

Turkey Point Units 3 and 4  
Docket Nos. 50-250 and 50-251  
Recovery Well System Startup Report  
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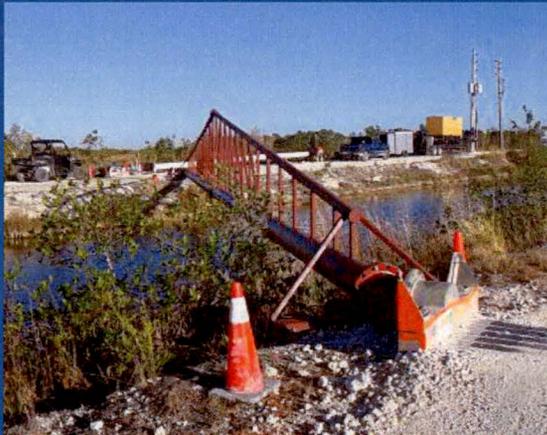
## **Enclosure 1**

### **Recovery Well System Startup Report**

**October 5, 2018**

# Recovery Well System Startup Report

October 5, 2018



Prepared for:



Prepared by:



***FPL Turkey Point Recovery Well System Startup Report  
October 2018***

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***Acronyms and Abbreviations***

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# ACRONYMS AND ABBREVIATIONS

CCS	Cooling Canal System
CSEM	Continuous Surface Electromagnetic Mapping
D	deep well
DERM	Division of Environmental Resources Management
DIW	deep injection well
DUS	data usability summary
F.A.C.	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FPL	Florida Power & Light Company
ft	feet
gpm	gallons per minute
HDPE	high-density polyethylene
ID	interceptor ditch
m <sup>3</sup>	cubic meters
M	intermediate depth well
MDC	Miami-Dade County Department of Regulatory and Economic Resources
mgd	Million gallons per day
mg/L	milligrams per liter
ppt	parts per thousand
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RWS	Recovery Well System
S	shallow well
SCADA	Supervisory Control and Data Acquisition
SFWMD	South Florida Water Management District
SOP	Standard Operating Procedure

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***Acronyms and Abbreviations***

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TDS	total dissolved solids
TEM	transient electromagnetic method
UIC	Underground Injection Control

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**Executive Summary**

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## **EXECUTIVE SUMMARY**

Florida Power & Light Company (FPL) successfully initiated operations of the Turkey Point Recovery Well System (RWS) on May 15, 2018. This approved groundwater remediation system is designed to intercept, capture, and retract hypersaline groundwater (with a chloride concentration greater than 19,000 milligrams per liter [mg/L]) located to the west and north of FPL's property without creating adverse environmental impacts. FPL has prepared this RWS Startup Report, as outlined in letters from Miami Dade County Department of Regulatory and Economic Resources (MDC) dated September 29, 2016, and May 15, 2017. This RWS Startup Report includes baseline groundwater monitoring data and Continuous Surface Electromagnetic Mapping (CSEM) survey results collected prior to startup of the RWS, data collected during the first quarter of operation (May 15, 2018, through August 15, 2018), and information on RWS design and operation.

During this period, the system operated as designed, with the pumps collectively running approximately 96% of the time. Measured drawdown associated with the operation of the RWS was *de minimis* and has not resulted in adverse impacts to wetlands or water resources. There were no operations of the interceptor ditch (ID) pumps during the first quarter of RWS operations.

During the first quarter of RWS operations, approximately 1.4 billion gallons of hypersaline groundwater containing 577 million pounds of salt were removed from the Biscayne Aquifer. There are no proposed changes to the RWS operations at this time.

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***1. Introduction***

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# **1. INTRODUCTION**

Florida Power & Light Company (FPL) submits this Recovery Well System (RWS) Startup Report pursuant to Paragraph 29.a., of the Florida Department of Environmental Protection (FDEP) June 20, 2016, Consent Order and the Miami-Dade County Department of Regulatory and Economic Resources' (MDC) letters dated September 29, 2016, and May 15, 2017. The RWS became fully operational on May 15, 2018, and the first quarter of operation concluded on August 15, 2018. This RWS Startup Report includes:

- as-built drawings of the RWS, new monitoring wells, ancillary equipment and piping;
- baseline groundwater sampling data collected from specific monitoring wells prior to the startup of the RWS;
- baseline Continuous Surface Electromagnetic Mapping (CSEM) survey results used to assess the extent of hypersaline groundwater north and west of the FPL Turkey Point property boundary prior to RWS startup;
- groundwater data collected from the recovery wells and monitoring wells during the first quarter of RWS operations;
- groundwater elevation contour maps and a drawdown/cone of influence/capture zone map;
- an evaluation of the potential adverse impacts to surrounding groundwater, wetlands, or other environmental resources; and
- a description of any optimization to the system subsequent to RWS startup.

Section 2 of this RWS Startup Report includes an overview of the RWS, including extraction wells, the piping system, and monitoring wells. Detailed design and as-built drawings of the RWS are included in Appendix A. Section 3 of this report contains a summary of the baseline monitoring and CSEM survey, RWS operational information, Quarter 1 RWS and monitoring well data, groundwater elevation and drawdown maps, an assessment of potential environmental impacts and operational optimization. Geophysical logs from the RWS wells, monitoring well construction report, field sampling logs, data usability summaries, Level IV lab reports, and CSEM Baseline Summary Report are included as Appendices B through G in this report.

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**2. Recovery Well System**

## **2. RECOVERY WELL SYSTEM**

The Turkey Point RWS includes 10 groundwater recovery wells, a conveyance pipeline system, and a deep injection well (DIW) (Figure 2.1-1). The recovery wells are designed to extract hypersaline groundwater preferentially along the base of the Biscayne Aquifer. The shallow and intermediate zones of the Biscayne aquifer in each recovery well are cased off, thereby allowing hypersaline groundwater to be pulled from the high-flow zones of the lower portion of the Biscayne aquifer. Accordingly, recovery well depths vary from 90 to 105 feet (ft) below ground surface, with wells casings set approximately 25 ft above the bottom. Table 2.1-1 provides the location of each recovery well and construction details (i.e., depth, casing sizes, borehole diameter).

Each recovery well is equipped with a line shaft turbine pump powered by a 150-horsepower electric motor with a capacity of approximately 2 million gallons per day (mgd). The current RWS has a permitted withdrawal allocation of 15 mgd, with each well set to withdraw 1.5 mgd of hypersaline groundwater. A Supervisory Control and Data Acquisition (SCADA) system provides centralized operation of the RWS and has the capability to monitor and regulate individual well withdrawal rates and maintain total extraction capacity in the event of individual well fluctuations based on manual or programmed operational protocols. Figure 2.1-2 shows a typical recovery well with pump motor and valves. Further details regarding the recovery wells, pumps, motors, and appurtenances are found in Appendix A. Geophysical logs for the recovery wells are provided in Appendix B.

Hypersaline groundwater pumped from each recovery well is routed through a 14-inch-diameter high-density polyethylene (HDPE) pipe to a main 28-inch header pipeline. The header pipeline network connecting all of the RWS extraction wells to the DIW are approximately 9 miles long (Figure 2.1-1). All piping is buried for protection; a photograph of the header pipeline during construction is shown on Figure 2.1-3. Further details on the pipeline system and specifications are included in Appendix A.

The DIW is located near the center of the Cooling Canal System (CCS) (Figure 2.1-1). The DIW is a 24-inch-diameter permitted Underground Injection Control (UIC) non-hazardous Class I industrial wastewater disposal well (Permit No. 0293962-004-UO/11) constructed to a depth of 3,230 ft below ground surface into the regionally confined Boulder Zone. Figure 2.1-4 shows the DIW wellhead, appurtenances, and well construction details. Monitoring of the DIW is conducted in part, via a dual-zone monitoring well, pursuant to permit conditions (Figure 2.1-5).

The assessment of progress made in meeting the objectives of the FDEP Consent Order and the MDC Consent Agreement hypersaline groundwater remediation is informed, in part, by a series of existing and newly added monitoring wells. New RWS monitoring well clusters TPGW-17, TPGW-18, and TPGW-19 were constructed west of the CCS pursuant to paragraph 17.d.iv. of the Consent Agreement to monitor progress of the retraction of the hypersaline plume. Three

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separate wells were installed at each location: a shallow well (S), located in the upper high-flow zone of the Biscayne aquifer; an intermediate depth well (M) in the middle high-flow zone; and a deep well (D) along the base of the aquifer. The borehole for the deep well was drilled first, and down-hole geophysical methods were used to help determine high-flow zones and other subsurface characteristics. Screen depths were established, with screen lengths varying from 2 to 5 ft, based on site conditions, to ensure high-flow zones at each depth were being monitored. Appendix C provides further details on these three new monitoring well clusters.

All monitoring wells, recovery wells and the DIW are equipped with automated probes (In Situ LT500 and AT100 probes or Hach 3700) that allow the collection of hourly water level, temperature, specific conductivity, salinity, and density data. In addition, the monitoring wells, RWS extraction wells, and inflows into the DIW are sampled for select analytic water quality data ranging from weekly to monthly frequencies. All data required under the provisions of the MDC Consent Agreement are collected, processed, and quality controlled under the approved Turkey Point Quality Assurance Project Plan (QAPP). Provisional quality assurance (QA)/quality control (QC) data and associated documentation are posted on an FPL database and provided to MDC, FDEP, and the South Florida Water Management District (SFWMD) in annual reports. Provisional water quality and water level data collected during the first quarter of RWS operations are discussed in Section 3 of this report.

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***2. Recovery Well System***

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**TABLES**

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**2. Recovery Well System**

**Table 2.1-1. Recovery Well Locations and Construction Summary.**

Well Number	Latitude	Longitude	Completed 36-inch Steel Surface Casing Set Depth (feet bls)	Completed 24-inch PVC Final Well Casing Set Depth (feet bls)	Completed Total Target Depth based on core data (feet bls) Nominal 24-inch boring	Completed Open Interval (production zone; feet)
RWS-1	25.44614	-80.35218	40	70	95	25
RWS-2	25.43801	-80.34566	40	70	100	30
RWS-3 (APT Well)	25.43437	-80.35131	49	72	90	18
RWS-4*	25.42280	-80.35412	40	64	90	26
RWS-5	25.40941	-80.35887	50	64	90	26
RWS-6	25.39878	-80.36268	50	70	95	25
RWS-7	25.38746	-80.36670	40	74	105	31
RWS-8	25.37725	-80.36752	40	74	99	25
RWS-9	25.36835	-80.36754	40	70	90	20
RWS-10	25.35940	-80.36759	40	70	90	20

NOTE:

\*RW-4 was constructed with an 18-inch final well casing.

Key:

bls = below land surface

APT = aquifer performance test

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***2. Recovery Well System***

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**FIGURES**

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Figure 2.1-1. Location and Layout of Recovery Well System and Monitoring Wells.

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***2. Recovery Well System***



Figure 2.1-2. A Typical Recovery Well with Pump Motor and Valves.

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***2. Recovery Well System***

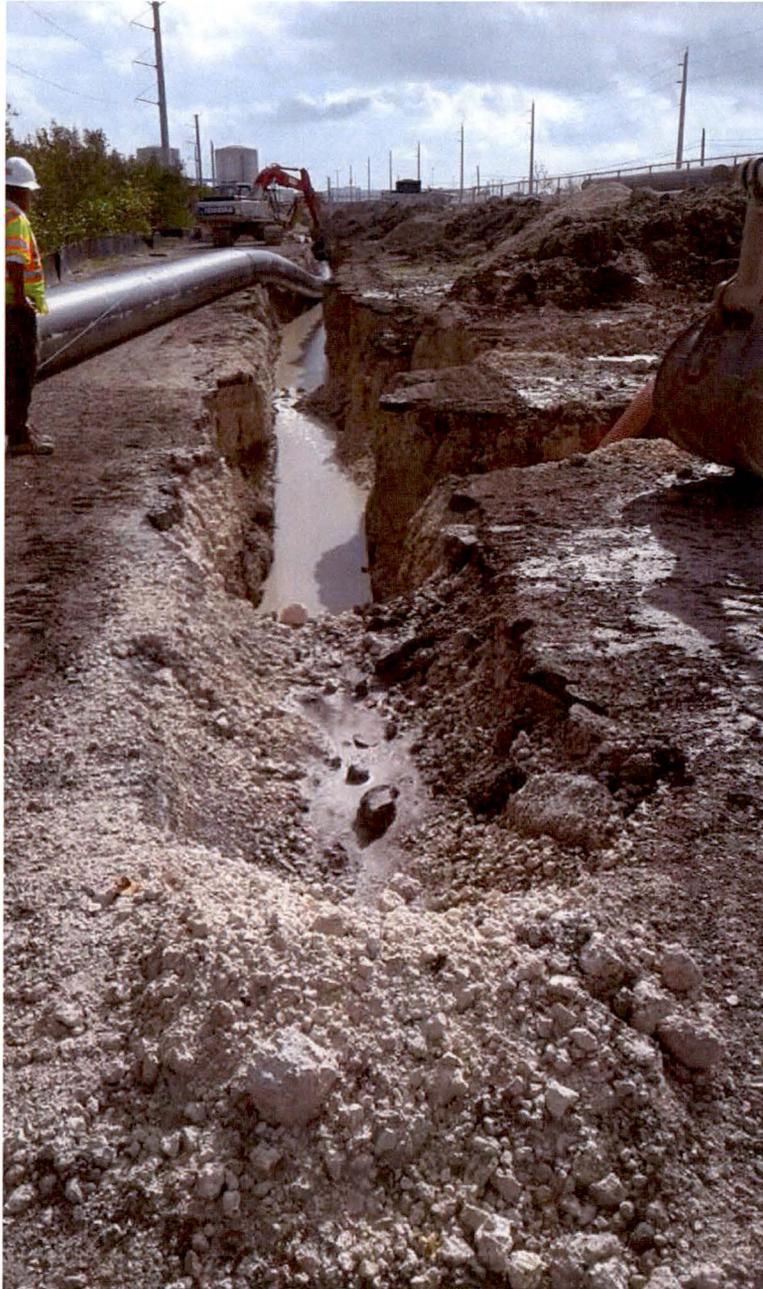


Figure 2.1-3. HDPE Header Pipeline Installation.

