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# Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899

(352) 796-7211 or 1-800-423-1476 (FL only)

TDD only: 1-800-231-6103 (FL only)

On the Internet at [WaterMatters.org](http://WaterMatters.org)

**Bartow Service Office**  
170 Century Boulevard  
Bartow, Florida 33830-7700  
(863) 534-1448 or  
1-800-492-7862 (FL only)

**Sarasota Service Office**  
6750 Fruitville Road  
Sarasota, Florida 34240-9711  
(941) 377-3722 or  
1-800-320-3503 (FL only)

**Tampa Service Office**  
7601 Highway 301 North  
Tampa, Florida 33637-6759  
(813) 985-7481 or  
1-800-836-0797 (FL only)

September 25, 2012

Manatee County BOCC  
Attn: Mark Simpson  
4100 66<sup>th</sup> Street West  
Bradenton, FL 34210

**Subject:** Final Agency Action Transmittal Letter  
Individual Water Use Permit No. 20013343.000

Dear Mr. Simpson:

This Water Use Permit was approved by the District Governing Board subject to all terms and conditions set forth in the Permit.

Please be advised that the Governing Board has formulated a water shortage plan as referenced in Condition 15 of the Standard Water Use Permit Conditions (Exhibit A), and will implement such a plan during periods of water shortage. You will be notified during a declared water shortage of any change in the conditions of your Permit or any suspension of your Permit, or of any restriction on your use of water for the duration of any declared water shortage. Please further note that water conservation is a condition of your Permit and should be practiced at all times.

The well tags for your withdrawals will be applied by a District representative. If you have any questions or concerns regarding your tags, please contact Cheryl Johnson at extension 6518, in the Sarasota Regulation Department. If you have any questions or concerns regarding your permit or any other information, please contact the Tampa Service Office and ask to speak to someone in the Water Use Regulation Section.

Sincerely,

A handwritten signature in blue ink, appearing to read "Darrin Herbst".

Darrin Herbst, P.G.  
Water Use Permit Bureau Chief

Enclosures: Approved Permit  
cc: File of Record

**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT  
WATER USE  
INDIVIDUAL  
PERMIT NO. 20013343.000**

**PERMIT ISSUE DATE:** September 25, 2012

**EXPIRATION DATE:** September 25, 2032

The Permittee is responsible for submitting an application to renew this permit no sooner than one year prior to the expiration date, and no later than the end of the last business day before the expiration date, whether or not the Permittee receives prior notification by mail. Failure to submit a renewal application prior to the expiration date and continuing to withdraw water after the expiration date is a violation of Chapter 373, Florida Statutes, and Chapter 40D-2, Florida Administrative Code, and may result in a monetary penalty and/or loss of the right to use the water. Issuance of a renewal of this permit is contingent upon District approval.

**TYPE OF APPLICATION:** New

**GRANTED TO:** Manatee County BOCC  
4100 66<sup>th</sup> Street West  
Bradenton, FL 34210

**PROJECT NAME:** Manatee County Utilities Consolidated Permit

**WATER USE CAUTION AREA:** Southern - Most Impacted Area

<b>TOTAL QUANTITIES AUTHORIZED UNDER THIS PERMIT (in gallons per day)</b>	
<b>ANNUAL AVERAGE</b>	54,836,000 gpd
<b>PEAK MONTH<sup>1</sup></b>	70,374,000 gpd

<sup>1</sup> Average daily use during the highest water use month.

**ABSTRACT:** This is a new Water Use Permit for public supply that consolidates two existing facilities (Lake Manatee WUP 5387 and East County Wellfield WUP 7470) with a new conjunctive use facility in northern Manatee County designated the Buffalo Creek Wellfield. The authorized quantities shown above include 3.95 million gallons per day (MGD) in new quantities at the Buffalo Creek Wellfield, and existing permitted quantities of 34.9 MGD at Lake Manatee and 15.986 MGD at the East County Wellfield. The new quantities at the Buffalo Creek Wellfield, which is located in the Most Impacted Area (MIA) of the Southern Water Use Caution Area, are supported by providing offsets elsewhere within the MIA as a Net Benefit to the resource. The total permitted quantity of 54.836 MGD is based on a projected population of 433,326 by 2032, an adjusted per capita rate of 106 gpcd, and wholesale contracts with Bradenton, Longboat Key, and Palmetto. This Permittee utilizes surface water from Lake Manatee to meet the majority of its potable demand, and currently supplies approximately 14 MGD in reclaimed water to agricultural, recreational and residential customers in the county.

Special Conditions include those that require the Permittee to report monthly meter readings; monitoring of water levels and water quality at each facility; submittal of an annual public supply water use report; submittal of annual environmental and operational reports for each facility; maintenance of a water-conserving rate structure; compliance with the per capita rate; annual updates of groundwater offsets in support of the Net Benefit process; and compliance with SWUCA recovery goals.

**WATER USE TABLE (in gpd)**

<b>Use</b>	<b>Standard Annual Average</b>	<b>Peak Month</b>
Public Supply	54,836,000	70,374,000

**Use Type**

- Residential Single Family
- Residential Multi-Family
- Commercial/Industrial Fire Fighting/Testing
- Other Metered Uses
- Treatment Losses
- Unaccounted Use

<b>SERVICE AREA NAME</b>	<b>POPULATION SERVED</b>	<b>PER CAPITA RATE</b>
Manatee County Utilities Consolidated Permit	433,326	106

**WITHDRAWAL POINT QUANTITY TABLE**

Water use from these withdrawal points is restricted to the quantities given below:

<b>I.D. NO. DISTRICT/ PERMITTEE</b>	<b>DIAM. (IN.)</b>	<b>DEPTH TTL./CSD.FT. (feet bls)</b>	<b>USE</b>	<b>GALLONS PER DAY</b>	
				<b>AVERAGE</b>	<b>PEAK MONTH</b>
1 / A-BAS	48	N/A	Public Supply	34,900,000	46,068,000
2 / B-BAS	42	N/A	Standby	34,900,000	46,068,000
3 / B-1	16	700 / 390	Repump (ASR)	1,440,000	1,440,000
4 / B-2	16	702 / 398	Repump (ASR)	2,000,000	2,000,000
9 / B-3	16	700 / 400	Repump (ASR)	2,000,000	2,000,000
10 / B-4	16	700 / 400	Repump (ASR)	2,000,000	2,000,000
11 / B-5	16	700 / 400	Repump (ASR)	2,000,000	2,000,000
12 / B-6	16	700 / 400	Repump (ASR)	2,000,000	2,000,000
128 / ECW-1	20	1,250 / 500	Public Supply	2,283,700	2,908,000
129 / ECW-2	20	1,250 / 210	Public Supply	2,283,700	2,908,000
130 / ECW-3	20	1,250 / 500	Public Supply	2,283,700	2,908,000
131 / ECW-4	20	1,250 / 500	Public Supply	2,283,700	2,908,000
132 / ECW-5	20	1,250 / 500	Public Supply	2,283,700	2,908,000
133 / ECW-6	20	1,250 / 500	Public Supply	2,283,700	2,908,000
134 / ECW-7	20	1,250 / 500	Public Supply	2,283,800	2,908,000
201 / BCWUF-1	16	650 / 325	Public Supply	446,000	446,000
202 / BCWUF-2	16	650 / 325	Public Supply	446,000	446,000
203 / BCWUF-3	16	650 / 325	Public Supply	446,000	446,000
204 / BCWUF-4	16	650 / 325	Public Supply	446,000	446,000
205 / BCWUF-5	16	650 / 325	Public Supply	446,000	446,000
211 / BCWI-1	12	300 / 150	Public Supply	215,000	215,000
212 / BCWI-2	12	300 / 150	Public Supply	215,000	215,000
213 / BCWI-3	12	300 / 150	Public Supply	215,000	215,000
214 / BCWI-4	12	300 / 150	Public Supply	215,000	215,000
215 / BCWI-5	12	300 / 150	Public Supply	215,000	215,000
216 / BCWI-6	12	300 / 150	Public Supply	215,000	215,000
217 / BCWI-7	12	300 / 150	Public Supply	215,000	215,000
218 / BCWI-8	12	300 / 150	Public Supply	215,000	215,000

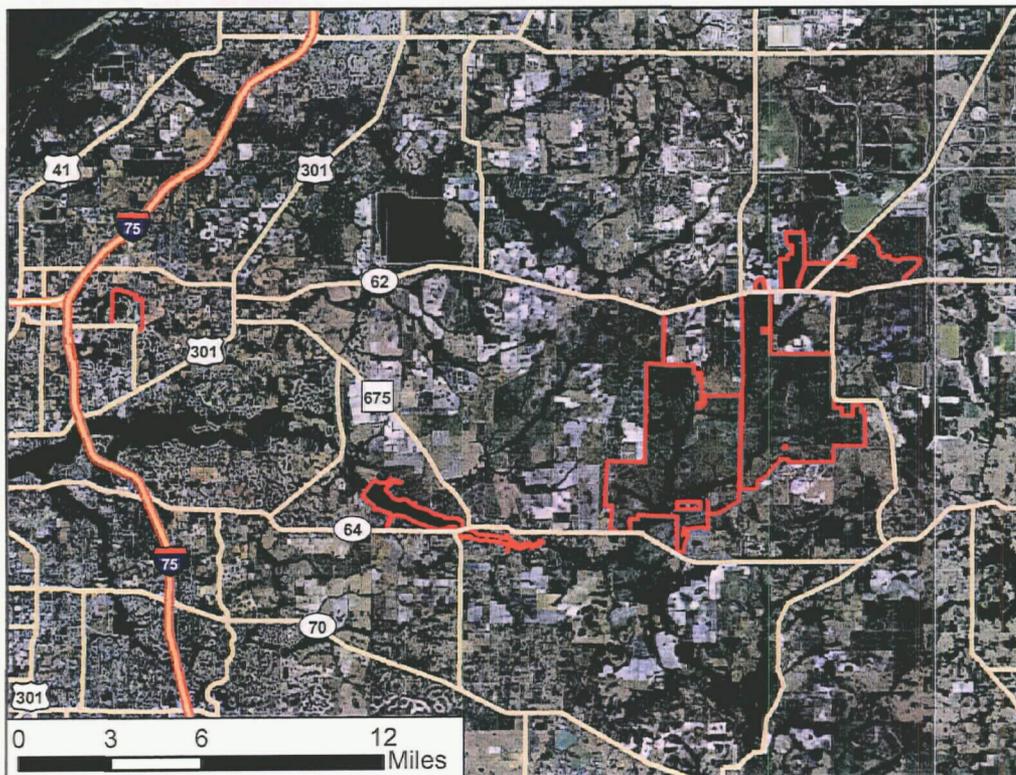
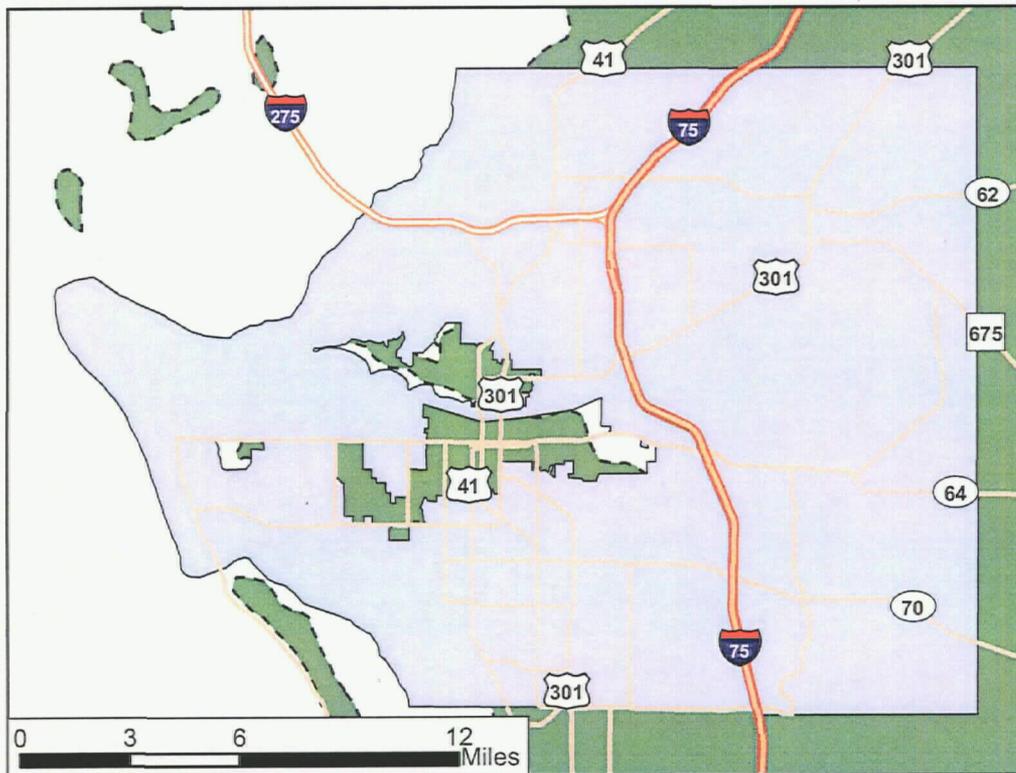
**WITHDRAWAL POINT LOCATION TABLE**

