not mix with other cleaning agents that may liberate chlorine gas vapors.

US Regulations (CERCLA) require reporting spills and releases to soil water and air in excel of reportable quantities. Reportable quantity (RQ) for hypochlorite solutions is 45.36 kg (100 lbs).

Reportable Quantity (RQ): 100 lbs or 45.36 kg (approximately 100 gal or 378.5 L of Odyssey Ultrachlor 12.5 Trade Percent sodium hypochlorite). In the event of a spill (e.g. defined as any release to the environment), call Odyssey Manufacturing and/or the emergency contact numbers as soon as possible for assistance.

For releases higher than the Reportable Quantity (RQ), you must notify the State Emergency Response Commission at *(800) 320-0519* ***AND the National Response Center at *(800) 424-8802 or (202) 267-2675* ***within 15 minutes***!!!***

In the event of a spill, contact either hazardous chemical response company or Odyssey Manufacturing for assistance.

6.4 Reference to other sections
For indications about waste treatment, see section 13.

SECTION VII - HANDLING AND STORAGE

7.1 Precautions for safe handling
Observe label precautions. Avoid contact with skin and eyes. Wear all appropriate protective equipment specified in Section 8. Wash thoroughly after handling. Keep containers closed when not in use. Use proper equipment for listing and transporting all containers.

Advice on protection against fire and explosion
Material is non-flammable and non-combustible.

7.2 Conditions for safe storage, including any incompatibilities
Keep in cool, dry, ventilated storage areas in closed containers. Protect against physical damage. Isolate from incompatible substances. Do not store near acids, heat, oxidizable materials or organics.

Store in a receptacle equipped with a vent. Transfer only to approved containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Do not take internally. Keep locked up and out of reach of children.

7.3 Specific end uses
Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

SECTION VIII - EXPOSURE CONTROLS AND PERSONNEL PROTECTION

8.1 Control parameters

Components	CAS Number	OSHA	ACGIH	AIHA (WEEL)
Sodium Hypochlorite	7681-52-9	2 mg/m^3 TWA; skin	0.5 ppm as CL_2 TWA; 1 ppm as CL_2 STEL, A4	2 mg/m^3 STEL
Sodium Hydroxide	1310-73-2	2 mg/m^3 TWA	2 mg/m^3 Ceiling	

8.2 Exposure controls
Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. See section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory and at the end of the workday.

Eye/face protection: Wear tightly fitting protective goggles and a face shield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in section 3. Gloves must be inspected prior to use. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Other protective equipment: Wear impervious, protective chemical resistant clothing including boots, gloves, lab coat, apron or coveralls as appropriate to the situation to prevent skin contact.

Respiratory Protection: Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls: Do not empty into drains.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, greenish yellow colored liquid
Odor	Pungent, chlorine-like
Odor Threshold	No data available
Molecular Weight	74.44 (sodium hypochlorite)
Chemical Formula	NaOCl (sodium hypochlorite)
pH	11 – 13
Freezing Point	-13.9° C (7° F)
Initial Boiling Point	100° C (212° F) – lowest known value
Evaporation Rate	<1 (BuAc = 1)
Flammability (solid, gas)	No data available
Flash Point	No data available
Autoignition Temperature	No data available
Decomposition Temperature	110° C (230° F)
Lower Explosive Limit (LEL)	No data available
Upper Explosive Limit (UEL)	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	1.15 – 1.17 g/ml (9.597 – 9.764 lb/gal) @ 60 ° F
Viscosity	No data available
Solubility in Water	Complete
Partition Coefficient: n-octanol/water	No data available
Volatiles by Volume @ 70° F	No data available; decomposes leaving salt solution

9.2 Other data - No data available

SECTION X - STABILITY AND REACTIVITY

10.1 Reactivity

Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition.

10.2 Chemical stability

Stable under recommended storage conditions. Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition. Sodium hypochlorite becomes less toxic with age.

10.3 Possibility of hazardous reactions

Avoid excessive heat and sources of ignition. Flammable hydrogen may be generated from contact with metals such as: aluminum, brass, tin, zinc and alloys of these metals. Avoid contact with acids, halogenated organics, organic nitro compounds and glycols. Hazardous gases may be generated from contact with acids, ammonium hydroxide (aqua ammonia) or cleaners containing ammonia compounds. Violent reactions may occur with some organic compounds. Sodium hypochlorite reacts readily with various reducing sugars (e.g. fructose, galactose, maltose, dry whey solids) to produce carbon monoxide. Precautions should be taken including atmospheric monitoring of the tank to ensure safety of personnel. Hazardous polymerization will not occur.

10.4 Conditions to avoid

Light, heat, air and contact with incompatible materials (see section 10.5).

10.5 Incompatible materials

Ammonia, amines, ammonium salts, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, organic materials, oxidizable metals/powdered metals, acids, soaps and bisulfates. Forms shock-sensitive mixtures with certain other materials.

10.6 Hazardous decomposition products

Thermal decomposition products include chlorine gas, hydrogen chloride gas, hydrochloric acid, sodium oxide. Decomposition rate increases with temperature.

SECTION XI - TOXILOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity (Sodium Hypochlorite)

TDLo - 1gm/ kg oral (woman)
TDLo - 45mg/kg intravenous (man)
LD_{50} - 5,800 mg/kg (mouse)
LD_{50} - 140 mg/kg - 9 week(s) continuous oral (rat)

Acute inhalation toxicity

May cause severe bronchial irritation, sore throat with possible blistering, coughing, stomatitis, nausea, labored breathing, shortness of breath and pulmonary edema. 10-20 mg/m3 causes burning of the nose and throat; 40-60 mg/m3 may be fatal. If sufficient amounts are absorbed, may cause effects as detailed in acute ingestion.

Acute dermal toxicity

Extent of damage depends on concentration, pH, and volume of solution and duration of contact. May cause redness, pain, blistering, itchy eczema and chemical burns. Sensitization reactions are possible in previously exposed persons.

Skin irritation

Skin irritation - 24 h (Rabbit)

Eye irritation

Rabbit, Adult – 10 mg, moderate irritation

May cause redness, pain, and blurred vision. Solutions of 5% splashed in human eyes have caused a burning sensation and later only slight superficial disturbance of the corneal epithelium which cleared completely in the next day or two without special treatment. However, one animal study reports a 5% solution causing only moderate irritation with clearing within 7 days. A higher concentration of 15% tested on rabbit eyes caused immediate severe pain, hemorrhages, rapid onset of ground-glass appearance of the corneal epithelium, moderate bluish edema of the whole cornea, chemosis and discharge for several days. Such eyes have sometimes healed in 2-3 weeks with slight or no residual corneal damage but they had neovascularization of the conjunctiva and distortion of the nictitating membrane by scarring.

Sensitization

May cause allergic skin reaction

Genotoxicity in vitro

No data available

Mutagenicity

Mutation in micro organisms – Salmonella typhimurium 1mg / plate (-S9)
DNA repair – Escherichiacoli 20 µg/ disc;
DNA damage – Esoherichiacoli 420 µmol/L;
Phage inhibition capacity – Esoherichiacoli 103 µg/ well
Micronucleus test - non-mammalian species multiple 200 ppb
Cytogenetic analysis - non-mammalian species multiple 120 µg/ L
Cytogenetic analysis – human lymphocyte 100 ppm 24hour(s)
Sister chromatid exchange – human embryo 149 mg/ L

Cytogenetic analysis – hamster lung 100 mg/ L

Aspiration hazard

No test data available. Risk of serious damage to lungs by aspiration.

Specific organ toxicity - single exposure

No data available

Specific organ toxicity - repeated exposure

May cause allergic skin reactions, dermatitis (allergic and contact) and asthma or bronchitis. Sensitization reactions are reported in individuals who are exposed in small amounts through their water supply. High doses have caused sperm abnormality in mice.

Additional information

RTECS: Not available

11.2 Further information

Ingestion: May cause irritation and erosion of the mucous membranes, vomiting (possibly bloody) and abdominal pain and spasms. A drop in blood pressure, shallow respiration, edema (possibly severe) of pharynx, larynx, and glottis, confusion, convulsions, delirium and coma may occur. Cyanosis and circulatory collapse are possible. Esophageal or gastric perforation and strictures are rare. Death may occur, usually due to complications of severe local injury such as toxemia, shock, perforations, hemorrhage, infection and obstruction. Massive ingestions may produce fatal hyperchloremic metabolic acidosis or aspiration pneumonitis.

Further data: Handle in accordance with good industrial hygiene and safety practice.

Chronic Effects

Persons with impaired respiratory function may be more susceptible to the effects of this substance.

Sodium Hypochlorite (hypochlorite salts) is listed by IARC as a Group 3 Carcinogen – Not classifiable as to its carcinogenicity to humans. Sodium Hydroxide is not listed by IARC. None of the components of this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA. No data is available regarding its mutagenicity and/or teratogenicity of this material, nor is there any available data that indicates it causes adverse developmental and/or fertility effects.

SECTION XII - ECOLOGICAL INFORMATION

12.1 Toxicity Aquatic Ecotoxicity:

This product is very toxic to aquatic organisms.

Aquatic Ecotoxicity:

Acute and prolonged toxicity to fish:	LC_{50} – Pimephales promelas (Fathead minnow) 96 h: 0.22 – 0.62 mg/L
	LC_{50} – Oncorhynchus clarki (Cutthroat trout) 96 h: 0.94 µg/L (mortality)
Acute toxicity to aquatic invertebrates:	EC_{50} – Daphnia magna (Water flea), 96 h: 2.1 mg/L
	LC_{50} – Protozoan phylum (Protozoa), 7 h: 31.6 µg/L
Acute toxicity to aquatic plants:	LC_{50} – Algae, phytoplankton, algai mat (Algae), 96 h: 90 µg/L (mortality)
	EC_{50} – Desmodesmus subspicatus (Green algae), 24 h: 28 mg/L
Acute phytotoxicity, aquatic plants:	Biomass reduction – Potamogeton crispus (Curled pond weed), 35h: 23 µg/L
Acute toxicity, miscellaneous aquatic:	Chlorophyll Threshold, Aquatic community, 28 d: 2.1 µg/L

12.2 Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulation potential

Partition coefficient, n-octanol in water: Data not available

Bioaccumulation is not expected

12.4 Mobility in soil

Product is mobile in water.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment is not available as chemical safety assessment was not conducted.

12.6 Other adverse effects

Additional ecological information

This material is a very toxic to aquatic life. Do not allow material to run into surface waters, wastewater or soil.

SECTION XIII - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The generation of waste should be avoided or minimized whenever possible. This material is subject to disposal regulations under U.S. EPA 40 CFR Parts 261 and 262. Container should be disposed of in a safe way as empty containers may contain product residue. Leave chemicals in original containers. No mixing with other waste. Handle unclean containers like the product itself. Incinerate in an approved facility. Do not incinerate closed container. Dispose of in accordance with the Directive 2008/98/EC as well as other national, federal, state/provincial and local laws and regulations.

No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION XIV - TRANSPORT INFORMATION

US DOT (Domestic Ground Transportation)

Proper Shipping Name:	Hypochlorite Solutions
Hazard Class:	8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
Packing Group:	III
NAERG:	Guide #157
Packaging Authorizations:	Non-Bulk: 49 CFR 173.203; Bulk: 49 CFR 173.241
Packaging Exceptions:	49 CFR 173.154

IMO/IMDG (Water Transportation)

Proper Shipping Name:	Hypochlorite Solutions
Hazard Class:	8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
UN/NA#:	UN1791
Packing Group:	III
Marine Pollutant:	NO
EMS Number:	F-A, S-B

ICAO/IATA (Air Transportation)

Proper Shipping Name:	Hypochlorite Solutions
Hazard Class:	8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
UN/NA#:	UN1791
Packing Group:	III
Quantity Limitations:	49 CFR 175.75 - Cargo Aircraft Only: 60L Passenger Aircraft: 5L

RID/ADR (Rail Transportation)

Proper Shipping Name:	Hypochlorite Solutions
Hazard Class:	8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
UN/NA#:	UN1791
Packing Group:	III

Marine Pollutant: Yes (Refer to Refer to 171.4 and 172.322 for further guidance)
Signal Word: DANGER
Hazard Symbols: GHS05, GHS09 (GHS); C, N (EEC)

SECTION XV - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material contains "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA PSM: Not regulated under OSHA Process Safety Management Standard (PSM) 29 CFR 1910.119

EPA RMP: Not regulated under EPA Risk Management Standard (RMP) 40 CFR Part 68

EPA FIFRA: This product is a registered Pesticide under the Federal insecticide, Fungicide and Rodenticide Act (FIFRA) 40 CFR Part 150

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This product not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: This product is subject to the reporting requirements of Section 311/312 of the Emergency Planning and Community Right-to Know Act of 1986.

Acute: Yes **Chronic:** No **Fire:** No **Reactive:** No

SARA 313 Information: None of the chemicals in this product exceed the threshold (de minimis) reporting levels established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substances:

Sodium Hypochlorite (CAS # 7681-52-9), RQ – 45.36 kg (100 lbs)

Sodium Hydroxide (CAS # 1310-73-2), RQ – 453.59 kg (1,000 lbs)

**Special Note: The Reportable Quantity (RQ) of Ultra-CHLOR Solution is approximately 100 gallons*

Clean Air Act (CAA)

This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

Sodium hypochlorite, sodium hydroxide and hypochlorite solutions are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains no chemical(s) known to the state of California to cause cancer or other reproductive harm.

Other U.S. State Inventories:

Sodium hypochlorite (CAS #7681-52-9) is found on the following State Hazardous Substance Inventories and/or Right-to-Know lists: CA, DE, MA, MN, NY, NJ, PA.

Sodium hydroxide (CAS #1310-73-2) is found on the following State Hazardous Substance Inventories and/or Right-to-Know lists: CA, DE, ID, MA, MN, NY, NJ, PA, WA, WI .

Canada

WHMIS Hazard Symbol and Classification:

Class E – Corrosive material – Corrosive to skin

Canadian Controlled Products Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian Ingredient Disclosure List (IDL): Sodium hypochlorite and sodium hydroxide are listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): None of the ingredients in this product are listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 2

Chemical Inventory Lists

Country	Inventory Name	Inventory Listing*
United States	Toxic Substance Control Act (TSCA)	Yes
Canada	Domestic Substance List (DSL).	Yes
Canada	Non-Domestic Substance List (NDSL)	Yes
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*"Yes" indicates that all components of this product are in compliance with the inventory requirements administered by the governing country.
*"No" indicates that one or more components of this product are not on the inventory and are not exempt from listing.

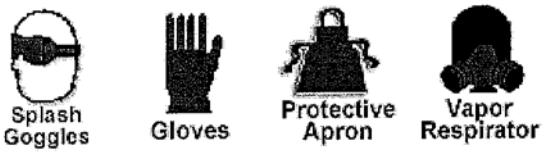
SECTION XVI - OTHER INFORMATION

Hazardous Material Information System (HMIS)

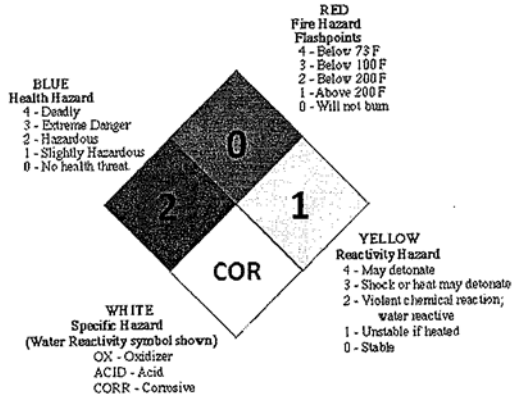
HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	H

HMIS / NFPA Hazard Rating Legend

* = Chronic Health Hazard	2 = MODERATE
0 = INSIGNIFICANT	3 = HIGH
1 = SLIGHT	4 = EXTREME



National Fire Protection Association (NFPA)



For additional information, contact our technical service department.

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Odyssey Manufacturing in connection with the use of this information.

MOTOR SERVICING

LUBRICATION

Excessive lubrication can damage electric motors. Lubricate the motors only in accordance with the guidelines contained in the motor instructions.

MOTOR REMOVAL AND INSTALLATION

Motor removal procedure varies with the type of enclosure provided.

WARNING

This equipment is under automatic control. It can start without warning unless precautions are taken to de-energize electrical circuits. The equipment contains more than one source of power. More than one disconnect is required to completely de energize the equipment for servicing.

a De-energize the electrical circuits to the motor by opening the related pump motor branch circuit and turning off other controls. Tag and padlock the control to prevent accidental startup by other maintenance personnel.

b. Remove the cover from the motor conduit box and disconnect the leads in the box. Disconnect the conduit which interconnects the control panel and the motor conduit box.

c Remove the belt guard and loosen the bolts that tension the drive belt to provide sufficient slack to permit belt removal.

d Use a rope sling around the motor and support the weight of the motor with a crane, hoist, or tow truck cable.

e. Remove the bolts and nuts which secure the motor to the mounting base. Hoist the motor from the mounting base.

f. Reinstallation of the motor is the reverse of removal. After making electrical connections, and before installing the belt(s), check direction of motor rotation to ensure that it coincides with the required direction of the pump. If necessary, disconnect power and interchange any two line leads if motor direction is incorrect. After installation make sure that the V-belts are properly aligned and tensioned.

MOTOR CONTROL PREVENTIVE MAINTENANCE GUIDE

WHAT TO INSPECT	WHAT TO INSPECT FOR
• Exterior and Surroundings	• Dust, grease, oil, high temperature, rust and corrosion, mechanical damage, condition of gaskets.
• Interior of Enclosure	• Same as above, plus inspect for loosened nuts, bolts and other mechanical connections.
• Contactors, Relays, and Solenoids	• Check control circuit voltage, inspect for excessive heating of parts evidenced by discoloration of metal, charred insulation or odor, check freedom of moving parts, remove dust, grease, and corrosion, tighten loose connections.
• Contact Tips	• Check for excessive pitting and roughness. Do not file silver contacts.
• Springs	• Check contact pressure. Pressure must be the same on all tips.
• Flexible Leads	• Look for frayed or broken strands. Be sure lead is flexible, not brittle.
• Arc Chutes	• Check for breaks or burning.
• Bearings	• Check for freedom of movement.
• Coils	• Look for signs of overheating, charred insulation, or mechanical injury.
• Magnets	• Clean faces. Check shading coil. Check for misalignment bonding.
• Fuses and Fuse Clips	• Check for proper rating. Check fuses clip pressure.

• Overload Relays	• Check for proper heater size. Tighten heater coil connection. Inspect for dirt and corrosion.
• Push-button and Selector	• Check contacts. Inspect for dirt, grease, and corrosion switches, and Pilot Devices.
• Dashpot-type Timer	• Check for freedom of movement.
• Resistors	• Check for signs of overheating. Tighten loose connection. Tighten sliders.
• Connections	• Tighten main line and control conductor connections. Look for discoloration of current carrying parts.
• Control Operation	• Check sequence of operation of control relays. Check contactors for flash when closing, and adjust to eliminate contact bounce if necessary. Check pressure switches, temperature switches, etc.

Warning

The electrical power supplied to this equipment is high enough to cause injury or death. Take care to prevent contact with electrical circuits when performing maintenance, troubleshooting, or repair. Disconnect power before connecting, or servicing electrical components. Check to ensure circuits are dead before making physical contact with current carrying parts.

Personal safety is a primary consideration when servicing motor controllers. Always observe all standard safety precautions. When adjusting or repairing a control, be sure the supply voltage has been removed from the motor starter. Tag operating handles, remove fuses or lock out circuit breakers personally. Never rely on others for these procedures where your safety is concerned. Always use proper safety equipment and tools, and have protective equipment (rubber gloves, mats, grounding sticks, etc.). Check periodically to ensure that proper insulation levels are maintained. Also make sure all control safety interlocks are functional, and that equipment ground connections are tight.

CONTROL CABINETS

Keep control enclosures free of dust or any grease on the face of the panel as well as inside. Dirt can cause faulty relay operation and can be a source of corrosion of metal parts. Connecting wires coming from conduits and cable should be neatly arranged at terminating points, and laced into a fanned cable for troubleshooting or replacement of circuits.

CLEANING

Keep motor controls clean. Dust, dirt, and grease must be removed periodically from the controller. Dust or grease can become lodged in auxiliary relay contacts or interlocks and may prevent a circuit from functioning. In addition, dust may contain conducting materials, which could form unwanted circuit paths resulting in current leakage or possible grounds or short circuits. Blow out dust with dry compressed air, and check the surrounding area for sources of dust, oil, or corrosive vapors.

MECHANICAL PARTS

Moving mechanical parts should operate easily without binding or excessive friction. Check operation of each contactor and relay by hand and, at the same time, look for loose pins, bolts, or bearing. Do not lubricate bearings. Bearings on electrical controls are designed to operate without lubrication. Oil or grease on the bearings will cause dirt to accumulate, resulting in sluggish action and possible failure.

Check terminal screws for tightness, since loose connections may develop at any time. Check main line connections and control connections on a regularly scheduled basis.

CONTACTORS

Contactors need the most attention. Be sure contact springs maintain the proper contact pressure. If contacts are allowed to wear too thin, spring pressure decreases and overheating of the contacts results. Check spring pressures. If pressure at one pole is considerably lower than that at the other poles, the spring is weakened and should be replaced.

Do not file silver contacts except in extreme cases when they become severely roughened. Silver oxide, which sometimes forms on the contact surfaces, does not have to be removed because it is a good conductor.

COILS

Operating coils for AC contactors function satisfactorily over a range of 85 to 110 percent of their rated voltage. Higher voltages will cause coils to operate at a higher temperature, which results in a shorter coil life. In addition, the contactor or relay will operate with unnecessary force causing more mechanical wear and bounce when closing.

An excessively low voltage supply to a coil causes contactors and relays to operate sluggishly. Because of the weakened magnetic force, contacts may not "make" firmly, which could result in overheating and welding together of contacts. Also, if the voltage is too low to allow complete closure of a contactor or if the contactor or relay is blocked open, the coil will draw an excessively high current resulting in coil burn-out.

OVERLOAD RELAYS

In general, maintenance requirements for overload relays include checking that heater elements are tight and that the relay will operate dependably when necessary. To ensure reliable operation, relays should be tested and calibrated every one to three years. Special equipment is required for testing and an outside service company should be called in to perform the relay tests.

FUSES

Important steps in fuse maintenance include a periodic check of fuse clips to make sure that ferrules are in good contact with clips. Also look for corrosion or overheating at fuse clips. Hot fuses or clips usually indicate either poor contact or an overloaded fuse that may be close to blowing. Keep a supply of fuses of proper ratings on hand for fast replacement of blown fuses.

CIRCUIT BREAKERS

Molded-case circuit breakers require little maintenance. They should be kept free of dust and grime to ensure proper mechanical operation. Inspect circuit breakers regularly, including dynamic tests. Check the tightness of all connections. Every three or four years, check operating trip settings with special load-testing instruments. These tests are often performed by electrical maintenance contractors or special service organizations. When these tests are performed, it is advisable to load-test overload relays.

MOTOR CONTROL TROUBLESHOOTING

GENERAL

Troubleshooting modern motor controls can be a tedious, time-consuming procedure, or it can be as simple as A-B-C. The difference lies in the approach. When trouble occurs in a motor controller, the electrician may hunt and peck trying to find the difficulty in a disorganized fashion. As a result, the motor starter, the pump motor, and all related systems suffer excessive downtime causing general dissatisfaction. On the other hand, a practical systematic approach is the key to consistent, effective troubleshooting.

Although successful troubleshooting of motor control circuits is possible without a full understanding of the circuitry, consistent rapid troubleshooting is dependent on a thorough understanding of its operation. Also, a general knowledge of motor controllers is essential. This includes a working knowledge of types available, their applications, characteristics, and considerations such as proper installations, National Electrical Code requirements, rating, types of enclosures, etc.