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**2. Recovery Well System**

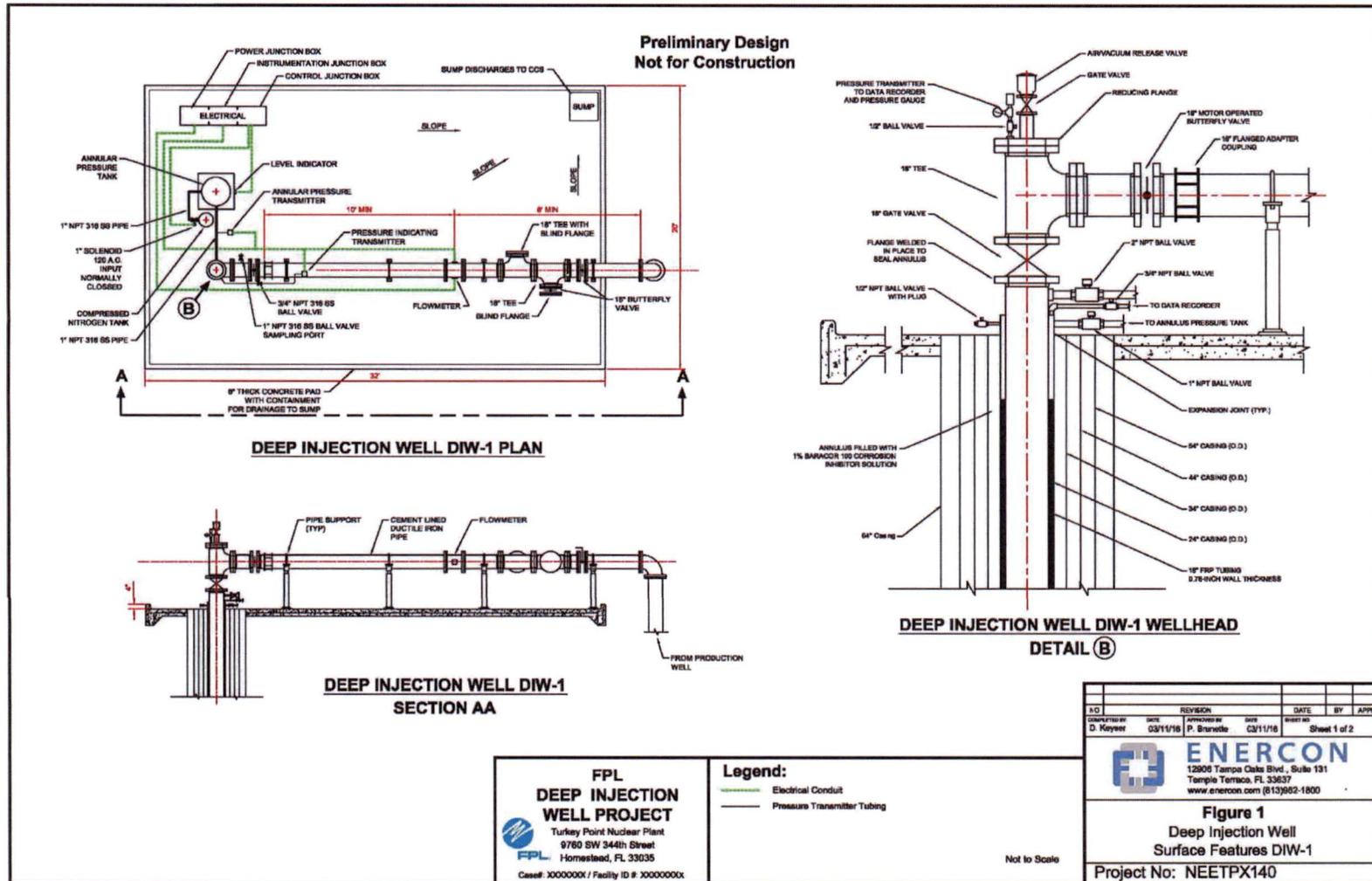


Figure 2.1-4. Turkey Point DIW-1 Injection Well.

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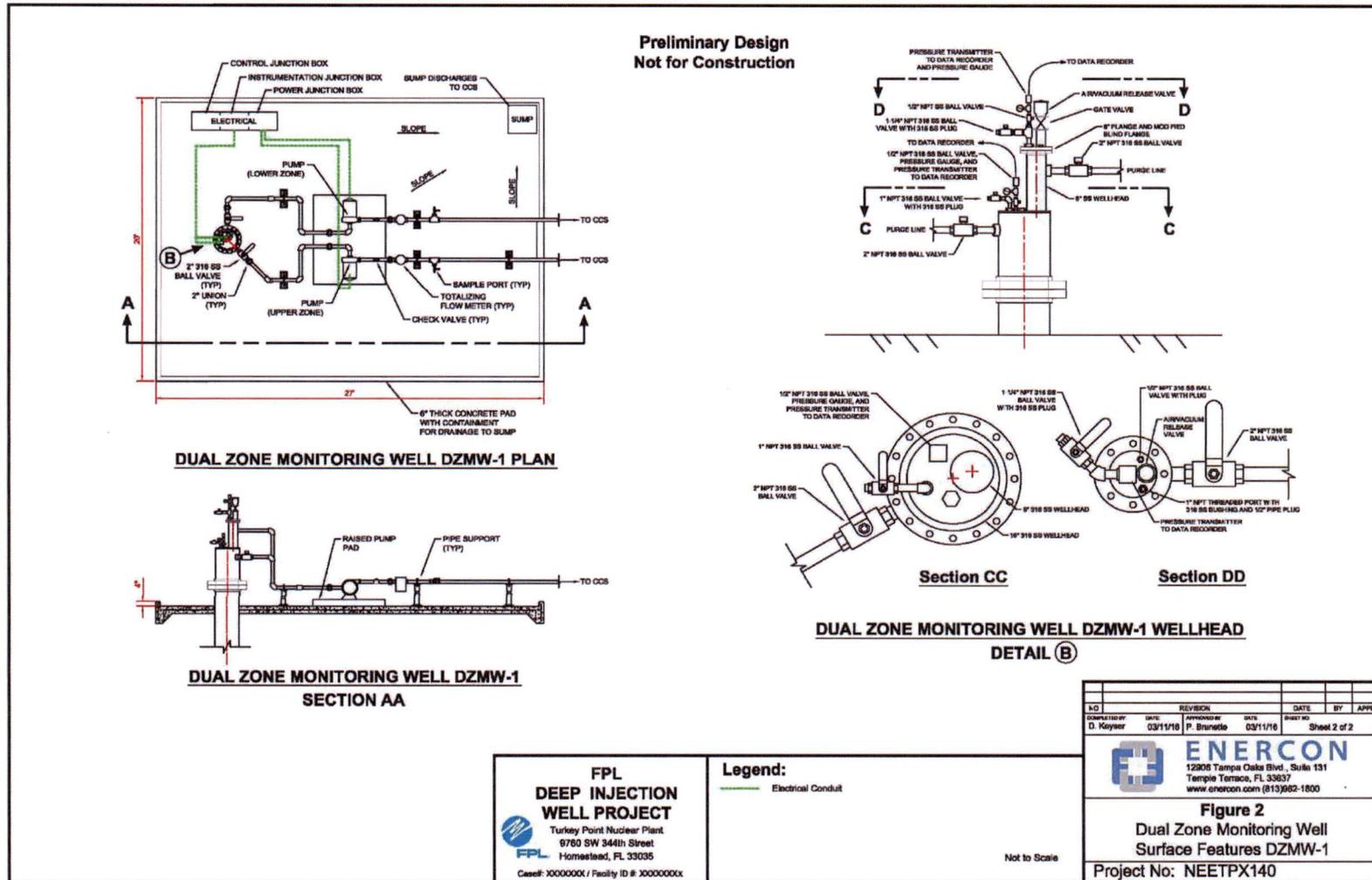


Figure 2.1-5. Turkey Point DIW-1 Dual Zone Monitoring Well.

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***October 2018***      ***3. Recovery Well System Baseline Data and First Quarter of Operation***

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## **3. RECOVERY WELL SYSTEM BASELINE DATA AND FIRST QUARTER OF OPERATION**

FPL conducted a baseline CSEM survey and collected groundwater data from the recovery wells and select monitoring wells prior to RWS startup (baseline groundwater data) and for the first quarter of operation, consistent with the MDC letters dated September 29, 2016, and May 15, 2017. This section presents the baseline information, a summary of RWS monitoring data and operation, and a discussion of influence of the RWS on groundwater and impacts to adjacent wetlands during the first quarter of operation.

### **3.1 Baseline Monitoring Results**

FPL collected baseline groundwater samples between March 13, 2018, and April 3, 2018, from new monitoring well clusters TPGW-17, TPGW-18, and TPGW-19, historical well clusters TPGW-1, TPGW-2, TPGW-4, TPGW-5, TPGW-7, and TPGW-12, and historical individual wells TPGW-L3, TPGW-L5, TPGW-G21, and TPGW-G28 (Figure 3.1-1). Field parameters (temperature, specific conductance, salinity, density, and total dissolved solids [TDS]) were measured and samples were collected for laboratory analysis of tritium and chloride at each of the wells/well clusters. Groundwater levels were also measured during sampling. The results are presented in Table 3.1-1. Groundwater sampling logs from the March 2018 sampling event are provided in Appendix D of this report. Data usability summary (DUS) reports for the event are provided in Appendix E, and the Level IV laboratory reports are included in Appendix F.

Samples were collected at discrete screen intervals from the shallow, intermediate, and deep wells at TPGW-1, TPGW-2, TPGW-4, TPGW-5, TPGW-7, TPGW-12, TPGW-17, TPGW-18, and TPGW-19 well clusters. The historical individual wells, TPGW-L3, TPGW-L5, and TPGW-G21, are continuously screened across the formation; the exception is TPGW-G28 which is hard-cased to 18 ft below the top of casing. These individual well samples were collected at 18 ft and 58 ft below top of casing. Samples from the groundwater well clusters were collected using dedicated tubing, and all samples were collected per the methods outlined in the QAPP (FPL 2013) and FDEP Standard Operating Procedures (SOPs).

All sites, besides TPGW-17, TPGW-18, and TPGW-19, have a long-term record of quarterly water quality data dating back to 2010. There are also automated water elevation, specific conductance, temperature, and salinity data collected at 15-minute to 1-hour intervals since 2010 except for the three new well clusters which have a shorter period of record and TPGW-L3, TPGW-L5, TPGW-G21, and TPGW-G28 which are not equipped with automated instrumentation. Table 3.1-2 shows baseline groundwater elevations at a specific point in time from the different monitoring locations. As the individual wells do not have automated instrumentation, the closest temporal field measurements from these sites were used.

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**3. Recovery Well System Baseline Data and First Quarter of Operation**

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Hourly automated groundwater water level data show groundwater levels are influenced by tidal cycles to varying degrees as well as rainfall, dry periods, and density of the waters within the sampled horizon. Accordingly, area groundwater elevations vary temporally (throughout each day due to tidal influences as well as daily, weekly, and seasonally) and vertically (within the aquifer due to variations in salinity) at any given sample site.

### **3.2 CSEM Baseline Survey**

As outlined in Section 3b of the MDC letter dated May 15, 2017, and paragraph 29(a) of the FDEP Consent Order, FPL conducted a baseline CSEM survey to map the extent and orientation of the hypersaline groundwater plume west and north of the Turkey Point Plant. The survey was conducted in late March/early April 2018 (within 60 days of RWS startup) and encompassed approximately 30 square miles to the west and north of the CCS, including an area beneath the edge of the CCS and the FPL property boundary and an area north and northwest of the CCS. The survey was performed using a helicopter equipped with a transient electromagnetic method (TEM) transmitter and receiver system. The TEM system measures the bulk resistivity of specific depths of earth materials and associated groundwater. Chloride concentrations of groundwater were inferred from the resistivity values derived from the TEM data via the process illustrated in Fitterman and Prinos (2011) as described in the PTN Cooling Canal System electromagnetic geophysical survey report (ENERCON 2016). 3D voxels (discrete cells of specific chloride concentration) were created based on the vertical and horizontal discretization of the TEM data and extend from the land surface to the base of the Biscayne Aquifer (Fish and Stewart 1991) and west and north of the FPL property, as defined in the MDC Consent Agreement. The report summarizing the 2018 baseline survey and results is provided in Appendix G.