<b>DISTRICT I.D. NO.</b>	<b>LATITUDE/LONGITUDE</b>	<b>SECTION/TOWNSHIP/RANGE</b>
1	272937.33/822113.66	25/34/19
2	272928.18/822113.26	25/34/19
3	272921.63/822125.36	25/34/19
4	272915.50/822118.62	25/34/19
9	272915.41/822111.81	25/34/19
10	272910.19/822106.25	30/34/20
11	272908.35/822113.07	25/34/19
12	272903.43/822108.10	25/34/19
128	273241.82/820741.80	08/34/22
129	273232.55/820754.23	08/34/22
130	273230.82/820733.48	08/34/22
131	273214.02/820803.86	08/34/22
132	273214.79/820747.12	08/34/22
133	273127.34/821034.96	11/34/21
134	273101.28/821036.63	08/34/22
201	273552.26/822902.63	27/33/18
202	273444.58/822903.61	27/33/18
203	273429.37/822900.99	27/33/18
204	273435.08/822827.65	26/33/18
205	273423.11/822834.71	26/33/18
211	273500.13/822902.59	27/33/18
212	273451.29/822914.05	27/33/18
213	273438.55/822903.65	27/33/18
214	273428.07/822913.96	26/33/18
215	273435.70/822842.07	26/33/18
216	273426.95/822839.74	26/33/18
217	273443.04/822827.61	26/33/18
218	273425.82/822827.69	27/33/18

# Location Map

## Manatee County Utilities Consolidated Permit

### WUP No. 20 013343.000



**Legend**

WUP Facilities

**MANATEE COUNTY**

Southwest Florida  
 Water Management District

**STANDARD CONDITIONS:**

The Permittee shall comply with the Standard Conditions attached hereto, incorporated herein by reference as Exhibit A and made a part hereof.

**SPECIAL CONDITIONS:**

1. The total quantities in gallons per day authorized under this permit for each facility on both an annual average daily (AAD) and peak month daily (PMD) basis are set forth below (990):

Lake Manatee	34,900,000 gpd AAD	46,068,000 gpd PMD
East County Wellfield	15,986,000 gpd AAD	20,356,000 gpd PMD
Buffalo Creek Wellfield	3,950,000 gpd AAD	3,950,000 gpd PMD

2. All reports and data required by condition(s) of the permit shall be submitted to the District according to the due date(s) contained in the specific condition. If the condition specifies that a District-supplied form is to be used, the Permittee should use that form in order for their submission to be acknowledged in a timely manner. The only alternative to this requirement is to use the District Permit Information Center ([www.swfwmd.state.fl.us/permits/epermitting/](http://www.swfwmd.state.fl.us/permits/epermitting/)) to submit data, plans or reports online. There are instructions at the District website on how to register to set up an account to do so. If the report or data is received on or before the tenth day of the month following data collection, it shall be deemed as a timely submittal.

All mailed reports and data are to be sent to:

Southwest Florida Water Management District  
Tampa Service Office, Water Use Permit Bureau  
7601 U.S. Hwy. 301 North  
Tampa, Florida 33637-6759

Submission of plans and reports: Unless submitted online or otherwise indicated in the special condition, the original and two copies of each plan and report, such as conservation plans, environmental analyses, aquifer test results, per capita annual reports, etc. are required.

Submission of data: Unless otherwise indicated in the special condition, an original (no copies) is required for data submittals such as crop report forms, meter readings and/or pumpage, rainfall, water level evapotranspiration, or water quality data. (499)

3. The following proposed withdrawal facilities shall be metered within 90 days of completion of construction of the facilities:

**District ID Nos. 202, 203, 204, 205, 211, 212, 213, 214, 215, 216, 217 and 218, Permittee ID Nos. BCWUF-2, BCWUF-3, BCWUF-4, BCWUF-5, BCWI-1, BCWI-2, BCWI-3, BCWI-4, BCWI-5, BCWI-6, BCWI-7 and BCWI-8** at the Buffalo Creek Wellfield.

Meter reading and reporting, as well as meter accuracy checks every five years shall be in accordance with instructions in Exhibit B, Metering Instructions, attached to and made part of this permit. (718)

4. The following existing withdrawal facilities shall continue to be maintained and operated with existing, non-resettable, totalizing flow meter(s) or other measuring device(s) as approved by the Water Use Permit Bureau Chief:

- a. **District ID Nos. 1 and 2, Permittee ID Nos. A-BAS and B-BAS**, which measure raw water intake from the Lake Manatee reservoir.
- b. **District ID Nos. 3, 4, 9, 10, 11 and 12, Permittee ID Nos. B-1, B-2, B-3, B-4, B-5 and B-6**, which measure recharge and recovery at the Lake Manatee facility's ASR wells.
- c. **District ID No. 5, Permittee ID No. TOT-FIN**, which measures the total flow of treated water from the Lake Manatee Water Treatment Plant's four discharge points to the service area transmission lines.
- d. **District ID No. 6., Permittee ID No. TOT-RAW**, which measures the total flow of raw water into the Lake Manatee Water Treatment Plant from the ASR wells, the East County Wellfield, the Lake Manatee reservoir, and the IMC Wellfield (WUP 7345).
- e. **District ID Nos. 128, 129, 130, 131, 132, 133 and 134, Permittee ID Nos. ECW-1, ECW-2, ECW-3, ECW-4, ECW-5, ECW-6 and ECW-7**, which measure groundwater withdrawals at the East County Wellfield.

Meter reading and reporting, as well as meter accuracy checks every five years shall be in accordance with instructions in Exhibit B, Metering Instructions, attached to and made part of this permit. (719)

5. The following existing, but previously un-metered withdrawal facilities shall be metered upon permit issuance:

**District ID No. 201, Permittee ID No. BCWUF-1** at the Buffalo Creek Wellfield.

Meter reading and reporting, as well as meter accuracy checks every five years shall be in accordance with instructions in Exhibit B, Metering Instructions, attached to and made part of this permit. (720)

6. This permit shall be modified if an additional source of water is provided for public supply use from a separate entity. This includes additional Alternative Water Supply quantities and irrigation water for lawn/landscape and common areas. The Permittee shall notify the District of the additional water source and submit an application to modify the permit to acknowledge receipt. (68)
7. The District reserves the right to set chloride, sulfate or TDS concentration limits on any production well in the future, based on data collected and after a sufficient data base has been established to determine limits. These limits shall be required after discussions with the Permittee. At such time as the concentration in any water sample reaches or exceeds the designated concentration limits, the Permittee shall take appropriate action to reduce concentrations to below those set for the particular well. If the District determines that long-term upward trends or other significant water quality changes are occurring, the District may reconsider the quantities permitted. (276)
8. Prior to submission of a formal application for new quantities of groundwater of 500,000 gpd annual average quantities or greater, the Permittee shall investigate the feasibility of desalination to provide all or a portion of the requested quantities, and to implement desalination if feasible. This report shall include a detailed economic analysis of desalination, including disposal costs, versus development of fresh water supplies, including land acquisition and transmission costs. (456)
9. Any wells not in use, and in which pumping equipment is not installed, shall be capped or valved in a watertight manner in accordance with Chapter 62-532.500(3)(a)(4), F.A.C. (568)
10. Beginning January 1, 2012, the Permittee shall comply with the following requirements:
  - A. Customer billing period usage shall be placed on each utility-metered, customer's bill.
  - B. Meters shall be read and customers shall be billed no less frequently than bi-monthly.

- C. The following information, as applicable to the customer, shall be provided at least once each calendar year and a summary of the provisions shall be provided to the District annually as described in Section D, below. The information shall be provided by postal mailings, bill inserts, online notices, on the bill or by other means. If billing units are not in gallons, a means to convert the units to gallons must be provided.
1. To each utility-metered customer in each customer class – Information describing the rate structure and shall include any applicable:
    - a. Fixed and variable charges,
    - b. Minimum charges and the quantity of water covered by such charges,
    - c. Price block quantity thresholds and prices,
    - d. Seasonal rate information and the months to which they apply, and
    - e. Usage surcharges
  2. To each utility-metered single-family residential customer - Information that the customer can use to compare its water use relative to other single-family customers or to estimate an efficient use and that shall include one or more of the following:
    - a. The average or median single-family residential customer billing period water use calculated over the most recent three year period, or the most recent two year period if a three year period is not available to the utility. Data by billing period is preferred but not required.
    - b. A means to calculate an efficient billing period use based on the customer's characteristics, or
    - c. A means to calculate an efficient billing period use based on the service area's characteristics.
- D. Annual Report: The following information shall be submitted to the District annually by **October 1** of each year of the permit term to demonstrate compliance with the requirements above. The information shall be current as of the October 1 submittal date.
1. Description of the current water rate structure (rate ordinance or tariff sheet) for potable and non-potable water.
  2. Description of the current customer billing and meter reading practices and any proposed changes to these practices (including a copy of a bill per A above).
  3. Description of the means the permittee uses to make their metered customers aware of rate structures, and how the permittee provides information their metered single-family residential customers can use to compare their water use relative to other single-family customers or estimate an efficient use (see C 1 & 2 above). (592)
11. The Permittee shall maintain a water conserving rate structure for the duration of the permit term. Any changes to the water conserving rate structure described in the application shall be described in detail as a component of the next Annual Report on Water Rate, Billing and Meter Reading Practices of the year following the change. (659)
12. The compliance per capita daily water use rate shall be no greater than 106 gallons per day (gpd). The Permittee shall calculate the compliance per capita rate as described in the Annual Report Condition on this permit and shall submit the calculations with the Water Use Annual Report by April 1 of each year.
- If the compliance per capita rate is greater than 106 gpd, the Permittee shall submit a report that documents why this rate was exceeded, measures previously or currently taken to reduce their compliance per capita rate, and a plan that describes additional measures and implementation dates for those measures to bring their compliance per capita rate to or below 106 gpd. This report shall be submitted with the Water Use Annual Report by April 1 for each year the compliance per capita rate exceeds 106 gpd. This report is subject to District approval. Justification for exceeding the adjusted gross per capita rate does not constitute a waiver of the District's authority to enforce the terms and conditions of the permit. (767)
13. The Permittee shall submit a "Water Use Annual Report" to the District by April 1 of each year on their water use during the preceding calendar year using the form, "Public Supply Water Use Annual Report Form" (Form No. LEG-R.023.00 (09/09)), referred to in this condition as "the Form," and all required attachments and documentation. The Permittee shall adhere to the "Annual report Submittal Instructions" attached to and made part of this condition in Exhibit B. The Form addresses the following components in separate sections.

**Per Capita Use Rate**

A per capita rate for the previous calendar year will be calculated as provided in Part A of the Form using Part C of the Form to determine Significant Use deduction that may apply. Permittees that cannot achieve a per capita rate of 150 gpd according to the time frames included in the "Instructions for Completion of the Water Use Annual Report," shall include a report on why this rate was not achieved, measures taken to comply with this requirement, and a plan to bring the permit into compliance.

