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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Big Bend Power Station Economizer Ash and Pyrite Pond System 13031 Wyandotte Road Gibsonton, FL 33572

Prepared for

Tampa Electric Company Tampa, FL

Prepared by Geosyntec Consultants, Inc. 12802 Tampa Oaks Boulevard Suite 151 Tampa, FL 33637

Project FR2814

January 26, 2021

EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency ("USEPA") coal combustion residuals ("CCR") rule (40 Code of Federal Regulations Part 257,Subpart D) ("CCR Rule"), this 2020 Annual Groundwater Monitoring and Corrective Action Report fulfills CCR reporting requirements for activities completed in 2020 at the economizer ash and pyrite pond system (EAPPS) located at Tampa Electric Company's (TEC) Big Bend Power Station (BBS) in Hillsborough County, Gibsonton, Florida.

In 2016, TEC established a CCR groundwater monitoring well network to monitor groundwater quality within the uppermost aquifer in the vicinity of the EAPPS. Per the requirements of 40 CFR 257.90(b), baseline monitoring was performed between June 2016 and August 2017, and detection monitoring for Appendix III constituents was conducted in 2018 and 2019. Statistical evaluation of CCR groundwater monitoring data collected through 2018 identified statistically significant increases ("SSIs") of pH (Appendix III constituent) above background levels at two monitoring well locations (BBS-CCR-1 and BBS-CCR-2). In April 2018, an Alternate Source Demonstration (ASD) established that the elevated groundwater pH was not a result of a release from the EAPPS. Therefore, a transition to assessment groundwater monitoring was not required.

Although the four years of groundwater data did not indicate that either assessment monitoring or an assessment of corrective measures at the EAPPS were required, TEC decided to close the EAPPS by removal (e.g., "clean closure") based on other provisions of the CCR Rule. The closure project was initiated in December 2019 and continued throughout 2020. Groundwater monitoring was terminated, and the five monitoring wells were abandoned in September 2020. The closure project is anticipated to be completed by no later than the end of 2021.

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ACRONYMS

| BBS | Big Bend Station |
|----------|---|
| CCR | Coal Combustion Residuals |
| CCR Rule | Coal Combustion Residuals Rule |
| CFR | Code of Federal Regulations |
| EAPPS | Economizer Ash and Pyrite Pond System |
| GWPS | Groundwater Protection Standard |
| PE | Professional Engineer |
| RCRA | Resource Conservation and Recovery Act |
| SP | Statistical Analysis Plan |
| SSI | Statistically Significant Increase |
| TEC | Tampa Electric Company |
| USEPA | United States Environmental Protection Agency |
| | |

1. BACKGROUND

On April 17, 2015, the United States Environmental Protection Agency (USEPA) published 40 Code of Federal Regulations (CFR) Parts 257 and 261: Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule (USEPA, 2015). This regulation addresses the safe disposal of coal combustion residuals (CCR) as solid waste under Subtitle D of the Resource Conservation and Recovery Act (RCRA) and is referred to herein as the CCR Rule. The CCR Rule became effective on October 14, 2015. The rule provides national minimum criteria for "the safe disposal of CCR in new and existing CCR landfills, surface impoundments, and lateral expansions, design and operating criteria, groundwater monitoring and corrective action, closure requirements and post closure care, and recordkeeping, notification, and internet posting requirements." The groundwater monitoring requirements of the CCR Rule apply to the economizer ash and pyrite pond system (EAPPS) at Tampa Electric Company's (TEC) Big Bend Power Station (BBS) in southeast Hillsborough County, Gibsonton, Florida (Figure 1).

This document has been prepared to meet the requirements of 40 CFR 257.90(e) concerning the Annual Groundwater Monitoring and Corrective Action reporting required by the CCR Rule for the EAPPS and BBS. At a minimum, the annual groundwater monitoring and corrective action report must contain the information described below and the information required by 257.90(e)(1) through (5), to the extent available.

"For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1)"

In late 2015, TEC decided to close the EAPPs voluntarily by removing all CCR material for offsite disposal and restoring the area to pre-development conditions. This closure is not driven by exceedances of Groundwater Protection Standards (GWPS) as demonstrated by the results of the Detection Monitoring Program. Nevertheless, since the bottom of the impoundment is periodically less than five feet from the mean high groundwater table elevation, TEC decided to close the impoundment by removal of all CCRs from the unit, which was inactivated and ceased receiving CCRs in April 2017. Engineering began in October 2018 and closure of the EAPPS commenced in December 2019. Excavation and disposal of CCRs continued in 2020 and final closure and restoration activities will be completed not later than the end of 2021.

This annual report covers the period January 1, 2020 through December 31, 2020. Sections of this report that are required by the CCR Rule but are not applicable for the reporting period, contain the text "Not applicable for this annual reporting period".

2. SITE DESCRIPTION

2.1 Site Setting

The BBS is located on the eastern shore of Tampa Bay in Sections 9, 10, 15, and 16, Township 31, Range 19 East of the Gibsonton Quadrangle, with the center of the facility at approximately 27°47'36" north latitude and 82°24'16" west longitude and encompasses approximately 1,492 acres. Topography at the Site ranges from approximately sea level (along the western portion of the BBS) to approximately 10 feet mean sea level (MSL) near the eastern portions of the property along U.S. Highway 41. The location of the BBS and the components of the EAPPS, namely the north and south economizer ash ponds and the suction pond, are shown on **Figure 2**.

Construction of BBS began in the late 1960s on two dredge/fill peninsulas. Four coal-fired power generating units are present at the BBS and were placed into service in 1970, 1973, 1976, and 1985. Units 1, 2, and 3 are wet-bottom slag-tap type units that originally used saltwater slag-handling systems and electrostatic precipitators for stack gas emissions control. However, these units are now operating as freshwater systems that allow more internal water recycling. Unit 4 is a dry-bottom unit with a closed-loop freshwater ash-sluice system. All units are equipped with electrostatic precipitators and stack gasses are treated with limestone flue gas desulfurization (FGD) and selective catalytic reduction (SCR) systems.

2.2 CCR Units

The EAPPS was built in the early 1980s to support the operation of Big Bend Unit 4 and consists of three lined ponds. The EAPPS is considered one CCR unit by 40 CFR 257.53 and is located approximately 1,000 feet southeast of the active power generating units (**Figure 1**). The EAPPS ceased operation in April 2017. Economizer ash from Unit 4 is now combined with bottom ash and the combined product is stored in the Bottom Ash Ponds at the site for offsite shipment and beneficial use.

The pond bottom and dike crest elevations for each pond are reportedly 5.5 ft NGVD and 31 ft, NGVD respectively. The South Economizer Ash Pond contains an estimated 337,400 cubic yards (cy) of CCR material over a surface area of 7.2 acres. The north pond contains an estimated 90,000 cy of CCR material (Geosyntec, 2016) over a surface area of 5.4 acres.

2.3 Summary of Site Geology and Hydrogeology

The units that form the hydrogeologic framework in the region include the surficial aquifer system (SAS), the Intermediate Confining Unit (ICU), and the upper Floridan aquifer system (UFAS). Based on Site-specific data as well as hydrogeologic studies of west-central Florida, the intermediate aquifer system has not been identified as being present at this location (Tihanksy and Knochenmus, 2001).

The SAS sediments consist of Pleistocene shell deposits and terrace sands. Due to the irregular surface of the underlying limestone, the SAS varies in thicknesses but typically ranges between 20 and 30 feet (ft) thick in the area of the Site (SWFWMD, 2010). Groundwater (the water table) in the SAS is unconfined. The groundwater flow direction in

the SAS is generally towards Tampa Bay as the discharge point; however, flow direction is influenced by various surface water features including ponds, drainage ditches, canals, and small creeks locally. Upward vertical flow gradients from the UFAS to the SAS are common based on historical data trends, and in certain cases can lead to artesian conditions (ECT, 2003; 2007).

The ICU resides within the undifferentiated Hawthorn Group. Due to the absence of the intermediate aquifer system, the permeable strata are absent and consequently the less permeable, fine grained clastic clay units are generally more prevalent. These clay units with varying silt, sand content, and marls comprise the semi-confining unit that separates the SAS and the UFAS.