TROUBLESHOOTING THE ELECTRICAL SYSTEM

SYMPTOMS	POSSIBLE CAUSE	REMEDY
Motor Fails to Star	• Motor breaker and/or control breaker tripped	• Check and reset breaker
	• Overload tripped	• Check and reset overload relay in starter
	• Improper current supp	• Check to see that power supplied agrees with motor nameplates; if power does not agree, make necessary changes to have motor nameplate and incoming power agree
	• Open circuit in winding switch or repulsion induction brushes; check and connections	• Indicated by humming sound when starting switches closed; motors may spark at repair loose wiring starting switch inside; also, see if motor is closed
	• Mechanical failure	• Check to see if motor and drive turn freely; check bearings and lubrication
	• Short circuited starter	• Indicated by tripped breaker; motor must be rewound
	• Poor starter coil connections	• Remove end bells, locate with test lamp and repair
	• Rotor defective	• Look for broken bars or end rings
	• Motor may be overloaded	• Reduce load
	• If three phase, one phase may be open	• Check lines for open phase
	• Defective capacitor	• Check for short circuit, grounded, or open capacitor, and replace as necessary
	• Worn or sticking brushes on repulsion induction motors	• Check for wear and correct brush pressure; clean commutator if dirty
	• Starter heaters	• Check starter heaters and reset
	• Hand off switch	• Switch for automatic to manual; if manual OK, check control circuit breaker
	• Time clock	• Check time clock settings and control circuits
	• Loss of Supply Voltage	• Check voltage across all phases above circuit breakers
	• Pump motor branch circuit breaker open or tripped	• Check voltage below circuit breakers (all phases) with circuit breakers closed
	• Defective starter	• Select manual operation and check voltage across starter coil; if correct voltage is measured, control circuit is open (Also check with switch in auto)
	• Loose or poor connections	• Make visual inspection of all connections in control circuit or make spot circuit checks
	• Poor contact	• Open circuit breaker, close magnetic switch by hand and examine contactors and springs

SYMPTOMS	POSSIBLE CAUSE	REMEDY
(Continued) **Motor Fails to Start**	• Open line circuit in pump motor branch circuit	• Check voltage at T1-T2-T3; check magnet contact
	• Open circuit in pump motor branch circuit	• Check voltage at motor leads
	• Leads improperly connected	• Check lead numbers and connections
Motor Stalls	• Overloaded motor	• Reduce load
	• Low motor voltage	• Maintain nameplate voltage
Motor Runs and Then Dies Down	• Power failure	• Check for and repair loose connections to line, to breaker, and to control
Motor Does Not Come Up To Speed	• Starting load too high	• Check load motor is supposed to carry at start and reduce if necessary
	• Open primary circuit	• Locate fault with test equipment and repair
	• Low or incorrect voltage	• Check voltage at T1, T2, and T3 in control panel and at motor leads
	• Incorrect connection at motor	• Check for proper lead connections at motor, compare with connection diagram on motor
	• Mechanical overload	• Check impeller setting. Check for a locked or tight shaft
	• Hydraulic overload	• Check impeller setting. Check GPM against pump capacity and head
Motor Takes To Long To Accelerate	• Excess loading	• Reduce load
	• Poor circuit	• Check for high resistance and repair
	• Defective squirrel cage rotor	• Replace with new rotor
	• Applied voltage too low	• Have power company to increase power tap
Motor Has Wrong Rotation	• Wrong sequence of phases	• Reverse connections (two of the three) at the **Direction of** motor or at the starter
Heaters Burning	• Motor overloaded	• Check mufflers for obstruction; Check pumps or blowers for binding or rust accumulation
Motor Runs Hot	• Inadequate ventilation	• Ensure adequate supply of fresh air; Check air blast through motor by feeling air discharge at the bottom of motor
	• Overload	• Check load with ammeter
	• Unbalanced supply voltage	• Check supply voltage phases with voltmeter

SYMPTOMS POSSIBLE CAUSE REMEDY

SYMPTOMS	POSSIBLE CAUSE	REMEDY
Motor Vibrates	• Pulleys misaligned	• Check pulley alignment
•	Worn lineshaft bearings or	• Disconnect motor from pump and run motor
•	Hydraulic disturbance in	• Check isolation joint in discharge piping near
•	Cavitation at pump suction due to insufficient NPSHA	• Alter installation to (Net Positive Suction Head Available)
•	Impeller out of balance •	Check mechanical (static) balance
•	Pump and motor misalign-ment	• Realign pump and motor
•	Obstruction in pump impeller	• Remove obstruction
•	Worn pump bearings	• Replace bearings
•	Impeller imbalance due to wear or corrosion	• Replace impeller
•	Motor imbalance	• Replace motor
•	Baseplate loose on strength to support the load	• Tighten baseplate or replace or strengthen
Motor Noisy	• Worn thrust bearing	• Remove dust cover, rotate rotor by hand and make visual examination of balls and races. (Bearing noise is usually accompanied by a high frequency vibration)
•	Electrical noise	• Most motors are electrically noisy during the starting period; This noise should diminish as motor reaches full speed
•	Pump and motor misalign-ment	• Realign pump and motor
•	Pump cavitation	• Increase NPSHA
•	Baseplate loose or not grouted	• Remove baseplate
•	Worn pump bearings •	• Replace pump bearings
•	Motor bearings worn or fan rubs housing	• Replace motor bearings or adjust housing
•	Foreign matter in pump	• Remove foreign matter
•	Broken shaft	• Replace shaft
•	Liquid velocity in pump or valves due to greater liquid flow than anticipated	• Enlarge piping
•	Pump impeller imbalance due to wear	• Replace impeller
Contacts Chatter	• Broken pole shader	• Replace
•	Poor contact in control circuit	• Improve contact
•	Low voltage	• Correct voltage condition; Check momentary voltage dip during starting
Contacts Welding Freezing	• Abnormal inrush of current	• Check for grounds, shorts, or excessive motor **or** load current
•	Insufficient tip pressure	• Replace contact springs, check contact carrier for damage

(Continued)

Contacts Welding Freezing	• Low voltage preventing magnet from sealing	• Correct Voltage condition; Check momentary **or** voltage dip during starting
•	Short circuit	• Remove short fault and check to be sure fuse or breaker size is correct
Short Contact Life or Overheating of Tips	• Filing or dressing	• Do not file silver-faced contacts; Rough spots discoloration will not harm contacts
•	Interrupting excessively	• Check for grounds, shorts, or excessive motor
•	Weak contact pressure	• Adjust or replace contact spring
•	Dirt or foreign matter on contact surface	• Clean Contacts
•	Short circuits	• Remove short fault and check for proper fuse or breaker size
•	Loose connection	• Clean and tighten
•	Sustained overload	• Check for excessive load current
Short Contact Life or Overheating of Tips	• Filing or dressing	• Do not file silver-faced contacts. Rough spots or discoloration will not harm contacts
•	Interrupting excessively	• Check for grounds, shorts, or excessive motor
•	Weak contact pressure	• Adjust or replace contact spring
•	Dirt or foreign matter on contact surface	• Clean Contacts
•	Short circuits	• Remove short fault and check for proper fuse or breaker size
•	Loose connection	• Clean and tighten
•	Sustained overload	• Check for excessive load current
Overheated Coil	• Overvoltage or high	• Check voltage. Improve ventilation around
•	Shorted turns caused by mechanical damage or corrosion	• Replace coil
•	Undervoltage or failure of magnet to seal in	• Correct system voltage
•	Dirt or rust on pole faces, increasing air gap	• Clean pole faces
Overload Relays	• Sustained overload	• Check for grounds, shorts or excessive motor **Tripping**
•	Loose connection on load wires	• Clean and tighten
•	Incorrect heater	• Relay should be replaced with correct size heater unit

SYMPTOMS	POSSIBLE CAUSE	REMEDY
Overload Relays Fail To Trip Causing Motor Burn-Out	• Mechanical binding, dirt, corrosion, etc.	• Clean or replace
	• Wrong heater, or heaters omitted and jumper wires used	• Check ratings. Install proper heater unit
	• Motor and relay in different	• Adjust relay rating accordingly or make
Noisy Magnet (Humming)	• Broken shading coil	• Replace shading coil
	• Magnet faces not mating	• Replace magnet assembly or realign
	• Dirt or rust on magnet faces	• Clean or realign
	• Low voltage	• Check system voltage and voltage dips during starting
Failure To Pick-Up and Seal	• Gummy substance on pole faces	• Clean pole faces
	• Voltage not removed	• Check coil circuit
	• Worn or rusted parts causing binding	• Replace parts
	• Residual magnetism due to lack of air gap in magnet path	• Replace work magnet parts

TROUBLESHOOTING THE PUMPS

Symptoms	Possible Cause	Remedy
Both Pumps Fail To Start In Either Automatic or manual Mode	• Utility power failure • Control circuit breaker tripped or switch fuse blown • Both motor overload relays	• Notify power company • Correct cause of overload; Reset circuit breaker or replace fuse • Check line conditions and report to power Company if out of range, or check pump impeller for clogging; After correction, reset relays and restart operation
Both Pumps Fail To Start In Automatic Mode	• Loose connections in control circuit wiring • Defective relay	• Tighten connections • Replace relay
One Pump Operates But Other Fails To Run In Either Manual or Automatic Mode	• Loose connections • Motor overload relay tripped • Pump motor circuit breaker • Defective mode selector • Defective pump motor	• Tighten connections • Correct cause of overload and reset overload relay • Correct cause of fault and reset circuit breaker • Replace switch • Repair or replace motor
One Pump Operate Other Fails To Run In Automatic Mode	• Mode selector switch not in AUTO • One pump selected as lead • Loose Connections • Pump alternation device defective	• Change position of switch to AUTO • Turn pump sequence selector switch to select • Tighten connections • Replace alternation device
Pump Starts, Run Short a While, Then Stops Though Liquid Level In Wet Well Remains High	• Pump jammed with debris causing overload condition • Defective pump bearings or seals causing overload • Defective pump motor causing overload	• Free jammed pumps • Replace pump bearings and/or seals • Replace pump motor
Both Pumps Run Continuously Though Wet Well Is Empty	• Mode selector switches in HAND position • Floats tangled or hung up	• Place switches in AUTO position • Untangle floats
One Pump Runs Continuously Through Wet Well Is Empty	• One Mode selector switch Is In Hand Position • Floats Tangled or hung up	• Place switch in AUTO Position • Free float

Symptoms	Possible Cause	Remedy
Pump Motor Runs But Pump Fails To Deliver Rated Discharge	• V-belt loose or broken • Pump not primed • Pump or piping clogged • Suction leak	• Adjust or replace • Prime pump • Clean debris from pump and piping • Correct leak in suction piping
Pumps Fail To Alternate	• One mode selector switch is not properly positioned	• Position both switches to AUTO
	• Motor overload relay of one motor is tripped	• Correct cause of overload and reset relay
	• One pump motor circuit breaker open or tripped	• Close circuit breaker or correct cause of fault open and reset
	• Loose connection	• Tighten connections
	• One pump selected as lead pump each cycle	• Turn pump sequence selector switch to select automatic alternation
	• Pump alternation device defective	• Repair or replace alternation device
Pumps Start And Stop At Wrong Wet Well Levels	• Wet well levels are improperly adjusted	• Adjust float levels
Pump Takes Too Much Power	• Speed too high	• Compare pump and motor nameplates
	• Head is lower than rating; Too much liquid pumped	• Check system requirements
	• Liquid specific gravity or viscosity greater than expected	• Requires a larger motor
	• Pump and driver misalign-	• Check casing for pipe strain. Support piping
	• Wrong direction of rotation	
	• Electric defects	• Check power supply
	• Impeller oversized for system requirements	
	• Partial freezing or thickening of liquid when pumped	• Check liquid characteristics • Mechanical defect - bent pump shaft
	• Impeller binds in casing	• Check impeller adjustment
	• Stuffing box packing too tight	• See packing
Pump Does Not Run In Hand or Auto Position	• Bad breakers and/or fuses	• Reset or replace
	• Incoming power not meeting voltage and phase on panel nameplate	• Check incoming power
	• Overload relay tripped	• Reset
	• Bearing temperature switch	• Check heat sensor continuity and check high

Symptoms	Possible Cause	Remedy

(Continued)

Pump Does Not Run In Hand or Auto Position	• Phase/voltage monitor tripped	
•	Wiring of pump to control panel does not agree with schematic	• Rewire to model schematic
•	Wiring, contacts and terminal connections interrupted	• Check for continuity
•	Bad timers	• Check operation of all timers
Pump Runs in Auto But Not Hand	• H-O-A switch wiring not connected	• Check continuity
Pump Run in Hand But Not Auto	• H-O-A switch in improper position	• Put in proper position
•	Floats may be miswired to	• Check float type (N.O. or N.C.) and hook up by referring panel to the schematic. If the start and stop floats are hooked in reverse, pump will short cycle and will not pump the level down
•	No power to floats	• Check power to floats
Pump Runs But Light Does Not Energize	• Bad bulb	• Check bulb or loose wiring
Pump Runs But Does Not Pump Down Retention Area	• Pump rotation may be wrong	• Check wiring of pump to control panel. May be reverse sequence
	• Impeller may be dragging in volute due to solids. High amperage draw would identify this	
Severe Humming/ Chattering of Contactors & Control Relays	• May be low voltage	• Check voltage at primary and secondary of control condition may even cause severe chattering and burn out of relays
•	Contactor may have dust around magnet of coil structure	• Dry or clean as required
•	Not enough voltage to control panel voltage	• Contactors require a minimum of 85% full to pull in without chatter. If problem is chronic, measure voltage with a recorder on a 24 hour
•	Floats may be in turbulent area	• Make sure floats are away from areas of turbulence

(Continued) **Severe Humming/ Chattering of Contactors & Control Relays**	• Moisture in junction box may cause relays to energize intermittently	• Dry out junction box
Short Cycling Pump	• Water level in system may not be high enough to floats manually	• Check float controls (primary "All Pumps Off" and "repeat cycle timer"). Turn off power. Use V-O-M open, the float is stuck, bad or wiring connection are loose. If no V-O-M is available, use a jumper across each set of terminal connections (All Off, etc.), one at a time. Apply power, if pump(s) work, the problem is that the float being tested is stuck, bad, or wiring connections are loose.
Tripping of Overload on Motor Starters or Circuit Breakers	• Tripped breakers • Incorrect pump draw • Impeller may be locked up due to excessive debris or solids • Fault on windings. Possible motor failure • Pump may be miswired to terminal block • Voltage and current unbalance (Three phase only). Voltage unbalance on three phase power sources can cause motor current to become unbalanced and excessive heating will result. Tripping of the overload protectors and premature motor failure can be expected if the current unbalance exceeds five percent.	• Check all reset buttons and tripped breakers • Check pump draw with ammeter and compare to nameplate amps on pump • Clean as required

FORMULA

$$\text{Percent Current Unbalance} = \frac{\text{Maximum Current Difference From Average Current}}{\text{Average Current}} \times 100$$

To Determine if the motor's current unbalance is a function of the motor or the power supply:

1. **TURN OFF POWER.** Label the leads and the terminals 1,2, and 3 respectively.
2. **TURN ON POWER AND PUMP.** Record the amperage for each lead.
3. **TURN OFF POWER.** Move each lead to next terminal (1 to 2, 2 to 3, 3 to 1).
4. **TURN ON POWER AND PUMP.** Again read the amperage of each leg.
5. **TURN OFF POWER.** Move each lead to the next terminal (1 to 3, 3 to 1, 3 to 2).
6. **TURN ON POWER AND PUMP.** Again read the amperage of each lead.
7. If the unbalance moves with the motor leads, the unbalance is caused by the motor. If the unbalance remains with the terminals, the problem is in the power supply.
8. Connect leads for the lowest percent of current unbalance.

U.S. Water Services Corporation

Water and Wastewater Operations, Maintenance, Engineering, Management

PROJECT:

PWS ID No.:

PROJECT No.:

BY:

ENGINEER:

DATE:

TANK INSPECTION FORM

Facility:

Owner:

Owner Address:

Contact Name:

Phone: Fax:

Inspector:

Inspection

Manufacturer:
Type:
Construction Material:
Capacity:
Date of Construction:

4939 Cross Bayou Blvd. ≈ New Port Richey ≈ Florida 34652

Ph: 727-848-8292 ≈ Fax: 727-848-7701 ≈ Toll Free: 866-753-8292

Tank Coating	
1. Type of Coating	
A. Interior Thickness Coating Measurements (Attach Diagram)	1. 2. 3. 4. 5. 6.
B. Exterior Thickness Coating Measurements (Attach Diagram)	1. 2. 3. 4. 5. 6. 7. 8.
2. Percent rust coverage	
3. Location of rust	
4. Condition of Tank Entry (seals, rust , threads & coatings)	
5. Condition of paint on exterior	
6. Condition of paint on saddles	
7. Condition of paint at fittings	
Metal Tank	
1. Tank Walls Thickness	
A. Shell Right (See Attached Diagram)	1. 2. 3.
B. Shell Left (See Attached Diagram)	1. 2. 3.
C. Endcap 1 (See Attached Diagram)	1.
B. Endcap 2 (See Attached Diagram)	1.

2. Tank length (weld to weld)	
3. Tank diameter	
4. Indication of leakage	
5. Tank construction (riveted, blots, welds)	
6. Type of saddles	
7. Sediment buildup (describe)	
8.Indication of previous repairs (describe)	
Concrete Tank	
1.Tank Dimensions	
2.Tank Diameter	
3. Tank Construction (Form poured, precast, combo)	
4. Sediment buildup (describe)	
5. Spalding percentage (describe)	
6. Indication of leakage (locate and describe)	
7. Indication of previous repairs (describe)	
8. Exposed rebar (describe)	
Appurtenances	
1. Manway	
2. Pressure relief	
3. Air volume control	
4. Sight glass	
5. Sample tap	
6. Pressure gauge	
7. Drain	
8. Influent/Effluent flanges	
9. Ladders, hatches and access	
10. Restricted Access	
11. Aircraft lighting	
12. Screens ie. vents	
13. Other	

Comments/ Recommendations

U.S. Water Services Corporation

Water and Wastewater Operations, Maintenance, Design, Management

VALVE INSPECTION REPORT

DATE: _____ SUBDIVISION: _____ VALVE NO:_____

ADDRESS:

_____

INSPECTION RESULTS

VALVE SIZE: _____ MAKE: _____ SQUARE NUT: _____ HAND WHEEL: _____

OPENS: _____ NO. OF TURNS: _____ BRANCH VALVE: _____ MAIN VALVE: ____

MAIN SIZE: _____ OPERATION: _____ PACKING: _____

C.I. VALVE BOX: _____ CEMENT PAD: _____ DATA DISK: _____

PAINTED AND MARKED: _____ SERVICE COMPLETED: _____

COMMENTS: _____

SKETCH LOCATION OF VALVE WITH MEASUREMENTS BELOW

INSPECTED BY: _____ REVIEWED BY: _____

DATE: _____ TITLE: _____ DATE: _____ TITLE: _____

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Ph: 727-848-8292 ≈ Fax: 727-848-7701 ≈ Toll Free: 866-753-8292

STENNER PUMPS®

PERISTALTIC METERING PUMPS SINCE 1957

CLASSIC SERIES

PERISTALTIC METERING PUMPS

INSTALLATION AND MAINTENANCE MANUAL

⚠WARNING

TO BE INSTALLED AND MAINTAINED BY PROPERLY TRAINED PROFESSIONAL INSTALLER ONLY. READ MANUAL & LABELS FOR ALL SAFETY INFORMATION & INSTRUCTIONS.

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IMCL 021822

WARRANTY AND CUSTOMER SERVICE

LIMITED WARRANTY

Stenner Pump Company will for a period of one (1) year from the date of purchase (proof of purchase required) repair or replace, at our option, all defective parts. Stenner is not responsible for any removal or installation costs. Pump tube assemblies and rubber components are considered perishable and are not covered in this warranty. Pump tube will be replaced each time a pump is in for service, unless otherwise specified. The cost of the pump tube replacement will be the responsibility of the customer. Stenner will incur shipping costs for warranty products shipped from our factory in Jacksonville, Florida. Any tampering with major components, chemical damage, faulty wiring, weather conditions, water damage, power surges, or products not used with reasonable care and maintained in accordance with the instructions will void the warranty. Stenner limits its liability solely to the cost of the original product. We make no other warranty expressed or implied.

RETURNS

Stenner offers a 30-day return policy on factory direct purchases. Except as otherwise provided, no merchandise will be accepted for return after 30 days from purchase. To return merchandise at any time, call Stenner at 800.683.2378 for a Return Merchandise Authorization (RMA) number. A 15% re-stocking fee will be applied. Include a copy of your invoice or packing slip with your return.

DAMAGED OR LOST SHIPMENTS

All truck shipments: Check your order immediately upon arrival. All damage must be noted on the delivery receipt. Call Stenner Customer Service at 800.683.2378 for all shortages and damages within seven (7) days of receipt.

SERVICE & REPAIRS

Before returning a pump for warranty or repair, remove chemical from pump tube by running water through the tube, and then run the pump dry. Following expiration of the warranty period, Stenner Pump Company will clean and overhaul any Stenner metering pump for a minimum labor charge plus necessary replacement parts and shipping. All metering pumps received for overhaul will be restored to their original condition. The customer will be charged for missing parts unless specific instructions are given. To return merchandise for repair, call Stenner at 800.683.2378 or 904.641.1666 for a Return Merchandise Authorization (RMA) number.

DISCLAIMER

The information contained in this manual is not intended for specific application purposes. Stenner Pump Company reserves the right to make changes to prices, products, and specifications at any time without prior notice.

TRADEMARKS

QuickPro® is a registered trademark of the Stenner Pump Company.
Santoprene® is a registered trademark of Exxon Mobil Corporation.
Versilon® is a registered trademark of Saint-Gobain Performance Plastics.
Pellethane® is a registered trademark of Lubrizol Advanced Materials, Inc.
AquaShield™ is a trademark of Houghton International.

SAFETY INFORMATION

IMPORTANT SAFETY INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALL INSTRUCTIONS

⚠ WARNING **Warns about hazards that CAN cause death, serious personal injury, or property damage if ignored.**

⚠ WARNING **ELECTRIC SHOCK HAZARD**

⚠ WARNING **ELECTRIC SHOCK HAZARD**

Pump supplied with grounding power cord and attached plug. To reduce risk of electrical shock, connect only to a properly grounded, grounding type receptacle. Install only on a circuit protected by a Ground-Fault Circuit-Interrupter (GFCI).

⚠ AVERTISSEMENT **DANGER DE CHOC ÉLECTRIQUE**

La pompe est dotée d'un cordon d'alimentation avec mise à la terre muni d'une fiche. Pour réduire le risque de choc électrique, branchez uniquement sur une prise correctement mise à la terre. Installez uniquement sur un circuit protégé par un disjoncteur différentiel.

DO NOT alter the power cord or plug end.

DO NOT use receptacle adapters.

DO NOT use pump with a damaged or altered power cord or plug. Contact the factory or an authorized service facility for repair.

⚠ WARNING **HAZARDOUS VOLTAGE**

DISCONNECT power cord before removing motor cover for service. **Electrical service by trained personnel only.**

⚠ WARNING **EXPLOSION HAZARD**

This equipment **IS NOT** explosion proof. **DO NOT** install or operate in an explosive environment.

⚠ WARNING **RISK OF CHEMICAL EXPOSURE**

Potential for chemical burns, fire, explosion, personal injury, or property damage. To reduce risk of exposure, the use of proper personal protective equipment is mandatory.

⚠ WARNING **RISK OF FIRE HAZARD**

DO NOT install or operate on any flammable surface.

⚠ WARNING **RISK OF CHEMICAL OVERDOSE**

To reduce risk, follow proper installation methods and recommendations. Check your local codes for additional guidelines.

⚠ WARNING To reduce the risk of injury, do not permit children to use this product. This appliance is not to be used by persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction.

SAFETY INFORMATION continued

⚠ **⚠ CAUTION** **Warns about hazards that WILL or CAN cause minor personal injury or property damage if ignored.**

⚠ **⚠ CAUTION** **PLUMBING**

Chemical feed pump installation must always adhere to your local plumbing codes and requirements. Be sure installation does not constitute a cross connection. Check local plumbing codes for guidelines.

NOTICE: Indicates special instructions or general mandatory action.

- This metering pump is portable and designed to be removable from the plumbing system without damage to the connections.
- Before installing or servicing the pump, read the pump manual for all safety information and complete instructions. The pump is designed for installation and service by properly trained personnel.
- Installation of product must adhere to all regulatory and compliance codes applicable to the area.
- This metering pump and its components have been tested for use with the following chemicals: Sodium Hypochlorite (10-15%), Muriatic Acid (20-22 Baume, 31.5% HCl), and Soda Ash.
- Cette pompe de dosage et ses composants ont été testés pour leur compatibilité avec les produits chimiques suivants : hypochlorite de sodium (10 à 15 %), acide chlorhydrique (20 à 22 % Baume, 31,5 % HCl), et carbonate de sodium.
- This metering pump is certified by WQA for use with Water and Sodium Hypochlorite 15%, when using Santoprene® tube material.