**Residential Use**

Residential use shall be reported in the categories specified in Part B of the Form, and the methodology used to determine the number of dwelling units by type and their quantities used shall be documented in an attachment.

**Non-Residential Use**

Non-residential use quantities provided for use in a community but that are not directly associated with places of residence, as well as the total water losses that occur between the point of output of the treatment plant and accountable end users, shall be reported in Part B of the Form.

**Water Conservation**

In an attachment to the Form, the Permittee shall describe the following:

1. Description of any ongoing audit program of the water treatment plant and distribution systems to address reductions in water losses.
2. An update of the water conservation plan that describes and quantifies the effectiveness of measures currently in practice, any additional measures proposed to be implemented, the scheduled implementation dates, and an estimate of anticipated water savings for each additional measure.
3. A description of the Permittees implementation of water-efficient landscape and irrigation codes or ordinances, public information and education programs, water conservation incentive programs, identification of which measures and programs, if any, were derived from the Conserve Florida Water Conservation Guide, and provide the projected costs of the measures and programs and the projected water savings.

**Water Audit**

If the current water loss rate is greater than 10% of the total distribution quantities, a water audit as described in the "Instructions for Completion of the Water Use Annual Report" shall be conducted and completed by the following July 1, with the results submitted by the following October 1. Indicate on Part A of the Form whether the water audit was done, will be done, or is not applicable.

**Alternative Water Supplied Other Than Reclaimed Water**

If the Permittee provides Alternative Water Supplies other than reclaimed water (e.g., stormwater not treated for potable use) to customers, the information required on Part D of the Form shall be submitted along with an attached map depicting the areas of current Alternative Water Use service and areas that are projected to be added within the next year.

**Suppliers of Reclaimed Water**

1. Permittees having a wastewater treatment facility with an annual average design capacity equal to or greater than 100,000 gpd:  
The Permittee shall submit the "SWFWMD Annual Reclaimed Water Supplier Report" on quantities of reclaimed water that was provided to customers during the previous fiscal year (October 1 to September 30). The report shall be submitted in Excel format on the Compact Disk, Form No. LEG-R.026.00 (05/09), that will be provided annually to them by the District. A map depicting the area of reclaimed water service that includes any areas projected to be added within the next year, shall be submitted with this report.
2. Permittees that have a wastewater treatment facility with an annual average design capacity less than 100,000 gpd:
  - a. The Permittee has the option to submit the "SWFWMD Annual Reclaimed Water Supplier Report," Form No. LEG-R.026.00, as described in sub-part (1) above, or
  - b. Provide information on reclaimed water supplied to customers on Part E of the Form as described in the "Instructions for Completion of the Water Use Annual Report".

**Updated Service Area Map**

If there have been changes to the service area since the previous reporting period, the Permittee shall update the service area using the map that is maintained in the District's Mapping and GIS system. (660)

14. The Permittee shall submit the analyses and summaries listed below:

**Population Growth**

By September 25, 2022, the permittee shall submit analyses and summaries of the long-term trends over the portion of the permit term that has elapsed, and through the remaining term of the permit, that address population growth based on the District's BEBR medium based GIS model or equivalent methodology approved by the District, non-population based factors such as large industrial or other uses, other water demand, and per capita use.

If the demands through September 25, 2022 are less than 90% of the projected demands reflected in the permit for that period or for the remainder of the term of the permit, the permittee shall demonstrate a legal, technical or other type of hardship as to why the permitted demand should not be reduced to an allocation based on actual demands experienced through the reporting period and demands projected through the remaining term of the permit. Within 90 days of a District notification to the permittee that the demonstration was not made, the permittee shall submit a request to modify the permit allocation consistent with actual and projected demands.

**Adverse Impacts Indicated**

At any time during the permit term, if data indicate adverse impacts to environmental or other water resource, offsite land use or a legal existing use, non-compliance with a minimum flow or level or associated recovery or prevention strategy, or interference with a reservation, or where data indicate the impacts predicted at the time of permit issuance were underestimated to the degree that the previous analysis is inadequate, the District shall notify the Permittee that an updated groundwater modeling analysis and data analysis is required. The updated groundwater modeling analysis and data analysis shall address compliance with all conditions of issuance pursuant to Rule 40D-2.301, F.A.C. The Permittee shall submit the updated impact analysis and data analysis within 60 days of notification.

**Time-Specified Conditions Met**

If the 10-year criteria that qualified the permittee for a 20-year permit are not achieved, the permit duration shall revert to the applicable duration provided in section 40D-2.321, unless this reversion would put the permit in an expired status or with less than a year of remaining duration. In such cases, the permit will expire one year following the final determination of non-achievement and will be limited to a permitted quantity that equals an additional two years future demand beyond current demand, as determined pursuant to section 3.0 of Part B, Basis of Review, of the Water Use Permit Information Manual from the point of final determination of non-achievement. The time-specified requirement conditions are those entitled:

- a. **AWS Supply** – 75% of the total annual average water needs are met using Alternative Water Supplies
- b. **Compliance Per Capita** - Maintenance of a compliance per capita rate of less than 110 gallons per day
- c. **Beneficial Reuse** – System-wide beneficial reuse of at least 75% of the Permittee's treated domestic wastewater, including imports and exports, and at least 75% of the beneficially-used reclaimed water replaces existing and planned traditional, potable quality water supplies. (765)

15. Permittees having their own wastewater treatment plant that generate at least advanced-secondary treated effluent (high-level disinfection, as described in Rule 62-600.440(5), F.A.C.) to the minimum FDEP requirements for public access reuse shall respond in a timely manner to inquiries about availability from water use permit applicants for water uses where such reclaimed water is appropriate. If reclaimed water is or will be available to that permit applicant within the next six years, the Permittees shall provide a cost estimate for connection to the applicant. (674)

16. This Permit is located within the Southern Water Use Caution Area (SWUCA). Pursuant to Section 373.0421, Florida Statutes, the SWUCA is subject to a minimum flows and levels recovery strategy, which became effective on January 1, 2007. The Governing Board may amend the recovery strategy, including amending applicable water use permitting rules based on an annual assessment of water resource criteria, cumulative water withdrawal impacts, and on a recurring five-year evaluation of the status of the recovery strategy up to the year 2025 as described in Chapter 40D-80, Florida Administrative Code. This Permit is subject to modification to comply with new rules. (652)

#### LAKE MANATEE

17. The District anticipates establishment of minimum flows for the Manatee River system during the term of this permit. If during the course of consideration of minimum flows for the Manatee River it is determined that additional hydrologic, biological or chemical data is needed in order to assess minimum flows, the District and the Permittee shall work collaboratively to achieve a mutually acceptable data collection program. Should a mutually acceptable plan not be accomplished, the District may require modification of this permit.

Once minimum flows are established, this water use permit may be subject to additional comprehensive review by the District during the term of the permit. The decision as to the need for further modification or review of the permit shall be made by the District after adoption of minimum flows for the Manatee River system. (357)

18. The Permittee shall continue to measure daily flow through the tainter gates in the Lake Manatee reservoir spillway. Data shall be recorded on a daily basis and reported to the District on or before the 10<sup>th</sup> day of the following month. Daily cumulative volume in gallons per day, and daily average flow in cubic feet per second, shall be submitted, and shall be referenced as District ID No. 7, Permittee ID No. LM-DISCH.

The Permittee shall continue to monitor and record daily lake stage levels referenced to National Geodetic Vertical Datum in the Lake Manatee reservoir. The data shall be reduced to both daily and monthly minimum, maximum and average values, and be reported to the District on or before the 10<sup>th</sup> day of the following month. The data submitted shall be referenced as District ID No. 8, Permittee ID No. LM-ELEV. (671)

19. *Until such time as the District establishes minimum flows for the Manatee River, the Permittee shall maintain a minimum daily discharge of 0.425 cfs (275,000 gpd) through the tainter gates in the Lake Manatee reservoir spillway. If the maximum daily conductivity as measured at the Rye Bridge monitoring station exceeds 1000 umhos, then the release from Lake Manatee reservoir the following day shall be increased to a minimum flow of 1.0 cfs (646,300 gpd) through the tainter gates. The additional release shall be maintained at the daily rate of 1.0 cfs until such time as the maximum daily conductivity values measured at Rye Bridge at noon return to less than 1000 umhos. This additional release shall not be required if the minimum stage of the reservoir is less than 30.0 ft NGVD. Only release through the tainter gates shall be credited to maintenance of the required minimum flows.* (358)

20. The Permittee shall continue its cooperative program with the United States Geological Survey for maintenance of the existing continuous recording Streamflow Gauging Station No. 02299950 on the Manatee River at State Road 64 (Latitude 272824, Longitude 821241). In the event the USGS no longer maintains this streamflow gauging station, the Permittee shall immediately become responsible for its maintenance and for the continued recording and reporting of streamflow values to the District. The Permittee shall coordinate with the USGS and immediately assume the reporting duties to ensure that there is no interruption in the data collection should the USGS fail to maintain the station. If the Permittee does become responsible for maintenance of the streamflow gauging equipment and for the recording and reporting of streamflow values to the District, the data shall continue to be presented as it is currently done by the USGS. At such time, the data shall be referenced as District ID No. 54, Permittee ID No. USGS-MH. (990)

21. The Permittee shall continue to maintain the conductivity meter which is located at the Rye Bridge crossing of the Manatee River to monitor and record the displacement of the salinity wedge in the Manatee River as determined by a 1000 umhos conductivity reading at the bottom of the river. Daily maximum and daily minimum conductivity, corrected to 25° C, shall be recorded and submitted to the District on or before the 10<sup>th</sup> day of the following month. The conductivity meter shall be referenced as District ID No. 55, Permittee ID No. RYE-COND.

The Permittee will continue to sponsor the operation of two existing continuous conductivity recorders in the Manatee River, located downstream of the dam at Devil's Elbow (USGS Station No. 2300009) and Fort Hamer (USGS Station No. 2300021). Each recorder shall measure water levels in the river and the specific conductance at the top and the bottom of the river. Data should be recorded in fifteen minute intervals, collected by the USGS and entered into their database where it can be accessed by the District and the County. (750)

22. The Permittee shall submit an Annual Reservoir Report that is a comprehensive but concise assessment of the water resources of the Lake Manatee Reservoir area based on the subject areas listed below. This report shall concisely summarize the elements listed below, with emphasis on the interactions between these elements, where appropriate. Data sources shall be referenced, but no raw data shall be included in the report. Only essential text, graphs, and tables should be included in the report. Reports shall be submitted to the Water Use Permit Bureau by August 1 of each year. Any color part of the report that is scanned shall be scanned in color. The report shall cover all activities and conditions pertaining to the Lake Manatee Reservoir area for the preceding calendar year (January 1 to December 31). The specific elements of this report are listed below:

**Water Use**

Withdrawal quantities from Lake Manatee for the preceding calendar year shall be summarized for the annual reporting period. The report shall describe in detail the steps taken by the Permittee to maximize the use of surface water from Lake Manatee in order to meet the public supply demands of Manatee County prior to activating the groundwater quantities authorized by this permit.

**ASR Operation**

A copy of the ASR Annual Report submitted to FDEP each August under the most current Lake Manatee, Class V, Group 7, Aquifer Storage and Recovery System Permit shall be included with the Annual Reservoir Report.

**Data Analysis**

Data analysis shall consist of tabulation of all data required by this permit for spillway flow, daily lake stage, stream flow gauging, and conductivity at the Lake Manatee Reservoir. This data shall be summarized for the annual reporting period and the period of record along with computed averages, means, and other statistical analyses necessary to illustrate basic trends. Any evident trend from the above analysis related to water quality, water levels or environmental conditions shall be described, and a brief summary of recommended changes to the monitoring requirements shall be provided.

**Capital Improvement Program Status**

A summary of completed water supply system improvements shall be provided. In addition, an update to any documented system weaknesses or anticipated system improvements shall be described.