The UFAS consists of a continuous series of carbonate units and is composed of the limestone sequences that occur in the Tampa Member of the Arcadia Formation of the Hawthorn Group as well as the underlying Suwannee Limestone and other carbonate strata. The Tampa Member encompasses sandy limestone containing varying amounts of clays and marls. The thickness of the UFAS may exceed 1,200 ft beneath the facility. Groundwater in the UFAS generally flows regionally from northeast to southwest towards Tampa Bay.

Additional details regarding the regional and Site-specific geology and hydrogeology are provided in the *CCR Rule Groundwater Monitoring Program Plan (GWMP)*, *Big Bend Power Station*, (October 2016).

2.4 Aquifer System Description

2.4.1 Identification of Uppermost Aquifer

The uppermost aquifer is defined by § 257.91(a)(1) as the geologic formation nearest the natural ground surface that is an aquifer, as well as lower aquifers that are hydraulically interconnected with this aquifer within the facility's property boundary. The uppermost aquifer at the Site is the SAS.

2.4.2 Groundwater Flow Direction

A surface water feature, Jackson Branch, to the north/northeast of the EAPPS appears to influence local groundwater flow toward the stream in contrast to the general groundwater flow direction at the BBS, which is east to west. The groundwater flow direction near the EAPPS has consistently been north to northeast from groundwater elevations generated during the September 2019 detection monitoring event, which was the final groundwater sampling event performed at the Site (**Appendix A**).

2.4.3 Groundwater Flow Rates

The average linear velocity of groundwater in the SAS at the EAPPS ranges from 0.03 to 0.07 ft/day¹. This flow velocity corresponds to a range of flow velocities from approximately 12

 $^{^{1}}$ Based on average hydraulic conductivity of 3.4 feet/day for SAS deposits, a porosity of 0.2 for sand, and horizontal hydraulic gradients between 0.002 and 0.004.



to 27 feet per year. An approximate groundwater flow velocity of 20 feet per year was estimated using the September 17, 2019 groundwater level measurements.

3. GROUNDWATER MONITORING SYSTEM

The groundwater monitoring system (GMS) installed at the EAPPS was designed to monitor the water quality in the SAS upgradient of the EAPPS to evaluate background concentrations and downgradient of the EAPPS to evaluate the potential effects of a release. The GMS consisted of two background monitoring wells (identified as BBS-CCR-BW1 and BBS-CCR-BW2) located hydraulically upgradient of EAPPS. Three monitoring wells (identified as BBS-CCR1, BBS-CCR-2, and BBS-CCR-3) were located at the waste boundary and at the "hydraulically downgradient perimeter (i.e., the edge) of the CCR unit or at the closest practical distance from this location" [80 FR 21400].

TEC initiated clean closure activities (CCR removal) of the EAPPs in December 2019. Therefore, all five GMS monitoring wells were abandoned and detection monitoring was not conducted in 2020. The former location of the monitoring wells comprising the GMS are shown on **Figure 3**.

3.1 Status of the Groundwater Monitoring and Corrective Action Program

Groundwater monitoring was initiated at the EAPPS in June 2016 in accordance with the requirements of 40 CFR 257.90(b). Ten sampling events were conducted as part of baseline monitoring between June 2016 and August 2017, and detection monitoring was conducted in 2018 and 2019.

The groundwater monitoring program was terminated in 2020 with the initiation of clean closure activities (CCR removal) of the EAPPs in December 2019 and the abandonment of the GMS monitoring wells in September 2020.

3.2 Identification of Monitoring Wells Installed, Abandoned, or Decommissioned -257.90 (E)(2)

The five monitoring wells comprising the GMS were abandoned on September 14, 2020 by a Florida licensed driller. The monitoring well construction information is provided in **Table 1**. Copies of the well abandonment permits from the Southwest Florida Water Management District and the abandonment forms are provided in **Appendix B**.

4. SUMMARY OF 2020 CCR RULE ACTIVITIES COMPLETED

4.1 Requirements Completed

Closure of the EAPPs continued through 2020 and are currently ongoing. These activities included dewatering, excavation, and offsite shipment of CCR for disposal in Class I Landfills in the region.

4.2 Completion of Required Reports

The following reports were completed during the reporting period:

• Annual Groundwater Monitoring and Corrective Action Report, Big Bend Power Station – Economizer Ash and Pyrite Pond System, January 2020.

4.3 **Problems Encountered and Resolution**

5. GROUNDWATER MONITORING DATA - 257.90(E)(3)

5.1 Detection Monitoring

Not applicable for this annual reporting period. As stated previously, detection monitoring has not been performed since 2019 following the initiation of closure by removal of the EAPPS by TEC.

5.1.1 Alternative Monitoring Frequency – 257.94(d)(3)

Not applicable for this annual reporting period.

5.1.2 Identification of Appendix III Constituents Detected at SSI Over Background – 257.94(e)

None.

5.1.3 Alternate Source Demonstration – 257.94(e)(2)

In April 2018, an ASD was successfully completed and certified by a Professional Engineer to address SSIs of groundwater pH at BBS-CCR-1 and BBS-CCR-2 in accordance with 40 CFR.94(e)(2). The groundwater pH SSIs in 2019 were shown to be a result of alternate sources.

5.1.4 Transition from Detection to Assessment Monitoring – 257.90(e)(4)

The detection monitoring program for the groundwater monitoring system was initiated in October 2017 pursuant to §257.90(b). Based on the monitoring results and the ASD completed in April 2018 in accordance with §257.94(e)(2), the EAPPS remained in detection monitoring until initiation of closure activities in December 2019.

5.2 Assessment Monitoring

None of the provisions of 40 CFR 257.95 were applicable for this annual reporting period. All closure activities for this unit will conclude in 2021.



6. DATA USABILITY EVALUATION



7. DETECTION MONITORING STATISTICAL ANALYSIS



8. ASSESSMENT MONITORING STATISTICAL ANALYSIS

9. ACTIVITIES PLANNED FOR 2021

The projected key activities for the upcoming year include the following:

• Continuation of the EAPPS closure activities in accordance with 40 C.F.R. § 257.102(c) (closure by removal).



10. CORRECTIVE MEASURES



11. REMEDY SELECTION

12. CORRECTIVE ACTION

Corrective action of the EAPPs is not required in accordance with the Rule. However, TEC has opted to closure the EAPPS in accordance with 40 C.F.R. § 257.102(c).

13. REFERENCES

- Environmental Consulting & Technology (ECT). 2003. Supplemental Assessment Report, Tampa Electric Company, Big Bend Station. Tampa, Florida.
- Environmental Consulting & Technology. 2007. Sodium Ground Water Quality Exemption Application for the TECO Big Bend Station. Tampa, Florida.
- Geosyntec Consultants, Inc. 2016. CCR Groundwater Monitoring Program Plan, Big Bend Power Station, Economizer Ash and Pyrite Ponds, September 2016.
- Geosyntec Consultants, Inc. 2016. Basins of Design and Preliminary Closure Evaluation Report; Economizer Ash and Pyrite Ponds; Big Bend Power Station, September 2016.
- Geosyntec Consultants, Inc. 2017. Groundwater Monitoring Well Design, Installation, Development, and Decommissioning Report, Big Bend Power Station, Economizer Ash and Pyrite Pond System, October 2017.
- Geosyntec Consultants, Inc. 2017. Statistical Analysis Plan, Big Bend Power Station, Economizer Ash and Pyrite Pond System, October 2017.
- Geosyntec Consultants, Inc. 2018. Alternate Source Demonstration, Economizer Ash and Pyrite Pond System, Big Bend Power Station, April 2018.
- Southwest Florida Water Management District, 2010. 2010 Regional Water Supply Plan, Tampa Bay Planning Region. Brooksville, Florida.
- Tihanksy, A.B. and L.A. Knochenmus. 2001. Karst Features and Hydrogeology in West-central Florida-A Field Perspective. US Geological Survey-Water-Resources Investigations Report 01-4011.
- USEPA, April 2015. 40 CFR Part 257, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule, EPA-HQ-RCRA-2009-0640.