⚠ **This is the safety alert symbol. When displayed in this manual or on the equipment, look for one of the following signal words alerting you to the potential for personal injury or property damage.**

- ⚠ **PUMP SUITABLE FOR USE OUTDOORS** when installed with a Stenner Rain Roof Part No. MP90000.
- ⚠ Electrical installation should adhere to all national and local codes. Consult a licensed professional for assistance with proper electrical installation.
- ⚠ Removing power from pool/spa recirculation pump must also remove power from pump.
- ⚠ The use of an auxiliary safety device (not supplied), such as a flow switch or sensor, is recommended to prevent feed pump operation in the event of a recirculation pump failure or if flow is not sensed.
- ⚠ Point of chemical injection should be beyond all pumps, filters, and heaters.
- ⚠ Suitable for indoor and outdoor use.
- ⚠ Adaptée à une utilisation aussi bien à l'intérieur qu'à l'extérieur.

SAVE THESE INSTRUCTIONS

FLOW RATE OUTPUTS CLASSIC 45

Single Head Adjustable – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting										
				L	1	2	3	4	5	6	7	8	9	10
45MHP2	45MJH1	100 / 6.9	1	0.2	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
45M1	45MJL1	25 / 1.7												
45MHP10	45MJH2	100 / 6.9	2	0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
45M2	45MJL2	25 / 1.7												
45MHP22	45MJH7	100 / 6.9	7	1.1	2.2	4.4	6.6	8.8	11.0	13.2	15.4	17.6	19.8	22.0
45M3	45MJL3	25 / 1.7	3											
45M4	45MJL4	25 / 1.7	4	1.7	3.5	7.0	10.5	14.0	17.5	21.0	24.5	28.0	31.5	35.0
45M5	45MJL5	25 / 1.7	5	2.5	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0

Approximate Outputs @ 60Hz

Single Head Adjustable – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting										
				L	1	2	3	4	5	6	7	8	9	10
45MHP2	45MJH1	100 / 6.9	1	0.6	0.9	1.8	2.7	3.6	4.5	5.5	6.4	7.3	8.2	9.1
45M1	45MJL1	25 / 1.7												
45MHP10	45MJH2	100 / 6.9	2	1.5	3.0	6.1	9.1	12.1	15.1	18.2	21.2	24.2	27.3	30.3
45M2	45MJL2	25 / 1.7												
45MHP22	45MJH7	100 / 6.9	7	3.3	6.6	13.3	20.0	26.6	33.3	40.0	46.6	53.3	60.0	66.6
45M3	45MJL3	25 / 1.7	3											
45M4	45MJL4	25 / 1.7	4	5.1	10.6	21.2	31.8	42.4	53.0	63.6	74.2	84.8	95.4	106.0
45M5	45MJL5	25 / 1.7	5	7.6	15.1	30.3	45.4	60.6	75.7	90.8	106.0	121.1	136.3	151.4

Approximate Outputs @ 50Hz

Single Head Fixed – Gallons & Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	GPD @ 60Hz	LPD @ 50Hz
45MPHP2	45MFH1	100 / 6.9	1	3.0	9.1
45MP1	45MFL1	25 / 1.7			
45MPHP10	45MFH2	100 / 6.9	2	10.0	30.3
45MP2	45MFL2	25 / 1.7			
45MPHP22	45MFH7	100 / 6.9	7	22.0	66.6
45MP3	45MFL3	25 / 1.7	3		
45MP4	45MLF4	25 / 1.7	4	35.0	106.0
45MP5	45MLF5	25 / 1.7	5	50.0	151.4

Approximate Outputs @ 60 & 50Hz

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

FLOW RATE OUTPUTS CLASSIC 85

Single Head Adjustable – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
85MHP5	85MJH1	100 / 6.9	1	0.3	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
85M1	85MJL1	25 / 1.7												
85MHP17	85MJH2	100 / 6.9	2	0.8	1.7	3.4	5.1	6.8	8.5	10.2	11.9	13.6	15.3	17.0
85M2	85MJL2	25 / 1.7												
85MHP40	85MJH7	100 / 6.9	7	2.0	4.0	8.0	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0
85M3	85MJL3	25 / 1.7	3											
85M4	85MJL4	25 / 1.7	4	3.0	6.0	12.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
85M5	85MJL5	25 / 1.7	5	4.3	8.5	17.0	25.5	34.0	42.5	51.0	59.5	68.0	76.5	85.0

Approximate Outputs @ 60Hz

Single Head Adjustable – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
85MHP5	85MJH1	100 / 6.9	1	0.9	1.5	3.0	4.5	6.1	7.6	9.1	10.6	12.1	13.6	15.1
85M1	85MJL1	25 / 1.7												
85MHP17	85MJH2	100 / 6.9	2	2.4	5.1	10.3	15.4	20.6	25.7	30.9	36.0	41.2	46.3	51.5
85M2	85MJL2	25 / 1.7												
85MHP40	85MJH7	100 / 6.9	7	6.1	12.1	24.2	36.3	48.5	60.6	76.7	84.8	96.9	109.0	121.1
85M3	85MJL3	25 / 1.7	3											
85M4	85MJL4	25 / 1.7	4	9.1	18.2	36.3	54.5	76.7	90.8	109.0	127.2	145.3	163.5	181.7
85M5	85MJL5	25 / 1.7	5	13.0	25.7	51.5	77.2	103.0	128.7	154.4	180.0	205.9	231.6	257.4

Approximate Outputs @ 50Hz

Single Head Fixed – Gallons & Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	GPD @ 60Hz	LPD @ 50Hz
85MPHP5	85MFH1	100 / 6.9	1	5.0	15.1
85MP1	85MFL1	25 / 1.7			
85MPHP17	85MFH2	100 / 6.9	2	17.0	51.5
85MP2	85MFL2	25 / 1.7			
85MPHP40	85MFH7	100 / 6.9	7	40.0	121.1
85MP3	85MFL3	25 / 1.7	3		
85MP4	85MFL4	25 / 1.7	4	60.0	181.7
85MP5	85MFL5	25 / 1.7	5	85.0	257.4

Approximate Outputs @ 60 & 50Hz

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

FLOW RATE OUTPUTS CLASSIC 100

Double Head Adjustable – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
100DMHP5	100JH1	100 / 6.9	1	0.3	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
100DM1	100JL1	25 / 1.7												
100DMHP20	100JH2	100 / 6.9	2	1.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0
100DM2	100JL2	25 / 1.7												
100DM3	100JL3	25 / 1.7	3	2.2	4.4	8.8	13.2	17.6	22.0	26.4	30.8	35.2	39.6	44.0
100DM4	100JL4	25 / 1.7	4	3.5	7.0	14.0	21.0	28.0	35.0	42.0	49.0	56.0	63.0	70.0
100DM5	100JL5	25 / 1.7	5	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0

Approximate Outputs @ 60Hz

Double Head Adjustable – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
100DMHP5	100JH1	100 / 6.9	1	0.9	1.8	3.6	5.5	7.3	9.1	10.9	12.7	14.5	16.4	18.2
100DM1	100JL1	25 / 1.7												
100DMHP20	100JH2	100 / 6.9	2	3.0	6.1	12.1	18.2	24.2	30.3	36.4	42.4	48.5	54.5	60.6
100DM2	100JL2	25 / 1.7												
100DM3	100JL3	25 / 1.7	3	6.7	13.3	26.7	40.0	53.3	66.6	79.9	93.3	106.6	119.9	133.2
100DM4	100JL4	25 / 1.7	4	10.6	21.2	42.4	63.6	84.8	106.0	127.2	148.4	169.6	190.8	212.0
100DM5	100JL5	25 / 1.7	5	15.1	30.3	60.6	90.8	121.1	151.4	181.7	212.0	242.2	272.5	302.8

Approximate Outputs @ 50Hz

Double Head Fixed – Gallons & Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	GPD @ 60Hz	LPD @ 50Hz
100DMPHP5	100FH1	100 / 6.9	1	6.0	18.2
100DMP1	100FL1	25 / 1.7			
100DMPHP20	100FH2	100 / 6.9	2	20.0	60.6
100DMP2	100FL2	25 / 1.7			
100DMP3	100FL3	25 / 1.7	3	44.0	133.2
100DMP4	100FL4	25 / 1.7	4	70.0	212.0
100DMP5	100FL5	25 / 1.7	5	100.0	302.8

Approximate Outputs @ 60 & 50Hz

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

FLOW RATE OUTPUTS CLASSIC 170

Double Head Adjustable – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
170DMHP9	170JH1	100 / 6.9	1	0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
170DM1	170JL1	25 / 1.7												
170DMHP34	170JH2	100 / 6.9	2	1.7	3.4	6.0	9.5	13.6	17.0	20.4	23.8	27.2	30.6	34.0
170DM2	170JL2	25 / 1.7												
170DM3	170JL3	25 / 1.7	3	4.0	8.0	16.0	24.0	32.0	40.0	48.0	56.0	64.0	72.0	80.0
170DM4	170JL4	25 / 1.7	4	6.0	12.0	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0
170DM5	170JL5	25 / 1.7	5	8.5	17.0	34.0	51.0	68.0	85.0	102.0	119.0	136.0	153.0	170.0

Approximate Outputs @ 60Hz

Double Head Adjustable – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
170DMHP9	170JH1	100 / 6.9	1	1.5	3.0	6.1	9.1	12.1	15.1	18.2	21.2	24.2	27.3	30.3
170DM1	170JL1	25 / 1.7												
170DMHP34	170JH2	100 / 6.9	2	5.1	10.3	18.2	28.8	39.1	51.5	61.8	72.1	82.4	92.7	102.6
170DM2	170JL2	25 / 1.7												
170DM3	170JL3	25 / 1.7	3	12.1	24.2	48.5	72.7	96.9	121.1	145.4	169.6	193.8	218.0	242.2
170DM4	170JL4	25 / 1.7	4	18.2	36.3	72.7	109.0	145.3	181.7	218.0	254.4	290.7	327.0	363.4
170DM5	170JL5	25 / 1.7	5	25.7	51.5	86.0	154.4	205.9	257.4	308.9	360.4	411.8	463.3	514.8

Approximate Outputs @ 50Hz

Double Head Fixed – Gallons & Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	GPD @ 60Hz	LPD @ 50Hz
170DMPHP9	170FH1	100 / 6.9	1	10.0	30.3
170DMP1	170FL1	25 / 1.7			
170DMPHP34	170FH2	100 / 6.9	2	34.0	102.6
170DMP2	170FL2	25 / 1.7			
170DMP3	170FL3	25 / 1.7	3	80.0	242.2
170DMP4	170FL4	25 / 1.7	4	120.0	363.4
170DMP5	170FL5	25 / 1.7	5	170.0	514.8

Approximate Outputs @ 60 & 50Hz

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

FLOW RATE OUTPUTS CLASSIC 100 *DUAL CONTROL*

DETERMINE FLOW RATE OUTPUTS FOR EACH PUMP HEAD

Use the innermost pump head flow rate outputs to determine the output for each pump head. Both feed rate controls (FRC) on setting 10 = maximum flow rate capacity of the pump.

Innermost Pump Head
L=5%, 1-10 = approx. 10% of maximum innermost output

Outermost Pump Head
Outermost Output = (Outermost FRC Setting %) x (Innermost Output)

Example
100MDC5 with Innermost FRC setting on 4
1. Innermost FRC setting 4 = 20 GPD
2. If outermost FRC is set on 3, then outermost output is 30% of innermost output; 0.3 x 20 GPD = 6 GPD
3. Outermost = 6 GPD, Innermost = 20 GPD, Total Pump Output = 26 GPD

Innermost Pump Head – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
100MDCHP5	100DH1	100 / 6.9	1	0.2	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
100MDC1	100DL1	25 / 1.7												
100MDCHP20	100DH2	100 / 6.9	2	0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
100MDC2	100DL2	25 / 1.7												
100MDC3	100DL3	25 / 1.7	3	1.1	2.2	4.4	6.6	8.8	11.0	13.2	15.4	17.6	19.8	22.0
100MDC4	100DL4	25 / 1.7	4	1.7	3.5	7.0	10.5	14.0	17.5	21.0	24.5	28.0	31.5	35.0
100MDC5	100DL5	25 / 1.7	5	2.5	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0

Approximate Outputs @ 60Hz

Innermost Pump Head – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
100MDCHP5	100DH1	100 / 6.9	1	0.6	0.9	1.8	2.7	3.6	4.5	5.5	6.4	7.3	8.2	9.1
100MDC1	100DL1	25 / 1.7												
100MDCHP20	100DH2	100 / 6.9	2	1.5	3.0	6.1	9.1	12.1	15.1	18.2	21.2	24.2	27.3	30.3
100MDC2	100DL2	25 / 1.7												
100MDC3	100DL3	25 / 1.7	3	3.3	6.6	13.3	20.0	26.6	33.3	40.0	46.6	53.3	60.0	66.6
100MDC4	100DL4	25 / 1.7	4	5.1	10.6	21.2	31.8	42.4	53.0	63.6	74.2	84.8	95.4	106.0
100MDC5	100DL5	25 / 1.7	5	7.6	15.1	30.3	45.4	60.6	75.7	90.8	106.0	121.1	136.3	151.4

Approximate Outputs @ 50Hz

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

FLOW RATE OUTPUTS CLASSIC 170 *DUAL CONTROL*

Innermost Pump Head – Gallons per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	1
170MDCHP9	170DH1	100 / 6.9	1	0.3	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
170MDC1	170DL1	25 / 1.7												
170MDCHP34	170DH2	100 / 6.9	2	0.8	1.7	3.4	5.1	6.8	8.5	10.2	11.9	13.6	15.3	17.0
170MDC2	170DL2	25 / 1.7												
170MDC3	170DL3	25 / 1.7	3	2.0	4.0	8.0	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0
170MDC4	170DL4	25 / 1.7	4	3.0	6.0	12.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
170MDC5	170DL5	25 / 1.7	5	4.3	8.5	17.0	25.5	34.0	42.5	51.0	59.5	68.0	76.5	85.0
				Approximate Outputs @ 60Hz										

Innermost Pump Head – Liters per Day

Model	Item Number Prefix	Maximum psi / bar	Pump Tube	Feed Rate Control Setting L	1	2	3	4	5	6	7	8	9	10
170MDCHP9	170DH1	100 / 6.9	1	0.9	1.5	3.0	4.5	6.1	7.6	9.1	10.6	12.1	13.6	15.1
170MDC1	170DL1	25 / 1.7												
170MDCHP34	170DH2	100 / 6.9	2	2.4	5.1	10.3	15.4	20.6	25.7	30.9	36.0	41.2	46.3	51.5
170MDC2	170DL2	25 / 1.7												
170MDC3	170DL3	25 / 1.7	3	6.1	12.1	24.2	36.3	48.5	60.6	76.7	84.8	96.9	109.0	121.1
170MDC4	170DL4	25 / 1.7	4	9.1	18.2	36.3	54.5	76.7	90.8	109.0	127.2	145.3	163.5	181.7
170MDC5	170DL5	25 / 1.7	5	13.0	25.7	51.5	77.2	103.0	128.7	154.4	180.0	205.9	231.6	257.4
				Approximate Outputs @ 50Hz										

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

MATERIALS OF CONSTRUCTION

All Housings
Polycarbonate

Pump Tube
Santoprene® (FDA approved) or Versilon®

Check Valve Duckbill
Santoprene® (FDA approved) or Pellethane®

Suction/Discharge Tubing & Ferrules
Polyethylene (FDA approved)

Suction Line Strainer and Cap
PVC or Polypropylene (both NSF listed); ceramic weight

All Fasteners
Stainless Steel

Tube and Injection Fittings
PVC or Polypropylene (both NSF listed)

Connecting Nuts and 3/8" Adapter
PVC or Polypropylene (both NSF listed)

Pump Head Latches
Polypropylene *

ACCESSORIES

3 Connecting Nuts 1/4" or 3/8"

3 Ferrules 1/4" or 6 mm *Europe*

1 Injection Fitting 25 psi (1.7 bar) max. or 1 Duckbill Check Valve 100 psi (6.9 bar) max.

1 Weighted Suction Line Strainer 1/4", 3/8" or 6 mm *Europe*

1 20' Roll of Suction/Discharge Tubing
1/4" or 3/8" White or UV Black or 6 mm White *Europe*

1 Additional Pump Tube

2 Additional Latches

1 Mounting Bracket

1 Manual

* Double head pumps include an additional set of the accessories listed above.

INSTALLATION

ADDITIONAL SAFETY INSTRUCTIONS

NOTICE: Indicates special instructions or general mandatory action.

- Read all safety hazards before installing or servicing the pump. The pump is designed for installation and service by properly trained personnel.
- Use all required personal protective equipment when working on or near a chemical metering pump.
- Install the pump so that it is in compliance with all national and local plumbing and electrical codes.
- Use the proper product to treat potable water systems, use only chemicals listed or approved for use.
- Install the pump to work in conjunction with pool, spa, well pump, or system controls.
- Inspect tube frequently for leakage, deterioration, or wear. Schedule a regular pump tube maintenance change to prevent chemical damage to pump and/or spillage.
- Mount pump vertically and use spill recovery to run chemical back to tank in the event of tube failure. Not recommended for acid applications.
- To reduce risk, follow proper installation methods and recommendations. Check your local codes for additional guidelines.
- Pump is not recommended for installation in areas where leakage can cause personal injury or property damage.

INSTALLATION continued

MOUNT PUMP

Select a dry location (to avoid water intrusion and pump damage) above the solution tank. Best recommended location is above the solution tank in a vertical position with the pump head pointed downward and the spill recovery *(see page 18)* in place to reduce the risk and severity of damage. Spill recovery not recommended for acid applications.

To prevent pump damage in the event of a pump tube leak, never mount the pump vertically with the pump head up.

To avoid chemical damage from fumes, DO NOT mount pump directly over an open solution tank. Keep tank covered.

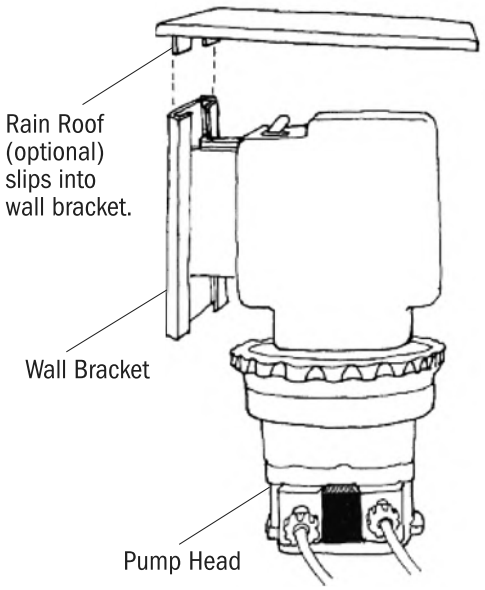
Avoid flooded suction or pump mounted lower than the solution container. Draw solution from the top of the tank. Pump can run dry without damage. If pump is installed with a flooded suction, a shut-off valve or other device must be provided to stop flow to pump during service.

1. Use the mounting bracket as a template to drill pilot holes in mounting location.
2. Secure bracket with fasteners or wall anchors. Slide pump into bracket.

Provide 8" clearance to allow pump orientation to be reversed during tube replacement. DO NOT allow water intrusion into the motor or corrosion and damage will occur.

To prevent motor damage, verify with a volt meter that the receptacle voltage corresponds with the pump voltage.

3. Plug cord into receptacle and turn the motor power switch on. If the pump is adjustable, turn the dial ring to 10.



4. Activate the pump by the pump control (flow switch, pressure switch, etc.) and verify rotation of the roller assembly within the clear pump head. Turn pump switch off.

ADDITIONAL INSTRUCTIONS FOR CE PUMPS WHEN APPLICABLE

ADDITIONAL INSTALLATION INSTRUCTIONS

1. All Class II Pumps located in Zone 1 of swimming pool areas require locating where flooding cannot occur.
2. This pump is intended to be installed as “fixed” as opposed to portable.
3. The Rain Roof must be installed and “vertical orientation” mounting of entire unit observed.
4. After installation, the power supply plug must be accessible during use.
5. This unit must be scrapped if the supply cord is damaged.
6. Observe and comply with all National Wiring Standards.

ZUSTAZLICHE INSTALLIERUNGSANWEISUNGUN

1. Pumpen die sich in Zone 1 vom Schwimmbecken befinden sollen sind so einzurichten daß Ueberschwemmungen nicht vorkommen werden.
2. Diese Pumpe ist als fest montierte Ausrustung bedacht und soll nicht umstellbar gebraucht werden.
3. Der Regendach muss installiert werden. Eine vertikale Asrichtung der Montage muß erzielt werden.
4. Die Stromversorgung muss nach der Installierung noch zuganglich sein.
5. Bei beschadigter Verkabelung ist dieses Gerat nicht mehr zu gebrauchen.
6. Staatliche Vernetzungsvorchriften mussen eingehalten werden.

INSTRUCTIONS SUPPLÉMENTAIRES D’INSTALLTION

1. Toutes les pompes installées dans la Zone 1 du périmètre de la piscine doivent être situées de manière à ne pas pouvoir être inondées.
2. Cette pompe est prévue pour installation fixe et non pas portative.
3. L’abri anti-pluie doit être installé et l’orientation verticale doit toujours être observée.
4. Après l’installation, la prise électrique doit rester accessible pendant l’utilisation.
5. Cette unité doit être mise au rebut si le cordon électrique est endommagé.
6. Observez et adhérez à toutes les Normes Nationales pour Installations Electriques.

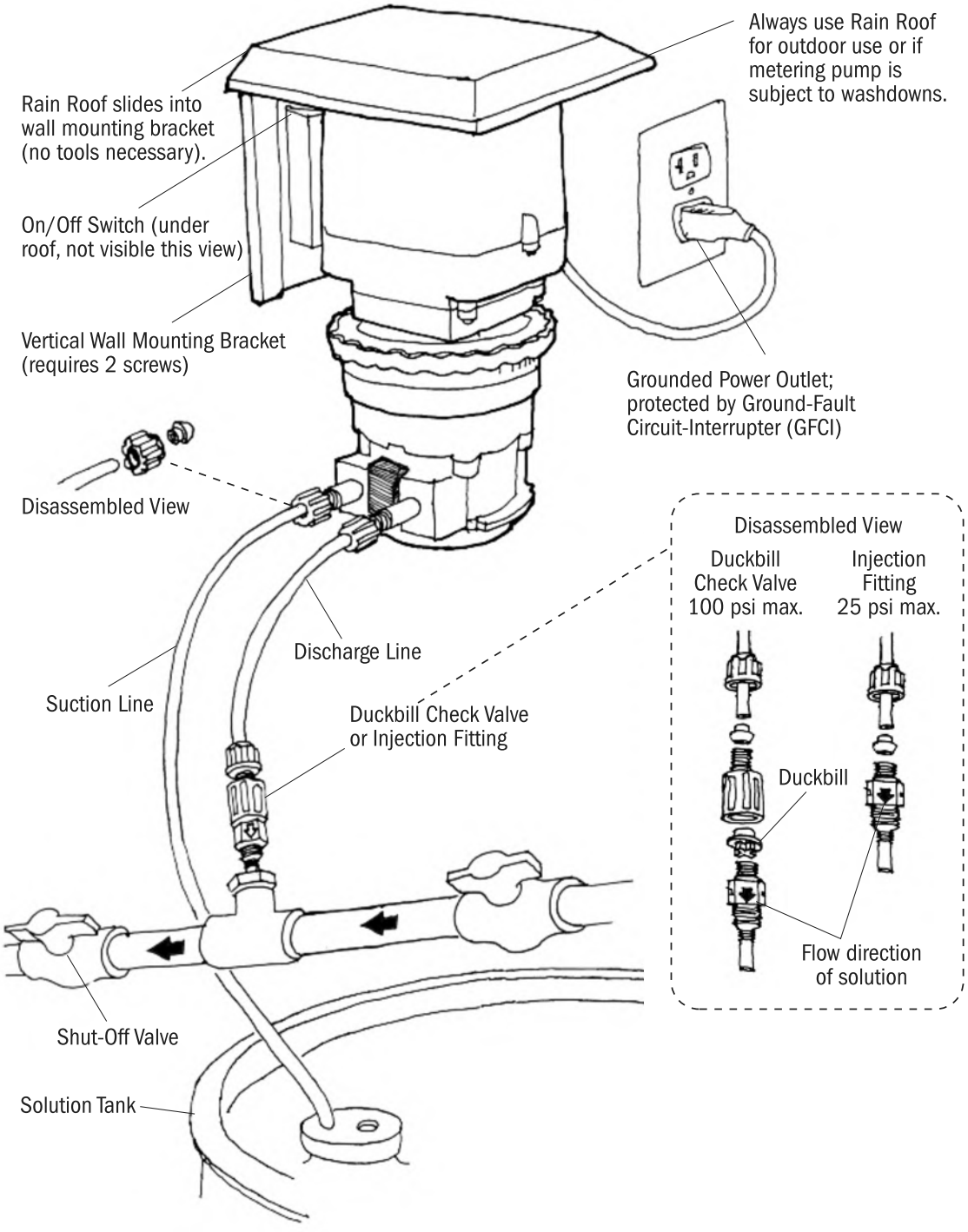
INSTRUCCIONES ADICIONALES PARA INSTALACION

1. Todas las bombas Clase II situadas en la Zona 1 de las áreas de la piscina requieren colocarse donde no puedan ser inundadas.
2. Esta bomba es para ser instalada “fija” en vez de portátil.
3. Es necesario instalar el techo de lluvia, y montar la unidad entera siguiendo una orientación vertical.
4. Depués de la instalación el enchufe suministrador de energía debe estar accesible durante el uso.
5. Se deberá deshechar la unidad si el cordón de abastecimiento se deteriora.
6. Observe y cumpla con todas las Reglas Nacionales para Instalaciones Eléctricas.