**Water Treatment Efficiency**

A description of efforts to improve water treatment efficiency shall be included. This shall include good faith efforts undertaken in its infrastructure planning and implementation efforts. Opportunities during the prior year to replace water treatment-related infrastructure, including items such as change-outs to pressure vessels, piping, racks (skids), and treatment membrane elements shall be discussed. (524)

23. The total quantity of water recovered from ASR shall not exceed the total quantity of water injected via ASR unless permission is granted in advance in writing from the Water Use Permit Bureau Chief. (546)

**EAST COUNTY WELLFIELD**

24. Water Use Permit (WUP) 7470.006 included 2,170,000 gpd in new upper Floridan aquifer quantities at the East County Wellfield, which is located outside of but adjacent to the Most Impacted Area (MIA). These new Floridan quantities were established by eliminating Floridan withdrawals at Gamble Creek/Twin Rivers (WUP 7235), which is located within the MIA, via reclaimed water deliveries from the County. If the use of reclaimed water at this site is reduced or discontinued, Floridan withdrawals at the East County Wellfield may continue so long as the related Floridan withdrawals at the Gamble Creek/Twin Rivers site do not resume. However, if standby groundwater quantities are reinstated, the Permittee shall cease or reduce Floridan withdrawals at the East County Wellfield by an equivalent amount.

The new Floridan quantities which are eligible for withdrawal at the East County Wellfield as described above will be reevaluated, and modified as warranted, on an annual basis. The Permittee shall submit the Annual Net Benefit Report by April 1 each year. The reporting period shall be the previous calendar year (January 1 to December 31) and will provide a brief accounting of reclaimed water deliveries to Gamble Creek/Twin Rivers; groundwater withdrawals at Gamble Creek/Twin Rivers; and the related Floridan withdrawals at East County Wellfield. (802)

25. The annual average daily and peak month daily quantities for District ID Nos. 128, 129, 130, 131, 132, 133 and 134, Permittee ID Nos. ECW-1, ECW-2, ECW-3, ECW-4, ECW-5, ECW-6 and ECW-7, East County Wellfield, shown in the production withdrawal table are estimates based on historic and/or projected distribution of pumpage, and are for water use inventory and impact analysis purposes only. The quantities listed for these individual sources are not intended to dictate the distribution of pumpage from permitted sources. The Permittee may make adjustments in pumpage distribution as necessary up to 5,250,000 gallons per day on both an annual average daily and peak month daily basis, so long as adverse environmental impacts do not result and the Permittee complies with all other conditions of this Permit. In all cases, the total annual average annual daily withdrawal and the total peak monthly daily withdrawal for the East County Wellfield are limited to 15,986,000 gpd and 20,356,000 gpd, respectively.
26. The Permittee shall maintain a continuous recording rain gauge, District ID No. 160, Permittee ID No. RG5. Total daily rainfall shall be recorded at this station in inches to one-hundredth of an inch and provided to the District annually as part of the Hydrobiological and Wetlands Monitoring Plan. (255)
27. The Permittee shall continue to maintain the District-approved staff gauges and piezometers in the water bodies specified below, and record measurements of water levels referenced to NGVD at the frequency indicated.

**District ID Nos. 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, and 172, Permittee ID Nos. SG-T1, WW-T1, UW-T1, SG-T2, WW-T2, UW-T2, SG-T3, WW-T3, UW-T3, SG-T4, WW-T4 and UW-T4** to monitor wetland water levels on a bi-weekly basis (twice per month).

To the maximum extent possible, water levels shall be recorded on the same day of each week. Wetland water levels will be reported with the Annual Hydrobiological and Wetland Monitoring Report. The frequency of recording may be modified by the Water Use Permit Bureau Chief, as necessary to ensure the protection of the resource. (762)

28. By April 1 of each year for the calendar year (January 1 – December 31), the Permittee shall submit updates to the Environmental Management Plan (EMP) entitled **Manatee County – East County Wellfield Hydrobiological and Wetlands Monitoring Plan, dated April 24, 2007** that was submitted in support of WUP 20007470.006. If the report is submitted in hardcopy, three (3) identical copies (colors replicated) shall be submitted to the Water Use Permit Bureau Chief and one black and white copy shall be submitted to the Water Use Permit Bureau. If the report is submitted in CD format or electronically via the District website, only one submission is required. Any color part of the report that is scanned shall be scanned in color. The Annual EMP Report shall be consistent in format and content with prior Annual EMP Reports and include the following information:

**Data Summary**

The data collected at all monitor sites including staff gages, wetland wells (center wells), and upland wells (edge wells) for wetlands T1, T2, T3 and T4, should be summarized and included in the Annual EMP Report. The summary shall include essential graphs, tables, and text.

**Interpretations/Conclusions**

The Permittee shall present analyses and interpretation of pumpage data, wetland water levels, surficial aquifer water level data, and other data collected pursuant to the EMP submitted in support of this permit as it relates to environmental conditions in the vicinity of the wellfield. This section shall also address investigations and analyses of relationships between water level fluctuations, actual wellfield pumpage, atmospheric conditions, and drainage factors relative to the environmental condition of designated wetlands.

**Wetland Vegetative Assessment**

This Section shall include annual analysis of changes to percent cover of dominant and subdominant species using the Wetland Assessment Procedure (WAP) field form or other applicable vegetative method that may have occurred to designated representative (test) wetlands (those that potentially may be adversely impacted by groundwater pumping authorized by this permit).

**Environmental Mitigation**

The Permittee shall document whether or not adverse environmental impacts due to pumpage were detected during the reporting period. If such impacts were detected, the Permittee shall specify and describe when and where mitigation actions were undertaken to mitigate the impacts. A quantitative (with respect to acreage) and qualitative (with respect to wetland health and function) assessment of the success of such mitigation actions shall be included. If an action was deemed unsuccessful by either the Permittee or the District, the Permittee shall include proposed alternative actions for the situation.

**Monitoring Plan Status**

This section shall include any proposed changes to the monitoring plan, with appropriate supporting documentation. The Permittee shall submit an application to modify the water use permit within 60 days of District approval of any proposed changes to the monitoring plan. (287)

29. The Permittee shall maintain the monitor wells listed below, monitor water levels, and report them to the District at the frequency listed for the interval, aquifer system, or geologic formation listed. Water levels shall be recorded relative to NGVD and, to the maximum extent possible, shall be recorded on a regular schedule: same time each day, same day each week, same week each month as appropriate to the frequency noted. The maximum daily readings shall be reported online via the WUP Portal at the District website ([www.watermatters.org](http://www.watermatters.org)) or mailed in hardcopy on District-provided forms to the Water Use Permit Bureau, on or before the 10<sup>th</sup> day of the following month. The frequency of recording may be modified by the Water Use Permit Bureau Chief, as necessary to ensure the protection of the resource.

**District ID Nos. 150 and 154, Permittee ID Nos. ECW-SMW-50 and ECW-SMW-54**, to monitor the surficial aquifer on a daily basis.

**District ID No. 152, Permittee ID No. ECW-IAMW-52**, to monitor the intermediate aquifer on a daily basis.

**District ID Nos. 151 and 153, Permittee ID No. ECW-UFMW-51 and ECW-UFMW-53**, to monitor the upper Floridan aquifer on a daily basis. (756)

30. Water quality samples from the monitor sites listed below shall be collected and analyzed for the parameter(s) specified at the frequency indicated. For sampling, analysis and submittal requirements see Exhibit B, Water Quality Sampling Instructions, attached to and made part to this permit.

**District ID Nos. 151, 152 and 153, Permittee ID Nos. ECW-UFMW-51, ECW-IAMW-52 and ECW-UFMW-53**, for chloride, sulfate and TDS, on a quarterly basis (February, May, August and November). (751)

31. Water quality samples from the withdrawal points listed below shall be collected after pumping the withdrawal point at its normal rate for a pumping time specified below, or to a constant temperature, pH, and conductivity. The frequency of sampling per water quality parameter is listed in the table according to the withdrawal point. The recording and reporting shall begin according to the first sample date for existing wells and shall begin within 90 days of completion of any proposed wells. Samples shall be collected whether or not the well is being used unless infeasible. If sampling is infeasible, the Permittee shall indicate the reason for not sampling on the water quality data form or in the space for comments in the WUP Portal for data submissions. For sampling, analysis and submittal requirements see Exhibit B, Water Quality Sampling Instructions, attached to and made part of this permit.

**District ID Nos. 128, 129, 130, 131, 132, 133 and 134, Permittee ID Nos. ECW-1, ECW-2, ECW-3, ECW-4, ECW-5, ECW-6, ECW-7 and ECW-8** for chloride, sulfate and TDS, after a minimum pumping time of 20 minutes, on a monthly basis. (752)

32. The Permittee shall submit an Annual Wellfield Report that is a comprehensive but concise assessment of the water resources of the **East County Wellfield** area based on the subject areas listed below. This report shall concisely summarize the elements listed below, with emphasis on the interactions between these elements, where appropriate. Data sources shall be referenced, but no raw data shall be included in the report. Only essential text, graphs, and tables should be included in the report. Reports shall be submitted to the Water Use Permit Bureau, by August 1 of each year. Any color part of the report that is scanned shall be scanned in color. The report shall cover all activities and conditions pertaining to the East County Wellfield for the preceding calendar year (January 1 to December 31). The specific elements of this report are listed below:

#### **Water Use**

An overview of wellfield operations shall include discussion of quantities withdrawn, withdrawal point rotation within the wellfield, wells used most often and wells used less often and why their routine use was altered, future changes or modifications to the wellfield rotation plan due to the yield from the various wells, etc.

#### **Hydrologic and Environmental Conditions**

A summary of the effects of wellfield operation on environmental systems, as reported in the Annual Hydrobiological and Wetland Monitoring Report, shall be provided. A summary of any environmental mitigation that was determined to be necessary due to withdrawals shall also be provided.

#### **Water Quality Monitoring**

Water quality sampling collected as a condition of this permit shall be analyzed and summarized into graphs and statistical analysis for the annual reporting period and related to the historical water quality sampling results as well as to pumpage. The report shall delineate areas of concern with respect to water quality degradation, horizontal or vertical movement in the fresh water/saltwater interface, or other trends which have occurred. Changes in water quality specifically in the production zones shall be discussed.

#### **Water Level Monitoring**

Water levels collected as a condition of this permit shall be analyzed, summarized into graphs and statistical analysis for the annual reporting period, and related to pumpage as well as to historic water levels. The report should delineate any areas of concern with respect to water levels within the aquifers monitored, changes in sampling locations, number of wells included in the program, etc., or any other information which may be deemed appropriate in order to protect the resource.

#### **Data Analysis**

Statistical trend analysis, such as double-mass curve analysis, multiple linear regression, time series analysis, and factor analysis shall be performed for the annual reporting period and the period of record to analyze the interactions of rainfall and pumpage on changes in the potentiometric surface within and adjacent to the wellfield, water quality, water levels, wetlands, or stream flow. A brief summary of any recommended changes to the monitoring requirements shall be provided, noting that some changes may necessitate a modification of the permit.

**Capital Improvement Program Status**

A summary of completed water supply system improvements shall be provided. In addition, an update to any documented system weaknesses or anticipated system improvements shall be described.

**Water Treatment Efficiency**

A description of efforts to improve water treatment efficiency shall be included. This shall include good faith efforts undertaken in its infrastructure planning and implementation efforts. Opportunities during the prior year to replace water treatment-related infrastructure, including items such as change-outs to pressure vessels, piping, racks (skids), and treatment membrane elements shall be discussed.

**Investigation of Complaints**

A summary of the investigations of withdrawal-related complaints and mitigation activities related to the impacts shall be provided. This summary shall include:

1. Number and type of complaints,
2. Number and type of mitigation activities,
3. Number and type of complaints which did not require mitigation activity,
4. Total cost of all mitigation activity, and
5. Delineation of areas of concern with respect to legal existing use with respect to any water availability or water quality trends identified.