TABLES

Table 1: Former CCR Monitoring Well Construction Details

TEC Big Bend Station Economizer Ash and Pyrite Pond System Gibsonton, FL

| Well ID | Designation | Northing (NAD 1983) | Easting (NAD 1983) | Ground Surface Elevation (ft NAVD) | TOC Elevation* (ft NAVD) | Total Depth (ft bls) | Screen Interval (ft bls) | Top of Screen Elevation (ft NAVD) | Bottom of Screen Elevation (ft NAVD) |
|-------------|-------------|------------------------|-----------------------|--|-----------------------------|-------------------------|-----------------------------|---|---|
| BBS-CCR-BW1 | Background | 1256638.34 | 528461.95 | 29.10 | 33.40 | 40 | 30-40 | -0.90 | -10.90 |
| BBS-CCR-BW2 | Background | 1256966.67 | 527897.28 | 7.70 | 12.54 | 19 | 9-19 | -1.30 | -11.30 |
| BBS-CCR-1 | Detection | 1257433.85 | 528211.74 | 5.00 | 9.82 | 17.5 | 7.5-17.5 | -2.50 | -12.50 |
| BBS-CCR-2 | Detection | 1257429.29 | 528769.31 | 5.00 | 9.34 | 17.5 | 7.5-17.5 | -2.50 | -12.50 |
| BBS-CCR-3 | Detection | 1257154.61 | 529023.26 | 4.90 | 9.20 | 18.5 | 8.5-18.5 | -3.60 | -13.60 |

Notes

1. Monitoring wells are 2 inches in diameter.

2. ft bls = feet below land surface

3. Horizontal datum surveyed to the North American Datum (NAD) of 1983 US State Plane Florida West.

4. Vertical datum surveyed to the North American Vertical Datum (NAVD) of 1988.

5. *Top of casing elevations were revised in September 2016 during final aboveground well completions. The additional PVC stickup was measured in the field and added to the surveyed top of casing elevation

FIGURES



Legend

- Long Term Fly Ash Pond/Reclaimed Water Pond (lined) South Economizer Ash Pond (lined) 1.
- 2. 3. 4.
- North Economizer Ash Pond (lined) Economizer Ash Suction Pond (lined)
- 5.
- 6.
- Economizer Ash Suction Pond (line South Bottom Ash Pond (lined) North Bottom Ash Pond (lined) Bottom Ash Suction Pond (lined) Settling Basins (concrete) Settling Pond (lined) South Recycle Pond (lined) North Recycle Pond (lined) Storm Water Pond 7.
- 8.
- 9.
- 10.
- 11. Storm Water Pond
- 12. Coal Field
- 13. 14. BB Aero Unit CT4
- 15.
- 16.
- 17.
- Rail Car Unloading Gypsum Storage Area Slag Dewatering Bins Long Term Bottom Ash Area 18.
- Dredge Disposal Area DA-2 19. Former Spray Field
- 20. 21. Limestone and FGD Area
- Approximate Site Boundary
- - Economizer Ash and Pyrite Pond System (EAPPS)

Notes:

- Site boundary provided by Tampa Electric Company.
 Source of 2014 Aerials: Florida Deparment of Tranpsortation, Surveying and Mapping Office.



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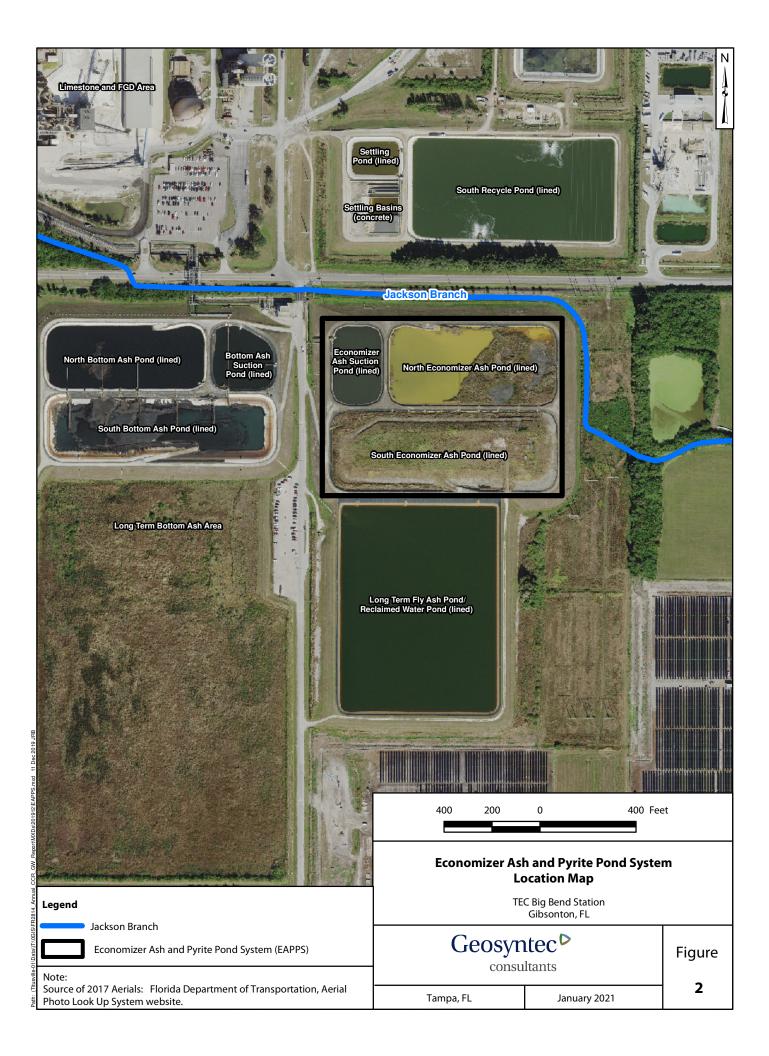
5

18

C C

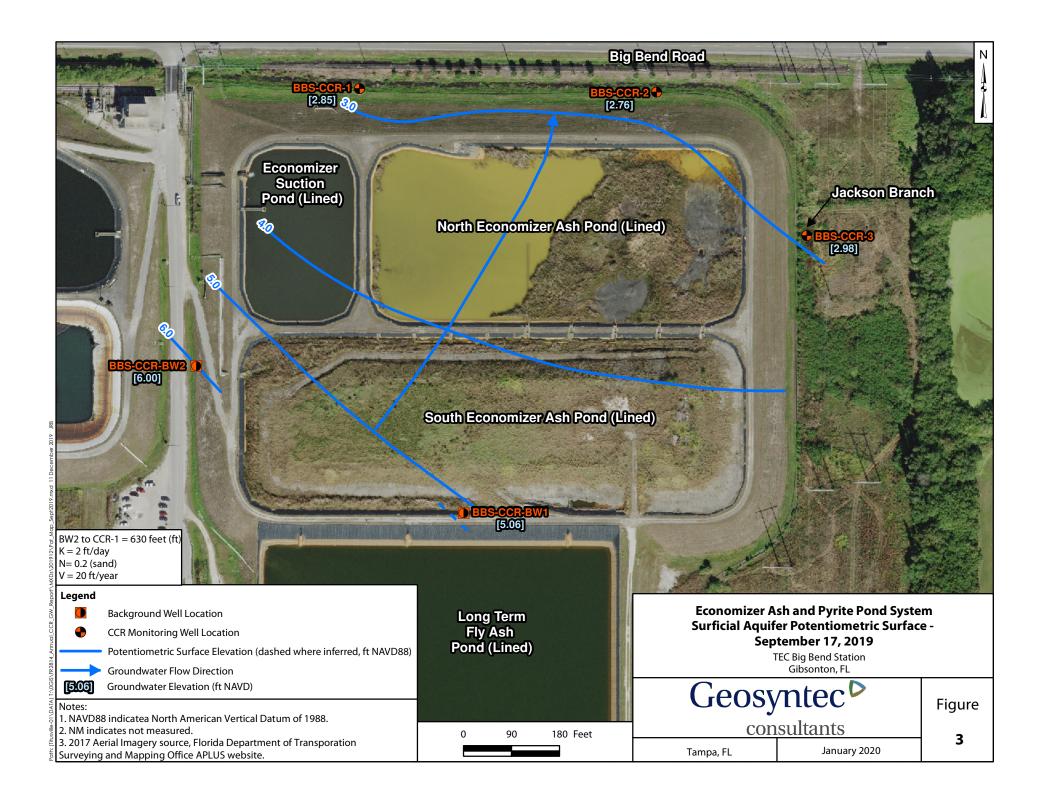
-14

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APPENDIX A September 2019 Surficial Aquifer Potentiometric Surface