ISTRUZIONI SUPPLEMENTARI PER L’ INSTALLAZIONE

1. Tutte le pompe Classe II localizzate nella Zona 1 della superficie circostante la piscina devono essere collocate dove gli allagamenti no possono accadere.
2. Questa pompa, é inteso, deve essere installata come ‘fissa’ e non come portatile.
3. La tettoia deve essere installata e il montaggio ‘orientazione verticale’ dell’intera unitá deve essere osservato.
4. Dopo l’installazione, la spina deve essere accessibile durante l’uso.
5. Questa unitá deve essere gettata via se il filo elettrico é danneggiato.
6. Osservare e aderire a tutte le Norme Nazionali Sugli Impianti Elettrici.

INSTALLATION DIAGRAM

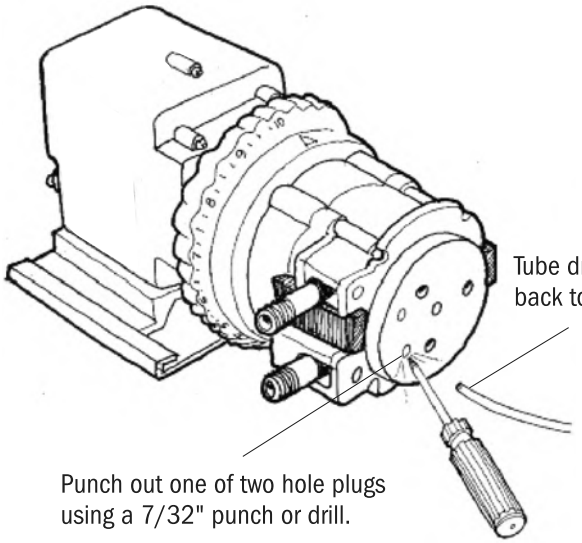


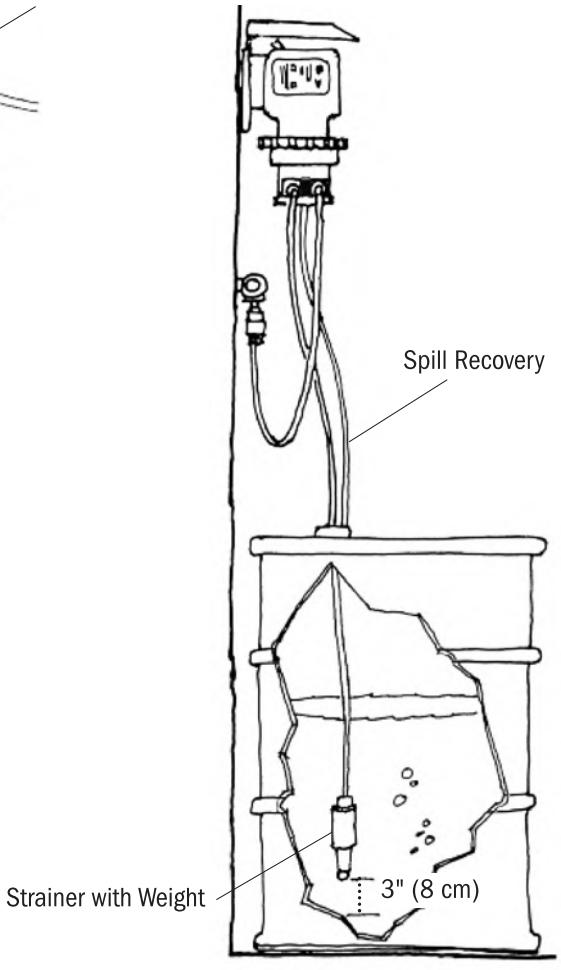
SPILL RECOVERY

Mount the pump vertically and use the spill recovery to drain chemical back to the tank in the event of tube failure. This will help prevent chemical from collecting in the tube housing and reduces spillage on the floor. To reduce risk, follow proper installation methods and recommendations. Check your local codes for additional guidelines.

The pump motor is ventilated and water intrusion can cause motor damage. A rain roof is recommended for outdoor and wet environments.

SPILL RECOVERY IS NOT RECOMMENDED FOR ACID APPLICATIONS.





INSTALL SUCTION LINE TO PUMP HEAD

1. Uncoil the suction/discharge tubing. Use outside of solution tank as a guide to cut proper length of suction line ensuring it will be 2-3" above the bottom of solution tank.

Allow sufficient slack to avoid kinks and stress cracks. Always make a clean square cut to assure that the suction line is burr free. Normal maintenance requires trimming.

Suction lines that extend to the bottom of the tank can result in debris pickup leading to clogged injectors and possible tube failure.

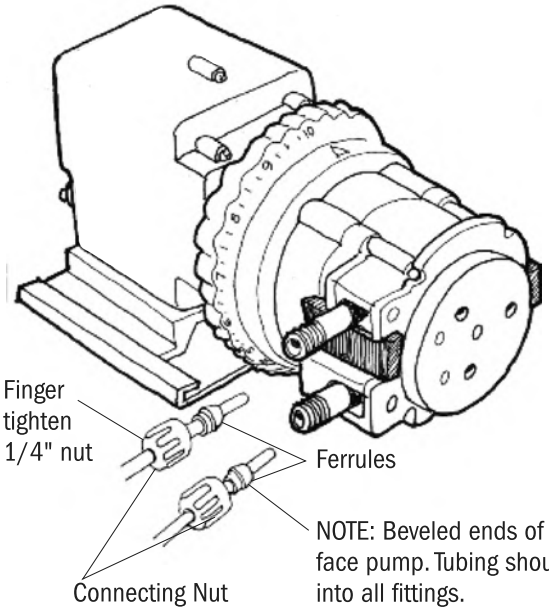
2. Make connections
   - **1/4"** Slide the line(s) through the 1/4" connecting nut and ferrule.
   - **3/8"** Finger tighten the 3/8" adapter onto the tube fitting then slide the line(s) through the 3/8" connecting nut.

3. Tighten connections
   - **1/4"** While firmly holding the tube fitting, finger tighten nut to the threaded tube fitting.
   - **3/8"** While firmly holding the 3/8" adapter, finger tighten nut to the adapter. Then wrench tighten one additional half turn. If leak occurs, gradually tighten the 3/8" connecting nut as required.

Over tightening the ferrule and nut may result in damaged fittings, crushed ferrules, and air pick up.

DO NOT use thread seal tape on pump tube connections.

More on next page



DO NOT use thread seal tape on pump tube threads.

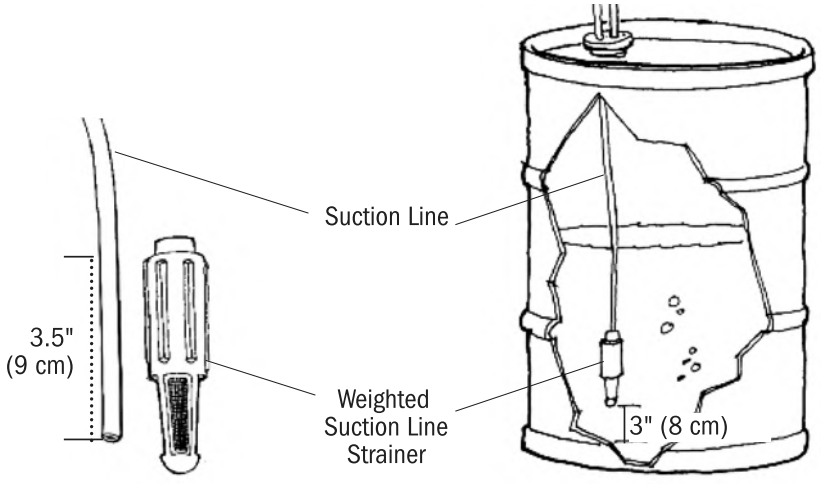
INSTALL SUCTION WEIGHT TO SUCTION LINE

1. Drill a hole into the bung cap or solution tank lid. Slide the tubing through and secure the weighted strainer to the line.
2. To attach the strainer, push approximately 3.5" of suction line through the cap on the strainer body. Pull tubing to make sure it is secure.
3. Suspend approximately 3" above tank bottom to reduce the chance of sediment pickup.

DO NOT mix chemicals in the solution container. Follow recommended mixing procedures according to the manufacturer.

DO NOT operate pump unless chemical is completely in solution. Turn pump off when replenishing solution.

DO NOT slide tubing all the way to the bottom of the weighted strainer. Tubing could become flush with the nose of the strainer and the pump may not prime due to blockage.



INSTALL DISCHARGE LINE TO PUMP HEAD AND INJECTION POINT

1. Make a secure finger tight connection on the discharge fitting of the pump head as instructed in Install Suction Line instructions.

DO NOT use thread seal tape on pump tube connections.

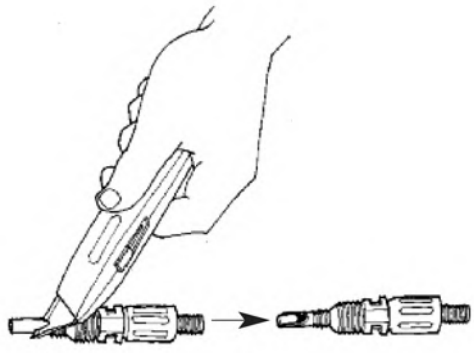
⚠ WARNING HAZARDOUS PRESSURE: Shut off water or circulation system and bleed off any system pressure.

Locate a point of injection beyond all pumps and filters or as determined by the application.

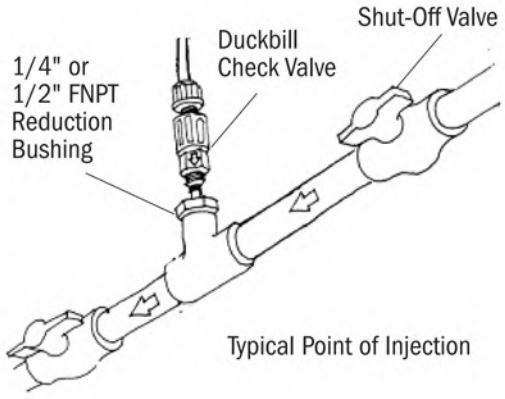
2. A 1/4" or 1/2" Female NPT (FNPT) connection is required for installing the injection fitting. If there is no FNPT fitting available, provide one by either tapping the pipe or installing FNPT pipe tee fitting.

3. Wrap the Male NPT (MNPT) end of injection fitting with 2 or 3 turns of thread seal tape. If necessary, trim the injection fitting quill as required to inject product directly into flow of water.

More on next page



Trim Injection Fitting



4. Hand tighten the injection fitting into the FNPT fitting.

Injection Fitting

a. Install connecting nut and ferrule to the pump discharge line. Insert discharge line into injection fitting until it reaches base of fitting.

b. Finger tighten connecting nut to fitting. For 3/8" connections wrench tighten one additional 1/2 turn. If leak occurs, gradually tighten the 3/8" connecting nut as required.

Duckbill Check Valve

a. Prior to connection, test check valve and NPT threads for leaks by pressurizing system. If necessary, tighten an additional 1/4 turn.

b. Install connecting nut and ferrule to the pump discharge line. Insert discharge line into check valve body until it reaches base of body.

c. Finger tighten connecting nut to fitting. For 3/8" connections wrench tighten one additional 1/2 turn. If leak occurs, gradually tighten the 3/8" connecting nut as required.

5. Turn pump on and re-pressurize system. Observe chemical flow as actuated by system and check all connections for leaks.

6. After suitable amount of dosing time, perform tests for desired chemical readings (e.g., pH or ppm). If necessary, fine tune dosing levels by rotating dial ring (adjustable pumps only) or by adjusting solution strength.

The injection point and fitting require periodic maintenance to clean any deposits or buildup. To allow quick access to the point of injection, Stenner recommends the installation of shut-off valves.

TROUBLESHOOTING MOTOR

⚠ WARNING HAZARDOUS VOLTAGE

DISCONNECT power cord before removing motor cover for service. **Electrical service should be performed by trained personnel only.**

PROBLEM	POSSIBLE CAUSE	SOLUTION
Loud or excessive noise	Worn ball bearings	Replace rotor assembly
	Damaged bearing brackets or tolerance rings	Replace bearing brackets and tolerance rings
	Insufficient gear lubrication	Apply AquaShield™ to gears and gear posts
	Worn gears or gear posts	Inspect and/or replace gears and gear posts
Motor does not work; fan does not turn	Faulty electrical supply	Check electrical supply
	Bearing brackets broken	Replace bearing brackets
	Damaged motor coil	Replace motor coil
	Worn or damaged rotor bearings	Replace rotor assembly
	Damaged power cord	Inspect and/or replace power cord
	Rotor bound or rusted to coil	Buff off coil and rotor or replace
	Faulty wire connections	Inspect and/or repair electrical connections
	Obstructed fan	Remove obstruction
Motor runs; fan turns, output shaft does not	Worn or damaged gears	Replace gears as needed
Motor overheats and shuts off and on	Incorrect voltage	Check voltage and frequency matches pump label
	High ambient temperature	Pumps are rated to 125˚F (51 °C) maximum
	Damaged/malfunctioning coil	Replace motor coil
Phenolic gear is stripping	Water intrusion	Use rain roof, replace phenolic gear & all affected components
	Cracked bearing bracket	Replace bearing bracket & phenolic gear
	Worn gear posts	Replace gear posts & affected gears
	Rusted helical gear at end of rotor	Buff off rotor or replace rotor, replace phenolic gear
	Worn or cracked gear case cover	Replace gear case or gear case cover
	Missing phenolic gear spacer	Replace phenolic gear and install spacer on top of gear
	Insufficient lubrication	Apply AquaShield™ to gears and gear posts

TROUBLESHOOTING FEED RATE CONTROL

PROBLEM	POSSIBLE CAUSE	SOLUTION
Dial ring will not turn	Seized or broken variable cam	Apply Aquashield™ to variable cam & cam slot in feed rate control housing
	Seized dial ring	Clean then lubricate dial ring & cam slot with AquaShield™
Dial ring turns, output doesn't change	Variable cam disengaged from dial ring	Re-insert 90˚ end into ring
	Broken variable cam	Replace variable cam
Pump head does not rotate	Worn index plate	Turn over or replace index plate
	Motor problem	Refer to motor troubleshooting
	Pump head roller assembly stripped	Replace roller assembly
	Index pin holder loose	Tighten holder into spider assembly
	Index pin broken	Replace index pin and lifter assembly
Pump head rotates continuously	Variable cam out of place or worn	Replace or re-insert variable cam
Ratcheting sound	Index plate worn	Turn over or replace index plate
	Variable cam worn	Replace variable cam
	Lifter worn	Replace lifter or complete index pin assembly

TROUBLESHOOTING PUMP HEAD

PROBLEM	POSSIBLE CAUSE	SOLUTION
Roller Assembly will not expand or collapse with tube housing cover	Motor not locked	Fixed Rate Pumps: Place tube housing latch into motor slot; Adjustable Rate Pumps: Set feed rate control to 10
	Stripped or cracked roller assembly hub	Replace roller assembly
Components cracking	Chemical attack	Check chemical compatibility
	Chemical intrusion from tube failure	Identify and correct cause, clean components of chemical & replace tube according to manual
Pump head leaking	Pump tube rupture	Identify and correct cause, clean components of chemical & replace tube according to manual
No pump output, pump head rotates	Roller assembly not fully expanded	Expand roller assembly using pump head cover as a tool, according to manual
	Depleted or weighted strainer is above solution tank	Replenish solution and position suction line 3" above bottom of tank
	Leak in the suction line or at connections	Inspect or replace suction line and/or connections
	Ferrules installed incorrectly, missing or damaged	Replace ferrules, beveled end faces pump
	Sleeve and/or plastic gripper inside 3/8" connecting nut is missing damaged, or incorrectly assembled	Replace if damaged or missing. Reorient if incorrectly assembled; gripper beveled end faces nut; sleeve wide end faces gripper
	Injection point is clogged	Inspect and clean injection point
	Clogged suction and/or discharge line and/or check valve	Clean and/or replace as needed
	Life of pump tube exhausted	Replace tube according to manual, schedule tube replacement based on application
	Suction line is flush with the nose of the weighted strainer	Pull suction line approximately 1" from bottom of strainer, cut bottom of suction at an angle
Low pump output, pump head rotates	Life of pump tube exhausted	Replace tube according to manual, schedule tube replacement based on application
	Rollers worn or broken	Replace roller assembly
	Injection point is restricted	Inspect and clean injection point regularly
	Incorrect tube size or setting	Refer to pump output chart and determine dial ring setting or replace tube & ferrules
	High system back pressure	Verify system pressure against tube psi, replace tube and ferrules
No pump output, pump head doesn't rotate	Stripped or cracked roller assembly hub	Replace roller assembly
	Feed rate control problem	Refer to feed rate control troubleshooting
	Motor problem	Refer to motor troubleshooting
Pump output high	Incorrect tube size or setting	Refer to pump output chart and determine dial ring setting or replace tube and ferrules
	Roller assembly broken	Replace roller assembly
	Malfunctioning feed rate control	Refer to feed rate control troubleshooting
	Incorrect motor rpm	Replace with motor that matches pump model

TROUBLESHOOTING PUMP TUBE

NOTICE: A leaking pump tube damages the metering pump. Inspect pump frequently for leakage and wear. Refer to Tube Replacement section for additional safety precautions and instructions.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Tube leaking	Pump tube ruptured	Identify and correct cause, clean components of chemical & replace tube according to manual
	Calcium or mineral deposits	Clean injection fitting; replace tube and duckbill according to manual
	Excessive back pressure	Verify system pressure against tube psi, replace tube and ferrules
	Tube is twisted	Replace tube and ferrules according to manual, hold tube fitting while tightening connecting nut to prevent twisting
	Tube not centered	Clean components of chemical, replace tube and ferrules according to manual & confirm tube is centered
Tube life is shortened	Chemical attack	Check chemical compatibility
	Mineral deposits at injection point	Clean injection fitting. Replace tube, ferrules & duckbill according to manual
	Sediment blockage at check valve	Clean injection fitting, ensure suction line is 3" above tank bottom. Use suction line strainer.
	Degraded check valve duckbill	Replace duckbill. At every tube change, replace duckbill & ferrules.
	Duckbill in wrong orientation	Reverse duckbill orientation
	Seized rollers caused abrasion on tube	Clean roller assembly or replace, do not lubricate
	Exposure to heat or sun	Do not store tubes in high temperatures or in direct sunlight
Tube connection is leaking	Ferrules installed incorrectly, missing or damaged	Replace ferrule, beveled end faces pump
	3/8" nut loose	Firmly hold adapter and finger tighten nut. Wrench tighten additional 1/2 turn.
	Missing ferrule in 3/8" adapter	Insert new ferrule into adapter or replace adapter fitting
	Sleeve and/or plastic gripper inside 3/8" connecting nut is missing damaged, or incorrectly assembled	Replace if damaged or missing; Reorient if incorrectly assembled; gripper beveled end faces nut; sleeve wider end faces gripper

TUBE REPLACEMENT

⚠ WARNING **RISK OF CHEMICAL EXPOSURE**

- To reduce risk of exposure, check the pump tube regularly for leakage. At the first sign of leakage, replace the pump tube.
- To reduce risk of exposure, the use of proper personal protective equipment is mandatory when working on or near chemical metering pumps.
- To reduce risk of exposure, and also prior to service, shipping, or storage, pump generous amounts of water or a compatible buffer solution to remove chemical from pump.
- Consult chemical manufacturer and SDS sheet for additional information and precautions for the chemical in use.
- Personnel should be skilled and trained in the proper safety and handling of the chemicals in use.
- Inspect tube frequently for leakage, deterioration, or wear. Schedule a regular pump tube maintenance change to prevent chemical damage to pump and/or spillage.

⚠ CAUTION **PINCH POINT HAZARD**

- Use extreme caution when replacing pump tube. Be careful of your fingers and DO NOT place fingers near rollers.

⚠ WARNING **HAZARDOUS PRESSURE/CHEMICAL EXPOSURE**

- Use caution and bleed off all resident system pressure prior to attempting service or installation.
- Use caution when disconnecting discharge line from pump. Discharge may be under pressure. Discharge line may contain chemical.

NOTICE: Indicates special instructions or general mandatory action.

- **DO NOT** apply grease, oil, or lubricants to the pump tube or housing.
- Prior to pump tube replacement, inspect the entire pump head for cracks or damaged components. Ensure rollers turn freely.
- Rinse off chemical residue and clean all chemical and debris from pump head components prior to tube replacement. Apply Aquashield™ to main shaft and tube housing cover bushing during tube replacement.
- **DO NOT** pull excessively on pump tube. Avoid kinks or damage during tube installation.
- Inspect the suction and discharge lines, injection point (into pipe), and check valve duckbill for blockages after any tube rupture. Clear or replace as required.

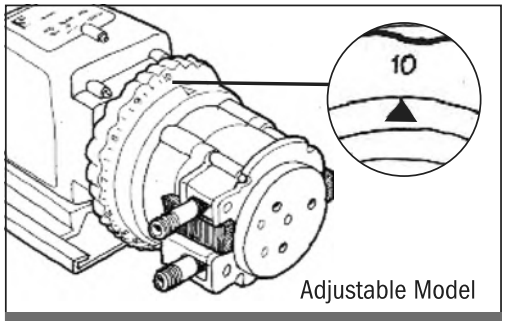
TUBE REPLACEMENT SINGLE HEAD PUMPS

PREPARATION

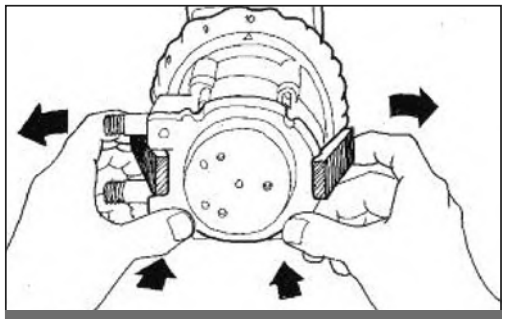
1. Follow all safety precautions prior to tube replacement.
2. Prior to service, pump water or a compatible buffer solution through the pump and suction and discharge lines to remove chemical and avoid contact.

More on next page

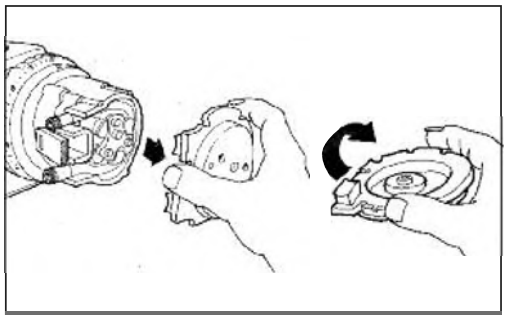
REMOVE THE PUMP TUBE



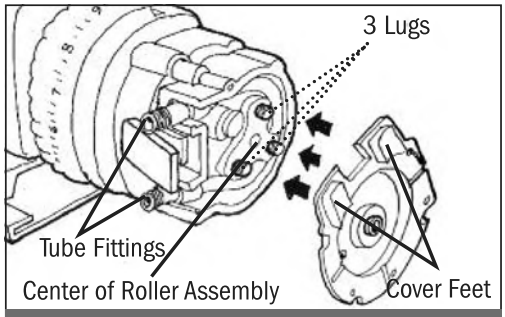
A Adjustable model must be on setting 10



B Open latches



C Remove and invert cover

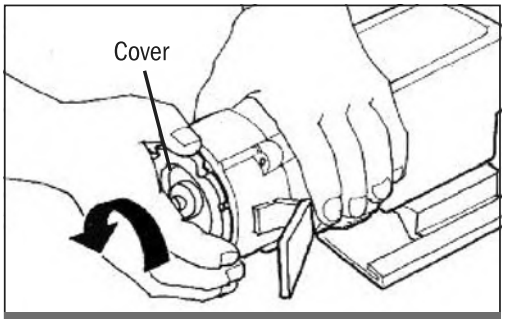


D Align cover feet near tube fittings

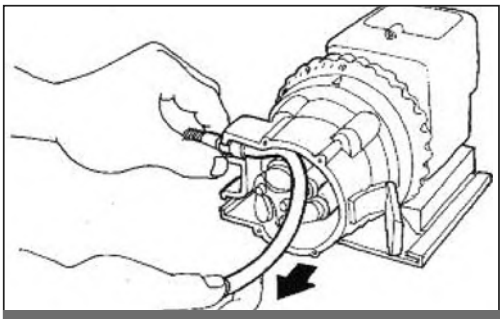
1. Turn the pump off and unplug the power cord. On the adjustable model, ensure that the feed rate control is set to 10. *Illustration A*
2. Depressurize and disconnect the suction and discharge lines.
3. Open the latches on both sides of the head. *Illustration B*
   For CE pump only: Remove the safety screw on cover.
4. Remove the tube housing cover and flip to use as a tool in the next step. *Illustration C*
5. Position the cover feet at 10 o'clock. Align the cover holes with the knurled lugs on the roller assembly. *Illustration D*
   NOTE: The roller assembly must be collapsed to remove the tube.