**Monitoring Plan Status**

This section shall include any proposed changes to the monitoring plan, with appropriate supporting documentation. The Permittee shall submit an application to modify the water use permit within 60 days of District approval of any proposed changes to the monitoring plan. (524)

**BUFFALO CREEK WELLFIELD**

33. This permit establishes 3,950,000 gpd of new quantities for the proposed Buffalo Creek Wellfield, which is located within the Most Impacted Area (MIA). The facility total of 3,950,000 gpd includes 2,230,000 gpd of new quantities from the upper Floridan aquifer which are established using two mechanisms of the Net Benefit process: permanent retirement of historically used quantities, and Groundwater Replacement Credits (GWRC). The majority of these new Floridan quantities are supported using GWRC by reducing Floridan withdrawals elsewhere within the MIA at sites using reclaimed water provided by the County. The Net Benefit is maintained if the use of reclaimed water at a site is reduced or discontinued, so long as the related Floridan withdrawals at that site do not resume. However, if the standby groundwater quantity at a site receiving reclaimed water is reinstated, the Permittee shall cease or reduce Floridan withdrawals at the Buffalo Creek Wellfield as necessary to maintain a Net Benefit to the resource.

The Floridan quantities which are eligible for withdrawal at the Buffalo Creek Wellfield under the Net Benefit criteria will be reevaluated, and modified as warranted, on an annual basis. (802)

34. The Permittee shall construct the proposed wells according to the surface diameter and casing depth specifications below. The casing shall be continuous from land surface to the minimum depth stated and is specified to prevent the unauthorized interchange of water between different water bearing zones. The total depth listed below is an estimate, based on best available information, of the depth at which high producing zones are encountered and which poor water quality should not be encountered. However, since this well is located in an area where water quality can be poor, it is the Permittee's responsibility to have the water in the well sampled during well construction before reaching the maximum total depth stated below. Such sampling is necessary to ensure that the well does not encounter water of a quality that cannot be utilized by the Permittee, and to ensure that withdrawals from the well will not cause salt-water intrusion. All depths given are in feet below land surface. For Well Construction requirements see Exhibit B, Well Construction Instructions, attached to and made part to this permit.

**District ID Nos. 202, 203, 204 and 205, Permittee ID Nos. BCWUF-2, BCWUF-3, BCWUF-4 and BCWUF-5, having a surface diameter of 16 inches, with a minimum casing depth of 325 feet, drilled to a maximum total depth of 650 feet.**

**District ID Nos. 211, 212, 213, 214, 215, 216, 217 and 218, Permittee ID Nos. BCWI-1, BCWI-2, BCWI-3, BCWI-4, BCWI-5, BCWI-6, BCWI-7 and BCWI-8**, having a surface diameter of 12 inches, with a minimum casing depth of 150 feet, drilled to a maximum total depth of 300 feet. (202)

35. Within 90 days of the completion of each proposed well or the installation of pumping equipment, the Permittee shall submit to the District specific capacity (well testing) information from any test performed by the Water Well Contractor or pump installer on the well. This information shall include:
- A. Static water level before pumping
  - B. Duration of test pumping
  - C. Gallons per minute pumped
  - D. Final water level measured during pumping

If a step-drawdown test was performed, the information listed above shall be submitted for each step. (234)

36. The Permittee shall construct the following proposed monitor wells pursuant to the stipulations given below in accordance with Chapter 62-532, "Water Well Permitting and Construction Requirements". All depths given are relative to feet below land surface. Land surface shall be surveyed relative to NGVD, and a monitor point elevation identified. A copy of the certified survey and well completion report shall be filed with the District within 30 days of well completion.

**District ID Nos. 253, 256 and 259, Permittee ID Nos. BCW-SMW-2, BCW-SMW-3 and BCW-SMW-4**, with surface casing diameter of 4 inches, to be drilled to an estimated total depth of 20 feet, and cased continuously from the surface to 5 feet below land surface, with slotted casing/screen interval from 5 feet to 20 feet, for monitoring of the surficial aquifer.

**District ID Nos. 254, 257 and 260, Permittee ID Nos. BCWI-2, BCWI-3 and BCWI-4**, with surface casing diameter of 6 inches, to be drilled to an estimated total depth of 280 feet, and cased continuously from the surface to 150 feet below land surface, for monitoring of the intermediate aquifer.

**District ID Nos. 255, 258 and 261, Permittee ID Nos. BCWUF-2, BCWUF-3 and BCWUF-4**, with surface casing diameter of 6 inches, to be drilled to an estimated total depth of 450 feet, and cased continuously from the surface to 325 feet below land surface, for monitoring of the upper Floridan aquifer. (416)

37. The Permittee shall submit a copy of the well completion reports as filed with the Natural Resources Department, Groundwater Management Section of Manatee County to the Water Use Permit Bureau within 30 days of well completion. (508)
38. Within 90 days of completion of construction, the Permittee shall submit to the Water Use Permit Bureau the specific location of **District ID Nos. 202, 203, 204, 205, 211, 212, 213, 214, 215, 216, 217, 218, 253, 254, 255, 256, 257, 258, 259, 260, 261, and 270, Permittee ID Nos. BCWUF-2, BCWUF-3, BCWUF-4, BCWUF-5, BCWI-1, BCWI-2, BCWI-3, BCWI-4, BCWI-5, BCWI-6, BCWI-7, BCWI-8, BCW-SMW-2, BCW-IMW-2, BCW-UFMW-2, BCW-SMW-3, BCW-IMW-3, BCW-UFMW-3, BCW-SMW-4, BCW-IMW-4, BCW-UFMW-4 and BCW-RG-1** on an original blue line aerial (the Permittee may use the District GIS maps from the website) with a minimum scale of 1" = 800' or by latitude/longitude. If latitude and longitude are provided, the Permittee shall include instrumentation used to determine the data. (537)
39. By January 1, 2015, the Permittee shall determine the seasonal high water table elevation in the following wetlands. The data shall be submitted to Tampa Service Office, Water Use Permit Bureau, for review: **Wetland 1, Wetland 2 and Wetland 3**. For on-site wetlands, all three methods listed below shall be used. If results do not agree among the methods used, the Permittee shall use the agreeing value for two out of the three; if all three disagree, the highest value will be used.
1. NRCS Method 1: Natural Resources Conservation Service (NRCS) Survey: The highest elevation (relative to NGVD) of the seasonal high water table based on range(s) for all of the soil type(s) between the subject wetland or property boundary and the production well. The soil type(s) and associated seasonal high water table range(s) shall be submitted.
  2. Soil Borings Method: Soil borings shall be made using standard NRCS boring methodology at 150 foot intervals following the boundaries of subject wetlands between the subject wetland and the

production well. The analysis of the soil borings and derived seasonal high water table shall be submitted.

3. Biological Indicators Method: A biological survey shall be conducted, using a reasonable number of samples to determine seasonal high water levels based on biological indicators. The analysis and results of this survey, including the biological indicators used, locations, number of replicates, variance, minimum, and mean, shall be submitted. (690)
40. By June 1, 2015, the Permittee shall have the Seasonal High and Normal Pool water levels of the following water bodies surveyed by a licensed surveyor to NGVD. The surveyed elevations shall be submitted to the District within 30 days of the survey, and shall be subject to District approval: **Wetland 1, Wetland 2 and Wetland 3.** (694)
41. By January 1, 2016, the Permittee shall install and maintain a continuous recording rain gauge, **District ID No. 270, Permittee ID No. BCW-RG-1**, in the area around the wastewater treatment plant. Total daily rainfall shall be recorded at this station in inches to one-hundredth of an inch and provided to the District annually as part of the Hydrobiological and Wetlands Monitoring Plan. (255)
42. By January 1, 2016, the Permittee shall install and maintain a District-approved staff gauge and two piezometers (wetland center and edge) in each of the water bodies at the locations specified by latitude and longitude below and report measurements of water levels referenced to NGVD at the frequency indicated. Instructions for installation of the staff gauge, and for recording and reporting the data are given in Exhibit B, Water Level Instructions, attached to and made part of this permit.

**District ID Nos. 271, 272, and 273, Permittee ID Nos. BCW-SG-W1, BCW-CW-W1, and BCW-EW-W1** to measure wetland water levels in Wetland 1 located at Lat. 82 29 08/Long. 27 34 41, on a monthly basis.

**District ID Nos. 274, 275, 276, Permittee ID Nos. BCW-SG-W2, BCW-CW-W2 and BCW-EW-W2** to measure wetland water levels in Wetland 2 located at Lat. 82 28 34/Long. 27 34 26, on a monthly basis.

**District ID Nos. 277, 278 and 279, Permittee ID Nos. BCW-SG-W3, BCW-CW-W3 and BCW-EW-W3** to measure wetland water levels in Wetland 3 located at Lat. 82 28 46/Long. 27 34 44, on a monthly basis.

To the maximum extent possible, water levels shall be recorded on the same week of each month. Wetland water levels will be reported with the Annual Buffalo Creek Wellfield Hydrobiological and Wetland Monitoring Report. The frequency of recording may be modified by the Water Use Permit Bureau Chief, as necessary to ensure the protection of the resource. (761)

43. Beginning in 2017, by April 1 of each year for the preceding calendar year (January 1 - December 31), the Permittee shall submit updates to the Environmental Monitoring Plan (EMP) titled **Manatee County – North County Wellfield Hydrobiological and Wetlands Monitoring Plan**, dated April 10, 2012 that was submitted in support of this permit. If the report is submitted in hardcopy, three (3) identical copies (colors replicated) shall be submitted to the Water Use Permit Bureau Chief and one black and white copy shall be submitted to the Water Use Permit Bureau. If the report is submitted in CD format or electronically via the District website, only one submission is required. Any color part of the report that is scanned shall be scanned in color. Baseline data (water level monitoring, soils, wetland vegetation) should begin five (5) years prior to commencement of well field production. The baseline and subsequent reports shall include the following sections:

#### **Data Summary Section**

A data summary section for all the monitor sites included in the EMP shall be included in the report. The Data Summary Section shall contain updates to the status of proposed monitor sites, updates to proposed locations and elevations if any, and all raw data required by condition of this permit from each environmental monitor site, **District ID Nos. 270, 271, 272, 273, 274, 275, 276, 277, 278 and 279, Permittee ID Nos. BCW-RG-1, BCW-SG-W1, BCW-CW-W1, BCW-EW-W1, BCW-SG-W2, BCW-CW-W2, BCW-EW-W2, BCW-SG-W3, BCW-CW-W3 and BCW-EW-W3.** This section shall include essential graphs, tables, and text, with little or no data interpretation.

**Interpretive Section**

This section shall present the Permittee's analyses and interpretation of pumpage data, wetland water levels, surficial aquifer water level data, and other data collected pursuant to the EMP submitted in support of this permit as it relates to environmental conditions in the vicinity of the wellfield. This section shall also address investigations and analyses of relationships between water level fluctuations, actual wellfield pumpage, atmospheric conditions, and drainage factors relative to the environmental condition of designated wetlands.

**Soils**

Documentation of soils in the EMP network shall be provided one time at the initiation of monitoring to establish baseline conditions. This documentation shall include field verification of the soil type as reported in the NRCS county soil survey, whether they are hydric or not, degree of soil moisture (desiccation to inundation), and general condition (fissuring, subsidence, etc.). A summary of the soils determination shall be included in the initial annual monitoring report.

**Wetland Vegetative Assessment**

This section shall include annual analysis of changes to percent cover of dominant and subdominant species using the Wetland Assessment Procedure (WAP) field form or other applicable vegetative method that may have occurred to designated representative (test) wetlands (those that potentially may be adversely impacted by groundwater pumping authorized by this permit).

**Aerial Photographic Analysis**

The Permittee shall utilize color infrared or natural color aerial photographs of the wellfield area to detect and document changes to the vegetation and/or the hydrology of wetlands, lakes or streams that occurred during the reporting period relative to aerial photographs from the previous reporting period. Any additional photographs taken in support of the aerial photographic analysis as well as the interpretation of the photographs shall be dated and included in the report. The Permittee may utilize prints of the District's color, infrared, aerial photographs of the pertinent year. These are available in electronic format from the District Mapping and GIS Section upon request and provision of an external hard drive. If submitted electronically, the interpreted aerial photograph shall be scanned in color. If submitted in hardcopy, the interpreted aerial photographs shall be on a scale of 1 inch = 2000 or finer.

**Outstanding Data Not Previously Submitted**

If there is or was previously collected hydrologic and environmental data from any site at the wellfield that was not submitted in support of the application for this permit, such data shall be included with the first report submitted.