APPENDIX B

SWFWMD Monitoring Well Abandonment Permits and Forms

| | STATE OF FLORIDA P REPAIR, MODIFY, OR | ERMIT APPLICATION TO CONSTRUCT, ABANDON A WELL | Permit No 891740 |
|----------------|--|--|--|
| Long the state | X Southwest Northwest St. Johns River South Florida Suwannee River DEP Delegated Authority (If | PLEASE FILL OUT ALL APPLICABLE FIELDS (*Denotes Required Fields Where Applicable) The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable. | Florida Unique ID Permit Stipulations Required (See Attached) 04 62-524 Quad No,Delineation No CUP/WUP Application No ABDVE THIS LINE FOR OFFICIAL USE ONLY |
| 1TAMPA ELECT | RIC CO TECO ENE | RGY CORP TAX DEPT TAMPA | _FL33601 |

| *Owner, Legal Name if Corporation *Address *City | *State | *ZIP *Tel | anhana Numhar |
|---|--|--|---|
| | | | ephone Number |
| 2. BIG BEND RD *Well Location - Address, Road Name or Number, City | AF | POLLO BEACH | |
| | | | |
| 3. 1331151SF000000005000U *Parcel ID No. (PIN) or Alternate Key (Circle One) | Lot | Block | Unit |
| 4153119Hillsborough | LUI | DIOCK | Unit |
| *Section or Land Grant Township *Range *County Subdivision | | Check if 62-5 | 24: Yes X No |
| 5. Gregory W Campbell 2613 (727) 561-7477 | | dsflorida.com | |
| *Water Well Contractor *License Number *Telephone Number | E-mail | Address | |
| 6. 8820 66th St. N. Pinellas Park | | FL | 33782 |
| *Water Well Contractor's Address City | | State | ZIP |
| 7. *Type of Work: Construction Repair Modification X Abandonment NO LO | ONGER IN USE | | |
| | | ion, or Abandonment | |
| 9. *Specify Intended Use(s) of Well(s): | | | Date Stamp |
| DomesticLandscape IrrigationAgricultural Irrigation | Site Investiga | tion Recei | ved |
| Bottled Water Supply Recreation Area IrrigationLivestock | Monitoring | | |
| Public Water Supply (Limited Use/DOH) Nursery Irrigation Public Water Supply (Limited Use/DOH) Public Water Supply (Community or Non-Community/DEP) Golf Course Irrigation | Test | Jul 21 | 1, 2020 8:23 am |
| Public Water Supply (Community or Non-Community/DEP) | Earth-Couple | d Geothermal | |
| Class I Injection | HVAC Supply HVAC Return | | |
| Class V Injection:RechargeCommercial/Industrial DisposalAquifer Storage and | Recovery [| Drainage | |
| Remediation:Air SpargeOther (Describe) | / | <u> </u> | |
| | | | Official Use Only |
| X Other (Describe) PLUGGED (Note: Not all types of wells are p | | | |
| 10.*Distance from Septic System if ≤ 200 ft. 0 11. Facility Description UTILITY | | 12. Estimated Start | Date 07/27/2020 |
| 13.*Estimated Well Depth ft. *Estimated Casing Depth ft. *Primary Casing Diar | meter <u>2</u> in | Open Hole: From | mToft. |
| 14. Estimated Screen Interval: From 10.0 To 20.0 ft. | | | |
| | Stainland St | and . | |
| 15.*Primary Casing Material:Black SteelGalvanized _X_PVCNotCasedOther: | Stainless St | eel | |
| | | | |
| 16. Secondary Casing:Telescope CasingLinerSurface Casing Diameter | | | |
| 17. Secondary Casing Material:Black SteelGalvanizedPVCStainle | ess Steel | Other | Sim (1997) and all the second second second second |
| 18."Method of Construction, Repair, or Abandonment:AugerCable Tool | Jetted I | Rotary Sonic | > |
| Combination (Two or More Methods) Hand Driven (Well Point, Sand Point) | | | |
| Horizontal Drilling Plugged by Approved Method Other (Describe) | | | |
| 19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing: | | | |
| From 0.0 To 20.0 Seal Material (Bentonite x Neat Cement Other | | | |
| From To Seal Material Bentonite Neat Cement Other From To Seal Material Bentonite Neat Cement Other |) | | |
| From 10 Seal Material Bentonite Neal Cement Other From To Seal Material Bentonite Neal Cement Other | { | | |
| | / | - | |
| 20. Indicate total number of existing wells on site 2 List number of existing un | | | |
| 21.*Is this well or any existing well or water withdrawal on the owner's contiguous property covered | | | |
| or CUP/WUP Application? Yes X No If yes, complete the following: CUP/WUP I | No | District Well II |) No |
| 22. Latitude 27 47 28.78 Longitude 82 23 35.99 | | | |
| | NAD 27 X | NAD 83WO | GS 84 |
| | | nformation provided is accurate, | |
| construction. I further config that all information provided in this application is accurate and that I will obtain the agent for the owner, the | hat the information provides | to maintain or properly abandon I is accurate, and that I have infe | emed the owner of his |
| necessary approximition over testion, state, or local governments, if application, i agree to provide a writi responsibilities as stated a completion report to the District within 30 days after completion of the construction, repair, modification, or the well site during the construction, whichever occurs first. | above. Owner consents to instruction, repair, modifical | allowing personnel of this WMD ion, or abandonment authorized | or Delegated Authority access to by this permit. |
| And a second | | | |
| Digitally Signed 2613 Digitally Signe | ed | 7 | /21/2020 |
| *Signature of Contractor *License No. *Signature of Own | ner or Agent | *Da | ate |
| DO NOT WRITE BELOW THIS LINE - FOR OFFICI | IAL USE ONLY | 1791 W. Rean do real | |
| Approval Granted By Automatically Issued issue Date 07/21/2020 | Expiration Date 10 | 19/2020 Hydrologis | |
| Fee Received \$_00 Receipt No. | Check No. | | hritals |
| THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESEN | | | AUTHORITY THE |
| PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICAT | ION, OR ABANDO | NMENT ACTIVITIES. | SOTIONIT, THE |

FORM LEG-R.040.01 (6/10) Rule 40D-3.101 (1), F.A.C. EFFECTIVE DATE: 9/12/2010 This permit is valid for 90 days from the date of Issue.