In addition to mapping groundwater with chloride concentrations greater than >19,000 milligrams per liter (mg/L), FPL evaluated the CSEM method to identify a reliable lower limit of chloride estimation for mapping. As the chloride ion content of pore waters in the Biscayne Aquifer decreases, the influence of porosity variations on the bulk conductivity of the bedrock/pore water combination increases. At some lower limit of chloride ion content, the geologic noise from porosity variations becomes too large for reliable mapping of chloride ion content using the CSEM method. To determine the lower limit for reliable mapping of chloride ion values, the accuracy of predicting pore water chloride ion values for waters with chloride levels <19,000 mg/L was compared to the accuracy of mapping chloride for waters >19,000 mg/L. The evaluation indicated that the average CSEM chloride ion prediction error is about the same for pore waters with chloride ion contents >10,000 mg/L as for pore waters with chloride ion contents >19,000 mg/L. However, prediction accuracy decreases significantly for pore water chloride ion contents <10,000 mg/L. Based on this analysis, the reliable lower limit of the CSEM TEM survey for mapping chloride ion content within the Biscayne Aquifer is 10,000 mg/L.

The CSEM survey determined that the maximum westward extent of the hypersaline groundwater, as defined by chloride concentrations in excess of 19,000 mg/L west and north of the FPL property (MDC September 29, 2016), is approximately 16,000 ft west of the western

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boundary of the CCS at a depth of 47 to 55 ft. The plume does not extend as far west at shallower and deeper depths, indicating that the hypersaline plume is wedge-shaped, with the tip of the wedge at about 55 ft below land surface. At both shallower and deeper depths, the plume does not extend as far west. The presence of hypersaline water at the base of the Biscayne Aquifer (87.0 to 99.4 ft below land surface) extends only about 5,600 ft westward from the CCS. The baseline volume of the material with chloride concentrations greater than 19,000 mg/L within the compliance area west and north of the FPL property as identified in the MDC Consent Agreement is estimated to be 450,493,000 cubic meters (m<sup>3</sup>). The estimate sums the volume of each model cell within the 3D voxel model having an estimated chloride concentration of 19,000 mg/L and greater.

### **3.3 First Quarter of Operation Monitoring Results**

FPL collected samples from the recovery and monitoring wells that were used for the baseline sampling consistent with the startup monitoring included in the MDC May 15, 2018, letter. Field parameters (temperature, specific conductance, salinity, density, and TDS) and samples for chloride analysis were collected weekly for the first month of operation (startup through June 15, 2018) and then once a month in July and August 2018. Samples from the recovery wells were collected from dedicated sampling ports, while samples from groundwater monitoring wells were collected using peristaltic pumps, with most wells having dedicated sample tubing. All samples were collected per the methods outlined in the QAPP (FPL 2013) and FDEP SOPs provided in Chapter 62-160, Florida Administrative Code (F.A.C.).

The chloride results from the recovery wells during the first quarter sampling period show chloride levels in each of the recovery wells were stable, with minor fluctuations within a narrow range (Table 3.3-1). During the first quarter, chloride values typically varied by less than 5%; however, RWS-1 did exhibit more variability than the other wells. Recovery well RWS-1 also had the lowest overall average chloride concentration (22,857 mg/L), while RWS-5 had the highest average concentration (31,086 mg/L). Chloride concentrations in the monitoring wells (Table 3.3-2) showed a similar pattern as the recovery wells i.e. most of the chloride concentrations in the monitoring wells fluctuated within a narrow range of values. The sampling logs for the first quarter of monitoring are provided in Appendix D. The DUS reports are provided in Appendix E, and the Level IV laboratory reports are included in Appendix F.

Automated water level and water quality (specific conductance, salinity, temperature, and density) data were recorded at all well clusters (TPGW-1, TPGW-2, TPGW-4, TPGW-5, TPGW-7, TPGW-12, TPGW-17, TPGW-18, and TPGW-19). The automated water level and salinity data during the first quarter of operations showed increases in water levels and commensurate reductions in salinity levels in the shallow monitoring horizon of area monitoring wells, which is most likely the result of freshening by rainfall. Salinity trends in the middle and deep monitoring horizons were mostly stable, with some sharp shifts associated with periodic probe cleaning and recalibration.

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### **3.4 System Operation and Optimization During First Quarter**

The amount of hypersaline water that can be withdrawn from the Biscayne Aquifer and disposed into the Bolder Zone is constrained by two permits. The Consumptive Use Permit from SFWMD provides an annual withdrawal allocation of 5,475 million gallons and a maximum monthly allocation of 465 million gallons. This operational peak capacity is constrained by the UIC permit from FDEP that limits the maximum injection rate to 10,826 gallons per minute (gpm) and a maximum injection volume of 15.59 mgd down the DIW. As described earlier, the SCADA system incorporates operational locks to ensure that the RWS limits prescribed in the permits are not exceeded. During initial pumping operations, a series of small controls adjustments within the limits of the design specification were made with satisfactory results in order to maintain permit compliance and validate the operating procedures while running in automatic mode.

During the first quarter, the RWS operated satisfactorily and as designed, with occasional minor short-term weather-related (lightning-based power fluctuations) deviations. Figure 3.4-1 shows the operation of each recovery well for the first quarter of operation. Collectively, the recovery well pumps ran approximately 96% of the time. Table 3.4-1 shows the provisional daily volume of hypersaline water pumped from each recovery well and the amount disposed in the DIW. From May 15, 2018, through August 15, 2018, almost 1.4 billion gallons of hypersaline water was extracted and disposed of via the DIW.

Table 3.4-2 shows the amount of salt mass removed on a weekly basis for each recovery well, which is calculated in accordance with the FDEP Consent Order, paragraph 29.f. Since August 15, 2018, was during the middle of the week, the weekly salt mass removal data extend to August 19, 2018. The salt mass values were based on automated flow and TDS data and then summed for daily and weekly salt mass removal. The TDS value is calculated from specific conductance using a conversion factor of 0.64. The equation for salt mass removal is as follows:

$$\text{Salt mass removed} = ((1,000 * 3.7854 * [\text{FLOW}] * [\text{TDS}]) / 453,592.37).$$

Flow is reported in gpm, while TDS is reported in parts per thousand (ppt). Salt mass removal is reported in pounds per day. The total amount of salt mass removed during the period from May 15, 2018, through August 19, 2018, was 577.5 million pounds.

### **3.5 Drawdown and Capture Zone of RWS**

The May 15, 2018, MDC letter requested FPL to provide a groundwater elevation map and drawdown contour map depicting the cone of influence of each extraction well and a demonstration of the RWS capture radius. To facilitate the development of a groundwater elevation map for the area, automated data from a common date and time were used, as shown in Table 3.5-1. The resulting groundwater contour map, which is based on water levels collected from the shallow monitoring horizon at 8:00 pm on May 18, 2018, is provided as Figure 3.5-2.

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There is a regional easterly groundwater gradient, which is very low and indicates that very low eastward flow velocities occurred in the shallow portion of the Biscayne aquifer at the time these data were collected.

The production of a drawdown contour map depicting the cone of influence of each extraction well and the capture radius of the RWS is a more complex task. Under field conditions, drawdowns can be estimated by comparing measured groundwater elevations prior to, during, and after pump withdrawals are initiated. Based on the aquifer characteristics and pumping rates, the number and location of monitoring wells necessary to identify field scale drawdowns can be determined. However, considering the extent and number of RWS production wells, the placement of multiple monitoring wells next to each of the 10 RWS extraction wells was not economically feasible. As an alternative, FPL developed estimates of drawdown and the area of influence/capture zone by considering: (1) automated groundwater elevation data collected from the existing RWS monitoring wells at hourly intervals prior, during, and after the RWS startup; (2) data from the aquifer performance test conducted pursuant to paragraph 17.b.i. of the MDC Consent Agreement; and (3) modeling results from the RWS design and permitting.

Figure 3.5-1 shows hourly groundwater levels from shallow monitoring wells 5 days prior to the May 15, 2018, RWS startup and 10 days following the start. The RWS pumps were turned on around 8:00 a.m., turned off around 10:00 p.m., and then turned back on around 2:00 p.m. for continuous operation. The graph shows that there were no clear responses to pumpage in groundwater levels at the monitoring wells. Rather than a decrease, there was an increase in groundwater levels around the time of RWS startup due to multiple rain events, with the largest increase occurring on May 20, 2018. Through the first quarter, trend lines for all of the wells (TPGW-1, TPGW-2, TPGW-4, TPGW-5, TPGW-7, TPGW-12, TPGW-17, TPGW-18, and TPGW-19) were nearly level (slopes 0.007% to 0.39%), which suggests drawdown influences from the RWS operation in the shallow portion of the aquifer are very small and masked by the rainfall.

FPL conducted an aquifer performance test (APT) in 2016 (as required in paragraph 17.b.i. of the MDC Consent Agreement; April 1, 2016, report submitted to MDC) on a test well that later became RWS-3. Under the APT, the test well was pumped at a steady rate of 6.57 mgd, with water level data collected from monitoring wells at 40, 90, and 720 ft from the test well. Drawdowns during the tests in the shallow monitoring wells ranged between 0.1 to 0.2 ft. It is likely that the drawdowns would be less than this, with the RWS well pumping at a rate of 1.5 mgd.

The Agency approved groundwater 3D variable density solute transport model that was used to design the RWS was also used to assess potential drawdown in the uppermost portion of the aquifer for the SFWMD consumptive use permit review. The use of the model has advantages, as it can eliminate external confounding factors such as a rainfall events and can simulate performance under drought conditions (1 in 10 drought conditions were simulated for determining drawdown and cone of influence/capture zone for the RWS consumptive use permit). Figure 3.5-3 shows the modeled drawdown and area of influence/capture zone for layer 1 of the model during 1 in 10 drought conditions. The model indicates drawdowns similar to

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those produced in the APT with drawdowns less than 0.3 ft at the wellsite. FPL considers the model generated 1 in 10 year drought the best available representation of the RWS drawdown, cone of influence and capture zone.

Based on evaluation of field data collected during the RWS startup, APT results, and modeling, it is estimated that the drawdown associated with the operation of the RWS wells on shallow groundwater is *de minimis* and not sufficient to impact area wetland hydrology.

### **3.6 Impacts of RWS and Combined Influence of ID**

Operations of the interceptor ditch (ID) pumps are based on agencies' approved protocols contained in the Interceptor Ditch Operational Plan. Since the RWS began operation, water levels in the L-31E canal, the ID, and the CCS have not triggered operations of the ID pumps. Accordingly, there have been no instances where the cumulative impacts of the RWS operations and ID pumps can be measured.

Evaluation of RWS impacts to groundwater levels in the area document that the RWS is not adversely impacting the groundwater, wetlands, or other water resources. As discussed in Section 3.3, water quality in these wells remain similar to those reported prior to startup of the RWS. Over time, it is expected that groundwater quality will improve as the mass of hypersaline groundwater is reduced by the RWS. As a result, no changes or optimizations have been made to the RWS since the system was put into service on May 15, 2018, nor are any changes proposed at this time.

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**TABLES**



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**Table 3.1-1. Analytical and Field Parameter Baseline Sampling Results – March/April 2018.**

Parameter	Units	TPGW-1S	TPGW-1M	TPGW-1D	DUP1	TPGW-2S	TPGW-2M	TPGW-2D	TPGW-4S		
		03/19/2018	03/19/2018	03/19/2018	03/19/2018	03/14/2018	03/14/2018	03/14/2018	03/22/2018		
Temperature	°C	26.8	26.4	26.3		26.3	26.5	26.5	25.2		
Specific Conductance	µS/cm	49560	70730	70175		63424	73809	74653	7407		
Turbidity	NTU	0.12	0.24	3.19		0.15	0.42	0.36	0.23		
Chloride	mg/L	19400	27700	28500	28000	24800	J-	29500	J	31300	2280
Total Dissolved Solids	mg/L	34000	51200	51800	51700	44400		52800		52400	4320
Salinity	*	32.4	48.5	48.0	48.0	42.8		50.9		51.6	4.08
Tritium	pCi/L (1σ)	954 (22.4)	2173 (41.6)	2307 (44.8)	2384 (42.0)	2166 (41.6)		3130 (54.4)		3123 (54.4)	17.4 (1.4)

NOTES:

Laboratory results are reported with 3 digits although only the first 2 are significant figures.

\* PSS-78 salinity is unitless.

031918-DUP1 is a field duplicate of 031918-TPGW-1D

032218-DUP1 is a field duplicate of 032218-TPGW-4M

KEY:

°C = Degrees Celsius.

µS/cm = MicroSiemen(s) per centimeter.

σ = sigma (Standard Deviation).

DUP = Duplicate.

EB = Equipment Blank.

FB = Field Blank.

J = Estimated (+/- indicate bias).

mg/L = Milligram(s) per liter.

NTU = Nephelometric Turbidity Units(s).

pCi/L = PicoCuries per liter.

SU = Standard Unit(s).

U = Analyzed for but not detected at the reported value.