**Environmental Mitigation**

The Permittee shall document whether or not adverse environmental impacts due to pumpage were detected during the reporting period. If such impacts were detected, the Permittee shall specify and describe when and where mitigation actions were undertaken to mitigate the impacts. A quantitative (with respect to acreage) and qualitative (with respect to wetland health and function) assessment of the success of such mitigation actions shall be included. If an action was deemed unsuccessful by either the Permittee or the District, the Permittee shall include proposed alternative actions for the situation.

**Monitoring Plan Status**

This section shall include any proposed changes to the monitoring plan, with appropriate supporting documentation. The Permittee shall submit an application to modify the water use permit within 60 days of District approval of any proposed changes to the monitoring plan. (287)

44. The Permittee shall maintain the monitor wells listed below, monitor water levels, and report them to the District at the frequency listed for the interval, aquifer system, or geologic formation listed. Water levels shall be recorded relative to NGVD and, to the maximum extent possible, shall be recorded on a regular schedule: same time each day, same day each week, same week each month as appropriate to the frequency noted. The maximum daily readings shall be reported online via the WUP Portal at

the District website ([www.watermatters.org](http://www.watermatters.org)) or mailed in hardcopy on District-provided forms to the Water Use Permit Bureau, on or before the 10<sup>th</sup> day of the following month. The frequency of recording may be modified by the Water Use Permit Bureau Chief, as necessary to ensure the protection of the resource.

**District ID Nos. 250, 253, 256 and 259, Permittee ID Nos. BCW-SMW-1, BCW-SMW-2, BCW-SMW-3 and BCW-SMW-4** to monitor the surficial aquifer on a daily basis.

**District ID Nos. 251, 254, 257 and 260, Permittee ID Nos. BCW-IMW-1, BCW-IMW-2, BCW-IMW-3 and BCW-IMW-4**, to monitor the intermediate aquifer on a daily basis.

**District ID Nos. 252, 255, 258 and 261, Permittee ID Nos. BCW-UFMW-1, BCW-UFMW-2, BCW-UFMW-3 and BCW-UFMW-4**, to monitor the upper Floridan aquifer on a daily basis. (756)

45. Water quality samples from the monitor sites listed below shall be collected and analyzed for the parameter(s) specified at the frequency indicated. For sampling, analysis and submittal requirements see Exhibit B, Water Quality Sampling Instructions, attached to and made part of this permit.

**District ID Nos. 251, 252, 254, 255, 257, 258, 260 and 261, Permittee ID Nos. BCW-IMW-1, BCW-UFMW-1, BCW-IMW-2, BCW-UFMW-2, BCW-IMW-3, BCW-UFMW-3, BCW-IMW-4 and BCW-UFMW-4**, for chloride, sulfate, and total dissolved solids, on a quarterly basis (February, May, August, November). (750)

46. Water quality samples from the withdrawal points listed below shall be collected after pumping the withdrawal point at its normal rate for a pumping time specified below, or to a constant temperature, pH, and conductivity. The frequency of sampling per water quality parameter is listed in the table according to the withdrawal point. The recording and reporting shall begin according to the first sample date for existing wells and shall begin within 90 days of completion of any proposed wells. Samples shall be collected whether or not the well is being used unless infeasible. If sampling is infeasible, the Permittee shall indicate the reason for not sampling on the water quality data form or in the space for comments in the WUP Portal for data submissions. For sampling, analysis and submittal requirements see Exhibit B, Water Quality Sampling Instructions, attached to and made part of this permit.

**District ID Nos. 201, 202, 203, 204, 205, 211, 212, 213, 214, 215, 216, 217 and 218, Permittee ID Nos. BCWUFW-1, BCWUFA-2, BCWUFW-3, BCWUFW-4, BCWUFW-5, BCWI-1, BCWI-2, BCWI-3, BCWI-4, BCWI-5, BCWI-6, BCWI-7 and BCWI-8** for chloride, sulfate, and total dissolved solids, after a minimum pumping time of 20 minutes, on a monthly basis. (752)

47. The Permittee shall submit an Annual Wellfield Report that is a comprehensive but concise assessment of the water resources of the **Buffalo Creek Wellfield** area based on the subject areas listed below. This report shall concisely summarize the elements listed below, with emphasis on the interactions between these elements, where appropriate. Data sources shall be referenced, but no raw data shall be included in the report. Only essential text, graphs, and tables should be included in the report. Reports shall be submitted to the Water Use Permit Bureau, by August 1 of each year. Any color part of the report that is scanned shall be scanned in color. The report shall cover all activities and conditions pertaining to the North County Wellfield for the preceding calendar year (January 1 to December 31). The specific elements of this report are listed below:

#### **Water Use**

An overview of wellfield operations shall include discussion of quantities withdrawn, withdrawal point rotation within the wellfield, wells used most often and wells used less often and why their routine use was altered, future changes or modifications to the wellfield rotation plan due to the yield from the various wells, etc.

#### **Hydrologic and Environmental Conditions**

A summary of the effects of wellfield operation on environmental systems, as reported in the Annual Hydrobiological and Wetland Monitoring Report, shall be provided. A summary of any environmental mitigation that was determined to be necessary due to withdrawals shall also be provided.

**Water Quality Monitoring**

Water quality sampling collected as a condition of this permit shall be analyzed and summarized into graphs and statistical analysis for the annual reporting period and related to the historical water quality sampling results as well as to pumpage. The report shall delineate areas of concern with respect to water quality degradation, horizontal or vertical movement in the fresh water/saltwater interface, or other trends which have occurred. Changes in water quality specifically in the production zones shall be discussed.

**Water Level Monitoring**

Water levels collected as a condition of this permit shall be analyzed, summarized into graphs and statistical analysis for the annual reporting period, and related to pumpage as well as to historic water levels. The report should delineate any areas of concern with respect to water levels within the aquifers monitored, changes in sampling locations, number of wells included in the program, etc., or any other information which may be deemed appropriate in order to protect the resource.

**Data Analysis**

Statistical trend analysis, such as double-mass curve analysis, multiple linear regression, time series analysis, and factor analysis shall be performed for the annual reporting period and the period of record to analyze the interactions of rainfall and pumpage on changes in the potentiometric surface within and adjacent to the wellfield, water quality, water levels, wetlands, or stream flow.

**Capital Improvement Program Status**

A summary of completed water supply system improvements shall be provided. In addition, an update to any documented system weaknesses or anticipated system improvements shall be described.

**Water Treatment Efficiency**

A description of efforts to improve water treatment efficiency shall be included. This shall include good faith efforts undertaken in its infrastructure planning and implementation efforts. Opportunities during the prior year to replace water treatment-related infrastructure, including items such as change-outs to pressure vessels, piping, racks (skids), and treatment membrane elements shall be discussed.

**Investigation of Complaints**

A summary of the investigations of withdrawal-related complaints and mitigation activities related to the impacts shall be provided. This summary shall include:

1. Number and type of complaints,
2. Number and type of mitigation activities,
3. Number and type of complaints which did not require mitigation activity,
4. Total cost of all mitigation activity, and
5. Delineation of areas of concern with respect to legal existing use with respect to any water availability or water quality trends identified.

**Monitoring Plan Status**

This section shall include any proposed changes to the monitoring plan, with appropriate supporting documentation. The Permittee shall submit an application to modify the water use permit within 60 days of District approval of any proposed changes to the monitoring plan. (524)

48. The Permittee shall investigate alleged loss of reliable access to legal, existing withdrawal of ground water, damage to the ground water wells, or to pumps used to access legal, existing withdrawal of water within **5000 feet** of the property boundary, that may have been caused by the Permittee's ground water withdrawals. Instructions for the complaint handling and possible mitigation procedure are given in Exhibit B, Well Complaint Instructions, attached to and made part of this permit. (443)
49. The Permittee shall submit an Annual Net Benefit Report in support of the new Floridan quantities established by this permit for the Buffalo Creek Wellfield. The reporting period shall be the previous calendar year (January 1 to December 31). The report shall include the following elements in narrative form, with appropriate tables and figures:
  - a. A summary of Floridan quantities approved for withdrawal at the Buffalo Creek Wellfield, effective January 1 of the reporting period.

- b. A summary of the Net Benefit activities elsewhere within the Most Impacted Area which offset or otherwise mitigated those quantities, effective January 1 reporting period.
- c. A detailed description of any modifications to reclaimed water deliveries (i.e., new, reduced, increased, or discontinued) or other mitigation activities during the reporting period.
- d. A summary of Floridan quantities proposed for withdrawal at the Buffalo Creek Wellfield, effective December 31 of the reporting period.
- e. A summary of the Net Benefit activities elsewhere within the Most Impacted Area which will offset or otherwise mitigate those quantities, effective December 31 of the reporting period.
- f. An updated groundwater flow model in support of the proposed Floridan quantities shall be prepared if there are any changes in, or redistribution of, offsetting reclaimed water deliveries or other mitigation activities. The most up-to-date version of the District Wide Regional Model shall be used, without modification of default parameters unless approved in advance by District staff. Any such modifications of default parameters will be summarized, and supporting documentation for the changes will be provided.

The Permittee shall coordinate any changes in Net Benefit activities with District staff during the reporting period. The report shall be submitted to the Water Use Permit Bureau Chief by April 1 each year. The Permittee shall prepare the report in consultation with District staff. (487)

40D-2  
Exhibit A

**WATER USE PERMIT STANDARD CONDITIONS**

1. If any of the statements in the application and in the supporting data are found to be untrue and inaccurate, or if the Permittee fails to comply with all of the provisions of Chapter 373, F.S., Chapter 40D, or the conditions set forth herein, the Governing Board shall revoke this permit in accordance with Rule 40D-2.341, following notice and hearing.
2. This permit is issued based on information provided by the Permittee demonstrating that the use of water is reasonable and beneficial, consistent with the public interest, and will not interfere with any existing legal use of water. If, during the term of the permit, it is determined by the District that the use is not reasonable and beneficial, in the public interest, or does impact an existing legal use of water, the Governing Board shall modify this permit or shall revoke this permit following notice and hearing.
3. The Permittee shall not deviate from any of the terms or conditions of this permit without written approval by the District.
4. In the event the District declares that a Water Shortage exists pursuant to Chapter 40D-21, the District shall alter, modify, or declare inactive all or parts of this permit as necessary to address the water shortage.
5. The District shall collect water samples from any withdrawal point listed in the permit or shall require the Permittee to submit water samples when the District determines there is a potential for adverse impacts to water quality.
6. The Permittee shall provide access to an authorized District representative to enter the property at any reasonable time to inspect the facility and make environmental or hydrologic assessments. The Permittee shall either accompany District staff onto the property or make provision for access onto the property.
7. Issuance of this permit does not exempt the Permittee from any other District permitting requirements.
8. The Permittee shall cease or reduce surface water withdrawal as directed by the District if water levels in lakes fall below applicable minimum water level established in Chapter 40D-8 or rates of flow in streams fall below the minimum levels established in Chapter 40D-8.
9. The Permittee shall cease or reduce withdrawal as directed by the District if water levels in aquifers fall below the minimum levels established by the Governing Board.
10. The Permittee shall practice water conservation to increase the efficiency of transport, application, and use, as well as to decrease waste and to minimize runoff from the property. At such time as the Governing Board adopts specific conservation requirements for the Permittee's water use classification, this permit shall be subject to those requirements upon notice and after a reasonable period for compliance.
11. The District may establish special regulations for Water Use Caution Areas. At such time as the Governing Board adopts such provisions, this permit shall be subject to them upon notice and after a reasonable period for compliance.