| STATE OF FLORIDA P REPAIR, MODIFY, OR | | TO CONSTRUCT, | Permit No | 891741 | |
|---|---|--|--|--|---|
| X Southwest | | | Florida Unique ID | | |
| Northwest St. Johns River | | ields Where Applicable) | Permit Stipulation: | | |
| South Florida | The water well contractor is this form and forwarding the | permit application to the | 04 62-524 Quad No. | Q3120 De | lineation No |
| DEP | appropriate delegated autho | | CUP/WUP Applica | ation No. | |
| Delegated Authority (If | Applicable) | | | | OFFICIAL USE ONLY |
| | and a subscription of the source of the subscription of the | | | | |
| | RGY CORP TAX DEPT | ГАМРА | _FL33 | 601 | *Telephone Number |
| *Owner, Legal Name if Corporation | | | | | |
| 490 BIG BEND RD *Well Location - Address, Road Name or Number | ar, City | | APOL | LO BEACH | |
| 3. <u>1931151SF00000003000U</u> *Parcel ID No. (PIN) or Alternate Key (Circle One | | | Lot | Block | Unit |
| 415 3119 | Hillsborough | | | | |
| *Section or Land Grant *Township *Range | *County | | | | 62-524: Yes X No |
| 5. Gregory W Campbell "Water Well Contractor | 2613 | (727) 561-7477 Telephone Number | chad@pdsfl E-mail Add | lorida.com | |
| 6. 8820 66th St. N. | License ivonidei Pi | nellas Park | | | 22702 |
| *Water Well Contractor's Address | | LY | | State | <u>33782</u> ZIP |
| 7. *Type of Work: ConstructionRepair | ModificationA | | | | |
| 8. *Number of Proposed Wells <u>5</u> 9. *Specify Intended Use(s) of Well(s): | | Reason for | Repair, Modification, e | or Abariconmen | Date Stamp |
| DomesticLandscape Irri Bottled Water SupplyRecreation Are | igationAgricu | Itural Irrigation | | | Received: |
| | ea IrrigationLivest | | Monitoring Test | | Jul 21, 2020 8:25 am |
| Public Water Supply (Limited Use/DOH) Public Water Supply (Community or Non-Com | nmunity/DEP)Com | nercial/Industrial | Earth-Coupled G | eothermal | |
| Class I Injection Class V Injection:RechargeCommercial | | | HVAC Return | nage | |
| Remediation:RecoveryAir Sparge | | | | | £ |
| X Other (Describe) PLUGGED | [Note | : Not all types of wells are perm | itled by a given permit | ting authority) | Official Use Only |
| 10.*Distance from Septic System if ≤ 200 ft. 0 | 11. Facility Description | | 12. | Estimated S | Start Date 07/27/2020 |
| 13.*Estimated Well Depth40 ft. *Estimated C | asing Depthft. | Primary Casing Diameter | er <u>2</u> in. | Open Hole: | FromToft. |
| 14. Estimated Screen Interval: From 35.0 To 40 | | | | | |
| 15.*Primary Casing Material:Black Steel NotCased | Galvanized Other: | X PVC | _Stainless Steel | | |
| 16. Secondary Casing:Telescope Casing | | | in. | | |
| 17. Secondary Casing Material:Black Steel | Galvanized | | SteelOt | her | |
| 18."Method of Construction, Repair, or Abandonme | | 2 | | | |
| Combination (Two or More Methods) | | Point, Sand Point) Other (Describe) | Hydraulic Poi | int (Direct P | ush) |
| 19. Proposed Grouting Interval for the Primary, Sec | condary, and Additional C | asing: | | | |
| From <u>0.0</u> To <u>40.0</u> Seal Material (From To Seal Material (| Bentonite X Neat Cer Bentonite Neat Cer | | | | |
| From To Seal Material (| Bentonite Neat Cer | nentOther | ; | | |
| From To Seal Material (20. Indicate total number of existing wells on site 3 | BentoniteNeat Cer | |) | | |
| 20. Indicate total number of existing wells of site 3 21.*Is this well or any existing well or water withdraw | | number of existing unuse | | | Depart (CLIRAN/LIR) |
| or CUP/WUP Application?Yes X_N | | | | | |
| 1 | tude 82 23 42.42 | | | - 0,00,000 | |
| 23. Data Obtained From:GPS X Map | Survey | Datum: NA | D 27 X NA | D 83 | WGS 84 |
| Thereby certify that I will comply with the applicable rules of Tide 40, Florida Actin use permit or artificial recharge permit. If neorido, has been or will be obtained pr construction. I further eccely that all internation provided in this applicable, completion report to the Obstruction state, or local governments, if applicable, abandonment authorized by this permit, or the permit expection, whichever occu abandonment authorized by this permit, or the permit expection, whichever occu | for to commencement of well curate and that I will obtain I agree to provide a well in, repair, modification, or | responsibilities under Chapter 3 the agent for the parter, that the | 73, Florida Statutes, to ma information provided is ac Owner concents to allowing | intain or properly a ourate, and that i k ng personnel of th | is WMD or Delegated Acthority access to |
| Digitally Signed | 2613 | Digitally Signed | | | 7/21/2020 |
| *Signature of Contractor | "License No. DT WRITE BELOW THIS | *Signature of Owner of | A DESCRIPTION OF A DESC | | *Dale |
| Approval Granted By Automatically Issued | | ate 07/21/2020 Exp | | FOR THE R. L. | |
| Fee Received \$_00 | Receipt No. | | Check No | | britals |
| THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED PERMIT SHALL BE AVAILABLE AT THE WELL SITE DUI | D BY AN AUTHORIZED OF RING ALL CONSTRUCTION | FICER OR REPRESENTATI | VE OF THE WMD , OR ABANDONME | OR DELEGA | TED AUTHORITY, THE |

FORM LEG-R.040.01 (6/10) Rule 40D-3.101 (1), F.A.C. EFFECTIVE DATE: 9/12/2010 This permit is valid for 90 days from the date of Issue.

| STATE OF FLORI Southwest Northwest St. Johns River South Florida Suwannee River DEP Delegated Authority (I | PLEASE, FILL OU (*Denotes Requ | TALL APPLICABL uired Fields Wh | E FIELDS | | Received: Nov 9, 2020 | le Slamp 9:59 am al Use Only |
|--|--|--|---|---|--|---|
| 1."Permit Number_891740 *CUP/WUP | Number | -DI | D Number | 62-524 | Delineation No | |
| 2.*Number of permitted wells constructed, repaired, | | | and the second | Contraction of the second s | | |
| 3.*Owner's NameTAMPA ELECTRIC CO | A LANGER OF | 7 | | | | 1000 0 10 10 10 10 10 10 10 10 10 10 10 |
| 6. BIG BEND RD "Well Location - Address, Road Name or Numbe | APOLI | O BEACH | | | | |
| 7. "County_Hillsborough "Sect | | Grant | | "Township | o <u>31</u> ⁼R | ange 19 |
| 8. Latitude 27 47 28.64 | Longitude 82 23 36.0 | 07 | | | | |
| 9. Data Obtained From:GPSX Map 10.*Type of Work:ConstructionRepair | Contraction of the local division of the loc | COLUMN STREET, | Datum:NAE | 27 <u>X</u> NAD | 83W | GS 84 |
| | al/Industrial Disposal | gation - | | ionTe dustrialEe rigationH Drainage | te Investigatior onitoring est arth-Coupled G VAC Supply VAC Return | |
| X Other (Describe) PLUGGED | | | | | | |
| Horizontal Drilling 13. 'Measured Static Water Level6.0 ft. M 14. 'Measuring Point (Describe) 15. 'Casing Material:Black SteelGalv 16. 'Total Well Depth17.0 ft. Cased Depth17. 17. 'Abandonment:XOther (Explain) PLUC 2" Fromft. Toft. No. of Bags Fromft. Toft. No. of Bags | leasured Pumping W wanized X PVC 0 ft. *Open Hole: F GGED 34 Seal Material (Seal Material (| /ater Level is ft Stainle fromTo Check One): Check One): | ft. After AboveBel ss SteelNot ft. "Scree XNeat Cement Neat Cement | Hours ow Land Surface CasedOti n: FromTo Bentonite Bentonite | atG *Flowing: herft. Slo 0ther 0ther | PM _YesNo t Size |
| Fromft. Toft. No. of Bags Fromft. Toft. No. of Bags | Seal Material (| Check One): | Neat Cemen | Bentonite | Other | |
| Diain. Fromft. Toft. N | lo. of Bags lo. of Bags | Seal Material (Seal Material (| | | | Other Other |
| Diain. Fromft. Toft. N Diain. Fromft. Toft. N Diain. Fromft. Toft. N Diain. Fromft. Toft. N | lo. of Bags lo. of Bags lo. of Bags lo. of Bags lo. of Bags lo. of Bags | Seal Material (Seal Material Seal Material Seal Material Seal Material | Check One): Check One): Check One): | Neat Cement Neat Cement Neat Cement | Bentonite Bentonite Bentonite | Other Other Other Other Other |
| Diain. Fromft. Toft. N | No. of Bags No. of Bags No. of Bags | Seal Material Seal Material Seal Material | (Check One): | Neat Cement | Bentonite | Other Other Other |
| Diain. Fromft. Toft. M | No. of Bags No. of Bags No. of Bags | Seal Material Seal Material Seal Material | (Check One): | Neat Cement | Bentonite | Other Other Other |
| 22. Pump Type (If Known): CentrifugalJetSubmersibl Horsepower Pump Capacity (GPM | | 23. Chen Iron | nical Analysis (Whe ppm Sulf | en Required): fateppn | n Chloride _ | ppm |
| Pump Depthft. Intake Depthft 24. Water Well Contractor: | | | Laboratory Test | Field Te | st Kit | |
| *Contractor Name Gregory W Campbell | *License Numbe | r_2613 | E-mail Addr | ress chad@pdsflo | rida.com | |
| *Contractor's Signature Digitally Signed | ed in this report is accurate | Ind" | er's Name (Print or | Type) Brian Ehrh | art | |