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**Table 3.1-1. Analytical and Field Parameter Baseline Sampling Results – March/April 2018 (continued).**

Parameter	Units	TPGW-4M	DUP1	TPGW-4D	TPGW-5S	TPGW-5M	TPGW-5D	TPGW-7S	TPGW-7M
		03/22/2018	03/22/2018	03/22/2018	03/19/2018	03/19/2018	03/19/2018	03/15/2018	03/15/2018
Temperature	°C	25.1		25.3	24.8	25	24.9	23.6	23.5
Specific Conductance	µS/cm	39803		41164	958	34108	36531	515	525
Turbidity	NTU	0.2		0.41	0.12	0.12	0.32	0.36	0.32
Chloride	mg/L	15100	16200	14800	164	11700	13100	37.0	40.0
Total Dissolved Solids	mg/L	27400	26700	27500	550	22800	22900	292	294
Salinity	*	25.38	25.4	26.34	0.470 J	21.39	23.1	0.250 J	0.25 J
Tritium	pCi/L (1σ)	342 (12.8)	316 (14.0)	403.2 (19.2)	10.9 (0.90)	271 (13.4)	362 (16.0)	6.6 (0.93)	5.2 (0.99)

NOTES:

Laboratory results are reported with 3 digits although only the first 2 are significant figures.

\* PSS-78 salinity is unitless.

031918-DUP1 is a field duplicate of 031918-TPGW-1D

032218-DUP1 is a field duplicate of 032218-TPGW-4M

KEY:

°C = Degrees Celsius.

µS/cm = MicroSiemen(s) per centimeter.

σ = sigma (Standard Deviation).

DUP = Duplicate.

EB = Equipment Blank.

FB = Field Blank.

J = Estimated (+/- indicate bias).

mg/L = Milligram(s) per liter.

NTU = Nephelometric Turbidity Units(s).

pCi/L = PicoCuries per liter.

SU = Standard Unit(s).

U = Analyzed for but not detected at the reported value.

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**Table 3.1-1. Analytical and Field Parameter Baseline Sampling Results – March/April 2018 (continued).**

Parameter	Units	TPGW-7D	TPGW-12S	TPGW-12M	TPGW-12D	TPGW-17S	TPGW-17M	TPGW-17D	TPGW-18S
		03/15/2018	03/20/2018	03/20/2018	03/20/2018	03/14/2018	03/14/2018	03/14/2018	04/03/2018
Temperature	°C	23.4	27.2	27.7	27.4	24.9	25.2	24.9	26.4
Specific Conductance	µS/cm	10347 J	47355	59098	65218	63088	72514	70094	35844
Turbidity	NTU	0.15	0.09	0.23	0.32	0.22	0.74	0.25	0.83
Chloride	mg/L	3970 J	16500	20900	24000	24900	29300	28600	14200
Total Dissolved Solids	mg/L	7350	31600	39500	48200	43000	55400	48000	25000
Salinity	*	5.85 J	30.8	39.4	44.1	42.6	49.9	48.0	22.6
Tritium	pCi/L (1σ)	20.3 (1.0)	46.4 (10.9)	931 (22.4)	1344 (28.8)	1482 (28.8)	2518 (51.2)	2272 (38.4)	550 (16.0)

NOTES:

Laboratory results are reported with 3 digits although only the first 2 are significant figures.

\* PSS-78 salinity is unitless.

031918-DUP1 is a field duplicate of 031918-TPGW-1D

032218-DUP1 is a field duplicate of 032218-TPGW-4M

KEY:

°C = Degrees Celsius.

µS/cm = MicroSiemen(s) per centimeter.

σ = sigma (Standard Deviation).

DUP = Duplicate.

EB = Equipment Blank.

FB = Field Blank.

J = Estimated (+/- indicate bias).

mg/L = Milligram(s) per liter.

NTU = Nephelometric Turbidity Units(s).

pCi/L = PicoCuries per liter.

SU = Standard Unit(s).

U = Analyzed for but not detected at the reported value.

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**Table 3.1-1. Analytical and Field Parameter Baseline Sampling Results – March/April 2018 (continued).**

Parameter	Units	TPGW-18M	TPGW-18D	TPGW-19S	TPGW-19M	TPGW-19D	TPGW-L3-18	TPGW-L3-58	TPGW-L5-18
		04/03/2018	04/03/2018	03/13/2018	03/13/2018	03/13/2018	03/14/2018	03/14/2018	03/14/2018
Temperature	°C	26.0	25.8	23.5	23.4	23.4	23.8	25.2	25.1
Specific Conductance	µS/cm	60684	62531	6194	58599	60679	6518	76343	4338
Turbidity	NTU	0.97	3.77	1.71	0.20	0.01	0.8	0.55	0.45
Chloride	mg/L	25200	26400	1830	26000	26800	2030	31400	1290
Total Dissolved Solids	mg/L	44200	42600	3600	42200	41200	3800	51800	2360
Salinity	*	40.7	42.1	3.37	39.2	40.8	3.56	52.95	2.3
Tritium	pCi/L (1σ)	1568 (29.0)	1600 (32.0)	42.9 (15.4)	864 (25.6)	1082 (28.8)	107.8 (14.1)	3014 (54.4)	86.7 (13.8)

NOTES:

Laboratory results are reported with 3 digits although only the first 2 are significant figures.

\* PSS-78 salinity is unitless.

031918-DUP1 is a field duplicate of 031918-TPGW-1D

032218-DUP1 is a field duplicate of 032218-TPGW-4M

KEY:

°C = Degrees Celsius.

µS/cm = MicroSiemen(s) per centimeter.

σ = sigma (Standard Deviation).

DUP = Duplicate.

EB = Equipment Blank.

FB = Field Blank.

J = Estimated (+/- indicate bias).

mg/L = Milligram(s) per liter.

NTU = Nephelometric Turbidity Units(s).

pCi/L = PicoCuries per liter.

SU = Standard Unit(s).

U = Analyzed for but not detected at the reported value.

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**Table 3.1-1. Analytical and Field Parameter Baseline Sampling Results – March/April 2018 (continued).**

Parameter	Units	TPGW-L5-58		TPGW-G21-18		TPGW-G21-58		TPGW-G28-18		TPGW-G28-58		FB1		FB1		FB1			
		03/14/2018		03/15/2018		03/15/2018		03/22/2018		03/22/2018		03/13/2018		03/14/2018		03/14/2018		03/14/2018	
Temperature	°C	25.7		24.2		24.3		24.6		24.5									
Specific Conductance	µS/cm	72184		556		20377		2588		39257									
Turbidity	NTU	0.34		0.22		0.15		1.9		3.01									
Chloride	mg/L	29500		49.2		7210		693		14200		0.221	U	0.221	U	0.221	U	0.221	U
Total Dissolved Solids	mg/L	53200		302		13200		1560		26500		15.0	U	15.0	U	15.0	U	15.0	U
Salinity	*	49.63		0.27	J	12.17		1.33	J	25.0									
Tritium	pCi/L (1σ)	2640 (44.8)		8.5 (0.86)		40.0 (10.2)		7.3 (0.77)		333 (12.8)								-5.2 (12.7)	UJ

NOTES:  
Laboratory results are reported with 3 digits although only the first 2 are significant figures.  
\* PSS-78 salinity is unitless.  
031918-DUP1 is a field duplicate of 031918-TPGW-1D  
032218-DUP1 is a field duplicate of 032218-TPGW-4M  
KEY:  
°C = Degrees Celsius.  
µS/cm = MicroSiemen(s) per centimeter.  
σ = sigma (Standard Deviation).  
DUP = Duplicate.  
EB = Equipment Blank.  
FB = Field Blank.  
J = Estimated (+/- indicate bias).  
mg/L = Milligram(s) per liter.  
NTU = Nephelometric Turbidity Units(s).  
pCi/L = PicoCuries per liter.  
SU = Standard Unit(s).  
U = Analyzed for but not detected at the reported value.

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**Table 3.1-1. Analytical and Field Parameter Baseline Sampling Results – March/April 2018 (continued).**

Parameter	Units	FB1		FB1		FB1		FB1		FB1		FB1			
		03/14/2018		03/15/2018		03/15/2018		03/19/2018		03/20/2018		3/22/2018		3/22/2018	
Temperature	°C														
Specific Conductance	µS/cm														
Turbidity	NTU														
Chloride	mg/L	0.221	U	0.221	U	0.221	U	0.221	U	0.221	U	0.221	U		
Total Dissolved Solids	mg/L	15.0	U	15.0	U	15.0	U	15.0	U	15.0	U				
Salinity	*														
Tritium	pCi/L (1σ)	-5.2 (12.7)	UJ	-14.7 (14.9)	UJ	-14.7 (14.9)	UJ	-13.6 (9.8)	UJ	-6.6 (9.8)	UJ	-9.8 (9.7)	UJ	-9.8 (9.7)	UJ

NOTES:

Laboratory results are reported with 3 digits although only the first 2 are significant figures.

\* PSS-78 salinity is unitless.

031918-DUP1 is a field duplicate of 031918-TPGW-1D

032218-DUP1 is a field duplicate of 032218-TPGW-4M

KEY:

°C = Degrees Celsius.

µS/cm = MicroSiemen(s) per centimeter.

σ = sigma (Standard Deviation).

DUP = Duplicate.

EB = Equipment Blank.

FB = Field Blank.

J = Estimated (+/- indicate bias).

mg/L = Milligram(s) per liter.

NTU = Nephelometric Turbidity Units(s).

pCi/L = PicoCuries per liter.

SU = Standard Unit(s).

U = Analyzed for but not detected at the reported value.

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**Table 3.1-2. Baseline Groundwater Elevation (in ft, NAVD 88) - March/April 2018.**

<b>Sites</b>	<b>Date</b>	<b>Time</b>	<b>Elevation</b>
TPGW-1S	3/14/2018	12:00	-0.89
TPGW-1M	3/14/2018	12:00	-1.28
TPGW-1D	3/14/2018	12:00	-1.27
TPGW-2S	3/14/2018	12:00	-0.94
TPGW-2M	3/14/2018	12:00	-1.08
TPGW-2D	3/14/2018	12:00	-1.14
TPGW-4S	3/14/2018	12:00	-0.17
TPGW-4M	3/14/2018	12:00	-0.56
TPGW-4D	3/14/2018	12:00	-0.62
TPGW-5S	3/14/2018	12:00	-0.10
TPGW-5M	3/14/2018	12:00	-0.51
TPGW-5D	3/14/2018	12:00	-0.80
TPGW-7S	3/14/2018	12:00	0.06
TPGW-7M	3/14/2018	12:00	0.09
TPGW-7D	3/14/2018	12:00	-0.16
TPGW-12S	3/14/2018	12:00	-0.39
TPGW-12M	3/14/2018	12:00	-0.61
TPGW-12D	3/14/2018	12:00	-0.64
TPGW-17S	3/14/2018	12:00	-0.53
TPGW-17M	3/14/2018	12:00	-1.04
TPGW-17D	3/14/2018	12:00	-1.01
TPGW-18S	4/7/2018	12:00	-0.33
TPGW-18M	4/7/2018	12:00	-0.96
TPGW-18D	4/7/2018	12:00	-0.91
TPGW-19S	3/14/2018	12:00	-0.39
TPGW-19M	3/14/2018	12:00	-0.99
TPGW-19D	3/14/2018	12:00	-1.27
TPGW-L3	3/14/2018	9:22	-0.45
TPGW-L5	3/14/2018	12:42	-0.52
TPGW-G21	3/15/2018	10:27	-0.53
TPGW-G28	3/22/2018	12:41	0.03

NOTES:  
TPGW-L3, TPGW-L5, TPGW-G21, TPGW-G28 do not have automated probes so values are from the quarterly sampling event.  
TPGW-18 water level instruments were installed on 4/7/18.

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**Table 3.3-1. First Quarter Weekly and Monthly Chloride Concentrations in Recovery Wells.**

Site	Chloride (mg/L)													
	5/16/2018		5/21/2018		5/29/2018		6/4/2018		6/12/2018		7/2/2018		8/1/2018	
RWS-1	24300		22900		22300		22600		21600		24000		22300	
RWS-2	27500		NA		27500		28000		27100		27300		27200	
RWS-3	28600		29000		29200		29100		28800		28600		28900	
RWS-4	30600		30300		31200		31100		30300		31000		30900	
RWS-5	30900		30800		31400		31600		30700		31000		31200	
RWS-6	30200		29800		30800		31000		30100		30700		30600	
RWS-7	30400		30700		30800		31000		30100		30300		30200	
RWS-8	30900		NA		NA		NA		NA		30900		30900	
RWS-9	29900		29800		30400		30700		29900		30400		30700	
RWS-10	28700		28200		28800		28800		28100		28700		28200	
FPL-EB1	0.22	U	0.22	U	0.22	U	0.22	U	0.29	I	0.22	U	0.22	U
ENE-EB1	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
ENE-FB1	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U			0.22	U
FPL-FB1	0.22	U	0.22	U	0.22	U							0.22	U
FPL-FB1	0.22	U	0.22	U										

NOTES:

Laboratory results are reported with 3 digits although only the first 2 are significant figures.

KEY:

EB = Equipment Blank.

FB = Field Blank.

I = Value between the MDL and PQL.

mg/L = Milligram(s) per liter.

NA = Not available.

U = Analyzed for but not detected at the reported value.