12. The Permittee shall mitigate any adverse impact to existing legal uses caused by withdrawals. When adverse impacts occur or are imminent, the District shall require the Permittee to mitigate the impacts. Adverse impacts include:
  - A. A reduction in water levels which impairs the ability of the well to produce water;
  - B. Significant reduction in levels or flows in water bodies such as lakes, impoundments, wetlands, springs, streams or other watercourses; or
  - C. Significant inducement of natural or manmade contaminants into a water supply or into a usable portion of any aquifer water body.
13. The Permittee shall mitigate any adverse impact to environmental features or offsite land uses as a result of withdrawals. When adverse impacts occur or are imminent, the District shall require the Permittee to mitigate the impacts. Adverse impacts include:
  - A. Significant reduction in levels or flows in water bodies such as lakes, impoundments, wetlands, springs, streams or other watercourses;
  - B. Sinkholes or subsidence caused by reduction in water levels;
  - C. Damage to crops and other vegetation causing financial harm to the owner; and
  - D. Damage to the habitat of endangered or threatened species.
14. When necessary to analyze impacts to the water resource or existing users, the District shall require the Permittee to install flow metering or other measuring devices to record withdrawal quantities and submit the data to the District.
15. A District identification tag shall be prominently displayed at each withdrawal point by permanently affixing the tag to the withdrawal facility.
16. Notwithstanding the provisions of Rule 40D-1.6105, F.A.C., persons who wish to continue the water use permitted herein and who have acquired ownership or legal control of permitted water withdrawal facilities or the land on which the facilities are located must apply to transfer the permit to themselves within 45 days of acquiring ownership or legal control of the water withdrawal facilities or the land.
17. All permits issued pursuant to these Rules are contingent upon continued ownership or legal control of all property on which pumps, wells, diversions or other water withdrawal facilities are located.
18. Within the Southern Water Use Caution Area, if the District determines that significant water quantity or quality changes, impacts to existing legal uses, or adverse environmental impacts are occurring, the Board, upon reasonable notice to the permittee, including a statement of facts upon which the District based its determination, may reconsider the quantities permitted or other conditions of the permit as appropriate to address the change or impact but only after an opportunity for the permittee to resolve or mitigate the change or impact or to request a hearing.

Exhibit B  
Instructions

METERING INSTRUCTIONS

The Permittee shall meter withdrawals from surface waters and/or the ground water resources, and meter readings from each withdrawal facility shall be recorded on a monthly basis within the last week of the month. The meter reading(s) shall be reported to the Water Use Permit Bureau on or before the tenth day of the following month. The Permittee shall submit meter readings online using the Permit Information Center at [www.swfwmd.state.fl.us/permits/epermitting/](http://www.swfwmd.state.fl.us/permits/epermitting/) or on District supplied scanning forms unless another arrangement for submission of this data has been approved by the District. Submission of such data by any other unauthorized form or mechanism may result in loss of data and subsequent delinquency notifications. Call the Water Use Permit Bureau in Tampa at (813) 985-7481 if difficulty is encountered.

The meters shall adhere to the following descriptions and shall be installed or maintained as follows:

1. The meter(s) shall be non-resettable, totalizing flow meter(s) that have a totalizer of sufficient magnitude to retain total gallon data for a minimum of the three highest consecutive months permitted quantities. If other measuring device(s) are proposed, prior to installation, approval shall be obtained in writing from the Water Use Permit Bureau Chief.
2. The Permittee shall report non-use on all metered standby withdrawal facilities on the scanning form or approved alternative reporting method.
3. If a metered withdrawal facility is not used during any given month, the meter report shall be submitted to the District indicating the same meter reading as was submitted the previous month.
4. The flow meter(s) or other approved device(s) shall have and maintain an accuracy within five percent of the actual flow as installed.
5. Meter accuracy testing requirements:
  - A. For newly metered withdrawal points, the flow meter installation shall be designed for inline field access for meter accuracy testing.
  - B. The meter shall be tested for accuracy on-site, as installed according to the Flow Meter Accuracy Test Instructions in this Exhibit B, every five years in the assigned month for the county, beginning from the date of its installation for new meters or from the date of initial issuance of this permit containing the metering condition with an accuracy test requirement for existing meters.
  - C. The testing frequency will be decreased if the Permittee demonstrates to the satisfaction of the District that a longer period of time for testing is warranted.
  - D. The test will be accepted by the District only if performed by a person knowledgeable in the testing equipment used.
  - E. If the actual flow is found to be greater than 5% different from the measured flow, within 30 days, the Permittee shall have the meter re-calibrated, repaired, or replaced, whichever is necessary. Documentation of the test and a certificate of re-calibration, if applicable, shall be submitted within 30 days of each test or re-calibration.
6. The meter shall be installed according to the manufacturer's instructions for achieving accurate flow to the specifications above, or it shall be installed in a straight length of pipe where there is at least an upstream length equal to ten (10) times the outside pipe diameter and a downstream length equal to two (2) times the outside pipe diameter. Where there is not at least a length of ten diameters upstream available, flow straightening vanes shall be used in the upstream line.
7. Broken or malfunctioning meter:
  - A. If the meter or other flow measuring device malfunctions or breaks, the Permittee shall notify the District within 15 days of discovering the malfunction or breakage.
  - B. The meter must be replaced with a repaired or new meter, subject to the same specifications given above, within 30 days of the discovery.
  - C. If the meter is removed from the withdrawal point for any other reason, it shall be replaced with another meter having the same specifications given above, or the meter shall be reinstalled within 30 days of its removal from the withdrawal. In either event, a fully functioning meter shall not be off the withdrawal point for more than 60 consecutive days.

8. While the meter is not functioning correctly, the Permittee shall keep track of the total amount of time the withdrawal point was used for each month and multiply those minutes times the pump capacity (in gallons per minute) for total gallons. The estimate of the number of gallons used each month during that period shall be submitted on District scanning forms and noted as estimated per instructions on the form. If the data is submitted by another approved method, the fact that it is estimated must be indicated. The reason for the necessity to estimate pumpage shall be reported with the estimate.
9. In the event a new meter is installed to replace a broken meter, it and its installation shall meet the specifications of this condition. The permittee shall notify the District of the replacement with the first submittal of meter readings from the new meter.

#### FLOW METER ACCURACY TEST INSTRUCTIONS

1. **Accuracy Test Due Date** - The Permittee is to schedule their accuracy test according to the following schedule:
  - A. For existing metered withdrawal points, add five years to the previous test year, and make the test in the month assigned to your county.
  - B. For withdrawal points for which metering is added for the first time, the test is to be scheduled five years from the issue year in the month assigned to your county.
  - C. For proposed withdrawal points, the test date is five years from the completion date of the withdrawal point in the month assigned to your county.
  - D. For the Permittee's convenience, if there are multiple due-years for meter accuracy testing because of the timing of the installation and/or previous accuracy tests of meters, the Permittee can submit a request in writing to the Water Use Permit Bureau Chief for one specific year to be assigned as the due date year for meter testing. Permittees with many meters to test may also request the tests to be grouped into one year or spread out evenly over two to three years.
  - E. The months for accuracy testing of meters are assigned by county. The Permittee is requested but not required to have their testing done in the month assigned to their county. This is to have sufficient District staff available for assistance.

January	Hillsborough
February	Manatee, Pasco
March	Polk (for odd numbered permits)*
April	Polk (for even numbered permits)*
May	Highlands
June	Hardee, Charlotte
July	None or Special Request
August	None or Special Request
September	Desoto, Sarasota
October	Citrus, Levy, Lake
November	Hernando, Sumter, Marion
December	Pinellas

\* The permittee may request their multiple permits be tested in the same month.

2. **Accuracy Test Requirements:** The Permittee shall test the accuracy of flow meters on permitted withdrawal points as follows:
  - A. The equipment water temperature shall be set to 72 degrees Fahrenheit for ground water, and to the measured water temperature for other water sources.
  - B. A minimum of two separate timed tests shall be performed for each meter. Each timed test shall consist of measuring flow using the test meter and the installed meter for a minimum of four minutes duration. If the two tests do not yield consistent results, additional tests shall be performed for a minimum of eight minutes or longer per test until consistent results are obtained.
  - C. If the installed meter has a rate of flow, or large multiplier that does not allow for consistent results to be obtained with four- or eight-minute tests, the duration of the test shall be increased as necessary to obtain accurate and consistent results with respect to the type of flow meter installed.
  - D. The results of two consistent tests shall be averaged, and the result will be considered the test result for the meter being tested. This result shall be expressed as a plus or minus percent (rounded to the nearest one-tenth percent) accuracy of the installed meter relative to the test meter. The percent accuracy indicates the deviation (if any), of the meter being tested from the test meter.

3. **Accuracy Test Report:** The Permittees shall demonstrate that the results of the meter test(s) are accurate by submitting the following information within 30 days of the test:
- A. A completed Flow Meter Accuracy Verification Form, Form LEG-R.014.00 (07/08) for each flow meter tested. This form can be obtained from the District's website ([www.watermatters.org](http://www.watermatters.org)) under "ePermitting and Rules" for Water Use Permits.
  - B. A printout of data that was input into the test equipment, if the test equipment is capable of creating such a printout;
  - C. A statement attesting that the manufacturer of the test equipment, or an entity approved or authorized by the manufacturer, has trained the operator to use the specific model test equipment used for testing;
  - D. The date of the test equipment's most recent calibration that demonstrates that it was calibrated within the previous twelve months, and the test lab's National Institute of Standards and Testing (N.I.S.T.) traceability reference number.
  - E. A diagram showing the precise location on the pipe where the testing equipment was mounted shall be supplied with the form. This diagram shall also show the pump, installed meter, the configuration (with all valves, tees, elbows, and any other possible flow disturbing devices) that exists between the pump and the test location clearly noted with measurements. If flow straightening vanes are utilized, their location(s) shall also be included in the diagram.
  - F. A picture of the test location, including the pump, installed flow meter, and the measuring device, or for sites where the picture does not include all of the items listed above, a picture of the test site with a notation of distances to these items. with a notation of distances to these items.

#### WATER QUALITY INSTRUCTIONS

The Permittee shall perform water quality sampling, analysis and reporting as follows:

1. The sampling method(s) from both monitor wells and surface water bodies shall be designed to collect water samples that are chemically representative of the zone of the aquifer or the depth or area of the water body.
2. Water quality samples from monitor wells shall be taken after pumping the well for the minimum time specified (if specified) or after the water reaches a constant temperature, pH, and conductivity.
3. The first submittal to the District shall include a copy of the laboratory's analytical and chain of custody procedures. If the laboratory used by the Permittee is changed, the first submittal of data analyzed at the new laboratory shall include a copy of the laboratory's analytical and chain of custody procedures .
4. Any variance in sampling and/or analytical methods shall have prior approval of the Water Use Permit Bureau Chief.
5. The Permittee's sampling procedure shall follow the handling and chain of custody procedures designated by the certified laboratory which will undertake the analysis.
6. Water quality samples shall be analyzed by a laboratory certified by the Florida Department of Health utilizing the standards and methods applicable to the parameters analyzed and to the water use pursuant to Chapter 64E-1, Florida Administrative Code, "Certification of Environmental Testing Laboratories."
7. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association-American Water Works Association-Water Pollution Control Federation (APHA-AWWA-WPCF) or Methods for Chemical Analyses of Water and Wastes by the U.S. Environmental Protection Agency (EPA).
8. Unless other reporting arrangements have been approved by the Water Use Permit Bureau Chief, reports of the analyses shall be submitted to the Water Use Permit Bureau, online at the District WUP Portal or mailed in hardcopy on or before the tenth day of the following month. The online submittal shall include a scanned upload of the original laboratory report. The hardcopy submittal shall be a copy of the laboratory's analysis form. If for some reason, a sample cannot be taken when required, the Permittee shall indicate so and give the reason in the space for comments at the WUP Portal or shall submit the reason in writing on the regular due date .
9. Water quality samples shall be collected based on the following timetable for the frequency listed in the special condition:
10. The parameters and frequency of sampling and analysis may be modified by the District as necessary to ensure the protection of the resource.