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT 4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 WWW.NWFWMD.STATE.FL.US SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
|------|-----|----|-----|-------|----------------------|----------|
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft, | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F. M. C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |

BBS-CCR-3

*Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

| A COLOR METERS | STATE OF FLORI | PLEASE, FILL OL ("Denotes Req | UT ALL APPLICAB Juired Fields W | | | | Date Stamp d: 020 9:59 am fficial Use Only |
|---|--|---|---|---|---|---|---|
| 1.*Permit Number 8917 | 40 CUP/WUP | Number | | D Number | 62-5 | 24 Delineation | No |
| 2.*Number of permitted | wells constructed, repaired, | or abandoned | 2 *Number | of permitted well | s not constructed, | repaired, or al | bandoned1 |
| 3.*Owner's Name | TAMPA ELECTRIC CO | | 4. "Comple | tion Date 09/14/2 | 020 5. Florid | la Unique ID _ | |
| 6. BIG BEND RD Well Location - Add | ress, Road Name or Number | | LO BEACH | | | | |
| 7. *County Hillsboroug | h *Sect | ion15 Land | i Grant | | *Town: | ship <u>31</u> | *Range 19 |
| 8. Latitude 27 47 24.72 | | ongitude 82 23 36. | .79 | diama di seconda | | | |
| | :GPS <u>X</u> Map | | | | AD 27 X N | AD 83 | _WGS 84 |
| Public Water Supp Public Water Supp Class I Injection Class V Injection: | e(s) of Well(s): pply bly (Limited Use/DOH) bly (Community or Non-Community Recharge Commercia coveryAir Sparge | nunity/DEP) //Industrial Disposal | igation | | gation I/Industrial e Irrigation | Site Investiga Monitoring Test Earth-Coupled HVAC Supply HVAC Return ge | d Geothermal |
| X Other (Describe) PL | | | | | | | |
| 14. *Measuring Point (De 15. *Casing Material: | Horizontal Drilling | easured Pumping V mized X PVC 2 ft. Open Hole: 34 Seal Material Seal Material Seal Material Seal Material | Vater Level h isft FromTo (Check One): (Check One): (Check One): (Check One): | ft. Af Abovet ss Steelt ft. "Scr X Neat Cem Neat Cem Neat Cem Neat Cem | terHou Below Land Surfa Not Cased een: From entBenton entBenton entBenton | rs at ce "Flowing: Other Toft, iteOthe iteOthe iteOthe | _GPM YesN Slot Size er er er |
| 18. Surface Casing Dia Diain. Fron Diain. Fron | meter and Depth: nft. Toft. N | o. of Bags o. of Bags | Seal Material Seal Material | (Check One): | _Neat CementNeat Cement | Bentonite | Other |
| 19. *Primary Casing Dia Diain, From Diain, From Diain, From Diain, From Diain, From Diain, From Diain, From Diain, From | nft. Toft. N nft. Toft. N nft. Toft. N nft. Toft. N eter and Depth: nft. Toft. N nft. Toft. N | o. of Bags o. of Bags o. of Bags o. of Bags o. of Bags o. of Bags o. of Bags | Seal Material | (Check One): (Check One): (Check One): (Check One): (Check One): | Neat Cement Neat Cement Neat Cement Neat Cement Neat Cement Neat Cement | Bentonite Bentonite Bentonite Bentonite Bentonite Bentonite Bentonite | Other Other Other Other Other Other Other |
| Diain. Fror 21.*Telescope Casing I Diain. Fror Diain. Fror Diain. Fror | Diameter and Depth: mft. Toft. N mft. Toft. N | o. of Bags o. of Bags o. of Bags o. of Bags | | | Neat Cement_ Neat Cement_ Neat Cement_ Neat Cement_ | Bentonite Bentonite Bentonite Bentonite | Other Other Other |
| 22. Pump Type (If Knor Centrifugal Horsepowerf Pump Depthf 24. Water Well Contract | JetSubmersible Pump Capacity (GPM) tIntake Depthft | | 23. Cher Iron | nical Analysis (M ppm \$ _Laboratory Test | Sulfate | opm Chlorid Test Kit | eppm |
| *Contractor Name Gree | gory W Campbell | License Numbe | er 2613 | E-mail A | ddress chad@pds | florida.com | |
| "Contractor's Signature | e Digitally Signed | d in this report is accurate | *Drill | er's Name (Print | or Type) Brian E | hrhart | |

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

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| | | Coarse) | | | | |
|------|-----|---------|-----|---------|----------------------|----------|
| rom | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
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| rom | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| -rom | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft, | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| rom | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ſt. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F. M, C) | Material |
| ΡΖ | | | | | | |
| | | | _ | *Detail | | |

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

| COLOR DE LA COLOR | STATE OF FLOR Southwest Northwest St. Johns River South Florida Suwannee River DEP Delegated Authority | PLEASE, FILL OL ("Denotes Req | UT ALL APPLICABI Juired Fields Wi | E FIELDS |) | | Date Stamp ad: 2020 10:28 am Official Use Only |
|---|---|--|--|--|--|--|---|
| 1.*Permit Number_891741 | CUP/WU | P Number | *DI | D Number | 62- | 524 Delineation | n No. |
| 2.*Number of permitted w | | Contraction of the second s | | | | | 1.21.4 |
| 3. "Owner's Name1 | | ON A STATISTICS | 7. 699.13 | | | | |
| 6, 490 BIG BEND RD | | | LO BEACH | | | iou enique ie . | |
| | ess, Road Name or Numb | | LO BEAGIT | | | | |
| 7. *County Hillsborough | *Se | ction15 Land | d Grant | | *Tow | nship <u>31</u> | *Range19 |
| 8. Latitude 27 47 32.59 | and | Longitude 82 23 44. | .80 | | | | |
| 9. Data Obtained From: | GPS X Map | Survey | | | NAD 27 X | NAD 83 | _WGS 84 |
| 10. "Type of Work:0 11. "Specify Intended Use Domestic Bottled Water Supply Public Water Supply Class I Injection Class V Injection:F Remediation:Reco | (s) of Well(s): ly / (Limited Use/DOH) / (Community or Non-Cor Recharge Commerc | _Landscape Irrigatio _Recreation Area Irr mmunity/DEP) ial/Industrial Disposal | in - rigation - IAquifer S | Agricultural Livestock Nursery Irri Commercia Golf Cours torage and Rec | gation al/Industrial e Irrigation woveryDrain | Monitoring Test Earth-Couple HVAC Supp HVAC Retur | ed Geothermal |
| X Other (Describe) PLU | | Other (Describe) | | | | | - |
| 13. *Measured Static Wate 14. *Measuring Point (Des 15. *Casing Material: 16. *Total Well Depth 17. *Abandonment: 2* Fromft. To Fromft. To | cribe)Black SteelGa 7.0_ft. Cased Depth _17 | Measured Pumping V Whici Ivanized X PVC 7.0 ft. "Open Hole: JGGED 0.34 Seal Material Seal Material | Vater Level h isft cStainle FromTo (Check One): (Check One): | ft. A Above | fterHe Below Land Surf Not Cased reen: From nentBento nentBento | ours at face "Flowing Other Toft. oniteOth oniteOth | GPM : Yes No |
| Fromft. To Fromft. To 18.*Surface Casing Diam Dia in, From | | Seal Material Seal Material | (Check One): (Check One): Seal Material (| Neat Cen | and the second s | | er Other |
| Diain. From 19.*Primary Casing Dian Diain. From Diain. From Diain. From Diain. From Diain. From | tt. Toft. neter and Depth: ft. Toft. ft. Toft. ft. Toft. ft. Toft. | No. of Bags No. of Bags No. of Bags No. of Bags No. of Bags No. of Bags | Seal Material Seal Material Seal Material Seal Material Seal Material Seal Material | Check One): (Check One): (Check One): (Check One): (Check One): | Neat Cement Neat Cement Neat Cement Neat Cement Neat Cement Neat Cement | Bentonite Bentonite Bentonite Bentonite Bentonite | Other Other Other Other Other Other Other |
| 20. "Liner Casing Diamet Diain. From Diain. From Diain. From | ft. Toft. ft. Toft. | No. of Bags No. of Bags No. of Bags | Seal Material Seal Material Seal Material | | Neat Cement Neat Cement Neat Cement | Bentonite | Olher Olher Olher |
| 21.*Telescope Casing D Diain. From Diain. From Diain. From | ft. To ft. ft. To ft. ft. To ft. | No. of Bags No. of Bags No. of Bags | Seal Material Seal Material Seal Material | (Check One): | Neat Cement Neat Cement Neat Cement | Bentonite | Olher Other Other |
| 22. Pump Type (If Know Centrifugal | n): Jet Submersil | ble Turbine | | ALC: NOT ALC: ALC: NOT ALC: NO | When Required): | | |
| Horsepower Pump Depthft. 24. Water Well Contract | Pump Capacity (GPI Intake Depth | M) | Iron | ppm _Laboratory Tes | Sulfate tFie | _ppm Chlori Id Test Kit | deppm |
| *Contractor Name Grego | ory W Campbell | License Numbe | er 2613 | E-mail A | ddress chad@pd | dsflorida.com | |
| *Contractor's Signature | | | Drill | and the second | t or Type) Brian | | |