More on next page

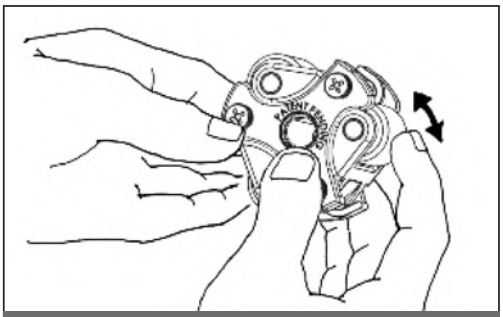
REMOVE THE PUMP TUBE continued



E Collapse roller assembly



F Remove tube

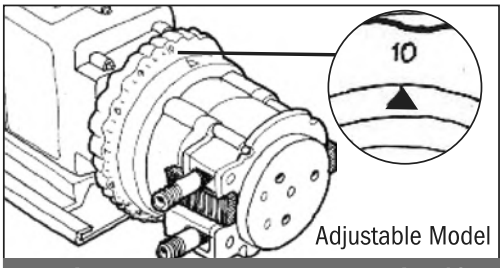


G Check rollers

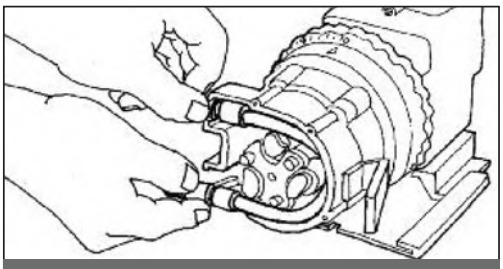
6. On the adjustable pump, hold the feed rate control securely. On the fixed output pump hold the motor securely. Use the tube cover and quickly snap counterclockwise to collapse the roller assembly. The tube will no longer be pressed against the tube housing wall. *Illustration E*
7. Remove and discard the pump tube. *Illustration F*
8. Remove the roller assembly and housing. On the adjustable pump also remove the shaft. Set them aside to reinstall later.
9. Use a non-citrus all-purpose cleaner to clean chemical residue from the tube housing, roller assembly and cover.
10. Check the housing, cover and roller assembly for cracks. Replace if cracked.
11. Ensure the rollers turn freely. Replace the roller assembly if the rollers are seized or worn or if there is a reduction or lack of output from the pump. *Illustration G*
12. Reinstall the clean tube housing. On an adjustable pump, also install the shaft into the feed rate control.
13. Apply AquaShield™ to the shaft tip.
14. Install the roller assembly.

More on next page

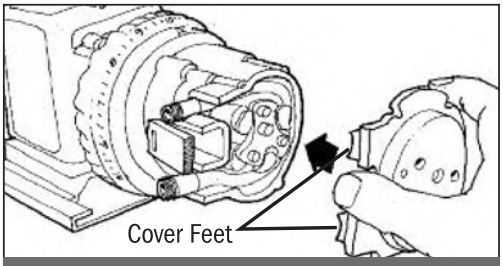
INSTALL THE TUBE/EXPAND THE ROLLER ASSEMBLY



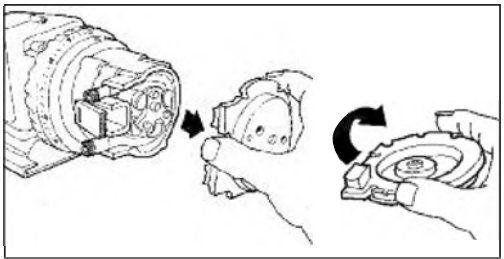
H Adjustable model must be on setting 10



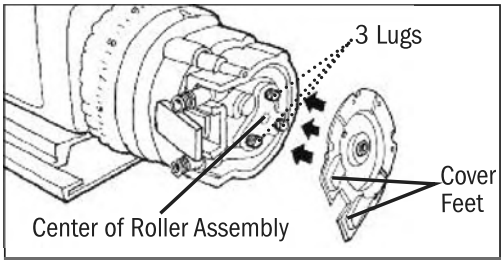
I Place new tube



J Install cover feet first



K Remove and invert cover



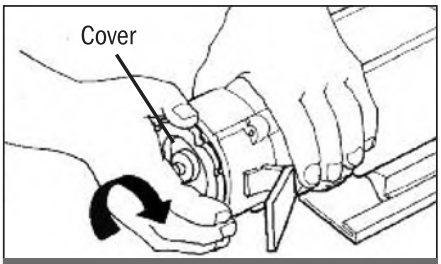
L Align cover feet near the bottom

1. Ensure the power to the pump is off and the power cord is unplugged. On the adjustable model, ensure that the feed rate control is set to 10. *Illustration H*
2. Place the new tube in the pump head and use your fingers to center it on the rollers. *Illustration I*
3. Place the tube housing cover (feet first) on the tube housing, affix the front of the latches to the cover lip and then press the latches back to secure. Be sure the cover is seated with the sleeve bearing on the shaft and is flush with the housing before latching. *Illustration J*
4. With the cover latched, plug the pump in and turn the power on. Allow the pump to run the roller assembly in its collapsed position for approximately 2 to 4 minutes to relax the tube.
5. Turn the pump off and unplug the power cord.
6. Remove the tube housing cover and flip to use as a tool in the next step. *Illustration K*
7. Position the cover feet near the tube fittings. Align the cover holes with the knurled lugs on the roller assembly. *Illustration L*

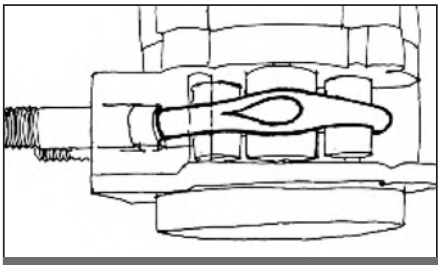
More on next page

INSTALL THE TUBE/EXPAND THE ROLLER ASSEMBLY continued

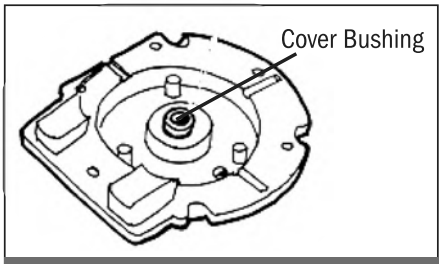
IMPORTANT: THE ROLLER ASSEMBLY MUST BE EXPANDED so the tube is pressed against the tube housing wall.



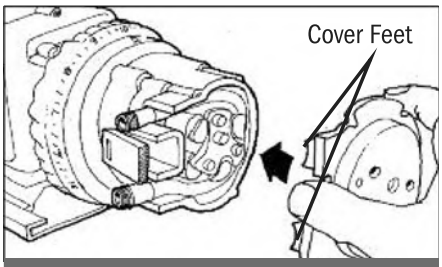
M Expand roller assembly



N Confirm roller assembly is expanded



O Apply Aquashield™ to cover bushing



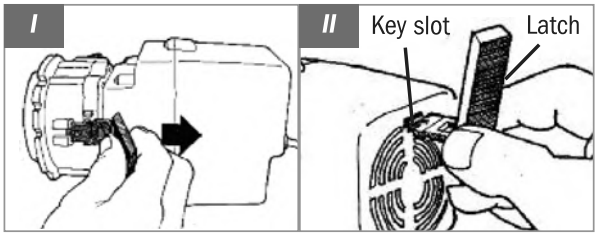
P Install cover feet first

8. Expand roller assembly.

Adjustable Models

Hold the feed rate control securely, use the cover and gently rotate the roller assembly clockwise to expand the roller assembly. The tube will be pressed against the tube housing wall.
Illustrations M & N
Proceed to step 9.

Fixed Output Models (motor vent with key slot, manufactured after 04/29/11)



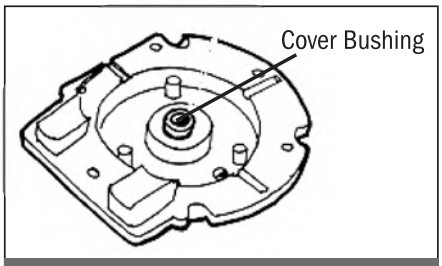
a. Slide one latch out to remove it from the tube housing. Insert the latch end into the key slot in the vent in the rear of the motor housing. *Illustrations I & II*

b. While pressing the latch into the rear of the motor, hold the motor securely, use the cover and gently rotate the roller assembly clockwise to expand the roller assembly. The tube will be pressed against the tube housing wall. *Illustrations M & N*

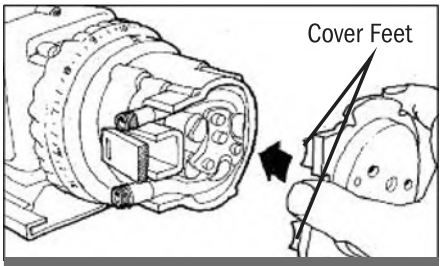
c. Re-attach latch to the tube housing.
Proceed to step 9.

More on next page

INSTALL THE TUBE/EXPAND THE ROLLER ASSEMBLY continued



O Apply Aquashield™ to cover bushing



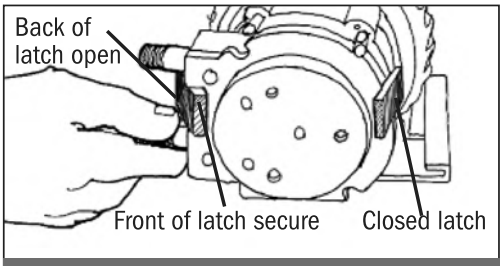
P Install cover feet first

9. Apply a small amount of AquaShield™ to the cover bushing ONLY. **DO NOT** lubricate the pump tube. *Illustration O*

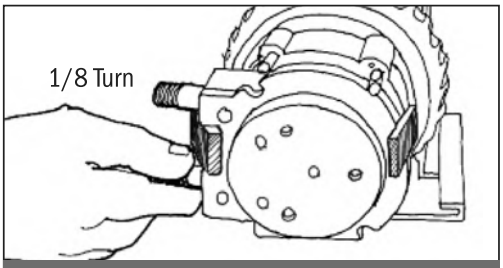
10. Place the tube housing cover (feet first) on the tube housing, affix the front of the latches to the cover lip and then press the latches back to secure. Be sure the cover is seated with the sleeve bearing on the shaft and is flush with the housing, before latching. *Illustration P*

More on next page

CENTER THE TUBE



Q Prepare to center tube



R Center tube

1. Ensure the pump is off. Lift the latch located between the tube fittings, leaving the end of the latch engaged with the lip on the tube housing cover. Leave the latch on the opposite side closed. *Illustration Q*
2. Plug the pump in and turn it on. Turn the tube fitting on the suction side not more than 1/8 of a turn in the direction the tube must move. *Illustration R*
3. **DO NOT** let go of the fitting until the tube rides approximately in center of the rollers.
4. Turn the pump off, let go of the fitting, and secure the latch between the fittings. *For CE pump only: Reinstall the safety screw on the cover.*
5. Inspect the suction and discharge lines, point of injection, and check valve duckbill for blockages. Clean all deposits and/or replace parts as required and always replace ferrules. Failure to do so may lead to poor pump performance, including shortened tube life.
6. Reconnect the suction and discharge lines. **DO NOT** allow the tube fittings to turn inside the pump housing.
7. Turn the pump on and run for two minutes to verify operation.

CLEANING THE POINT OF INJECTION

NOTICE: Indicates special instructions or general mandatory action.

Pumps rated 25 psi maximum are installed with an injection fitting and pumps rated 100 psi maximum are installed with a duckbill check valve. Both allow the extension tip to be installed in the center of the pipe directly in the flow of water to help reduce deposit accumulation.

⚠ WARNING Warns about hazards that CAN cause death, serious personal injury, or property damage if ignored.

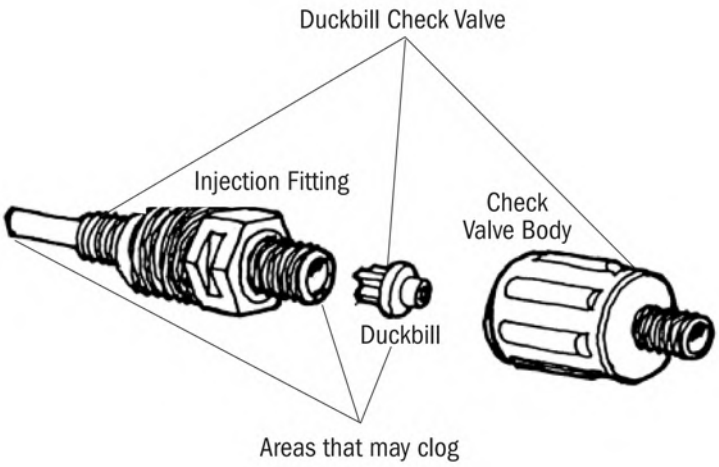
This is the safety alert symbol. When displayed in this manual or on the equipment, look for one of the following signal words alerting you to the potential for personal injury or property damage.

⚠ WARNING HAZARDOUS PRESSURE/CHEMICAL EXPOSURE

Use caution and bleed off all resident system pressure prior to attempting service or installation.

Use caution when disconnecting discharge line from pump. Discharge line may be under pressure. Discharge line may contain chemical.

To reduce risk of exposure, the use of proper personal protective equipment is mandatory when working on or near chemical metering pumps.



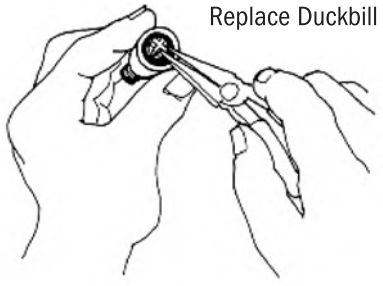
CLEANING THE POINT OF INJECTION continued

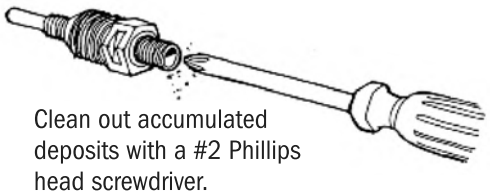
1. Turn metering pump off and unplug cord. Disable water pump or auxiliary equipment electrical supply.
2. Depressurize system and bleed pressure from pump discharge line.
3. Loosen and remove connecting nut and ferrule from the check valve or injection fitting to disconnect discharge tubing.

   Duckbill Check Valve, go to 4.
   Injection Fitting, skip 4 and go to 5.

4. - Unscrew the top fitting (check valve body) to disassemble. The bottom fitting (injection fitting with arrow) should remain attached to the pipe.
   - Remove duckbill from check valve body and replace it.
   - Examine o-ring in the injection fitting and replace if deteriorated or damaged.
5. Insert a #2 Phillips head screwdriver through injection fitting into the pipe to locate or break up accumulated deposits. If screwdriver cannot be inserted, drill the deposit out of the injection fitting (DO NOT drill through the opposite pipe wall).

More on next page





Clean out accumulated deposits with a #2 Phillips head screwdriver.

Periodic inspection and cleaning of the point of injection will maintain proper pump operation and provide maximum tube life.

CLEANING THE POINT OF INJECTION continued

6. Replace discharge line if cracked or deteriorated. If the end is clogged, cut off the calcified or blocked section of discharge line.

7. **Duckbill Check Valve**

   a. Reassemble the duckbill check valve.

   b. Replace ferrule and reinstall the discharge line to the check valve approximately 3/4" until it stops.

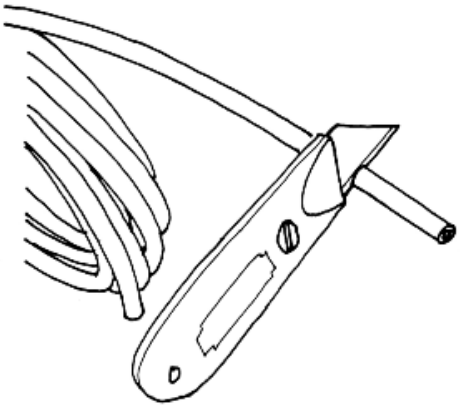
   Injection Fitting

   Replace ferrule and reinstall the discharge line to the injection fitting approximately 3/4" until it stops.

8. Tighten the connecting nut finger tight.

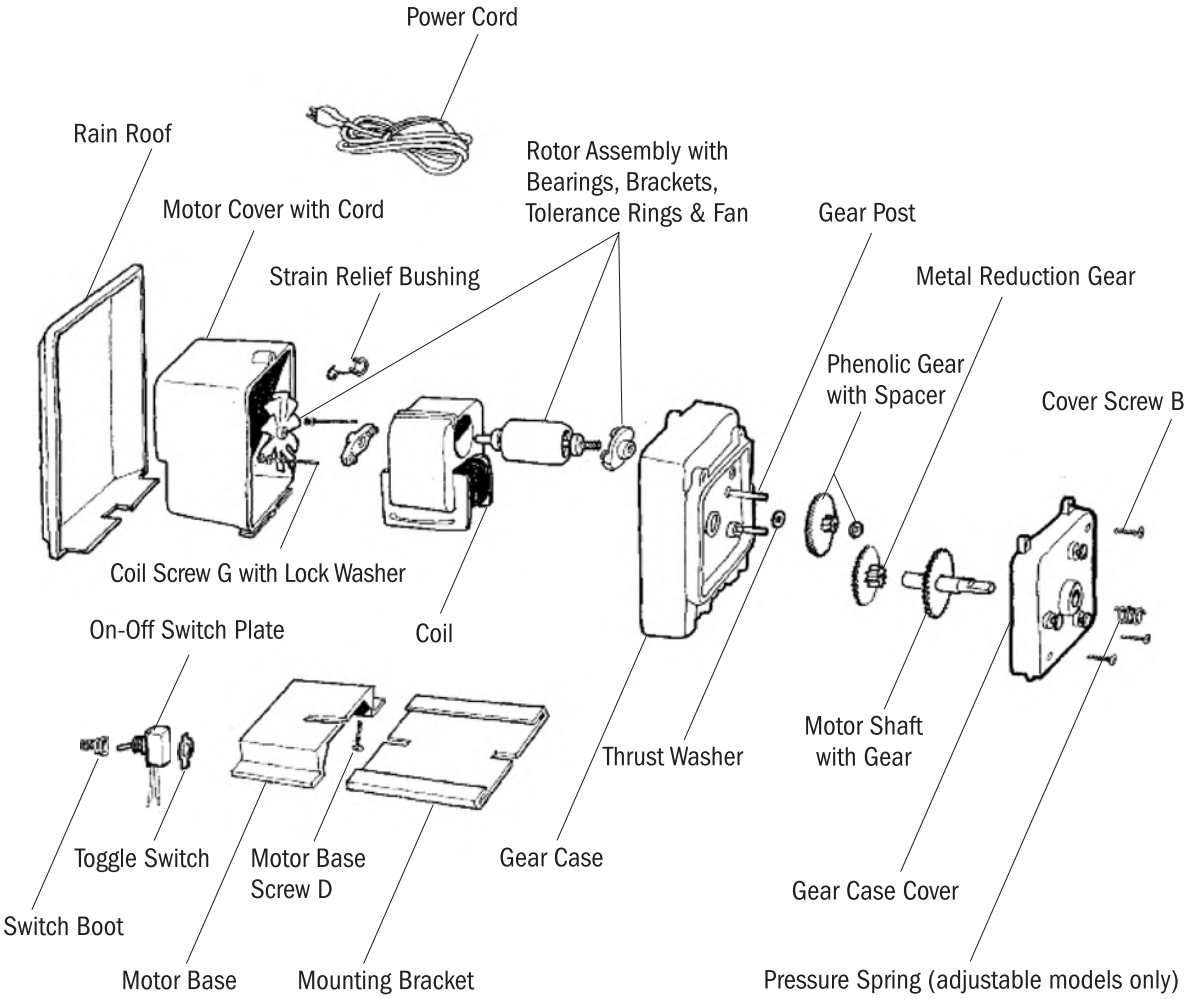
9. Enable the water pump electrical supply and pressurize the water system.
   NOTE: The roller assembly needs to be expanded so the tube is pressed against the tube housing wall.

10. Put the metering pump back in service and inspect all connections for leaks.



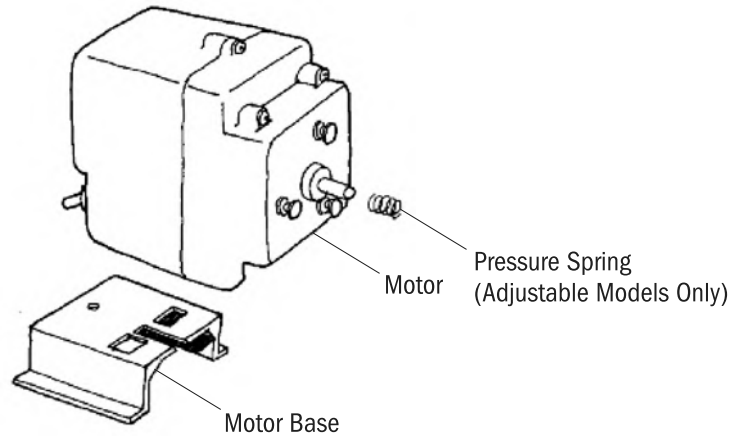
Cut off the calcified or blocked section.

MOTOR EXPLODED VIEW



Contact factory for part numbers.