<u>Frequency</u>	<u>Timetable</u>
Weekly	Same day of each week
Quarterly	Same week of <b>February, May, August, November</b>
Semi-annually	Same week of <b>May, November</b>
Monthly	Same week of each month

### WELL COMPLAINT INSTRUCTIONS

The permittee shall adhere to the following process for handling water resource, surface or ground water withdrawal point impact, dewatering complaints, or discharge/seepage of water from their property:

1. Within 48 hours of a complaint received by the Permittee related to their withdrawal or use of water or dewatering activity, the Permittee shall notify the District, perform a preliminary investigation to determine whether the Permittee's pumpage, dewatering activity, or discharge/seepage from their property may have caused the problem.
2. If this preliminary assessment indicates that the Permittee may be responsible, the Permittee shall, within 72 hours of complaint receipt, supply the complainant with any water necessary for health and safety purposes, such as drinking water.
3. If the resulting investigation determines that the Permittee was not responsible for the well problem, the Permittee shall document the reasons for this determination.
4. If the detailed investigation confirms that the complainant's problem was caused by the Permittee's pumpage, dewatering, or discharge or water impoundment activities:
  - A. The complainant's problem shall be fully corrected within 15 days of complaint receipt.
  - B. Impacts to wells: Full correction shall be restoration of the complainant's well to pre-impact condition or better, including the aspects of pressure levels, discharge quantity, and water quality. This detailed investigation shall include, but not be limited to, an analysis of water levels and pumpage impacts at the time of the complainant's problem, well and pump characteristics including depths, capacity, pump curves, and irrigation system requirements.
5. The Permittee shall file a report of the complaint, the findings of facts, appropriate technical data, and any mitigating action taken or to be taken by the Permittee, to the Water Use Permit Bureau Chief, for review and approval within 20 days of the receipt of any complaint. The report shall include:
  - A. The name and address of each complainant;
  - B. The date and nature of the complaint;
  - C. A summary of the Permittee's investigation;
  - D. A summary of the Permittee's determination, including details of any mitigation activities; and
  - E. Cost of mitigation activity for each complaint.
6. A copy of the report shall be sent to the complainant within 20 days of complaint receipt.

### ANNUAL REPORT SUBMITTAL INSTRUCTIONS

The "Public Supply Water Use Annual Report Form" (Form No. LEG-R.023.00 (01/09)), is designed to assist the Permittee with the annual report requirements, but the final authority for what must be included in the Water Use Annual Report is in this condition and in these instructions. Two identical copies of the "Public Supply Water Use Annual Report Form" and two identical copies of all required supporting documentation shall be included if submitted in hard copy. "Identical copy" in this instance means that if the original is in color, then all copies shall also be printed in color. If submitted electronically, only one submittal is required; however, any part of the document that is in color shall be scanned in color.

1. **Per Capita Use Rate** - A per capita rate for the previous calendar year will be progressively calculated until a rate of 150 gpd per person or less is determined whether it is the unadjusted per capita, adjusted per capita, or compliance per capita. The calculations shall be performed as shown in Part A of the Form. The Permittee shall refer to and use the definitions and instructions for all components as provided on the Form and in Part B, Chapter 3, Section 3.6 of the "Water Use Permit Information Manual." Permittees that have interconnected service areas and receive an annual average quantity of 100,000 gpd or more from another permittee are to include these quantities as imported quantities. Permittees in the Southern Water Use Caution Area (SWUCA) or the Northern Tampa Bay Water Use Caution Area (NTBWUCA), as it existed prior to October 1, 2007, shall achieve a per capita of 150 gpd or less, and those in these areas that cannot achieve a compliance per capita rate of 150 gpd or less shall include a report on why this rate was not achieved, measures taken to comply with this requirement, and a

plan to bring the permit into compliance. Permittees not in a Water Use Caution Area that cannot achieve a compliance per capita rate of 150 gpd or less by December 31, 2019 shall submit this same report in the Annual Report due April 1, 2020.

2. **Residential Use** - Residential water use consists of the indoor and outdoor water uses associated with each category of residential customer (single family units, multi-family units, and mobile homes), including irrigation uses, whether separately metered or not. The Permittee shall document the methodology used to determine the number of dwelling units by type and the quantities used. Estimates of water use based upon meter size will not be accepted. If mobile homes are included in the Permittees multi-family unit category, the information for them does not have to be separated. The information for each category shall include:
  - A. Number of dwelling units per category,
  - B. Number of domestic metered connections per category,
  - C. Number of metered irrigation connections,
  - D. Annual average quantities in gallons per day provided to each category, and
  - E. Percentage of the total residential water use provided apportioned to each category.
3. **Non-Residential Use** - Non-residential use consists of all quantities provided for use in a community not directly associated with places of residence. For each category below, the Permittee shall include annual average gpd provided and percent of total non-residential use quantities provided. For each category 1 through 6 below, the number of metered connections shall be provided. These non-residential use categories are:
  - A. Industrial/commercial uses, including associated lawn and landscape irrigation use ,
  - B. Agricultural uses (e.g., irrigation of a nursery),
  - C. Recreation/Aesthetic, for example irrigation (excluding golf courses) of Common Areas, stadiums and school yards,
  - D. Golf course irrigation,
  - E. Fire fighting, system testing and other accounted uses,-
  - F. K-through-12 schools that do not serve any of the service area population, and
  - G. Water Loss as defined as the difference between the output from the treatment plant and accounted residential water use (B above) and the listed non-residential uses in this section.
4. **Water Audit** - The water audit report that is done because water losses are greater than 10% of the total distribution quantities shall include the following items:
  - A. Evaluation of:
    - 1) leakage associated with transmission and distribution mains,
    - 2) overflow and leakage from storage tanks,
    - 3) leakage near service connections,
    - 4) illegal connections,
    - 5) description and explanations for excessive distribution line flushing (greater than 1% of the treated water volume delivered to the distribution system) for potability,
    - 6) fire suppression,
    - 7) un-metered system testing,
    - 8) under-registration of meters, and
    - 9) other discrepancies between the metered amount of finished water output from the treatment plant less the metered amounts used for residential and non-residential uses specified in Parts B and C above, and
  - B. A schedule for a remedial action-plan to reduce the water losses to below 10%.
5. **Alternative Water Supplied other than Reclaimed Water** - Permittees that provide Alternative Water Supplies other than reclaimed water (e.g., stormwater not treated for potable use) shall include the following on Part D of the Form:
  - A. Description of the type of Alternative Water Supply provided ,
  - B. County where service is provided,
  - C. Customer name and contact information,
  - D. Customer's Water Use Permit number (if any),
  - E. Customer's meter location latitude and longitude ,
  - F. Meter ownership information,
  - G. General customer use category,

- H. Proposed and actual flows in annual average gallons per day (gpd) per customer,
  - I. Customer cost per 1,000 gallons or flat rate information,
  - J. Delivery mode (e.g., pressurized or non-pressurized),
  - K. Interruptible Service Agreement (Y/N),
  - L. Month/year service began, and
  - M. Totals of monthly quantities supplied.
6. **Suppliers of Reclaimed Water** - Depending upon the treatment capacity of the Permittees wastewater treatment plant, the Permittee shall submit information on reclaimed water supplied as follows:
- A. Permittees having a wastewater treatment facility with an annual average design capacity equal to or greater than 100,000 gpd shall utilize the "SWFWMD Annual Reclaimed Water Supplier Report" in Excel format on the Compact Disk, Form No. LEG-R.026.00 (05/09). The "SWFWMD Annual Reclaimed Water Supplier Report" is described in Section 3.1 of Chapter 3, under the subheading "Reclaimed Water Supplier Report" and is described in detail in Appendix A to Part B, Basis of Review of the "Water Use Permit Information Manual."
  - B. Permittees that have a wastewater treatment facility with an annual average design capacity less than 100,000 gpd can either utilize the "SWFWMD Annual Reclaimed Water Supplier Report," Form No. LEG-R.026.00, as described in sub-part (1) above or provide the following information on Part E of the Form:
    - 1) Bulk customer information:
      - a) Name, address, telephone number,
      - b) WUP number (if any),
      - c) General use category (residential, commercial, recreational, agricultural irrigation, mining),
      - d) Month/year first served,
      - e) Line size,
      - f) Meter information, including the ownership and latitude and longitude location,
      - g) Delivery mode (pressurized, non-pressurized).
    - 2) Monthly flow in gallons per bulk customer.
    - 3) Total gallons per day (gpd) provided for metered residential irrigation.
    - 4) Disposal information:
      - a) Site name and location (latitude and longitude or as a reference to the service area map),
      - b) Contact name and telephone,
      - c) Disposal method, and
      - d) Annual average gpd disposed.

Authorized Signature

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

This permit, issued under the provision of Chapter 373, Florida Statutes and Florida Administrative Code 40D-2, authorizes the Permittee to withdraw the quantities outlined above, and may require various activities to be performed by the Permittee as described in the permit, including the Special Conditions. The permit does not convey to the Permittee any property rights or privileges other than those specified herein, nor relieve the Permittee from complying with any applicable local government, state, or federal law, rule, or ordinance.

## Notice of Rights

### ADMINISTRATIVE HEARING

1. You or any person whose substantial interests are or may be affected by the District's action may request an administrative hearing on that action by filing a written petition in accordance with Sections 120.569 and 120.57, Florida Statutes (F.S.), Uniform Rules of Procedure Chapter 28-106, Florida Administrative Code (F.A.C.) and District Rule 40D-1.1010, F.A.C. Unless otherwise provided by law, a petition for administrative hearing must be filed with (received by) the District within 21 days of receipt of written notice of agency action. "Written notice" means either actual written notice, or newspaper publication of notice, that the District has taken or intends to take agency action. "Receipt of written notice" is deemed to be the fifth day after the date on which actual notice is deposited in the United States mail, if notice is mailed to you, or the date that actual notice is issued, if sent to you by electronic mail or delivered to you, or the date that notice is published in a newspaper, for those persons to whom the District does not provide actual notice.
2. Pursuant to Subsection 373.427(2)(c), F.S., for notices of agency action on a consolidated application for an environmental resource permit and use of sovereignty submerged lands concurrently reviewed by the District, a petition for administrative hearing must be filed with (received by) the District within 14 days of receipt of written notice.
3. Pursuant to Rule 62-532.430, F.A.C., for notices of intent to deny a well construction permit, a petition for administrative hearing must be filed with (received by) the District within 30 days of receipt of written notice of intent to deny.
4. Any person who receives written notice of an agency decision and who fails to file a written request for a hearing within 21 days of receipt or other period as required by law waives the right to request a hearing on such matters.
5. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding District action is not available prior to the filing of a petition for hearing.
6. A request or petition for administrative hearing must comply with the requirements set forth in Chapter 28.106, F.A.C. A request or petition for a hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's action or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no material facts in dispute, and (3) otherwise comply with Rules 28-106.201 and 28-106.301, F.A.C. Chapter 28-106, F.A.C. can be viewed at [www.flrules.org](http://www.flrules.org) or at the District's website at [www.WaterMatters.org/permits/rules](http://www.WaterMatters.org/permits/rules).
7. A petition for administrative hearing is deemed filed upon receipt of the complete petition by the District Agency Clerk at the District's Brooksville headquarters during normal business hours, which are 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding District holidays. Filings with the District Agency Clerk may be made by mail, hand-delivery or facsimile transfer (fax). The District does not accept petitions for administrative hearing by electronic mail. Mailed filings must be addressed to, and hand-delivered filings must be delivered to, the Agency Clerk, Southwest Florida Water Management District, 2379 Broad Street, Brooksville, FL 34604-6899. Faxed filings must be transmitted to the District Agency Clerk at (352) 754-6874. Any petition not received during normal business hours shall be filed as of 8:00 a.m. on the next business day. The District's acceptance of faxed petitions for filing is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation, available for viewing at [www.WaterMatters.org/about](http://www.WaterMatters.org/about).

**JUDICIAL REVIEW**

1. Pursuant to Sections 120.60(3) and 120.68, F.S., a party who is adversely affected by final District action may seek judicial review of the District's final action. Judicial review shall be sought in the Fifth District Court of Appeal or in the appellate district where a party resides or as otherwise provided by law.
  
2. All proceedings shall be instituted by filing an original notice of appeal with the District Agency Clerk within 30 days after the rendition of the order being appealed, and a copy of the notice of appeal, accompanied by any filing fees prescribed by law, with the clerk of the court, in accordance with Rules 9.110 and 9.190 of the Florida Rules of Appellate Procedure (Fla. R. App. P.). Pursuant to Fla. R. App. P. 9.020(h), an order is rendered when a signed written order is filed with the clerk of the lower tribunal.