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

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| From | n. | To | ft. | Color | Grain Size (F, M, C) | Material |
|------|-----|----|-----|-------|----------------------|----------|
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
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| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
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| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
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| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |

*Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

| X South North St. Jo South South DEP | | PLEASE, FILL OL (*Denotes Req | UT ALL APPLICAB Juired Fields W | E FIELDS | | | Date Stamp ed: 2020 10:28 am Official Use Only |
|--|--|---|---|---|--|---|---|
| 1."Permit Number 891741 | CUP/WUP Nu | mber | *DI | D Number | 6 | 2-524 Delineatio | n No. |
| 2. Number of permitted wells cons | | | | | | | |
| 3. "Owner's Name TAMPA EL | | | | | | | And the second second |
| 6. 490 BIG BEND RD | | APOL | LO BEACH | | | | |
| "Well Location - Address, Road | | | | | | | |
| 7. *County Hillsborough | | | | | •To | wnship <u>31</u> | *Range 19 |
| 8. Latitude 27 47 32.59 | | | | | | | |
| 9. Data Obtained From:GP 10.*Type of Work:Construct | | | | | NAD 27 X | _NAD 83 | WGS 84 |
| 11. "Specify Intended Use(s) of We Domestic Bottled Water Supply Public Water Supply (Limited Public Water Supply (Commu Class I Injection Class V Injection:Recharge Remediation:Recovery | Lai Re Use/DOH) unity or Non-Commu Commercial/In | dustrial Disposal | igation | Livestock Nursery In Commerc Golf Cours torage and Re | rigation ial/Industrial se Irrigation | Site Investig Monitoring Test Earth-Coupl HVAC Supp HVAC Return inage | ed Geothermal ly |
| X Other (Describe) PLUGGED | | | | | | | |
| 12.*Drill Method: Auger Hori 13.*Measured Static Water Level 14.*Measuring Point (Describe) 15.*Casing Material: Black 3 16.*Total Well Depth 30.0 ft. C 2"From 0.00 ft. From ft. From ft. To ft. From ft. To ft. | zontal Drilling <u>6.0</u> ft. Measure SteelGalvani cased Depth <u>30.0</u> ft er (Explain) <u>PLUGG</u> No. of Bags <u>0.60</u> No. of Bags | Hydraulic Poir sured Pumping V ized X PVC to "Open Hole: I ED Seal Material Seal Material | ht (Direct Push) Vater Level h isft Stainle FromTo | XOther ft. A Above ss Steel ft. *Sr Neat Cer Neat Cer | r PLUGGED BY After _Below Land St _Not Cased creen: From nentBer mentBer | APPROVED MET Hours at urface * Flowing OtherOtherft. Toft. htoniteOth | GPM : Yes No |
| Fromft. Toft. Fromft. Toft. | No. of Bags | Seal Material | (Check One): (Check One): | Neat Cer | mentBer | ntoniteOth | ner |
| 18.*Surface Casing Diameter and Diain. Fromft. Diain. Fromft. | Depth: Toft. No. o Toft. No. o | of Bags | Seal Material Seal Material | Check One): | Neat Cemer | ntBentonite_ | Other |
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| 22. Pump Type (If Known): | 0.1 | | 23. Cher | nical Analysis (| When Required | | |
| Horsepower Pum | Submersible p Capacity (GPM) Depthft. | Turbine | Iron | ppm _Laboratory Te | SulfateF | ppm Chlori ield Test Kit | deppm |
| *Contractor Name Gregory W Car | npbell | *License Numbe | er _2613 | E-mail | Address chad@ | pdsflorida.com | |
| *Contractor's Signature Digitally s | Signed the information provided in | this report is accurate | *Drill | S. A. | nt or Type) Brian | Alana - | |

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 WWW.NWFWMD.STATE.FL.US SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

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| *Detailed Site Map of Well Location | 1 |

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

| STATE OF FLOR Southwest Northwest St. Johns River South Florida Suwannee River DEP Delegated Authority | PLEASE, FILL OU (*Denotes Req | TALLAPPLICABI uired Fields Wi | | | Date Stamp Received: Nov 9, 2020 10:28 am Official Use Only | |
|---|---|--|--|--|--|-----|
| 1.*Permit Number 891741 *CUP/WU | P Number | "DI | D Number | 62-524 | Delineation No. | |
| 2. Number of permitted wells constructed, repaired | | | No. 1 Contraction | | | |
| 3. "Owner's Name TAMPA ELECTRIC CO | | T | | | | |
| 6. 490 BIG BEND RD | and the second se | LO BEACH | | | | |
| "Well Location - Address, Road Name or Numb | | LOBERON | | | | - |
| 7. "County_Hillsborough "Se | ction 15 Land | Grant | | *Townshi | p <u>31</u> Range 19 | 9 |
| 8. Latitude 27 47 24.83 | Longitude 82 23 42. | 72 | | | | |
| 9. Data Obtained From:GPS X Map | Survey | | | AD 27 X NAC | 83WGS 84 | |
| Bottled Water Supply Public Water Supply (Limited Use/DOH) Public Water Supply (Community or Non-Con Class I Injection Class V Injection:Recharge Commerce | Landscape Irrigation Recreation Area Irri mmunity/DEP) ial/Industrial Disposal | n - igation - Aquifer S | Agricultural I Livestock Nursery Irrig Commercial Golf Course | ationT /IndustrialE IrrigationH | ite Investigation Ionitoring est arth-Coupled Geothermal IVAC Supply IVAC Return | |
| Remediation:RecoveryAir Sparge XOther (Describe) PLUGGED | Other (Describe) _ | | | | | - |
| 12. "Drill Method: Auger Cable Too Horizontal Drilling 13. "Measured Static Water Level 6.0 ft. 14. "Measuring Point (Describe) 15. "Casing Material: Black Steel 16. "Total Well Depth 40.0 ft. 17. "Abandonment: XOther (Explain) 2" From 0.00 ft. To 40.00 ft. No. of Bags | Hydraulic Poin Measured Pumping W Which alvanized XPVC 0.0_ft. *Open Hole: f UGGED | nt (Direct Push) /ater Level nisft Stainle FromTo | XOther_F ft. Aftu AboveB iss SteelN ft. *Scree | PLUGGED BY APPR erHours elow Land Surface ot CasedO een: FromTo | OVED METHOD atGPM *Flowing:Yes ther ft. Slot Size | _No |
| Fromft. Toft. No. of Bags 18. *Surface Casing Diameter and Depth: | Seal Material (Seal Material (Seal Material (| (Check One):_ (Check One):_ (Check One):_ | Neat Ceme Neat Ceme Neat Ceme Neat Ceme | entBentonite entBentonite entBentonite | Other Other Other | |
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| 20.*Liner Casing Diameter and Depth: Diain. Fromft. Toft. Diain. Fromft. Toft. Diain. Fromft. Toft. | No. of Bags No. of Bags No. of Bags | | (Check One): (Check One): (Check One): | Neat Cement Neat Cement Neat Cement | BentoniteOlher BentoniteOther BentoniteOther | - |
| 21.*Telescope Casing Diameter and Depth: Diain. Fromft. Toft. Toft. | No. of Bags No. of Bags No. of Bags | Seal Material Seal Material Seal Material | (Check One): (Check One): | _Neat Cement _Neat Cement _Neat Cement | BentoniteOther BentoniteOther BentoniteOther | _ |
| 22. Pump Type (If Known): Centrifugal Jet Horsepower Pump Capacity (GPI Pump Depth ft. 1000 Intake Depth 24. Water Well Contractor: | M) | | nical Analysis (Wppm Si ppm Si _Laboratory Test | hen Required): ulfateppr Field Te | | pm |
| *Contractor Name Gregory W Campbell | License Numbe | r 2613 | E-mail Ad | dress chad@pdsflc | orida.com | _ |
| "Contractor's Signature Digitally Signed | ided in this report is accurate | *Drill | 1.0 | or Type) Brian Ehrl | 4.5 | |