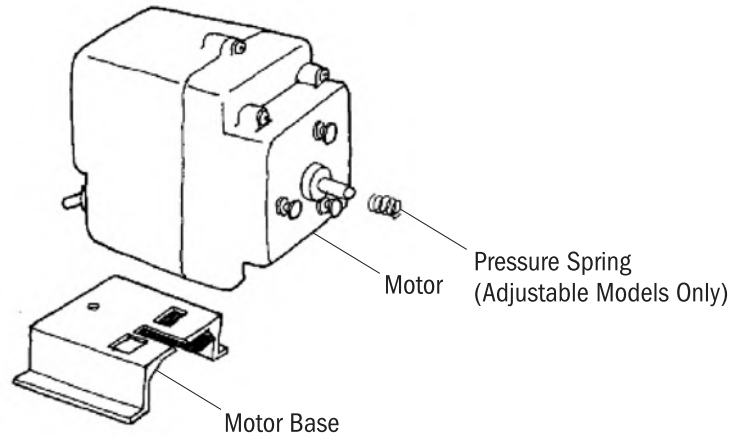
MOTOR 60Hz



MOTOR 60Hz

DESCRIPTION	WORKS WITH	PART NUMBER	UM
120V	Classic Adjustable 45, 100	**PM6041D**	EA
220V		**PM6042D**	EA
120V	Classic Adjustable 85, 170	**PM6081D**	EA
220V		**PM6082D**	EA
120V	Classic Fixed 45	**ME6041D**	EA
220V		**ME6042D**	EA
120V	Classic Fixed 85	**ME6081D**	EA
220V		**ME6082D**	EA
120V	Classic Fixed 100	**DM6041D**	EA
220V		**DM6042D**	EA
120V	Classic Fixed 170	**DM6081D**	EA
220V		**DM6082D**	EA

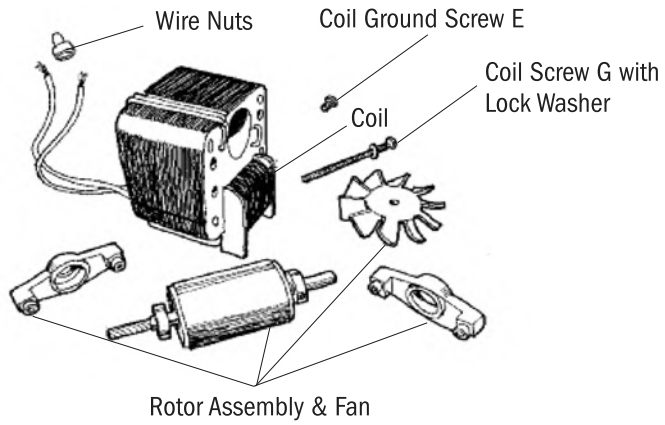
MOTOR 50Hz *International*



MOTOR 50Hz *International*

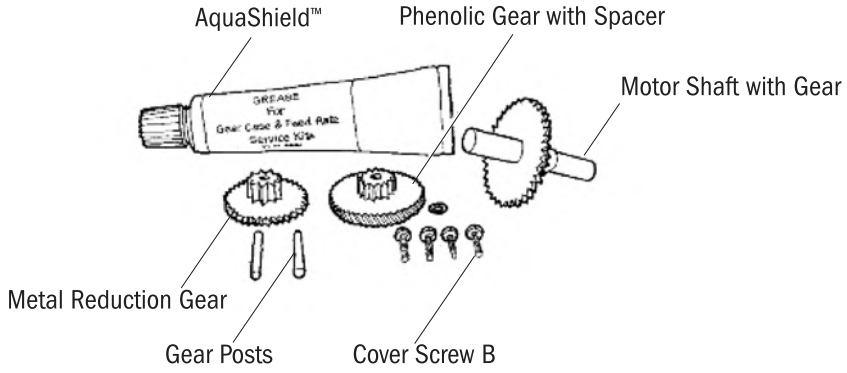
DESCRIPTION	WORKS WITH	PART NUMBER	UM
230V	Classic Adjustable 45, 100	**PM64230**	EA
250V		**PM6426D**	EA
230V	Classic Adjustable 85, 170	**PM68230**	EA
250V		**PM6826D**	EA
230V	Classic Fixed 45	**ME64230**	EA
250V		**ME6426D**	EA
230V	Classic Fixed 85	**ME68230**	EA
250V		**ME6826D**	EA
230V	Classic Fixed 100	**DM64230**	EA
250V		**DM64250**	EA
230V	Classic Fixed 170	**DM68230**	EA
250V		**DM68250**	EA

MOTOR SERVICE KITS



MOTOR SERVICE KIT 60HZ

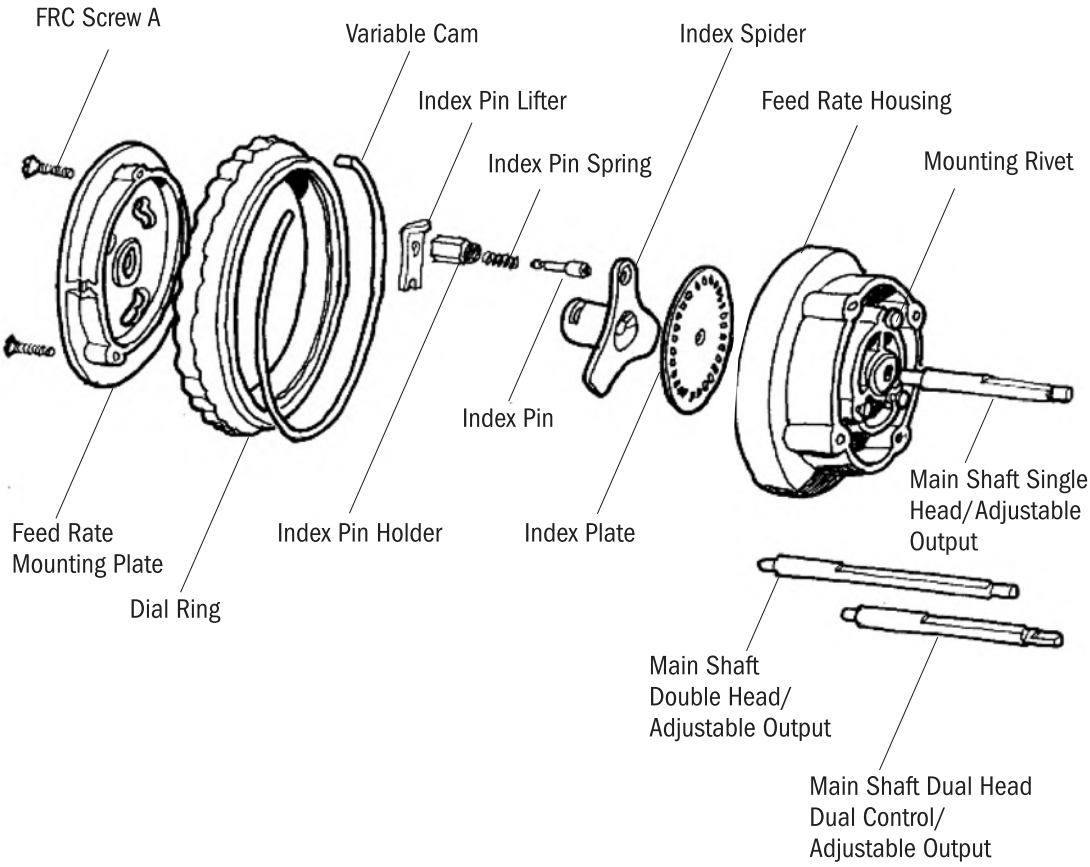
DESCRIPTION	PART NUMBER	UM
120V	**MSK120**	KIT
220V	**MSK220**	KIT



GEAR CASE SERVICE KIT

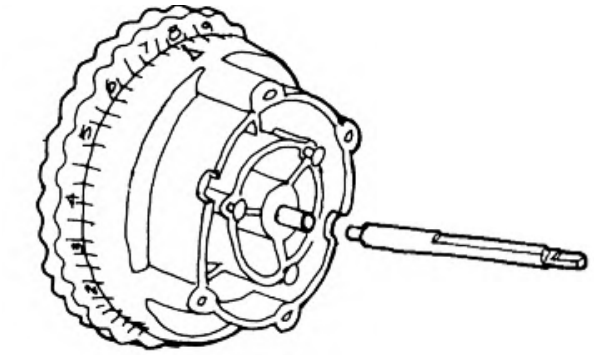
WORKS WITH	PART NUMBER	UM
Classic Adjustable 45, 100	**GSK45A**	KIT
Classic Adjustable 85, 170	**GSK85A**	KIT
Classic Fixed 45	**GSK45F**	KIT
Classic Fixed 85	**GSK85F**	KIT

FEED RATE CONTROL EXPLODED VIEW



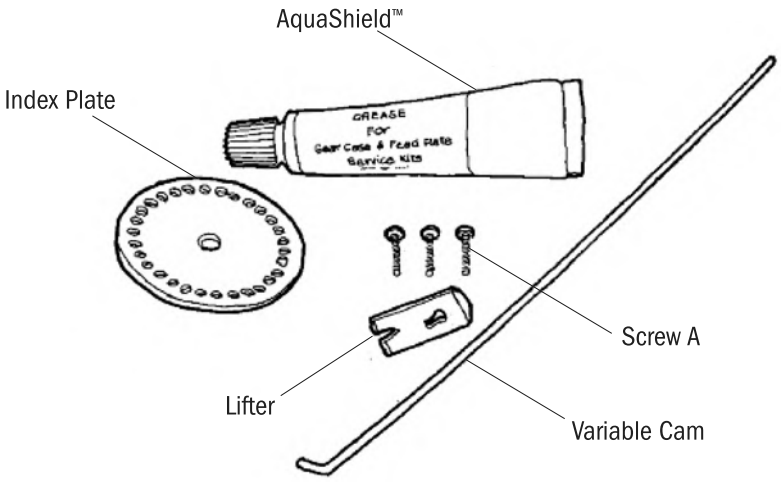
Contact factory for part numbers.

FEED RATE CONTROL AND SERVICE KIT



FEED RATE CONTROL WITH SHAFT

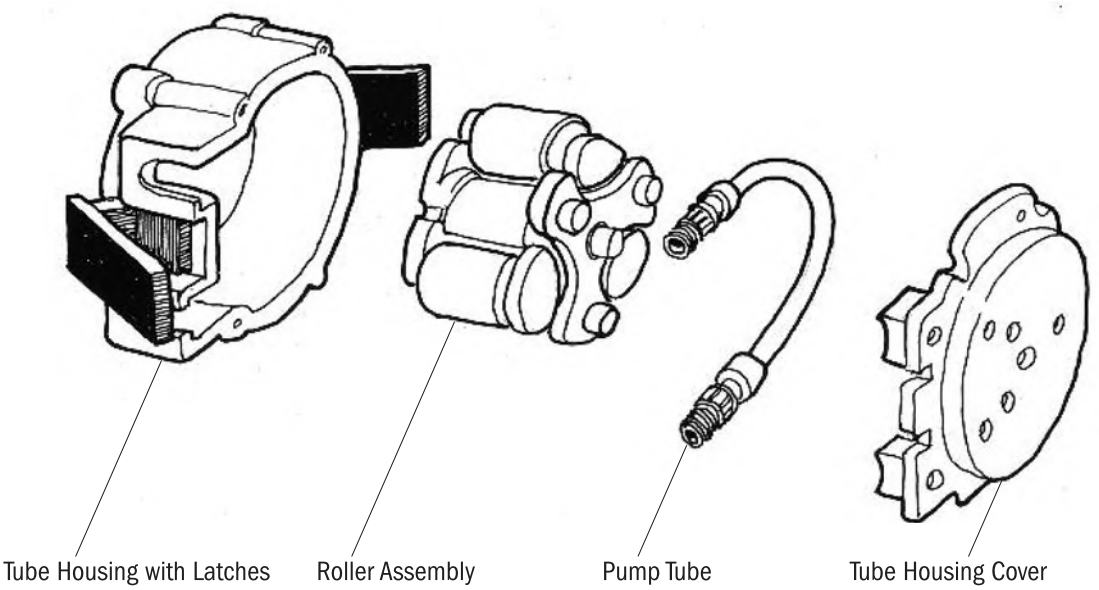
WORKS WITH	PART NUMBER	UM
Classic Adjustable 45, 85	FC5040D	EA
Classic Adjustable 100, 170	DM5040D	EA
Classic Dual Control 100, 170	DM504DC	EA



FEED RATE CONTROL SERVICE KIT

WORKS WITH	PART NUMBER	UM
Classic Adjustable 45, 85, 100, 170	FSK100	KIT

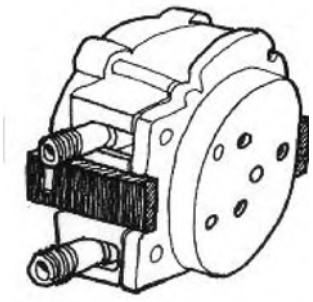
PUMP HEAD EXPLODED VIEW



PUMP HEAD PARTS

DESCRIPTION	EA	2-PK	4-PK
Tube Housing & Latches	QP400-1	QP400-2	————
Latches	————	QP401-2	————
Roller Assembly	QP500–1	————	QP500–4
Tube Housing Cover & Bushing	QP100–1	————	QP100–4

PUMP HEAD



Refer to the **FLOW RATE OUTPUT** chart to match the pump with the correct tube

PUMP HEAD 25 psi max.

Includes tube, ferrules 1/4"

DESCRIPTION	EA	2-PK
#1 Santoprene® QP Pump Head	QP251-1	QP251-2
#2 Santoprene® QP Pump Head	QP252-1	QP252-2
#3 Santoprene® QP Pump Head	QP253-1	QP253-2
#4 Santoprene® QP Pump Head	QP254-1	QP254-2
#5 Santoprene® QP Pump Head	QP255-1	QP255-2
#1 Versilon® QP Pump Head	QP25T1–1	-------
#2 Versilon® QP Pump Head	QP25T2–1	-------
#3 Versilon® QP Pump Head	QP25T3-1	-------
#4 Versilon® QP Pump Head	QP25T4-1	-------
#5 Versilon® QP Pump Head	QP25T5–1	-------

PUMP HEAD 100 psi max.

Includes tube, duckbill, ferrules 1/4"

DESCRIPTION	EA
#1 Santoprene® QP Pump Head	QP101-1
#2 Santoprene® QP Pump Head	QP102-1
#7 Santoprene® QP Pump Head (excludes Classic 100 or 170)	QP107-1
#1 Versilon® QP Pump Head	QP10T1-1
#2 Versilon® QP Pump Head	QP10T2-1

PUMP HEAD 1.7 bar max. *EUROPE*

Includes tube, ferrules 6 mm

DESCRIPTION	EA	2-PK
#1 Santoprene® QP Pump Head	QP171–1	QP171–2
#2 Santoprene® QP Pump Head	QP172–1	QP172–2
#3 Santoprene® QP Pump Head	QP173–1	QP173–2
#4 Santoprene® QP Pump Head	QP174-1	QP174-2
#5 Santoprene® QP Pump Head	QP175-1	QP175-2
#1 Versilon® QP Pump Head	QP17T1-1	-------
#2 Versilon® QP Pump Head	QP17T2-1	-------
#3 Versilon® QP Pump Head	QP17T3-1	-------
#4 Versilon® QP Pump Head	QP17T4-1	-------
#5 Versilon® QP Pump Head	QP17T5-1	-------

PUMP HEAD 6.9 bar max. *EUROPE*

Includes tube, duckbill, ferrules 6 mm

DESCRIPTION	EA
#1 Santoprene® QP Pump Head	QP691-1
#2 Santoprene® QP Pump Head	QP692-1
#7 Santoprene® QP Pump Head (excludes Classic 100 or 170)	QP697-1
#1 Versilon® QP Pump Head	QP69T1-1
#2 Versilon® QP Pump Head	QP69T2-1

NOTE: Confirm chemical compatibility with the chemical resistance guide in the catalog.

PUMP HEAD SERVICE KITS

Roller Assembly

Latches

Ferrules 1/4" or 6 mm *Europe*

Connecting Nuts 1/4"

Pump Tube

Duckbill
(100 psi)

PUMP HEAD SERVICE KIT 25 psi max.

Includes roller assembly, tube, nuts, ferrules 1/4", latches

DESCRIPTION	KIT
#1 Santoprene® QP Kit	QP251K
#2 Santoprene® QP Kit	QP252K
#3 Santoprene® QP Kit	QP253K
#4 Santoprene® QP Kit	QP254K
#5 Santoprene® QP Kit	QP255K
#1 Versilon® QP Kit	QP25T1K
#2 Versilon® QP Kit	QP25T2K
#3 Versilon® QP Kit	QP25T3K
#4 Versilon® QP Kit	QP25T4K
#5 Versilon® QP Kit	QP25T5K

PUMP HEAD SERVICE KIT 1.7 bar max. *EUROPE*

Includes roller assembly, tube, nuts, ferrules 6 mm, latches

DESCRIPTION	KIT
#1 Santoprene® QP Kit	QP171K
#2 Santoprene® QP Kit	QP172K
#3 Santoprene® QP Kit	QP173K
#4 Santoprene® QP Kit	QP174K
#5 Santoprene® QP Kit	QP175K
#1 Versilon® QP Kit	QP17T1K
#2 Versilon® QP Kit	QP17T2K
#3 Versilon® QP Kit	QP17T3K
#4 Versilon® QP Kit	QP17T4K
#5 Versilon® QP Kit	QP17T5K

PUMP HEAD SERVICE KIT 100 psi max.

Includes roller assembly, tube, duckbill, nuts, ferrules 1/4", latches

DESCRIPTION	KIT
#1 Santoprene® QP Kit	QP101K
#2 Santoprene® QP Kit	QP102K
#7 Santoprene® QP Kit	QP107K
#1 Versilon® QP Kit	QP10T1K
#2 Versilon® QP Kit	QP10T2K

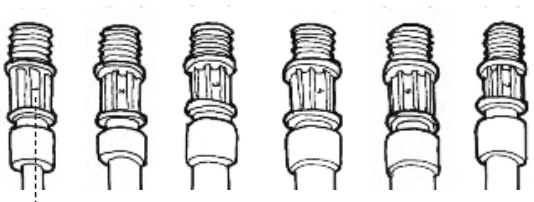
PUMP HEAD SERVICE KIT 6.9 bar max. *EUROPE*

Includes roller assembly, tube, duckbill, nuts, ferrules 6 mm, latches

DESCRIPTION	KIT
#1 Santoprene® QP Kit	QP691K
#2 Santoprene® QP Kit	QP692K
#7 Santoprene® QP Kit	QP697K
#1 Versilon® QP Kit	QP69T1K
#2 Versilon® QP Kit	QP69T2K

NOTE: Confirm chemical compatibility with the chemical resistance guide in the catalog.

PUMP TUBES



1 Tube number located on fitting

Refer to the **FLOW RATE OUTPUT** chart to match the pump with the correct tube

PUMP TUBE Includes ferrules 1/4"

DESCRIPTION	2-PK	5-PK
#1 Santoprene® Tube	UCCP201	MCCP201
#2 Santoprene® Tube	UCCP202	MCCP202
#3 Santoprene® Tube	UCCP203	MCCP203
#4 Santoprene® Tube	UCCP204	MCCP204
#5 Santoprene® Tube	UCCP205	MCCP205
#7 Santoprene® Tube (excludes Classic 100 or 170)	UCCP207	MCCP207
#1 Versilon® Tube	UCTYG01	MCTYG01
#2 Versilon® Tube	UCTYG02	MCTYG02
#3 Versilon® Tube	UCTYG03	MCTYG03
#4 Versilon® Tube	UCTYG04	MCTYG04
#5 Versilon® Tube	UCTYG05	MCTYG05

PUMP TUBE & DUCKBILL

Includes ferrules 1/4"

DESCRIPTION	2-PK
#1 Santoprene® Tube & Duckbill	UCCIFD
#2 Santoprene® Tube & Duckbill	UCCP2FD
#7 Santoprene® Tube & Duckbill (excludes Classic 100 or 170)	UCCP7FD
#1 Versilon® Tube & Duckbill	UCTY1FD
#2 Versilon® Tube & Duckbill	UCTY2FD

PUMP TUBE *EUROPE* Includes ferrules 6 mm

DESCRIPTION	2-PK	5-PK
#1 Santoprene® Tube	UCCP21CE	MCCP21CE
#2 Santoprene® Tube	UCCP21CE	MCCP21CE
#3 Santoprene® Tube	UCCP23CE	MCCP23CE
#4 Santoprene® Tube	UCCP24CE	MCCP24CE
#5 Santoprene® Tube	UCCP25CE	MCCP25CE
#7 Santoprene® Tube (excludes Classic 100 or 170)	UCCP27CE	MCCP27CE
#1 Versilon® Tube	UCTY1CE	MCTY1CE
#2 Versilon® Tube	UCTY2CE	MCTY2CE
#3 Versilon® Tube	UCTY3CE	MCTY3CE
#4 Versilon® Tube	UCTY4CE	MCTY4CE
#5 Versilon® Tube	UCTY5CE	MCTY5CE

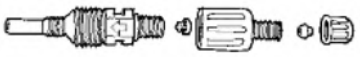
PUMP TUBE & DUCKBILL *EUROPE*

Includes ferrules 6 mm

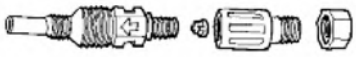
DESCRIPTION	2-PK
#1 Santoprene® Tube & Duckbill	UC1FDCE
#2 Santoprene® Tube & Duckbill	UC2FDCE
#7 Santoprene® Tube & Duckbill (excludes Classic 100 or 170)	UC7FDCE
#1 Versilon® Tube & Duckbill	UCTY1DCE
#2 Versilon® Tube & Duckbill	UCTY2DCE

NOTE: Confirm chemical compatibility with the chemical resistance guide in the catalog.

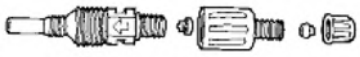
INJECTION FITTINGS & CHECK VALVES



1/4" Duckbill Check Valve



3/8" Duckbill Check Valve



6 mm Duckbill Check Valve

INJECTION FITTINGS 25 psi max.

DESCRIPTION	EA	5-PK
1/4" Injection Fitting with Nut & Ferrule	UCAK300	MCAK300
3/8" Injection Fitting with Nut	UCAK400	———

INJECTION FITTINGS 1.7 bar max. *EUROPE*

DESCRIPTION	EA
6 mm Injection Fitting with Nut & Ferrule	UCAK3CE

DUCKBILL CHECK VALVES 100 psi max.

DESCRIPTION	EA	5-PK
1/4" Includes Santoprene® Duckbill, Nut, Ferrule	UCDBINJ	MCDBINJ
1/4" Includes Pellethane® Duckbill, Nut, Ferrule	UCTYINJ	MCTYINJ
1/4" Includes FKM Duckbill, Nut, Ferrule	UCKMINJ	MCKMINJ
3/8" Includes Santoprene® Duckbill, Nut	UCINJ38	MCINJ38
3/8" Includes Pellethane® Duckbill, Nut	UCTYIJ38	MCTYIJ38
3/8" Includes FKM Duckbill, Nut	UCKMI38	MCKMI38

DUCKBILL CHECK VALVES 6.9 bar max. *EUROPE*

DESCRIPTION	EA	5-PK
6 mm Includes Santoprene® Duckbill, Nut, Ferrule	UCINJCE	MCINJCE
6 mm Includes Pellethane® Duckbill, Nut, Ferrule	UCTINJCE	MCTINJCE
6 mm Includes FKM Duckbill, Nut, Ferrule	UCKMJCE	MCKMJCE

NOTE: Confirm chemical compatibility with the chemical resistance guide in the catalog.

FOR YOUR RECORDS

Pump Item Number

Serial Number

Date of Installation

STENNER PUMPS®

STENNER PUMP COMPANY

3174 DeSalvo Road
Jacksonville, Florida 32246 USA

Phone: 904.641.1666
US Toll Free: 800.683.2378
Fax: 904.642.1012

sales@stenner.com
www.stenner.com

Hours of Operation (EST):
Mon.–Thu. 7:30 am–5:30 pm
Fri. 7:00 am–5:30 pm

Assembled in the USA

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IMCL 021822

CONVERSION TABLES AND FORMULAS

MULTIPLY	BY	TO GET
Acres	.4047	Hectares
Acres	43,560	Sq. feet
Acres	4047	Sq. meters
Acres	.001562	Sq. miles
Atmospheres	1.013	Bars
Atmospheres	76.0	Cm. of mercury
Atmospheres	33.90	Feet of water
Atmospheres	29.92	Inches of mercury
Atmospheres	101.325	KiloPascals
Atmospheres	14.70	Pounds/sq. inch
B.T.U.	778.3	Foot pounds
B.T.U.	252.0	Gram calories
B.T.U.	1,054.8	Joules
B.T.U.	.0002928	Kilowatt - hours
Bars	100	KiloPascals
Bars	14.50	Pounds/sq. inch
Calories	.003968	B.T.U.
Calories	3.0880	Foot-pounds
Centimeters	.03281	Feet
Centimeters	.3937	Inches
Centimeters	.01	Meters
Centimeters	10	Millimeters
Centimeters	393.7	Mils
Centimeters of mercury	.01316	Atmospheres
Centimeters of mercury	.4461	Feet of water
Centimeters of mercury	.1934	Pounds/ sq. inch
Chains	792	Inches
Chains	20.12	Meters
Chains	22	Yards
Cubic centimeters	.00003531	Cubic feet
Cubic centimeters	.06102	Cubic inches
Cubic centimeters	.000001	Cubic meters
Cubic centimeters	.001	Liters
Cubic feet	1728	Cubic inches
Cubic feet	.02832	Cubic meters
Cubic feet	.03704	Cubic yards
Cubic feet	7.4805	Gallons
Cubic feet	28.32	Liters
Cubic feet	59.84	Pints (liq.)
Cubic feet	29.92	Quarts (liq.)
Cubic feet/minute	.1247	Gallons/second
Cubic feet/minute	.4719	Liter/second
Cubic feet/minute	62.43	Pounds of water/min.
Cubic feet/second	448.831	Gallons/min.
Cubic inches	16.39	Cubic centimeters
Cubic inches	.0005787	Cubic feet
Cubic inches	.00001639	Cubic meters
Cubic inches	.004329	Gallons
Cubic inches	.01639	Liters
Cubic inches	.03463	Pints (liq.)
Cubic inches	.01732	Quarts (liq.)
Cubic meters	1,000,000	Cubic centimeters
Cubic meters	35.31	Cubic feet
Cubic meters	61,023	Cubic inches
Cubic meters	264.2	Gallons
Cubic meters	2113	Pints (liq.)
Cubic meters	1057	Quarts (liq.)
Cubic meters/hour	4.4	Gallons/minute
Cubic yards	764,600	Cubic centimeters
Cubic yards	27	Cubic feet
Cubic yards	46,656	Cubic inches
Cubic yards	.7646	Cubic meters
Cubic yards	202.0	Gallons
Cubic yards	764.6	Liters
Fathoms	6	Feet
Feet	30.48	Centimeters
Feet	12	Inches
Feet	.3048	Meters
Feet	304.8	Millimeters
Feet of water	.0295	Atmospheres
Feet of water	.8826	Inches of mercury
Feet of water	.4335	Pounds/sq. inch
Feet/minute	.5080	Centimeters/sec.
Feet/minute	.01667	Feet/sec.
Feet/minute	.3048	Meters/min.
Feet/minute	.01136	Miles/hour
Feet/second	18.29	Meters/min.
Feet/second	.6818	Miles/hour
Foot candles	10.764	Lux
Gallons	3785	Cubic centimeters
Gallons	.1337	Cubic feet
Gallons	231	Cubic inches

MULTIPLY	BY	TO GET
Gallons	.003785	Cubic meters
Gallons	3.785	Liters
Gallons	8	Pints (liq.)
Gallons	4	Quarts (liq.)
Gallons of water	8.345	Pounds of water
Gallons/minute	8.0208	Cubic feet/hour
Gallons/minute	3.785	Liters/minute
Gallons/minute	500	Pounds of water/hour
Grams	.001	Kilograms
Grams	1000	Milligrams
Grams	.03527	Ounces
Hectares	2.471	Acres
Inches	2.540	Centimeters
Inches	.02540	Meters
Inches	25.40	Millimeters
Inches	1000	Mils
Inches of mercury	.03342	Atmospheres
Inches of mercury	1.133	Feet of water
Inches of water	.002458	Atmospheres
Inches of water	.03613	Pounds/sq. inch
Joules	.000948	B.T.U.
Joules	.7376	Foot-pounds
Joules	.0002778	Watts-hour
Kilograms	1000	Grams
Kilograms	2.205	Pounds
Kilograms/meter	.6720	Pounds/foot
Kiloliters	1000	Liters
Kilometers	100,000	Centimeters
Kilometers	3281	Feet
Kilometers	1000	Meters
Kilometers	.6214	Miles
Kilometers	1094	Yards
Kilometers/hour	27.78	Centimeters/sec.
Kilometers/hour	54.68	Feet/min.
Kilometers/hour	.9113	Feet/sec.
Kilometers/hour	16.67	Meters/minute
Kilometers/hour	.6214	Miles/hour
KiloPascals	.1450	Pounds/sq. inch
Liters	1000	Cubic centimeters
Liters	.03531	Cubic feet
Liters	61.02	Cubic inches
Liters	.001	Cubic meters
Liters	.2642	Gallons
Liters	2.113	Pints (liq.)
Liters	1.057	Quarts (liq.)
Lumens/sq. foot	1	Foot-candles
Lumens/sq. foot	10.76	Lumens/sq. meter
Lux	.0929	Foot-candles
Meters	100	Centimeters
Meters	3.281	Feet
Meters	39.37	Inches
Meters	.001	Kilometers
Meters	1000	Millimeters
Meters	1.094	Yards
Meters/minute	3.281	Feet/minute
Meters/minute	.05468	Feet/second
Meters/minute	.06	Kilometers/hr.
Meters/minute	.03728	Miles/hr.
Meters/second	196.8	Feet/minute
Meters/second	3.281	Feet/second
Meters/second	3.6	Kilometers/hr.
Meters/second	2.237	Miles/hr.
Microns	.0000394	Inches
Microns	.000001	Meters
Miles	5280	Feet
Miles	1.609	Kilometers
Miles	1,609	Meters
Miles	1760	Yards
Miles/hour	44.70	Centimeters/sec.
Miles/hour	88	Feet/min.
Miles/hour	1.467	Feet/sec.
Miles/hour	1.609	Kilometers/hr.
Miles/hour	26.82	Meters/min.
Milligrams	.001	Grams
Milligrams/liter (liq.)	1	Parts/million
Milliliters	.001	Liters
Millimeters	.1	Centimeters
Millimeters	.003281	Feet
Millimeters	.03937	Inches
Mils	.00254	Centimeters
Mils	.001	Inches
Ounces	28.350	Grams

MULTIPLY	BY	TO GET
Ounces	29.47	Milliliters
Ounces	.0625	Pounds
Pints (liq.)	.4732	Liters
Pints (liq.)	16	Ounces
Pounds	16	Ounces
Pounds/sq. inch	.06804	Atmospheres
Multiply	by	to get
Pounds/sq. inch	2.307	Feet of water
Pounds/sq. inch	2.036	Inches of mercury
Pounds/sq. inch	6.897	KiloPascals
Quarts (liq.)	.9463	Liters
Quarts (liq.)	32	Ounces
Rods	16.5	Feet
Sq. centimeters	.001076	Sq. feet
Sq. centimeters	.1550	Sq. inches
Sq. centimeters	.0001	Sq. meters
Sq. centimeters	100	Sq. millimeters
Sq. feet	929	Sq. centimeters
Sq. feet	144	Sq. inches
Sq. feet	.09290	Sq. meters
Sq. inches	6.452	Sq. centimeters
Sq. inches	.006944	Sq. feet
Sq. inches	645.2	Sq. millimeters
Sq. kilometers	10,760,000	Sq. feet
Sq. kilometers	1,000,000	Sq. meters
Sq. kilometers	.3861	Sq. miles
Sq. meters	10.76	Sq. feet
Sq. meters	1.196	Sq. yards
Sq. miles	640	Acres
Sq. miles	2.590	Sq. kilometers
Sq. yards	9	Sq. feet
Sq. yards	1,296	Sq. inches
Ton (long)	1016	Kilograms
Ton (long)	2240	Pounds
Ton (long)	1.12	Ton (short)
Ton (metric)	1000	Kilograms
Ton (metric)	2205	Pounds
Ton (short)	907.1848	Kilograms
Ton (short)	32,000	Ounces
Ton (short)	2000	Pounds
Ton (short)	.89287	Ton (long)
Ton (short)	.90718	Tons (metric)
Yards	91.44	Centimeters
Yards	36	Inches
Yards	.9144	Meters

* All liquids are in U.S. fluid measurements unless otherwise stated.

DECIMAL AND MILLIMETER EQUIVALENTS OF FRACTIONS

FRACTIONS	DECIMALS	MILLIMETERS
1/32	.03125	.794
1/16	.0625	1.588
3/32	.09375	2.381
1/8	.125	3.175
5/32	.15625	3.969
3/16	.1875	4.763
7/32	.21875	5.556
1/4	.250	6.350
9/32	.28125	7.144
5/16	.3125	7.938
11/32	.34375	8.731
3/8	.375	9.525
13/32	.40625	10.319
7/16	.4375	11.113
15/32	.46875	11.906
1/2	.500	12.700
17/32	.53125	13.494
9/16	.5625	14.288
19/32	.59375	15.081
5/8	.625	15.875
21/32	.65625	16.669
11/16	.6875	17.463
23/32	.71875	18.256
3/4	.750	19.050
25/32	.78125	19.844
13/16	.8125	20.638
27/32	.84375	21.431
7/8	.875	22.225
29/32	.90625	23.019
15/16	.9375	23.813
31/32	.96875	24.606
1	1.000	25.400

CONVERSION TABLES AND FORMULAS

NUMERIC NOTATIONS

Prefix	Numeral	Symbol	Scientific
Tera	1,000,000,000,000	T	1012
Giga	1,000,000,000	G	109
Mega	1,000,000	M	106
Kilo	1000	k	103
Hecto	100	h	102
Deka	10	da	10
	1		
Deci	.1	d	10-1
Centi	.01	c	10-2
Milli	.001	m	10-3
Micro	.000001	μ	10-6
Nano	.000000001	n	10-9
Pico	.000000000001	p	10-12

TEMPERATURE CONVERSION TABLE

C	F	C	F	C	F	C	F
–40	–40.0	16	60.8	70	158.0	300	572.0
–38	–36.4	17	62.6	75	167.0	305	581.0
–36	–32.8	18	64.4	80	176.0	310	590.0
–34	–29.2	19	66.2	85	185.0	315	599.0
–32	–25.6	20	68.0	90	194.0	320	608.0
–30	–25.6	20	68.0	90	194.0	320	608.0
–28	–18.4	22	71.6	100	212.0	330	626.0
–26	–14.8	23	73.4	105	221.0	335	635.0
–24	–11.2	24	75.2	110	230.0	340	644.0
–22	–7.6	25	77.0	115	239.0	345	653.0
–20	–4.0	26	78.8	120	248.0	350	662.0
–19	–2.2	27	80.6	125	257.0	355	671.0
–18	–0.4	28	82.4	130	266.0	360	680.0
–17	+1.4	29	84.2	135	275.0	365	689.0
–16	3.2	30	86.0	140	284.0	370	698.0
–15	5.0	31	87.8	145	293.0	375	707.0
–14	6.8	32	89.6	150	302.0	380	716.0
–13	8.6	33	91.4	155	311.0	385	725.0
–12	10.4	34	93.2	160	320.0	390	734.0
–11	12.2	35	95.0	165	329.0	395	743.0
–10	14.0	36	96.8	170	338.0	400	752.0
–9	15.8	37	98.6	175	347.0	425	797.0
–8	17.6	38	10.4	180	356.0	450	842.0
–7	19.4	39	102.2	185	365.0	475	887.0
–6	21.2	40	104.0	190	374.0	500	932.0
–5	23.0	41	105.8	195	383.0	525	977.0
–4	24.8	42	107.6	200	392.0	550	1022.0
–3	26.6	43	109.4	205	401.0	575	1067.0
–2	28.4	44	111.2	210	410.0	600	1112.0
–1	30.2	45	113.0	215	419.0	625	1157.0
0	32.0	46	114.8	220	428.0	650	1202.0
1	33.8	47	116.6	225	437.0	675	1247.0
2	35.6	48	118.4	230	446.0	770	1292.0
3	37.4	49	120.2	235	455.0	725	1337.0
4	39.2	50	122.0	240	464.0	750	1382.0
5	41.0	51	123.8	245	473.0	775	1427.0
6	42.8	52	125.6	250	482.0	800	1472.0
7	44.6	53	127.4	255	491.0	825	1517.0
8	46.4	54	129.2	260	500.0	850	1562.0
9	48.2	55	131.0	265	509.0	875	1607.0
10	50.0	56	132.8	270	518.0	900	1652.0
11	51.8	57	134.6	275	527.0	925	1697.0
12	53.6	58	136.4	280	536.0	950	1742.0
13	55.4	59	138.2	285	545.0	975	1787.0
14	57.2	60	140.0	290	554.0	1000	1832.0
15	59.0	65	149.0	295	563.0	1050	2732.0

TEMPERATURE CONVERSION FORMULAS

Degrees Celsius	= 5/9 (degrees Fahrenheit) –32
Degrees Celsius	= degrees Kelvin –273.15
Degrees Fahrenheit	= 1.8 (degrees Celsius) +32
Degrees Fahrenheit	= degrees Rankine –459.67
Degrees Kelvin	= degrees Celsius +273.15
Degrees Rankine	= degrees Fahrenheit +459.67

AVERAGE ABSOLUTE ATMOSPHERIC PRESSURE

Altitude above sea level	PSIA	Inches Hg.	mm. Hg.
0	14.7	29.9	760.0
500	14.4	29.4	744.6
1,000	14.2	29.8	734.3
1,500	13.9	28.3	718.8
2,000	13.7	27.8	708.4
3,000	13.2	26.8	685.6
4,000	12.7	25.9	656.7
5,000	12.2	24.9	630.9
6,000	11.7	24.0	605.5
7,000	11.3	23.1	584.4

TEMPERATURE RANGES FOR PLASTICS*

	Maximum Use Temp. (°C)	HDT Temp. (°C)	Brittleness Temp. (°C)	Transparency	Autoclaving
ETFE	150	104	–105	Translucent	Yes
FEP	205	158	–270	Translucent	Yes
HDPE	120	65	–100	Translucent	No
LDPE	80	45	–100	Translucent	No
PC	135	138	–135	Clear	Yes
PETG	70	70	-40	Clear	No
PMP	175	85	20	Clear	Yes
PP	135	107	0	Translucent	Yes
PPCO	121	90	–40	Translucent	Yes
PS	90	105	20	Clear	No
PVC (rigid)	70	90	–30	Clear	No
Silicone	200	–46	–117	Translucent	Yes
TFE	288	200	–100	Opaque	Yes

*ABBREVIATION KEY

EFTE = Tefzel
FEP = Teflon
HDPE = high-density polyethylene
LDPE = low-density polyethylene
PC = polycarbonate
PETG = polyethylene terephthalate copolymer
PFA = Teflon PFA*
PMP = polymethylpentene
PP = polypropylene
PPCO = polypropylene copolymer
PS = polystyrene
PVC = polyvinyl chloride
PVDF = polyvinylidene fluoride
TFE = tetrafluoroethylene

THRESHOLD LIMIT VALUES*

TLV in mg/m^3 = $\frac{\text{(TLV in ppm) (gram molecular weight of substance)}}{24.45}$

TLV in ppm = $\frac{\text{(TLV in } mg/m^3\text{) (24.45)}}{\text{gram molecular weight of substance}}$

Volume percent = 10,000 ppm

Volume percent × .0001 = ppm

*Conversion of TLVs in ppm to mg/m^3:

FORMULAS

DOSAGE / WATER

GAS

GPM X .012 X PPM = PPD

Flow X .012 X Dose = Feed Rate

MGD X 8.34 X PPM = PPD

Flow X 8.34 X Dose = Feed Rate

LIQUID

MGD X 8.34 X PPM = PPD

Flow X 8.34 X Dose = Feed Rate

$$\frac{\text{PPD}}{\% \times \text{SG} \times 8.34} = \text{GPD}$$

Conc X Spec Grav X H20 = Gal

PUMP / WATER

$$\frac{\text{GPM} \times \text{Ft. Head}}{3960 \times \text{BHP}} = \text{Pump Eff}$$

BHP - Brake Horsepower to pump

$$\frac{\text{GPM} \times \text{Ft. Head}}{3960 \times \text{Eff.}} = \text{BHP}$$

Cost of Pumping 1,000 Gal.

$$\frac{.189 \times \text{Cost KWH} \times \text{Ft. Head}}{\text{Pump Eff} \times \text{Motor Eff} \times 60}$$

Pressure

PSI X 2.31 = Feet WC

WC - Water Column

Vacuum

Hg X 1.1338 = 1 Ft. WC

Velocity

.408 X GPM / (P")2 = FPS

(P")2 - Pipe Radius in Inches Sq.

1 Gallon = 8.34 Pounds

1 Cubic Foot = 7.48 Gallons

CFS = GPM / 449

CONVERSIONS

LENGTH

1 Mile = 5,280 Feet
1 Mile = 1.609 Kilometers
1 Kilometer = .621 Miles
1 Yard = .9144 Meters
1 Meter = 3.28 Feet
1 Meter = 39.37 Inches
1 Foot = .3048 Meters
1 Inch = 2.54 Centimeters
1 Centimeter = .394 Inches
1 Fathom = 6 Feet
1 Rod = 5.5 Yards

WEIGHT

1 Ton = 2000 Pounds
1 Ton = 907.2 Kilograms
1 Kilogram = 2.205 Pounds
1 Pound = 453.6 Grams
1 Ounce = 28.35 Grams
1 Gram = .0353 Ounces

DRY VOLUME

1 Cu. Meter = 1.308 Cu. Yards
1 Cu. Meter = 35.31 Cu. Feet
1 Cu. Yard = .7646 Cu. Meters
1 Cu. Foot = .0283 Cu. Meters

LIQUID VOLUME

1 Gallon = 3.785 Liters
1 Liter = .2642 Gallons
1 Quart = .9463 Liters
1 Liter = 1.057 Quarts

POWER

1 Horsepower = 746 Watts
1 Hp. = 33000 Ft. Lbs./Min
1 BTU/Hour = .293 Watts
1 BTU = 252 Gram-Calories

ELECTRIC

Ohms = Volts/Amperes
DC Watts = Volts X Amperes

TEMPERATURE

Fahrenheit = Cent. X 1.8 + 32
Cent. = Fahrenheit - 32 / 1.8

SCANNED 8/19/2011 12:14 pm

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

CON 24-06

Application No.: 080924-14
General Permit No.: 36-03239-W

August 19, 2011

USEPPA UTILITY COMPANY INC
P O BOX 640
BOKEELIA, FL 33922

Dear Permittee:

SUBJECT: **General Water Use Permit No.:** 36-03239-W
Project: USEPPA UTILITY COMPANY
Location: LEE COUNTY, S9/T44S/R21E
Permittee: USEPPA UTILITY COMPANY INC

This letter is to notify you of the District's agency action concerning your Notice of Intent to Use Water. This action is taken pursuant to Chapter 40E-20, Florida Administrative Code (F.A.C.). Based on the information provided, District rules have been adhered to and a General Water Use Permit is in effect for this project subject to:

1. Not receiving a filed request for Chapter 120, Florida Statutes, administrative hearing and

2. The attached Limiting Conditions.

The purpose of this application is to obtain a Water Use Permit for public water supply for USEPPA Utility Company (USEPPA) serving 463 persons in the year 2031 with an average per capita use rate of 117 gallons per day. Withdrawals are from the Mid-Hawthorn aquifer via two existing withdrawal facilities. USEPPA proposes to continue to upgrade the reverse osmosis (RO) water treatment system and increase the efficiency. The project was previously permitted as a major general permit, but the permit was allowed to expire. Due to the proposed decrease in population and increase in efficiency of the RO system this permit will be issued as a minor general permit. Staff recommends issuance of the same permit number (36-03239-W) for file continuity.

SCANNED 8/19/2011 13:14 GP

Date Of Issuance: August 19, 2011

Expiration Date: August 19, 2031

Water Use Classification: Public Water Supply

Water Use Permit Status: Expired/Previously Permitted

Environmental Resource Permit Status: Not Applicable

Right Of Way Permit Status: Not Applicable.

Ground Water From: Mid-Hawthorn Aquifer

Permitted Allocation(s):

Annual Allocation:	19,772,400 Gallons
Maximum Monthly Allocation:	2,964,200 Gallons
Maximum Daily Allocation:	97,500 Gallons

Existing Withdrawal Facilities - Ground Water

Source: Mid-Hawthorn Aquifer

2 - 6" X 320' X 90 GPM Wells Cased To 280 Feet

Rated Capacity

Source(s)	Status Code	GPM	MGD	MGM	MGY
Mid-Hawthorn Aquifer	E	180	0.26	7.9	95
Totals:		**180**	**0.26**	**7.9**	**95**

SCANNED 8/19/2011 13:14:08

Should you object to the Limiting Conditions, please refer to the attached Notice of Rights which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have questions concerning this matter. If we do not hear from you prior to the time frame specified in the Notice of Rights, we will assume that you concur with the District's recommendations.

Certificate Of Service

I HEREBY CERTIFY that a Notice of Rights has been mailed to the addressee not later than 5:00 p.m. this 19th day of August, 2011, in accordance with Section 120.60(3), Florida Statutes.

Sincerely,

Thomas Colios
Section Leader
Water Use Regulation Division

TDC /lu

Enclosure

c: Lee County HRS

SCANNED 8/16/2011 13:14:45

Limiting Conditions

1. This permit shall expire on August 19, 2031.
2. Application for a permit modification may be made at any time.
3. Water use classification:

   Public water supply

4. Source classification is:

   Ground Water from:
   Mid-Hawthorn Aquifer

5. Annual allocation shall not exceed 19.7724 MG.

   Maximum monthly allocation shall not exceed 2.9642 MG.

6. Pursuant to Rule 40E-1.6105, F.A.C., Notification of Transfer of Interest in Real Property, within 30 days of any transfer of interest or control of the real property at which any permitted facility, system, consumptive use, or activity is located, the permittee must notify the District, in writing, of the transfer giving the name and address of the new owner or person in control and providing a copy of the instrument effectuating the transfer, as set forth in Rule 40E-1.6107, F.A.C.

   Pursuant to Rule 40E-1.6107 (4), until transfer is approved by the District, the permittee shall be liable for compliance with the permit. The permittee transferring the permit shall remain liable for all actions that are required as well as all violations of the permit which occurred prior to the transfer of the permit.

   Failure to comply with this or any other condition of this permit constitutes a violation and pursuant to Rule 40E-1.609, Suspension, Revocation and Modification of Permits, the District may suspend or revoke the permit.

   This Permit is issued to:

   USEPPA Utility Company
   3907 SW 1st Street
   Cape Coral, FL 33991

7. Withdrawal Facilities:

   Ground Water - Existing:

   2 - 6" X 320' X 90 GPM Wells Cased To 280 Feet

SCANNED 8/19/2011 13:14 pg

Limiting Conditions

8. Permittee shall mitigate interference with existing legal uses that was caused in whole or in part by the permittee's withdrawals, consistent with the approved mitigation plan. As necessary to offset the interference, mitigation will include pumpage reduction, replacement of the impacted individual's equipment, relocation of wells, change in withdrawal source, or other means.

   Interference to an existing legal use is defined as an impact that occurs under hydrologic conditions equal to or less severe than a 1 in 10 year drought event that results in the:

   (1) Inability to withdraw water consistent with provisions of the permit, such as when remedial structural or operational actions not materially authorized by existing permits must be taken to address the interference; or

   (2) Change in the quality of water pursuant to primary State Drinking Water Standards to the extent that the water can no longer be used for its authorized purpose, or such change is imminent.

9. Permittee shall mitigate harm to existing off-site land uses caused by the permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the permittee to modify withdrawal rates or mitigate the harm. Harm caused by withdrawals, as determined through reference to the conditions for permit issuance, includes:

   (1) Significant reduction in water levels on the property to the extent that the designed function of the water body and related surface water management improvements are damaged, not including aesthetic values. The designed function of a water body is identified in the original permit or other governmental authorization issued for the construction of the water body. In cases where a permit was not required, the designed function shall be determined based on the purpose for the original construction of the water body (e.g. fill for construction, mining, drainage canal, etc.)

   (2) Damage to agriculture, including damage resulting from reduction in soil moisture resulting from consumptive use; or

   (3) Land collapse or subsidence caused by reduction in water levels associated with consumptive use.

SCANNED 8/19/2011 13:14 GS

Limiting Conditions

10. Permittee shall mitigate harm to the natural resources caused by the permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the permittee to modify withdrawal rates or mitigate the harm. Harm, as determined through reference to the conditions for permit issuance includes:

    (1) Reduction in ground or surface water levels that results in harmful lateral movement of the fresh water/salt water interface,

    (2) Reduction in water levels that harm the hydroperiod of wetlands,

    (3) Significant reduction in water levels or hydroperiod in a naturally occurring water body such as a lake or pond,

    (4) Harmful movement of contaminants in violation of state water quality standards, or

    (5) Harm to the natural system including damage to habitat for rare or endangered species.

11. If any condition of the permit is violated, the permit shall be subject to review and possible modification, enforcement action, or revocation.

12. Authorized representatives of the District shall be permitted to enter, inspect, and observe the permitted system to determine compliance with special conditions.

13. The Permittee is advised that this permit does not relieve any person from the requirement to obtain all necessary federal, state, local and special district authorizations.

14. The permit does not convey any property right to the Permittee, nor any rights and privileges other than those specified in the Permit and Chapter 40E-2, Florida Administrative Code.

15. Permittee shall submit all data as required by the implementation schedule for each of the limiting conditions to: SFWMD, Regulatory Support Division, MSC 2420, P.O. Box 24680, West Palm Beach, FL 33416-4680.

16. In the event of a declared water shortage, water withdrawal reductions will be ordered by the District in accordance with the Water Shortage Plan, Chapter 40E-21, F.A.C. The Permittee is advised that during a water shortage, pumpage reports shall be submitted as required by Chapter 40E-21, F.A.C.

17. Pursuant to Subsection 373.243 (4), Florida Statutes, nonuse of the water supply for a period of two years or more at any time within the duration of the permit may result in the District revoking the permit in whole or in part, unless the Permittee can demonstrate that the Permittee's nonuse of water was due to extreme hardship caused by factors beyond the Permittee's control.

18. The Permittee shall notify the District within 30 days of any change in service area boundary. If the Permittee will not serve a new demand within the service area for which the annual allocation was calculated, the annual allocation may then be subject to modification and reduction.

SCANNED 9/15/2011 09:14:21 AM

Limiting Conditions

19. Public water utilities that control, either directly or indirectly, a wastewater treatment plant, and which have determined pursuant to Section 403.064, F.S., that use of reclaimed water is feasible, must provide the District with annual updates of the following information: (1) the status of distribution system construction, including location and capacity of lines; (2) a summary of uncommitted supplies for the next year; (3) copies of any new or amended local mandatory reclaimed water reuse zone ordinances; and (4) a list of end-users who have contracted to receive reclaimed water and the agreed upon quantity of water to be delivered.