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT 4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 WWW.NWFWMD.STATE.FL.US SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

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| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
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| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | То | ft, | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
| From | ft. | To | ft. | Color | Grain Size (F, M, C) | Material |
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| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
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Comments: Finish: PLUGGED

-CCR-BW-1

*Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

| X Southwest Northwest St. Johns River South Florida Suwannee River DEP | (*Denotes Req | UT ALL APPLICABLE F uired Fields When | iELDS e Applicable) | | Date Stamp acceived: by 9, 2020 10:28 am Official Use Only |
|---|--|---|---|---|--|
| 1.*Permit Number_891741 *CUP | WUP Number | "DID N | lumber | 62-524 Deline | eation No. |
| 2. Number of permitted wells constructed, rep | | | | | |
| 3. "Owner's Name TAMPA ELECTRIC CC | | | | | |
| | | | Date | _ o. Honda oniqu | |
| 490 BIG BEND RD "Well Location - Address, Road Name or N | | LO BEACH | | | |
| 7. *County_Hillsborough | Section 15 Land | d Grant | | *Township 3 | 1 Range 19 |
| 8. Latitude 27 47 27.61 | | | | | |
| 9. Data Obtained From: GPS X M | | | um:NAD 27 | X NAD 83 | WGS 84 |
| 10.*Type of Work:ConstructionF | | | the second se | | |
| | -Community/DEP) nercial/Industrial Disposa | rigation | | Monitor Test trial Earth-C ion HVAC S HVAC F | ing coupled Geothermal Supply |
| X Other (Describe) PLUGGED | | | | | |
| 13. *Measured Static Water Level <u>6.0</u> 14. *Measuring Point (Describe) <u>15. *Casing Material:</u> Black Steel <u>16. *Total Well Depth <u>17.0</u> ft. Cased Depth <u>17. *Abandonment: X</u>Other (Explain)</u> | ngHydraulic Poi ft. Measured Pumping V Whic Galvanized XPVC n <u>17.0</u> ft. "Open Hole: PLUGGED | nt (Direct Push) Vater Level h isft h isft ftStainless FromTo | X Other PLUGO ft. After Above Below Steel Not Cas ft. "Screen: F | SED BY APPROVED Hours at Land Surface * Flo sedOther romTo | GPM GPM YesNo ft. Slot Size |
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| 21.*Telescope Casing Diameter and Depth: Diain. Fromft. To Diain. Fromft. To Diain. Fromft. To | ft. No. of Bags ft. No. of Bags ft. No. of Bags | Seal Material (C Seal Material (C Seal Material (C | heck One): Nea | it CementBent it CementBent it CementBent | |
| 22. Pump Type (If Known): | mathin Theorem | | al Analysis (When R | | Long Long |
| CentrifugalJetSubm Horsepower Pump Capacity | | Iron | ppm Sulfate | ppm (| Chlorideppm |
| Pump Depthft. Intake Depth | | L | aboratory Test | Field Test Kit | |
| 24. Water Well Contractor: | | | | Second and | |
| *Contractor Name Gregory W Campbell | *License Numb | er 2613 | E-mail Address | chad@pdsflorida.c | com |
| *Contractor's Signature Digitally Signed | n provided in this report is accurat | *Driller' | s Name (Print or Ty | oe) <mark>Brian Ehrhart</mark> | |

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

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4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

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SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

| rom | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |
|------|-----|----|-----|-------|----------------------|----------|
| From | ft. | То | ft. | Color | Grain Size (F. M. C) | Material |
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| From | ft. | То | ft. | Color | Grain Size (F, M, C) | Material |

CCR-BW-2

*Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

| OD WT THE | STATE OF FL X Southwest Northwest St. Johns River South Florida Suwannee Rive DEP Delegated Author | PLE (*D | ASE, FILL OUT enotes Requ | ALL APPLICABLI ired Fields Wh | | | | Received: Nov 9, 202(| ate Stamp 0 10:28 am iial Use Only |
|--|--|---|--|--|---|---|---|--|---|
| Permit Number 89174 | 41*CUP | WUP Number | 1 | | Number | | 62-524 Del | ineation No | o |
| Number of permitted | | | | | | | | | |
| Owner's Name | TAMPA ELECTRIC C | 0 | | 4. Complet | ion Date 09/14/ | 2020 5 | . Florida Unic | ue ID | |
| 490 BIG BEND RD | | | | O BEACH | | | | | |
| *Well Location - Add | ress, Road Name or N | | | | | | | | |
| *County Hillsboroug | h | "Section 1 | 5 Land | Grant | | | *Township | 31 1 | Range 19 |
| Latitude 27 47 31.73 | | Longitud | le 82 23 47.5 | 59 | | | | | |
| Data Obtained From | GPS X | MapSu | rvey | C | Datum: | NAD 27 | X_NAD 83 | v | VGS 84 |
| Public Water Supr | | Landsca | ape Irrigation tion Area Irrig | - | Agricultura Livestock Nursery Irr Commerci | | Monil Test Earth HVA0 | toring | on Geothermal |
| Class I Injection lass V Injection: emediation:Re | coveryAir Sparg | mercial/Industr | rial Disposal | Aquifer S | torage and Rec | covery | | Sitterum | |
| X Other (Describe) PL 2.*Drill Method: | UGGED | | | | | | | | O |
| 3. *Measured Static W. 4. *Measuring Point (Do 5. *Casing Material: 6. *Total Well Depth | Horizontal Dril ater Level 6.0 escribe) Black Steel 17.0 ft. Cased Dep | ft. Measured Galvanized | Pumping W Which | t (Direct Push) /ater Level nisft Stainle | Abovess Steel | fter Below Land | Hours at_ dSurface | Flowing: | GPM Yes |
| 2"From 0.00 ft. To From ft. To From ft. To From ft. To | X Other (Explain 17.00 ft. No. of Ba ft. No. of Ba | gs <u>0.34</u> Si gs Si gs Si os Si | eal Material (eal Material (eal Material (| Check One):_ Check One):_ Check One): | Neat Cer Neat Cer Neat Cer | nent nent nent | Bentonite Bentonite Bentonite Bentonite Bentonite | Other Other | |
| 8. Surface Casing Dia Diain. Fro Diain. Fro | mft. To | _ft. No. of Ba _ft. No. of Ba | ags | Seal Material Seal Material | (Check One):_ (Check One):_ | Neat Ce | | ntonite ntonite | Other Other |
| 9. Primary Casing Di Diain. Fro Diain. Fro Diain. Fro Diain. Fro Diain. Fro | mft.To mft.To mft.To mft.To | _ft. No. of Ba ft. No. of Ba | ags ags ags | Seal Material Seal Material Seal Material | (Check One):_ | Neat Ce Neat Ce Neat Ce Neat Ce Neat Ce | ment Be ment Be ment Be | ntonite ntonite ntonite ntonite | Other Other Other Other Other |
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Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.