SCANNED 9/19/2011 13:14 GP

NOTICE OF RIGHTS

As required by Sections 120.569(1), and 120.60(3), Fla. Stat., following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: 1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or 2) within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

Filing Instructions

The Petition must be filed with the Office of the District Clerk of the SFWMD. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** Any person wishing to receive a clerked copy with the date and time stamped must provide an additional copy. A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Any document received by the office of the SFWMD Clerk after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the SFWMD Clerk, P.O. Box 24680, West Palm Beach, Florida 33416.
- Filings by hand-delivery must be delivered to the Office of the SFWMD Clerk. **Delivery of a petition to the SFWMD's security desk does not constitute filing. To ensure proper filing, it will be necessary to request the SFWMD's security officer to contact the Clerk's office**. An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by facsimile must be transmitted to the SFWMD Clerk's Office at (561) 682-6010. Pursuant to Subsections 28-106.104(7), (8) and (9), Fla. Admin. Code, a party who files a document by facsimile represents that the original physically signed document will be retained by that party for the duration of that proceeding and of any subsequent appeal or subsequent proceeding in that cause. Any party who elects to file any document by facsimile shall be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed with the clerk as a result. The filing date for a document filed by facsimile shall be the date the SFWMD Clerk receives the complete document.

SCANNED 9/16/2011 13:17:14 PM

Initiation of an Administrative Hearing

Pursuant to Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 and 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other SFWMD identification number, if known.
2. The name, address and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose the extension. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

If the District takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

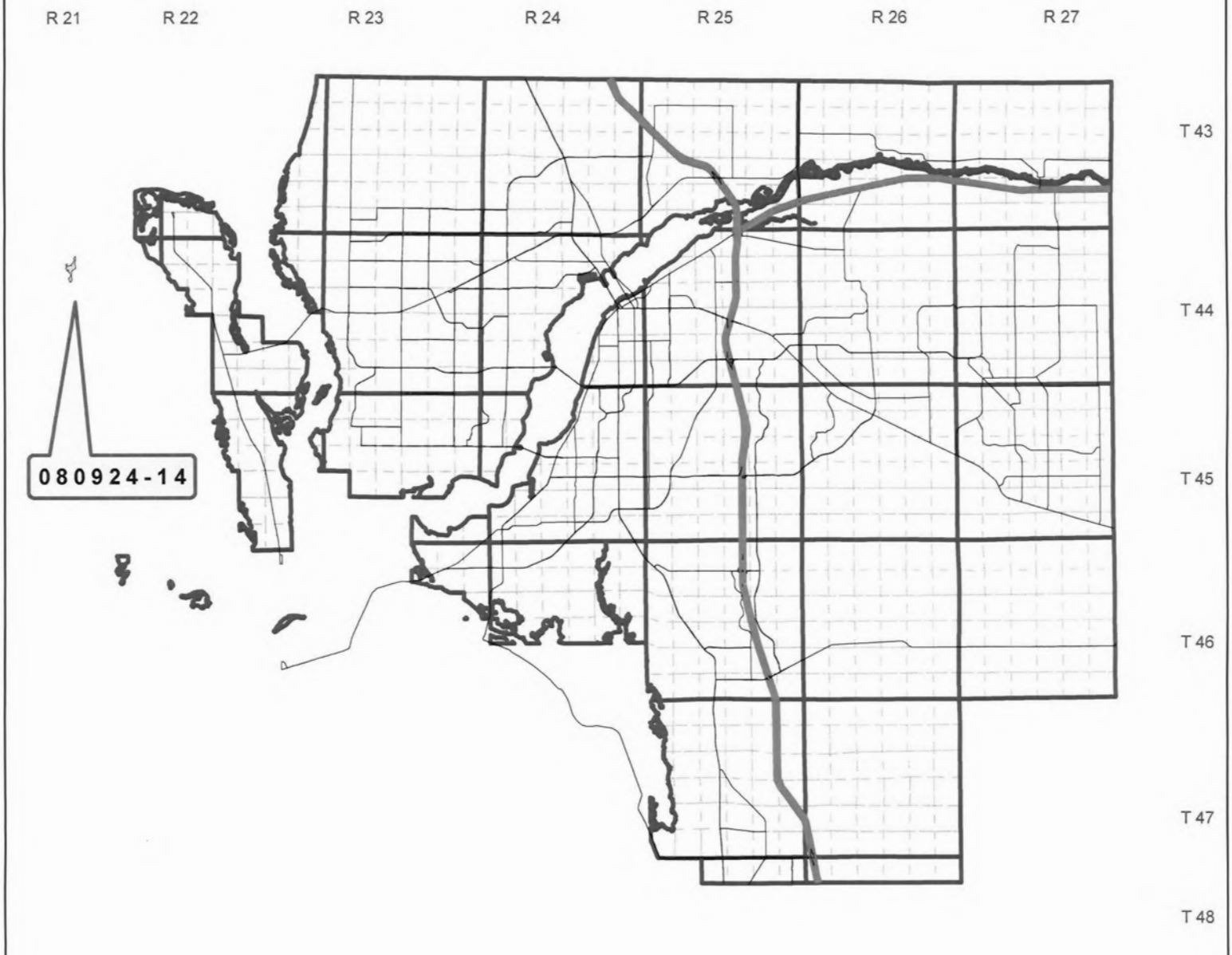
Mediation

The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401-.405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Sections 120.60(3) and 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

SCANNED 8/19/2011 13:16 GR



LEE COUNTY, FLORIDA

N

Application Number: 080924-14

Map Date: 2011-08-16

Permit Number: 36-03239-W

Sec 9 / Twp 44 / Rge 21

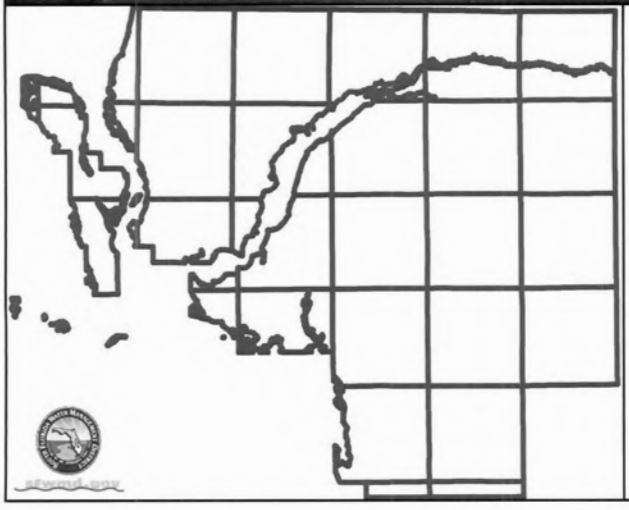
Project Name: USEPPA UTILITY COMPANY

0 34,500 69,000

Feet

Exhibit No: 1

SCANNED 8/19/2011 13:16 GR



LEE COUNTY, FLORIDA

Application

WELL

N

Map Date: 2011-08-17

Application Number: 080924-14

Permit Number: 36-03239-W

Sec 9 / Twp 44 / Rge 21

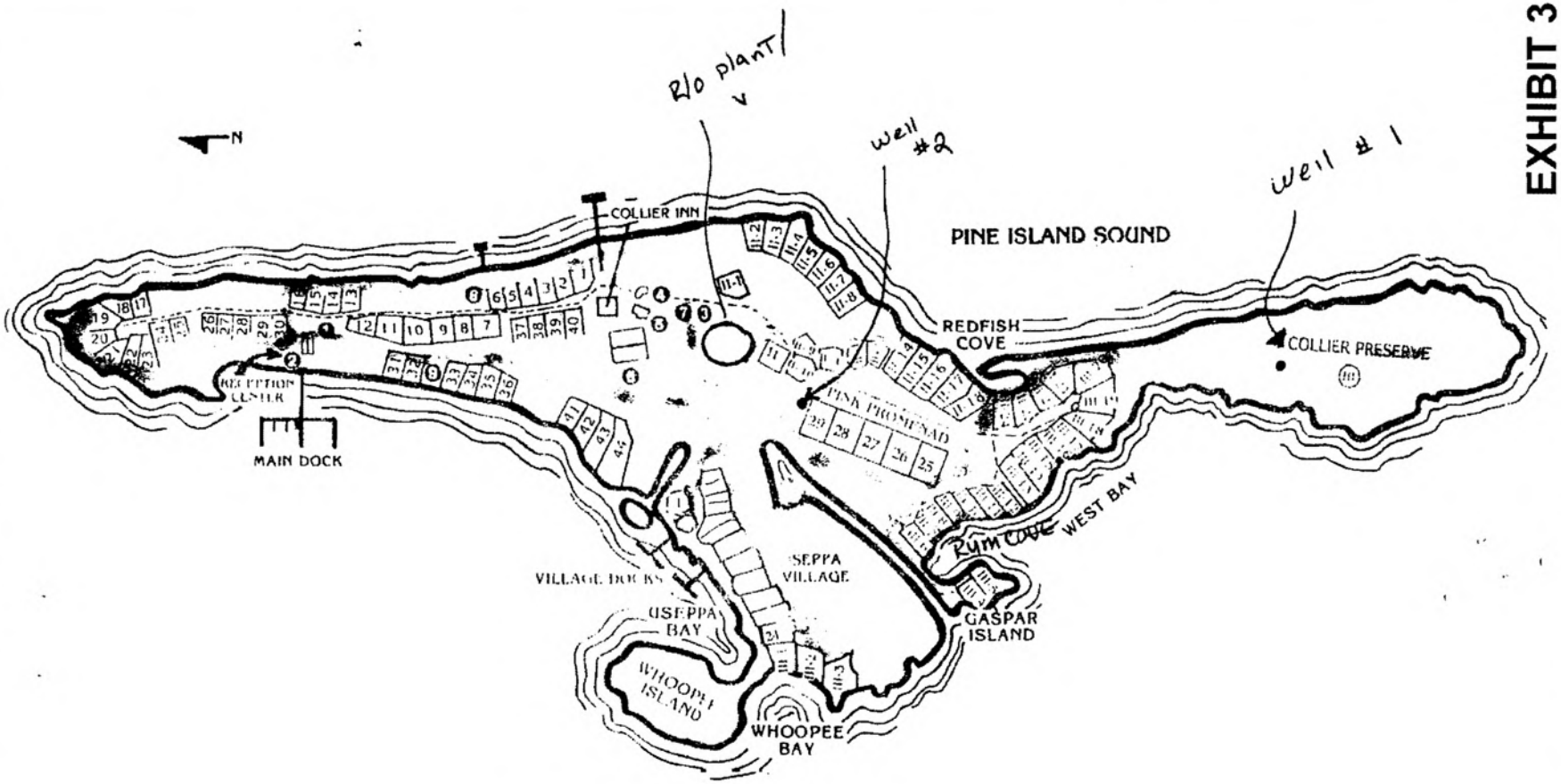
Project Name: USEPPA UTILITY COMPANY

0 0.125 0.25

Miles

Exhibit No: 2

EXHIBIT 3



1. RECEPTION CENTER, ADMINISTRATION, TARPON BAR, AND GENERAL STORE
2. BARBECUE AREA
3. HISTORICAL MUSEUM
4. SWIMMING POOL/SPA/SUN DECK
5. PRO SHOP
6. HAR TRU TENNIS COURTS
7. CROQUET COURTS
8. WHITE SAND BEACH
9. FITNESS CENTER
10. COLLIER PRESERVE
11. FIRE COMPANY RESIDENCE

USEPPA ISLAND CLUB

SCANNED 8/19/2011 13:17 GR

SCANNED 8/19/2011 13:17 GR

TABLE - A
Description Of Wells.

Application Number: 080924-14

Well ID	25277	25278	114685
Name	Well 1	Well 2 Abandoned	Well 2R (replace well 2)
Map Designator	Well 1	Well 2 Abandoned	Well 2R
FLUWID Number			
Well Field			
Existing/Proposed	E	E	E
Well Diameter(Inches)	6	4	6
Total Depth(feet)	320	300	320
Cased Depth(feet)	280	290	280
Facility Elev. (ft. NGVD)			
Screened Interval			
From	0	0	
To	0	0	
Pumped Or Flowing	P	P	P
Pump Type	centrifugal	centrifugal	centrifugal
Pump Int. Elev.			
Feet (NGVD)			
Feet (BLS)	110	0	110
Pump Capacity(GPM)	90	0	90
Year Drilled	1989	1989	2002
Planar Location			
Source	APPLICANT	APPLICANT	APPLICANT
Feet East	259848	259783	260209
Feet North	846032	847805	848157
Accounting Method	unspecified	unspecified	flow meter
Use Status	Secondary	Abandoned	Primary
Water Use Type	Public Water Supply	Public Water Supply	Public Water Supply
Aquifer	Mid-Hawthorn Aquifer	Mid-Hawthorn Aquifer	Mid-Hawthorn Aquifer

Exhibit No: 4

Summary Of Water Use Demands & Recommended Allocation Components

Application Number: 080924-14

Public Water Supply **Recommended Allocation (MGD):** 0.0542 **Recommended Maximum Month Withdrawals (MGM):** 2.9642

Description	Population	Rec. PCUR	<--------- Recommended Demands-- Avg. Daily MGD	Peak Factor	Max Monthly MGM	Delivery System Efficiency	<--------Recommended Alloca Daily MGD	Max. Monthly MGM
USEPPA ISLAND	463	117	0.0542	1.8	2.9642	100%	0.0542	2.9642

Exhibit No: 5

Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway, Suite 101
Temple Terrace, FL 33637-0926

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

November 6, 2017

Wendy Conn
8043 Cooper Creek Boulevard
Suite 201
University Park, Florida 34201
wconn@vhb.com

Re: Waters Creek Flood Control Project
ERP Site No. 41-0260401-001
Manatee County

Dear Ms. Conn:

The Department acknowledges receipt of your request for release from future monitoring and reporting of the mitigation site for the above-mentioned permit, received by the Department on October 24, 2017.

Based on the information provided in the above mentioned letter and the previously submitted mitigation reports, it was determined the site has met the permit requirements for the mitigation success criteria. Therefore, your request to for mitigation release has been **approved**.

The Department appreciates your efforts to monitor and maintain this site in compliance with state and federal rules. Should you have any questions or comments, please contact Andrea Grainger at (813) 470-5907, or via e-mail at: andrea.grainger@dep.state.fl.us.

Sincerely,

Michael Lynch
Environmental Administrator
Compliance Assurance Program
SWD District
Florida Department of Environmental Protection

ec: H. Clayton Robertson, VHB, crobertson@VHB.com

Attachment 4-4
Communication Date 07/07/23

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: USEPPA ISLAND
Contact person: KAREN HILLIER
PWS Identification number (PWS ID): 5360299
Contact phone number: service@useppa.com
Mailing address: PO BOX 640
City: BOKEELIA
State: FL Zip: 33922 Population served (not the number of "service connections"): 200

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☑ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on 03/22/2023 (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☑ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ✓ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☐ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☐ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☐ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

☐ A. We posted our CCR on this publicly accessible internet site: _____

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

Attachment 4-4
Communication Date 03/23/23

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement.
The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☑ F. Our CCR was posted in the following public locations:
POSTED IN ISLAND MAIL ROOM WITH ADDITIONAL COPIES

☐ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☑ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☑ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☑ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☐ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☐ Yes ☐ No ☑ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2022, and ending December 31, 2022,*** to its customers on 03/22/2023 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: Tonya Luning

NAME (please print): Tonya Luning

TITLE: Compliance Coordinator DATE: 03/23/2023

☑ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

Additional Health Information

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

(A) **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

(B) **Inorganic contaminants,** such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

(C) **Pesticides and herbicides,** which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

(D) **Organic chemical contaminants,** including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

(E) **Radioactive contaminants,** which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's **Safe Drinking Water Hotline at 1-800-426-4791.**

For Customers with Special Health Concerns

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. U.S. Environmental Protection Agency (EPA)/Center for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the

Source Water Assessment Plan

In 2022, the Department of Environmental Protection performed a Source Water Assessment on our system and a search of the data sources indicated five potential sources of contamination with low susceptibility levels. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at https://fldep.dep.state.fl.us/swapp/

How to Reach Us

If you have any questions about this report or concerning your water utility, please contact U.S. Water Services Corporation at (727) 848-8292. We encourage our valued customer to be informed about their water utility.

About Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Useppa Island is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Useppa Island Utilities

2022 Annual Drinking Water Quality Report

PWS ID # 5360299

We're pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the quality water and services we have delivered to you over the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water.

We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided in this report, please feel free to call any of the numbers listed.

We are pleased to report that our drinking water meets all federal and state requirements.

Where Your Water Comes From

Our water source consists of two ground water wells drawing from the Hawthorn Aquifer. Our water is aerated, filtrated using reverse osmosis and then treated with chlorine for disinfection purposes.

How We Ensure Your Drinking Water is Safe

We routinely monitor for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2022. Data obtained before January 1, 2022, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

As authorized and approved by the EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from one year to another. As a result some of our data is more than one year old.

2022 Water Quality Table – PWS No. 5360299

How to Read the Table

In the table, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions.

Action Level (AL): The concentration of contaminants which, if exceeded, triggers treatment or other requirements that a water system must follow.
Maximum contaminant level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
Maximum contaminant level goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
ND: Means not detected and indicates that the substance was not found by laboratory analysis.
ppm: parts per million or milligrams per liter is one part by weight of analyte to one million parts by weight of the water sample.
ppb: parts per billion or micrograms per liter is one part by weight of analyte to one billion parts by weight of the water sample.
pCi/l: picocuries per liter is a measure of the radioactivity in water.

Table Notes:

A. Results in the Level Detected column for radiological contaminants and inorganic contaminants are the highest detected level at any sampling point.

B. For chlorine, the level detected is the highest running annual average (RAA), computed quarterly, of monthly averages of all samples collected. The range of results is the range of results of all the individual samples collected during the past year. For Haloacetic Acids or TTHM, the level detected is the highest result of all samples taken during the year if the system monitors less frequently than quarterly. Range of Results is the range of individual sample results for all monitoring locations.

NON-SECONDARY CONTAMINANTS TABLE

Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
RADIOACTIVE CONTAMINANTS							
Radium 226+228 or combined radium (pCi/L)	08/2021	N	0.913	N/A	0	5	Erosion of natural deposits
INORGANICS CONTAMINANTS							
Barium (ppm)	08/2021	N	0.0013	N/A	2	2	Discharge from drilling wastes; discharge from metal refineries; erosion of natural deposits
Sodium (ppm)	08/2021	N	74.3	N/A	N/A	160	Salt water intrusion, leaching from soil

Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL or MRDL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
STAGE 1 DISINFECTANTS							
Chlorine (ppm)	Monthly 2022	N	1.9	1.2 – 2.5	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
STAGE 2 DISINFECTION BY-PRODUCTS							
Haloacetic Acids (five) (HAA5) (ppb)	08/2022	N	4.3	2.3 – 4.3	N/A	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	08/2022	N	16	5.3 - 16	N/A	MCL = 80	By-product of drinking water disinfection

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	AL Violation Y/N	90th Percentile Result	Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
LEAD AND COPPER (TAP WATER)							
Copper (tap water) (ppm)	08/2021	N	0.129	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	08/2021	N	5.7	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits

ATTACHMENT 5
UIP UTILITIES COMPANY LLC TARIFF SHEETS

GENERAL SERVICE

RATE SCHEDULE (GS)

AVAILABILITY - Available throughout the area served by the Company.

APPLICABILITY - For water service to all Customers for which no other schedule applies.

LIMITATIONS - Subject to all of the Rules and Regulations of this Tariff and General Rules and Regulations of the Commission.

BILLING PERIOD - Monthly

RATE -

Meter Sizes	Base Facility Charge
5/8" x 3/4"	$ 38.13
3/4"	$ 57.20
1"	$ 95.33
1 1/2"	$ 190.65
2"	$ 305.04
3"	$ 610.08
4"	$ 953.25
6"	$ 1,906.50
8"	$ 3,050.40
Charge per 1,000 gallons	$ 7.16

MINIMUM CHARGE - Base Facility Charge

TERMS OF PAYMENT - Bills are due and payable when rendered. In accordance with Rule 25-30.320, Florida Administrative Code, if a Customer is delinquent in paying the bill for water service, service may then be discontinued.

EFFECTIVE DATE - July 19, 2019

TYPE OF FILING - 2019 Price Index

GEORGE PRECKWINKLE
ISSUING OFFICER

MANAGER
TITLE

RESIDENTIAL SERVICE

RATE SCHEDULE (RS)

AVAILABILITY - Available throughout the area served by the Company.

APPLICABILITY - For water service for all purposes in private residences and individually metered apartment units.

LIMITATIONS - Subject to all of the Rules and Regulations of this Tariff and General Rules and Regulations of the Commission.

BILLING PERIOD - Monthly

RATE -

Meter Sizes	Base Facility Charge
5/8" x 3/4"	$ 38.13
3/4"	$ 57.20
1"	$ 95.33
1 1/2"	$ 190.65
2"	$ 305.04
3"	$ 610.08
4"	$ 953.25
6"	$ 1,906.50
8"	$ 3,050.40
Charge per 1,000 gallons	$ 7.16

MINIMUM CHARGE - Base Facility Charge

TERMS OF PAYMENT - Bills are due and payable when rendered. In accordance with Rule 25-30.320, Florida Administrative Code, if a Customer is delinquent in paying the bill for water service, service may then be discontinued.

EFFECTIVE DATE - July 19, 2019

TYPE OF FILING - 2019 Price Index

GEORGE PRECKWINKLE
ISSUING OFFICER

MANAGER
TITLE

FIRE PROTECTION SERVICE

RATE SCHEDULE (FS)

AVAILABILITY - Available throughout the area served by the Company.

APPLICABILITY - For water service for purposes of private fire protection.

LIMITATIONS - Subject to all of the Rules and Regulations of this Tariff and General Rules and Regulations of the Commission.

BILLING PERIOD - Monthly

RATE -

Meter Sizes	Base Facility Charge
2"	$ 25.42
3"	$ 50.84

MINIMUM CHARGE - The applicable base facility charge per month.

TERMS OF PAYMENT - Bills are due and payable when rendered. In accordance with Rule 25-30.320, Florida Administrative Code, if a Customer is delinquent in paying the bill for water service, service may then be discontinued.

EFFECTIVE DATE - July 19, 2019

TYPE OF FILING - 2019 Price Index

GEORGE PRECKWINKLE
ISSUING OFFICER

MANAGER
TITLE

GENERAL SERVICE

RATE SCHEDULE (GS)

AVAILABILITY - Available throughout the area served by the Company.

APPLICABILITY - For wastewater service to all Customers for which no other schedule applies.

LIMITATIONS - Subject to all of the Rules and Regulations of this Tariff and General Rules and Regulations of the Commission.

BILLING PERIOD - Monthly

RATE -

Meter Sizes	Base Facility Charge
5/8" x 3/4"	$ 52.68
3/4"	$ 79.02
1"	$ 131.70
1 1/2"	$ 263.40
2"	$ 421.44
3"	$ 842.88
4"	$ 1,317.00
6"	$ 2,634.00
8"	$ 4,214.40
Charge per 1,000 gallons	$ 14.28

MINIMUM CHARGE - Base Facility Charge

TERMS OF PAYMENT - Bills are due and payable when rendered. In accordance with Rule 25-30.320, Florida Administrative Code, if a Customer is delinquent in paying the bill for water service, service may then be discontinued.

EFFECTIVE DATE - July 19, 2019

TYPE OF FILING - 2019 Price Index

GEORGE PRECKWINKLE
ISSUING OFFICER

MANAGER
TITLE

RESIDENTIAL SERVICE

RATE SCHEDULE (RS)

AVAILABILITY - Available throughout the area served by the Company.

APPLICABILITY - For wastewater for all purposes in private residences and individually metered apartment units.

LIMITATIONS - Subject to all of the Rules and Regulations of this Tariff and General Rules and Regulations of the Commission.

BILLING PERIOD - Monthly

RATE -

Meter Sizes	Base Facility Charge
All meter sizes	$ 52.68
Charge per 1,000 gallons 6,000 gallon cap	$ 11.90

MINIMUM CHARGE - Base Facility Charge

TERMS OF PAYMENT - Bills are due and payable when rendered. In accordance with Rule 25-30.320, Florida Administrative Code, if a Customer is delinquent in paying the bill for water service, service may then be discontinued.

EFFECTIVE DATE - July 19, 2019

TYPE OF FILING - 2019 Price Index

GEORGE PRECKWINKLE
ISSUING OFFICER

MANAGER
TITLE