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**Table 3.3-2. First Quarter Weekly and Monthly Chloride Concentrations in Monitoring Wells.**

Site	Chloride (mg/L)							
	5/16/2018	5/21/2018	5/29/2018	6/4/2018	6/12/2018	7/2/2018	8/1/2018	
TPGW-1S	NA	17800	18100	17800	17300	14900	14000	
TPGW-1M	NA	28100	28500	28700	28300	28200	28800	
TPGW-1D	NA	28200	28300	29000	28400	28400	29000	
TPGW-2S	25700	25200	24900	24300	24400	24300	23700	
TPGW-2M	30600	30700	29600	30400	30700	30800	30200	
TPGW-2D	30800	31100	31000	31500	31200	31700	31600	
TPGW-4S	2650	1990	2240	1810	1840	1220	1150	
TPGW-4M	14600	14000	14700	14700	14400	15400	14800	
TPGW-4D	15400	15100	15800	15800	15500	16600	15800	
TPGW-5S	NA	152	153	150	146	135	151	
TPGW-5M	NA	12600	12500	12500	12500	12400	12000	
TPGW-5D	NA	13500	13600	13700	13600	13700	13300	
TPGW-7S	34.0	35.6	36.2	35.7	36.2	35.0	36.2	
TPGW-7M	36.8	43.7	41.4	40.7	40.7	42.7	43.1	
TPGW-7D	3350	3350	4360	3400	4460	3390	3590	
TPGW-12S	16200	16000	12700	18200	13200	15500	15200	
TPGW-12M	23200	24000	24700	25400	24600	24900	25100	
TPGW-12D	25300	25800	26200	25900	25900	26300	26400	
TPGW-17S	24500	25000	25700	25100	25400	25400	24700	
TPGW-17M	28600	29500	30000	29200	29900	30300	30100	
TPGW-17D	27500	30300	29900	29900	30600	30500	30200	
TPGW-18S	NA	13000	12500	12200	12100	10300	8750	
TPGW-18M	NA	23500	23700	23900	24100	24200	23800	
TPGW-18D	NA	24500	24500	24700	24100	25100	24800	
TPGW-19S	2050	3340	5500	4190	4080	3180	3100	
TPGW-19M	22800	23100	23500	23100	23000	23100	22500	
TPGW-19D	24200	24000	23900	23900	24200	23000	24200	
TPGW-L3-18	2090	1430	760	400	1180	738	492	
TPGW-L3-58	31400	30900	31800	31900	31500	31700	31600	
TPGW-L5-18	1140	864	475	311	606	736	405	
TPGW-L5-58	30200	29300	30400	30200	30400	30800	30300	
TPGW-G21-18	47.8	60.8	64.5	77.7	63.9	77.1	62.4	
TPGW-G21-58	7460	7280	7520	7400	7070	7170	6800	
TPGW-G28-18	695	626	693	625	712	597	632	
TPGW-G28-58	14600	14200	14500	14600	14500	15300	15100	
FPL-EB1	0.22	U	0.22	U	0.22	I	0.22	U
ENE-EB1	0.22	U	0.22	U	0.22	U	0.22	U
ENE-FB1	0.22	U	0.22	U	0.22	U	0.22	U
FPL-FB1	0.22	U	0.22	U			0.22	U
FPL-FB1	0.22	U	0.22	U				U

NOTES:

Laboratory results are reported with 3 digits although only the first 2 are significant figures.

KEY:

EB = Equipment Blank.

FB = Field Blank.

I = Value between the MDL and PQL.

mg/L = Milligram(s) per liter.

NA = Not available.

U = Analyzed for but not detected at the reported value.

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018**      **3. Recovery Well System Baseline Data and First Quarter of Operation**

**Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018).**

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	5/15/18	0.13	1.22	RWS-1	5/18/18	1.53	14.82
RWS-2	5/15/18	0.14		RWS-2	5/18/18	1.64	
RWS-3	5/15/18	0.13		RWS-3	5/18/18	1.64	
RWS-4	5/15/18	0.13		RWS-4	5/18/18	1.54	
RWS-5	5/15/18	0.13		RWS-5	5/18/18	1.51	
RWS-6	5/15/18	0.12		RWS-6	5/18/18	1.39	
RWS-7	5/15/18	0.12		RWS-7	5/18/18	1.40	
RWS-8	5/15/18	0.11		RWS-8	5/18/18	1.38	
RWS-9	5/15/18	0.12		RWS-9	5/18/18	1.42	
RWS-10	5/15/18	0.11		RWS-10	5/18/18	1.38	
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RWS-1	5/16/18	1.50	14.67	RWS-1	5/19/18	1.66	14.77
RWS-2	5/16/18	1.63		RWS-2	5/19/18	0.09	
RWS-3	5/16/18	1.60		RWS-3	5/19/18	1.80	
RWS-4	5/16/18	1.53		RWS-4	5/19/18	1.72	
RWS-5	5/16/18	1.50		RWS-5	5/19/18	1.69	
RWS-6	5/16/18	1.39		RWS-6	5/19/18	1.57	
RWS-7	5/16/18	1.40		RWS-7	5/19/18	1.57	
RWS-8	5/16/18	1.33		RWS-8	5/19/18	1.52	
RWS-9	5/16/18	1.41		RWS-9	5/19/18	1.59	
RWS-10	5/16/18	1.38		RWS-10	5/19/18	1.55	
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RWS-1	5/17/18	1.53	14.96	RWS-1	5/20/18	1.69	14.81
RWS-2	5/17/18	1.66		RWS-2	5/20/18	0.00	
RWS-3	5/17/18	1.63		RWS-3	5/20/18	1.81	
RWS-4	5/17/18	1.56		RWS-4	5/20/18	1.74	
RWS-5	5/17/18	1.54		RWS-5	5/20/18	1.70	
RWS-6	5/17/18	1.42		RWS-6	5/20/18	1.59	
RWS-7	5/17/18	1.42		RWS-7	5/20/18	1.59	
RWS-8	5/17/18	1.36		RWS-8	5/20/18	1.52	
RWS-9	5/17/18	1.44		RWS-9	5/20/18	1.60	
RWS-10	5/17/18	1.40		RWS-10	5/20/18	1.56	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018 3. Recovery Well System Baseline Data and First Quarter of Operation**

**Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).**

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	5/21/18	1.70	14.86	RWS-1	5/24/18	1.82	14.94
RWS-2	5/21/18	0.00		RWS-2	5/24/18	0.00	
RWS-3	5/21/18	1.82		RWS-3	5/24/18	1.91	
RWS-4	5/21/18	1.74		RWS-4	5/24/18	1.89	
RWS-5	5/21/18	1.70		RWS-5	5/24/18	1.86	
RWS-6	5/21/18	1.59		RWS-6	5/24/18	1.58	
RWS-7	5/21/18	1.60		RWS-7	5/24/18	1.80	
RWS-8	5/21/18	1.53		RWS-8	5/24/18	0.49	
RWS-9	5/21/18	1.61		RWS-9	5/24/18	1.81	
RWS-10	5/21/18	1.58		RWS-10	5/24/18	1.78	
<b>Separator</b>				<b>Separator</b>			
RWS-1	5/22/18	1.71	14.89	RWS-1	5/25/18	1.92	15.20
RWS-2	5/22/18	0.00		RWS-2	5/25/18	0.63	
RWS-3	5/22/18	1.83		RWS-3	5/25/18	1.82	
RWS-4	5/22/18	1.74		RWS-4	5/25/18	1.70	
RWS-5	5/22/18	1.70		RWS-5	5/25/18	1.70	
RWS-6	5/22/18	1.59		RWS-6	5/25/18	1.66	
RWS-7	5/22/18	1.60		RWS-7	5/25/18	1.91	
RWS-8	5/22/18	1.54		RWS-8	5/25/18	0.00	
RWS-9	5/22/18	1.61		RWS-9	5/25/18	1.94	
RWS-10	5/22/18	1.58		RWS-10	5/25/18	1.91	
<b>Separator</b>				<b>Separator</b>			
RWS-1	5/23/18	1.71	14.80	RWS-1	5/26/18	1.93	15.04
RWS-2	5/23/18	0.00		RWS-2	5/26/18	2.10	
RWS-3	5/23/18	1.77		RWS-3	5/26/18	1.28	
RWS-4	5/23/18	1.68		RWS-4	5/26/18	1.05	
RWS-5	5/23/18	1.65		RWS-5	5/26/18	1.07	
RWS-6	5/23/18	1.61		RWS-6	5/26/18	1.73	
RWS-7	5/23/18	1.61		RWS-7	5/26/18	1.95	
RWS-8	5/23/18	1.54		RWS-8	5/26/18	0.00	
RWS-9	5/23/18	1.62		RWS-9	5/26/18	1.98	
RWS-10	5/23/18	1.59		RWS-10	5/26/18	1.95	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018**      **3. Recovery Well System Baseline Data and First Quarter of Operation**

**Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).**

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	5/27/18	1.92	15.04	RWS-1	5/30/18	1.77	15.21
RWS-2	5/27/18	2.10		RWS-2	5/30/18	1.91	
RWS-3	5/27/18	1.28		RWS-3	5/30/18	1.54	
RWS-4	5/27/18	1.05		RWS-4	5/30/18	1.43	
RWS-5	5/27/18	1.07		RWS-5	5/30/18	1.08	
RWS-6	5/27/18	1.74		RWS-6	5/30/18	1.70	
RWS-7	5/27/18	1.95		RWS-7	5/30/18	1.92	
RWS-8	5/27/18	0.00		RWS-8	5/30/18	0.00	
RWS-9	5/27/18	1.98		RWS-9	5/30/18	1.95	
RWS-10	5/27/18	1.95		RWS-10	5/30/18	1.91	
<b>Summary</b>				<b>Summary</b>			
RWS-1	5/28/18	1.92	15.03	RWS-1	5/31/18	1.69	15.25
RWS-2	5/28/18	2.10		RWS-2	5/31/18	1.85	
RWS-3	5/28/18	1.28		RWS-3	5/31/18	1.64	
RWS-4	5/28/18	1.05		RWS-4	5/31/18	1.55	
RWS-5	5/28/18	1.07		RWS-5	5/31/18	1.11	
RWS-6	5/28/18	1.74		RWS-6	5/31/18	1.70	
RWS-7	5/28/18	1.95		RWS-7	5/31/18	1.89	
RWS-8	5/28/18	0.00		RWS-8	5/31/18	0.00	
RWS-9	5/28/18	1.98		RWS-9	5/31/18	1.92	
RWS-10	5/28/18	1.95		RWS-10	5/31/18	1.89	
<b>Summary</b>				<b>Summary</b>			
RWS-1	5/29/18	1.89	14.99	RWS-1	6/1/18	1.62	14.67
RWS-2	5/29/18	2.10		RWS-2	6/1/18	1.76	
RWS-3	5/29/18	1.28		RWS-3	6/1/18	1.65	
RWS-4	5/29/18	1.05		RWS-4	6/1/18	1.57	
RWS-5	5/29/18	1.07		RWS-5	6/1/18	1.35	
RWS-6	5/29/18	1.73		RWS-6	6/1/18	1.60	
RWS-7	5/29/18	1.95		RWS-7	6/1/18	1.70	
RWS-8	5/29/18	0.00		RWS-8	6/1/18	0.00	
RWS-9	5/29/18	1.98		RWS-9	6/1/18	1.73	
RWS-10	5/29/18	1.95		RWS-10	6/1/18	1.69	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018 3. Recovery Well System Baseline Data and First Quarter of Operation**

**Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).**

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	6/2/18	1.63	14.76	RWS-1	6/5/18	1.62	14.75
RWS-2	6/2/18	1.76		RWS-2	6/5/18	1.76	
RWS-3	6/2/18	1.73		RWS-3	6/5/18	1.73	
RWS-4	6/2/18	1.66		RWS-4	6/5/18	1.65	
RWS-5	6/2/18	1.66		RWS-5	6/5/18	1.66	
RWS-6	6/2/18	1.57		RWS-6	6/5/18	1.58	
RWS-7	6/2/18	1.58		RWS-7	6/5/18	1.58	
RWS-8	6/2/18	0.00		RWS-8	6/5/18	0.00	
RWS-9	6/2/18	1.60		RWS-9	6/5/18	1.60	
RWS-10	6/2/18	1.56		RWS-10	6/5/18	1.56	
<b>Separator</b>				<b>Separator</b>			
RWS-1	6/3/18	1.63	14.76	RWS-1	6/6/18	1.62	14.75
RWS-2	6/3/18	1.76		RWS-2	6/6/18	1.76	
RWS-3	6/3/18	1.73		RWS-3	6/6/18	1.73	
RWS-4	6/3/18	1.66		RWS-4	6/6/18	1.65	
RWS-5	6/3/18	1.66		RWS-5	6/6/18	1.66	
RWS-6	6/3/18	1.57		RWS-6	6/6/18	1.58	
RWS-7	6/3/18	1.58		RWS-7	6/6/18	1.58	
RWS-8	6/3/18	0.00		RWS-8	6/6/18	0.00	
RWS-9	6/3/18	1.60		RWS-9	6/6/18	1.60	
RWS-10	6/3/18	1.56		RWS-10	6/6/18	1.56	
<b>Separator</b>				<b>Separator</b>			
RWS-1	6/4/18	1.62	14.75	RWS-1	6/7/18	1.38	13.01
RWS-2	6/4/18	1.76		RWS-2	6/7/18	2.23	
RWS-3	6/4/18	1.73		RWS-3	6/7/18	1.45	
RWS-4	6/4/18	1.66		RWS-4	6/7/18	1.38	
RWS-5	6/4/18	1.66		RWS-5	6/7/18	1.38	
RWS-6	6/4/18	1.58		RWS-6	6/7/18	1.31	
RWS-7	6/4/18	1.58		RWS-7	6/7/18	1.30	
RWS-8	6/4/18	0.00		RWS-8	6/7/18	0.00	
RWS-9	6/4/18	1.60		RWS-9	6/7/18	1.31	
RWS-10	6/4/18	1.56		RWS-10	6/7/18	1.28	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018 3. Recovery Well System Baseline Data and First Quarter of Operation**

Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	6/8/18	1.79	13.46	RWS-1	6/11/18	1.67	15.01
RWS-2	6/8/18	2.29		RWS-2	6/11/18	1.89	
RWS-3	6/8/18	1.82		RWS-3	6/11/18	1.63	
RWS-4	6/8/18	1.21		RWS-4	6/11/18	1.55	
RWS-5	6/8/18	1.35		RWS-5	6/11/18	1.84	
RWS-6	6/8/18	1.29		RWS-6	6/11/18	1.75	
RWS-7	6/8/18	1.15		RWS-7	6/11/18	1.39	
RWS-8	6/8/18	0.00		RWS-8	6/11/18	0.00	
RWS-9	6/8/18	1.16		RWS-9	6/11/18	1.37	
RWS-10	6/8/18	1.39		RWS-10	6/11/18	1.93	
<b>Separator</b>				<b>Separator</b>			
RWS-1	6/9/18	2.06	14.93	RWS-1	6/12/18	1.38	15.17
RWS-2	6/9/18	1.90		RWS-2	6/12/18	1.87	
RWS-3	6/9/18	1.64		RWS-3	6/12/18	1.61	
RWS-4	6/9/18	1.24		RWS-4	6/12/18	1.84	
RWS-5	6/9/18	1.86		RWS-5	6/12/18	1.81	
RWS-6	6/9/18	1.77		RWS-6	6/12/18	1.72	
RWS-7	6/9/18	1.14		RWS-7	6/12/18	1.67	
RWS-8	6/9/18	0.00		RWS-8	6/12/18	0.00	
RWS-9	6/9/18	1.09		RWS-9	6/12/18	1.68	
RWS-10	6/9/18	2.23		RWS-10	6/12/18	1.59	
<b>Separator</b>				<b>Separator</b>			
RWS-1	6/10/18	2.05	14.91	RWS-1	6/13/18	1.36	13.99
RWS-2	6/10/18	1.90		RWS-2	6/13/18	1.99	
RWS-3	6/10/18	1.64		RWS-3	6/13/18	1.78	
RWS-4	6/10/18	1.23		RWS-4	6/13/18	1.93	
RWS-5	6/10/18	1.86		RWS-5	6/13/18	1.18	
RWS-6	6/10/18	1.77		RWS-6	6/13/18	1.87	
RWS-7	6/10/18	1.13		RWS-7	6/13/18	1.86	
RWS-8	6/10/18	0.00		RWS-8	6/13/18	0.04	
RWS-9	6/10/18	1.09		RWS-9	6/13/18	1.36	
RWS-10	6/10/18	2.23		RWS-10	6/13/18	0.61	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018 3. Recovery Well System Baseline Data and First Quarter of Operation**

**Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).**

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	6/14/18	1.66	13.95	RWS-1	6/17/18	1.70	14.94
RWS-2	6/14/18	1.72		RWS-2	6/17/18	1.85	
RWS-3	6/14/18	1.78		RWS-3	6/17/18	1.84	
RWS-4	6/14/18	1.69		RWS-4	6/17/18	1.76	
RWS-5	6/14/18	1.16		RWS-5	6/17/18	1.33	
RWS-6	6/14/18	1.52		RWS-6	6/17/18	1.36	
RWS-7	6/14/18	1.48		RWS-7	6/17/18	1.67	
RWS-8	6/14/18	0.01		RWS-8	6/17/18	0.01	
RWS-9	6/14/18	1.75		RWS-9	6/17/18	1.70	
RWS-10	6/14/18	1.19		RWS-10	6/17/18	1.72	
<b>Separator</b>				<b>Separator</b>			
RWS-1	6/15/18	1.69	14.92	RWS-1	6/18/18	1.70	14.93
RWS-2	6/15/18	1.78		RWS-2	6/18/18	1.85	
RWS-3	6/15/18	1.84		RWS-3	6/18/18	1.84	
RWS-4	6/15/18	1.73		RWS-4	6/18/18	1.76	
RWS-5	6/15/18	1.54		RWS-5	6/18/18	1.33	
RWS-6	6/15/18	1.35		RWS-6	6/18/18	1.35	
RWS-7	6/15/18	1.54		RWS-7	6/18/18	1.67	
RWS-8	6/15/18	0.01		RWS-8	6/18/18	0.01	
RWS-9	6/15/18	1.70		RWS-9	6/18/18	1.70	
RWS-10	6/15/18	1.74		RWS-10	6/18/18	1.72	
<b>Separator</b>				<b>Separator</b>			
RWS-1	6/16/18	1.70	14.94	RWS-1	6/19/18	1.64	14.76
RWS-2	6/16/18	1.85		RWS-2	6/19/18	1.79	
RWS-3	6/16/18	1.84		RWS-3	6/19/18	1.79	
RWS-4	6/16/18	1.77		RWS-4	6/19/18	1.72	
RWS-5	6/16/18	1.33		RWS-5	6/19/18	1.43	
RWS-6	6/16/18	1.36		RWS-6	6/19/18	1.43	
RWS-7	6/16/18	1.67		RWS-7	6/19/18	1.63	
RWS-8	6/16/18	0.01		RWS-8	6/19/18	0.01	
RWS-9	6/16/18	1.70		RWS-9	6/19/18	1.66	
RWS-10	6/16/18	1.72		RWS-10	6/19/18	1.67	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018 3. Recovery Well System Baseline Data and First Quarter of Operation**

**Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).**

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	6/20/18	1.64	15.25	RWS-1	6/23/18	1.76	14.49
RWS-2	6/20/18	1.81		RWS-2	6/23/18	0.40	
RWS-3	6/20/18	1.80		RWS-3	6/23/18	1.53	
RWS-4	6/20/18	1.72		RWS-4	6/23/18	1.51	
RWS-5	6/20/18	1.71		RWS-5	6/23/18	1.55	
RWS-6	6/20/18	1.65		RWS-6	6/23/18	1.58	
RWS-7	6/20/18	1.62		RWS-7	6/23/18	1.62	
RWS-8	6/20/18	0.01		RWS-8	6/23/18	1.39	
RWS-9	6/20/18	1.65		RWS-9	6/23/18	1.55	
RWS-10	6/20/18	1.62		RWS-10	6/23/18	1.61	
<b>Separator</b>				<b>Separator</b>			
RWS-1	6/21/18	1.66	15.26	RWS-1	6/24/18	1.79	14.33
RWS-2	6/21/18	1.81		RWS-2	6/24/18	0.00	
RWS-3	6/21/18	1.80		RWS-3	6/24/18	1.56	
RWS-4	6/21/18	1.72		RWS-4	6/24/18	1.54	
RWS-5	6/21/18	1.71		RWS-5	6/24/18	1.58	
RWS-6	6/21/18	1.65		RWS-6	6/24/18	1.60	
RWS-7	6/21/18	1.62		RWS-7	6/24/18	1.64	
RWS-8	6/21/18	0.01		RWS-8	6/24/18	1.42	
RWS-9	6/21/18	1.65		RWS-9	6/24/18	1.57	
RWS-10	6/21/18	1.62		RWS-10	6/24/18	1.63	
<b>Separator</b>				<b>Separator</b>			
RWS-1	6/22/18	1.44	13.76	RWS-1	6/25/18	1.69	14.78
RWS-2	6/22/18	1.68		RWS-2	6/25/18	0.88	
RWS-3	6/22/18	1.43		RWS-3	6/25/18	1.53	
RWS-4	6/22/18	1.45		RWS-4	6/25/18	1.51	
RWS-5	6/22/18	1.45		RWS-5	6/25/18	1.50	
RWS-6	6/22/18	1.44		RWS-6	6/25/18	1.53	
RWS-7	6/22/18	1.44		RWS-7	6/25/18	1.57	
RWS-8	6/22/18	0.55		RWS-8	6/25/18	1.45	
RWS-9	6/22/18	1.41		RWS-9	6/25/18	1.55	
RWS-10	6/22/18	1.47		RWS-10	6/25/18	1.56	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018**      **3. Recovery Well System Baseline Data and First Quarter of Operation**

Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	6/26/18	1.56	15.10	RWS-1	6/29/18	1.56	15.24
RWS-2	6/26/18	1.53		RWS-2	6/29/18	1.68	
RWS-3	6/26/18	1.51		RWS-3	6/29/18	1.68	
RWS-4	6/26/18	1.50		RWS-4	6/29/18	1.58	
RWS-5	6/26/18	1.45		RWS-5	6/29/18	1.55	
RWS-6	6/26/18	1.48		RWS-6	6/29/18	1.48	
RWS-7	6/26/18	1.53		RWS-7	6/29/18	1.43	
RWS-8	6/26/18	1.49		RWS-8	6/29/18	1.40	
RWS-9	6/26/18	1.55		RWS-9	6/29/18	1.45	
RWS-10	6/26/18	1.52		RWS-10	6/29/18	1.43	
<b>Subtotal</b>				<b>Subtotal</b>			
RWS-1	6/27/18	1.52	14.62	RWS-1	6/30/18	1.56	15.24
RWS-2	6/27/18	1.36		RWS-2	6/30/18	1.68	
RWS-3	6/27/18	1.55		RWS-3	6/30/18	1.68	
RWS-4	6/27/18	1.51		RWS-4	6/30/18	1.58	
RWS-5	6/27/18	1.48		RWS-5	6/30/18	1.55	
RWS-6	6/27/18	1.47		RWS-6	6/30/18	1.49	
RWS-7	6/27/18	1.48		RWS-7	6/30/18	1.43	
RWS-8	6/27/18	1.41		RWS-8	6/30/18	1.40	
RWS-9	6/27/18	1.44		RWS-9	6/30/18	1.45	
RWS-10	6/27/18	1.39		RWS-10	6/30/18	1.43	
<b>Subtotal</b>				<b>Subtotal</b>			
RWS-1	6/28/18	1.49	14.64	RWS-1	7/1/18	1.55	15.22
RWS-2	6/28/18	1.63		RWS-2	7/1/18	1.68	
RWS-3	6/28/18	1.60		RWS-3	7/1/18	1.68	
RWS-4	6/28/18	1.53		RWS-4	7/1/18	1.58	
RWS-5	6/28/18	1.49		RWS-5	7/1/18	1.55	
RWS-6	6/28/18	1.43		RWS-6	7/1/18	1.48	
RWS-7	6/28/18	1.39		RWS-7	7/1/18	1.43	
RWS-8	6/28/18	1.35		RWS-8	7/1/18	1.39	
RWS-9	6/28/18	1.38		RWS-9	7/1/18	1.46	
RWS-10	6/28/18	1.35		RWS-10	7/1/18	1.43	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018 3. Recovery Well System Baseline Data and First Quarter of Operation**

**Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).**

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	7/2/18	1.56	15.24	RWS-1	7/5/18	1.56	15.23
RWS-2	7/2/18	1.68		RWS-2	7/5/18	1.68	
RWS-3	7/2/18	1.68		RWS-3	7/5/18	1.68	
RWS-4	7/2/18	1.58		RWS-4	7/5/18	1.58	
RWS-5	7/2/18	1.55		RWS-5	7/5/18	1.55	
RWS-6	7/2/18	1.48		RWS-6	7/5/18	1.49	
RWS-7	7/2/18	1.43		RWS-7	7/5/18	1.43	
RWS-8	7/2/18	1.39		RWS-8	7/5/18	1.39	
RWS-9	7/2/18	1.46		RWS-9	7/5/18	1.45	
RWS-10	7/2/18	1.43		RWS-10	7/5/18	1.43	
RWS-1	7/3/18	1.56	15.23	RWS-1	7/6/18	1.53	15.06
RWS-2	7/3/18	1.68		RWS-2	7/6/18	1.65	
RWS-3	7/3/18	1.68		RWS-3	7/6/18	1.66	
RWS-4	7/3/18	1.58		RWS-4	7/6/18	1.56	
RWS-5	7/3/18	1.55		RWS-5	7/6/18	1.53	
RWS-6	7/3/18	1.48		RWS-6	7/6/18	1.46	
RWS-7	7/3/18	1.43		RWS-7	7/6/18	1.42	
RWS-8	7/3/18	1.39		RWS-8	7/6/18	1.38	
RWS-9	7/3/18	1.46		RWS-9	7/6/18	1.44	
RWS-10	7/3/18	1.43		RWS-10	7/6/18	1.42	
RWS-1	7/4/18	1.55	15.21	RWS-1	7/7/18	1.55	15.22
RWS-2	7/4/18	1.68		RWS-2	7/7/18	1.68	
RWS-3	7/4/18	1.68		RWS-3	7/7/18	1.68	
RWS-4	7/4/18	1.58		RWS-4	7/7/18	1.58	
RWS-5	7/4/18	1.55		RWS-5	7/7/18	1.55	
RWS-6	7/4/18	1.48		RWS-6	7/7/18	1.48	
RWS-7	7/4/18	1.43		RWS-7	7/7/18	1.43	
RWS-8	7/4/18	1.39		RWS-8	7/7/18	1.39	
RWS-9	7/4/18	1.45		RWS-9	7/7/18	1.45	
RWS-10	7/4/18	1.43		RWS-10	7/7/18	1.42	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018 3. Recovery Well System Baseline Data and First Quarter of Operation**

Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	7/8/18	1.56	15.22	RWS-1	7/11/18	1.21	12.12
RWS-2	7/8/18	1.68		RWS-2	7/11/18	1.34	
RWS-3	7/8/18	1.68		RWS-3	7/11/18	1.34	
RWS-4	7/8/18	1.58		RWS-4	7/11/18	1.26	
RWS-5	7/8/18	1.55		RWS-5	7/11/18	1.24	
RWS-6	7/8/18	1.48		RWS-6	7/11/18	1.15	
RWS-7	7/8/18	1.44		RWS-7	7/11/18	1.15	
RWS-8	7/8/18	1.40		RWS-8	7/11/18	1.12	
RWS-9	7/8/18	1.45		RWS-9	7/11/18	1.17	
RWS-10	7/8/18	1.42		RWS-10	7/11/18	1.14	
RWS-1	7/9/18	1.63	15.24	RWS-1	7/12/18	0.90	9.21
RWS-2	7/9/18	1.76		RWS-2	7/12/18	0.97	
RWS-3	7/9/18	1.76		RWS-3	7/12/18	1.02	
RWS-4	7/9/18	1.67		RWS-4	7/12/18	0.97	
RWS-5	7/9/18	1.65		RWS-5	7/12/18	0.95	
RWS-6	7/9/18	1.60		RWS-6	7/12/18	0.91	
RWS-7	7/9/18	1.56		RWS-7	7/12/18	0.91	
RWS-8	7/9/18	0.46		RWS-8	7/12/18	0.81	
RWS-9	7/9/18	1.59		RWS-9	7/12/18	0.94	
RWS-10	7/9/18	1.55		RWS-10	7/12/18	0.83	
RWS-1	7/10/18	1.59	15.21	RWS-1	7/13/18	1.55	15.20
RWS-2	7/10/18	1.75		RWS-2	7/13/18	1.68	
RWS-3	7/10/18	1.75		RWS-3	7/13/18	1.68	
RWS-4	7/10/18	1.66		RWS-4	7/13/18	1.58	
RWS-5	7/10/18	1.64		RWS-5	7/13/18	1.53	
RWS-6	7/10/18	1.56		RWS-6	7/13/18	1.47	
RWS-7	7/10/18	1.54		RWS-7	7/13/18	1.43	
RWS-8	7/10/18	0.60		RWS-8	7/13/18	1.40	
RWS-9	7/10/18	1.58		RWS-9	7/13/18	1.46	
RWS-10	7/10/18	1.54		RWS-10	7/13/18	1.42	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018**      **3. Recovery Well System Baseline Data and First Quarter of Operation**

Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	7/14/18	1.54	15.17	RWS-1	7/17/18	1.54	15.22
RWS-2	7/14/18	1.68		RWS-2	7/17/18	1.67	
RWS-3	7/14/18	1.68		RWS-3	7/17/18	1.68	
RWS-4	7/14/18	1.58		RWS-4	7/17/18	1.58	
RWS-5	7/14/18	1.53		RWS-5	7/17/18	1.53	
RWS-6	7/14/18	1.45		RWS-6	7/17/18	1.48	
RWS-7	7/14/18	1.44		RWS-7	7/17/18	1.43	
RWS-8	7/14/18	1.40		RWS-8	7/17/18	1.41	
RWS-9	7/14/18	1.46		RWS-9	7/17/18	1.46	
RWS-10	7/14/18	1.43		RWS-10	7/17/18	1.43	
<b>Separator</b>				<b>Separator</b>			
RWS-1	7/15/18	1.55	15.20	RWS-1	7/18/18	1.53	15.22
RWS-2	7/15/18	1.68		RWS-2	7/18/18	1.67	
RWS-3	7/15/18	1.68		RWS-3	7/18/18	1.67	
RWS-4	7/15/18	1.58		RWS-4	7/18/18	1.58	
RWS-5	7/15/18	1.53		RWS-5	7/18/18	1.54	
RWS-6	7/15/18	1.45		RWS-6	7/18/18	1.48	
RWS-7	7/15/18	1.43		RWS-7	7/18/18	1.43	
RWS-8	7/15/18	1.40		RWS-8	7/18/18	1.41	
RWS-9	7/15/18	1.46		RWS-9	7/18/18	1.47	
RWS-10	7/15/18	1.43		RWS-10	7/18/18	1.43	
<b>Separator</b>				<b>Separator</b>			
RWS-1	7/16/18	1.56	15.23	RWS-1	7/19/18	1.51	15.18
RWS-2	7/16/18	1.68		RWS-2	7/19/18	1.67	
RWS-3	7/16/18	1.68		RWS-3	7/19/18	1.68	
RWS-4	7/16/18	1.58		RWS-4	7/19/18	1.58	
RWS-5	7/16/18	1.53		RWS-5	7/19/18	1.54	
RWS-6	7/16/18	1.48		RWS-6	7/19/18	1.47	
RWS-7	7/16/18	1.43		RWS-7	7/19/18	1.44	
RWS-8	7/16/18	1.40		RWS-8	7/19/18	1.41	
RWS-9	7/16/18	1.46		RWS-9	7/19/18	1.47	
RWS-10	7/16/18	1.43		RWS-10	7/19/18	1.43	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018**      **3. Recovery Well System Baseline Data and First Quarter of Operation**

Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	7/20/18	1.07	10.69	RWS-1	7/23/18	0.02	9.39
RWS-2	7/20/18	1.22		RWS-2	7/23/18	1.93	
RWS-3	7/20/18	1.20		RWS-3	7/23/18	1.06	
RWS-4	7/20/18	1.13		RWS-4	7/23/18	1.01	
RWS-5	7/20/18	1.10		RWS-5	7/23/18	0.99	
RWS-6	7/20/18	1.02		RWS-6	7/23/18	0.90	
RWS-7	7/20/18	0.95		RWS-7	7/23/18	0.81	
RWS-8	7/20/18	0.93		RWS-8	7/23/18	0.79	
RWS-9	7/20/18	1.02		RWS-9	7/23/18	0.89	
RWS-10	7/20/18	1.05		RWS-10	7/23/18	0.99	
<b>Separator</b>				<b>Separator</b>			
RWS-1	7/21/18	1.41	14.06	RWS-1	7/24/18	0.03	8.07
RWS-2	7/21/18	1.66		RWS-2	7/24/18	2.03	
RWS-3	7/21/18	1.59		RWS-3	7/24/18	0.83	
RWS-4	7/21/18	1.51		RWS-4	7/24/18	0.79	
RWS-5	7/21/18	1.47		RWS-5	7/24/18	0.78	
RWS-6	7/21/18	1.33		RWS-6	7/24/18	0.74	
RWS-7	7/21/18	1.16		RWS-7	7/24/18	0.73	
RWS-8	7/21/18	1.14		RWS-8	7/24/18	0.71	
RWS-9	7/21/18	1.31		RWS-9	7/24/18	0.72	
RWS-10	7/21/18	1.48		RWS-10	7/24/18	0.71	
<b>Separator</b>				<b>Separator</b>			
RWS-1	7/22/18	0.57	13.70	RWS-1	7/25/18	0.51	15.22
RWS-2	7/22/18	1.72		RWS-2	7/25/18	1.79	
RWS-3	7/22/18	1.64		RWS-3	7/25/18	1.79	
RWS-4	7/22/18	1.56		RWS-4	7/25/18	1.71	
RWS-5	7/22/18	1.52		RWS-5	7/25/18	1.67	
RWS-6	7/22/18	1.39		RWS-6	7/25/18	1.59	
RWS-7	7/22/18	1.22		RWS-7	7/25/18	1.54	
RWS-8	7/22/18	1.20		RWS-8	7/25/18	1.51	
RWS-9	7/22/18	1.36		RWS-9	7/25/18	1.57	
RWS-10	7/22/18	1.52		RWS-10	7/25/18	1.54	

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**October 2018**      **3. Recovery Well System Baseline Data and First Quarter of Operation**

Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	7/26/18	1.64	15.22	RWS-1	7/29/18	1.54	15.23
RWS-2	7/26/18	1.78		RWS-2	7/29/18	1.67	
RWS-3	7/26/18	1.78		RWS-3	7/29/18	1.67	
RWS-4	7/26/18	1.71		RWS-4	7/29/18	1.59	
RWS-5	7/26/18	1.69		RWS-5	7/29/18	1.56	
RWS-6	7/26/18	1.63		RWS-6	7/29/18	1.49	
RWS-7	7/26/18	1.60		RWS-7	7/29/18	1.43	
RWS-8	7/26/18	1.57		RWS-8	7/29/18	1.40	
RWS-9	7/26/18	0.21		RWS-9	7/29/18	1.46	
RWS-10	7/26/18	1.61		RWS-10	7/29/18	1.43	
RWS-1	7/27/18	1.58	15.04	RWS-1	7/30/18	1.55	15.24
RWS-2	7/27/18	1.73		RWS-2	7/30/18	1.67	
RWS-3	7/27/18	1.73		RWS-3	7/30/18	1.67	
RWS-4	7/27/18	1.66		RWS-4	7/30/18	1.59	
RWS-5	7/27/18	1.64		RWS-5	7/30/18	1.55	
RWS-6	7/27/18	1.58		RWS-6	7/30/18	1.48	
RWS-7	7/27/18	1.54		RWS-7	7/30/18	1.43	
RWS-8	7/27/18	1.51		RWS-8	7/30/18	1.40	
RWS-9	7/27/18	0.52		RWS-9	7/30/18	1.46	
RWS-10	7/27/18	1.55		RWS-10	7/30/18	1.43	
RWS-1	7/28/18	1.55	15.25	RWS-1	7/31/18	1.56	15.26
RWS-2	7/28/18	1.67		RWS-2	7/31/18	1.67	
RWS-3	7/28/18	1.67		RWS-3	7/31/18	1.67	
RWS-4	7/28/18	1.59		RWS-4	7/31/18	1.59	
RWS-5	7/28/18	1.56		RWS-5	7/31/18	1.55	
RWS-6	7/28/18	1.48		RWS-6	7/31/18	1.49	
RWS-7	7/28/18	1.43		RWS-7	7/31/18	1.43	
RWS-8	7/28/18	1.40		RWS-8	7/31/18	1.40	
RWS-9	7/28/18	1.46		RWS-9	7/31/18	1.46	
RWS-10	7/28/18	1.43		RWS-10	7/31/18	1.43	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018 3. Recovery Well System Baseline Data and First Quarter of Operation**

**Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).**

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	8/1/18	1.54	15.25	RWS-1	8/4/18	1.57	15.27
RWS-2	8/1/18	1.67		RWS-2	8/4/18	1.68	
RWS-3	8/1/18	1.68		RWS-3	8/4/18	1.68	
RWS-4	8/1/18	1.59		RWS-4	8/4/18	1.59	
RWS-5	8/1/18	1.56		RWS-5	8/4/18	1.56	
RWS-6	8/1/18	1.49		RWS-6	8/4/18	1.48	
RWS-7	8/1/18	1.43		RWS-7	8/4/18	1.43	
RWS-8	8/1/18	1.40		RWS-8	8/4/18	1.40	
RWS-9	8/1/18	1.46		RWS-9	8/4/18	1.46	
RWS-10	8/1/18	1.43		RWS-10	8/4/18	1.43	
RWS-1	8/2/18	1.55	15.25	RWS-1	8/5/18	1.56	15.27
RWS-2	8/2/18	1.67		RWS-2	8/5/18	1.68	
RWS-3	8/2/18	1.68		RWS-3	8/5/18	1.68	
RWS-4	8/2/18	1.59		RWS-4	8/5/18	1.59	
RWS-5	8/2/18	1.56		RWS-5	8/5/18	1.56	
RWS-6	8/2/18	1.49		RWS-6	8/5/18	1.49	
RWS-7	8/2/18	1.43		RWS-7	8/5/18	1.43	
RWS-8	8/2/18	1.40		RWS-8	8/5/18	1.40	
RWS-9	8/2/18	1.46		RWS-9	8/5/18	1.46	
RWS-10	8/2/18	1.43		RWS-10	8/5/18	1.43	
RWS-1	8/3/18	1.55	15.25	RWS-1	8/6/18	1.56	15.26
RWS-2	8/3/18	1.68		RWS-2	8/6/18	1.68	
RWS-3	8/3/18	1.68		RWS-3	8/6/18	1.68	
RWS-4	8/3/18	1.59		RWS-4	8/6/18	1.59	
RWS-5	8/3/18	1.56		RWS-5	8/6/18	1.56	
RWS-6	8/3/18	1.49		RWS-6	8/6/18	1.49	
RWS-7	8/3/18	1.43		RWS-7	8/6/18	1.44	
RWS-8	8/3/18	1.40		RWS-8	8/6/18	1.40	
RWS-9	8/3/18	1.46		RWS-9	8/6/18	1.45	
RWS-10	8/3/18	1.43		RWS-10	8/6/18	1.43	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018 3. Recovery Well System Baseline Data and First Quarter of Operation**

**Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).**

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	8/7/18	1.57	15.27	RWS-1	8/10/18	1.56	15.26
RWS-2	8/7/18	1.68		RWS-2	8/10/18	1.68	
RWS-3	8/7/18	1.67		RWS-3	8/10/18	1.68	
RWS-4	8/7/18	1.59		RWS-4	8/10/18	1.59	
RWS-5	8/7/18	1.56		RWS-5	8/10/18	1.55	
RWS-6	8/7/18	1.49		RWS-6	8/10/18	1.48	
RWS-7	8/7/18	1.44		RWS-7	8/10/18	1.44	
RWS-8	8/7/18	1.40		RWS-8	8/10/18	1.40	
RWS-9	8/7/18	1.46		RWS-9	8/10/18	1.46	
RWS-10	8/7/18	1.43		RWS-10	8/10/18	1.43	
RWS-1	8/8/18	1.55	15.26	RWS-1	8/11/18	1.54	15.25
RWS-2	8/8/18	1.67		RWS-2	8/11/18	1.68	
RWS-3	8/8/18	1.68		RWS-3	8/11/18	1.68	
RWS-4	8/8/18	1.59		RWS-4	8/11/18	1.59	
RWS-5	8/8/18	1.56		RWS-5	8/11/18	1.55	
RWS-6	8/8/18	1.48		RWS-6	8/11/18	1.48	
RWS-7	8/8/18	1.43		RWS-7	8/11/18	1.43	
RWS-8	8/8/18	1.40		RWS-8	8/11/18	1.41	
RWS-9	8/8/18	1.46		RWS-9	8/11/18	1.46	
RWS-10	8/8/18	1.43		RWS-10	8/11/18	1.43	
RWS-1	8/9/18	1.56	15.27	RWS-1	8/12/18	1.55	15.25
RWS-2	8/9/18	1.68		RWS-2	8/12/18	1.68	
RWS-3	8/9/18	1.68		RWS-3	8/12/18	1.68	
RWS-4	8/9/18	1.59		RWS-4	8/12/18	1.59	
RWS-5	8/9/18	1.55		RWS-5	8/12/18	1.55	
RWS-6	8/9/18	1.49		RWS-6	8/12/18	1.48	
RWS-7	8/9/18	1.43		RWS-7	8/12/18	1.44	
RWS-8	8/9/18	1.40		RWS-8	8/12/18	1.41	
RWS-9	8/9/18	1.46		RWS-9	8/12/18	1.46	
RWS-10	8/9/18	1.43		RWS-10	8/12/18	1.43	

**FPL Turkey Point Recovery Well System Startup Report**  
**October 2018 3. Recovery Well System Baseline Data and First Quarter of Operation**

**Table 3.4-1. Daily Pumping Volumes for Each Recovery Well (May 15, 2018 through August 15, 2018) (continued).**

Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)	Pump	Date	Volume Pumped (Mgal)	Total Volume Pumped (Mgal)
RWS-1	8/13/18	1.54	15.26	RWS-1	8/15/18	1.56	15.27
RWS-2	8/13/18	1.68		RWS-2	8/15/18	1.68	
RWS-3	8/13/18	1.68		RWS-3	8/15/18	1.68	
RWS-4	8/13/18	1.59		RWS-4	8/15/18	1.59	
RWS-5	8/13/18	1.55		RWS-5	8/15/18	1.55	
RWS-6	8/13/18	1.49		RWS-6	8/15/18	1.49	
RWS-7	8/13/18	1.43		RWS-7	8/15/18	1.43	
RWS-8	8/13/18	1.41		RWS-8	8/15/18	1.41	
RWS-9	8/13/18	1.46		RWS-9	8/15/18	1.46	
RWS-10	8/13/18	1.43		RWS-10	8/15/18	1.43	
				Total Volume Pumped During Post Startup Period (Mgal) 1351.68 Average Daily Volume Pumped (Mgal/day) 14.53			
RWS-1	8/14/18	1.51	15.25	NOTE: The data has not been fully QA/QC and is considered provisional.			
RWS-2	8/14/18	1.68		KEY:			
RWS-3	8/14/18	1.68		Mgal = Million gallon			
RWS-4	8/14/18	1.59		ppt = parts per thousand			
RWS-5	8/14/18	1.56		mg/L = Milligrams (s) per liter.			
RWS-6	8/14/18	1.49		lb = pound			
RWS-7	8/14/18	1.44					
RWS-8	8/14/18	1.41					
RWS-9	8/14/18	1.46					
RWS-10	8/14/18	1.43					

**FPL Turkey Point Recovery Well System Startup Report**  
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**Table 3.4-2. First Quarter Weekly Well Volume Pumped and Salt Mass Removed.**

<b>Pump</b>	<b>Week Ending</b>	<b>Volume Pumped (Mgal)</b>	<b>Salinity (ppt)</b>	<b>TDS Average (mg/L)</b>	<b>Salt (Mlb)</b>
RWS-1	05/20/2018	12.48	41.47	38.88	4.05
RWS-2	05/20/2018	2.72	51.40	49.10	1.12
RWS-3	05/20/2018	12.24	58.05	51.99	5.31
RWS-4	05/20/2018	11.53	56.38	50.69	4.88
RWS-5	05/20/2018	11.38	57.59	51.64	4.90
RWS-6	05/20/2018	11.36	55.75	50.26	4.76
RWS-7	05/20/2018	12.06	57.47	51.57	5.19
RWS-8	05/20/2018	6.61	57.83	51.81	2.86
RWS-9	05/20/2018	12.19	56.55	50.87	5.17
RWS-10	05/20/2018	11.96	51.94	47.30	4.72
RWS-1	05/27/2018	12.45	41.43	38.87	4.04
RWS-2	05/27/2018	13.57	53.97	48.90	5.54
RWS-3	05/27/2018	10.39	58.16	52.07	4.51
RWS-4	05/27/2018	9.37	56.98	51.15	4.00
RWS-5	05/27/2018	8.40	57.47	51.55	3.61
RWS-6	05/27/2018	11.78	54.15	48.97	4.82
RWS-7	05/27/2018	12.95	56.80	51.03	5.52
RWS-8	05/27/2018	0.00	NA	NA	0.00
RWS-9	05/27/2018	13.14	56.04	50.45	5.53
RWS-10	05/27/2018	12.90	51.20	46.70	5.03
RWS-1	06/03/2018	11.72	41.20	38.68	3.78
RWS-2	06/03/2018	13.45	53.51	48.54	5.45
RWS-3	06/03/2018	11.85	57.92	51.89	5.13
RWS-4	06/03/2018	10.44	56.86	51.06	4.45
RWS-5	06/03/2018	11.25	57.32	51.44	4.83
RWS-6	06/03/2018	10.70	54.05	48.89	4.37
RWS-7	06/03/2018	9.90	56.63	50.91	4.21
RWS-8	06/03/2018	0.00	NA	NA	0.00
RWS-9	06/03/2018	9.96	56.02	50.45	4.19
RWS-10	06/03/2018	11.13	51.04	46.57	4.33

**FPL Turkey Point Recovery Well System Startup Report**  
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**Table 3.4-2. First Quarter Weekly Well Volume Pumped and Salt Mass Removed (continued).**

<b>Pump</b>	<b>Week Ending</b>	<b>Volume Pumped (Mgal)</b>	<b>Salinity (ppt)</b>	<b>TDS Average (mg/L)</b>	<b>Salt (Mlb)</b>
RWS-1	06/10/2018	11.50	40.80	38.35	3.68
RWS-2	06/10/2018	13.01	53.14	48.25	5.24
RWS-3	06/10/2018	12.12	57.78	51.78	5.24
RWS-4	06/10/2018	11.73	56.77	50.99	4.99
RWS-5	06/10/2018	10.72	57.23	51.36	4.60
RWS-6	06/10/2018	11.34	54.00	48.86	4.62
RWS-7	06/10/2018	10.76	56.46	50.78	4.56
RWS-8	06/10/2018	0.00	NA	NA	0.00
RWS-9	06/10/2018	10.64	56.02	50.44	4.48
RWS-10	06/10/2018	11.01	50.49	46.10	4.27
RWS-1	06/17/2018	11.53	40.75	38.30	3.69
RWS-2	06/17/2018	11.18	52.97	48.12	4.49
RWS-3	06/17/2018	12.03	57.79	51.79	5.20
RWS-4	06/17/2018	11.65	56.66	50.91	4.95
RWS-5	06/17/2018	10.52	57.22	51.36	4.51
RWS-6	06/17/2018	10.45	54.00	48.86	4.26
RWS-7	06/17/2018	11.27	56.26	50.62	4.76
RWS-8	06/17/2018	1.95	58.48	52.34	0.85
RWS-9	06/17/2018	11.34	56.01	50.44	4.77
RWS-10	06/17/2018	11.42	50.72	46.33	4.42
RWS-1	06/24/2018	11.16	40.80	38.35	3.57
RWS-2	06/25/2018	8.75	53.30	48.38	3.53
RWS-3	06/24/2018	11.10	58.95	52.68	4.88
RWS-4	06/24/2018	10.75	56.64	50.89	4.56
RWS-5	06/24/2018	10.61	57.24	51.38	4.55
RWS-6	06/24/2018	10.47	53.96	48.83	4.27
RWS-7	06/24/2018	10.48	56.15	50.54	4.42
RWS-8	06/24/2018	9.91	58.49	52.35	4.33
RWS-9	06/24/2018	10.40	56.02	50.44	4.38
RWS-10	06/24/2018	10.31	50.66	46.28	3.98

**FPL Turkey Point Recovery Well System Startup Report**  
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**Table 3.4-2. First Quarter Weekly Well Volume Pumped and Salt Mass Removed (continued).**

<b>Pump</b>	<b>Week Ending</b>	<b>Volume Pumped (Mgal)</b>	<b>Salinity (ppt)</b>	<b>TDS Average (mg/L)</b>	<b>Salt (Mlb)</b>
RWS-1	07/01/2018	10.86	41.12	38.61	3.50
RWS-2	07/01/2018	11.72	53.11	48.23	4.72
RWS-3	07/01/2018	11.72	58.99	52.71	5.15
RWS-4	07/01/2018	11.05	56.60	50.86	4.69
RWS-5	07/01/2018	10.82	57.23	51.37	4.64
RWS-6	07/01/2018	10.35	53.97	48.84	4.22
RWS-7	07/01/2018	10.02	56.08	50.48	4.22
RWS-8	07/01/2018	9.73	58.39	52.27	4.24
RWS-9	07/01/2018	10.18	56.00	50.43	4.28
RWS-10	07/01/2018	9.97	50.63	46.25	3.85
RWS-1	07/08/2018	9.98	41.47	38.90	3.24
RWS-2	07/08/2018	10.85	53.00	48.14	4.36
RWS-3	07/08/2018	10.91	59.20	52.87	4.81
RWS-4	07/08/2018	10.31	56.55	50.82	4.37
RWS-5	07/08/2018	10.09	57.20	51.35	4.32
RWS-6	07/08/2018	9.63	53.95	48.82	3.92
RWS-7	07/08/2018	9.46	56.00	50.43	3.98
RWS-8	07/08/2018	7.19	58.25	52.17	3.13
RWS-9	07/08/2018	9.64	55.93	50.37	4.05
RWS-10	07/08/2018	9.32	50.55	46.19	3.59
RWS-1	07/15/2018	10.18	41.39	38.84	3.30
RWS-2	07/15/2018	11.25	52.99	48.12	4.52
RWS-3	07/15/2018	11.16	59.29	52.93	4.93
RWS-4	07/15/2018	10.54	56.51	50.79	4.47
RWS-5	07/15/2018	10.25	57.13	51.29	4.39
RWS-6	07/15/2018	9.70	53.89	48.77	3.95
RWS-7	07/15/2018	9.28	55.94	50.38	3.90
RWS-8	07/15/2018	9.08	58.17	52.10	3.95
RWS-9	07/15/2018	9.65	55.86	50.32	4.05
RWS-10	07/15/2018	9.70	50.46	46.12	3.73

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**Table 3.4-2. First Quarter Weekly Well Volume Pumped and Salt Mass Removed (continued).**

<b>Pump</b>	<b>Week Ending</b>	<b>Volume Pumped (Mgal)</b>	<b>Salinity (ppt)</b>	<b>TDS Average (mg/L)</b>	<b>Salt (Mlb)</b>
RWS-1	07/22/2018	5.85	43.09	40.23	1.96
RWS-2	07/22/2018	12.66	52.86	48.03	5.07
RWS-3	07/22/2018	10.51	58.97	52.69	4.62
RWS-4	07/22/2018	10.03	56.42	50.72	4.25
RWS-5	07/22/2018	1.52	57.10	51.27	0.65
RWS-6	07/22/2018	9.31	53.86	48.75	3.79
RWS-7	07/22/2018	1.22	55.91	50.35	0.51
RWS-8	07/22/2018	8.69	58.07	52.03	3.77
RWS-9	07/22/2018	6.73	55.76	50.24	2.82
RWS-10	07/22/2018	9.35	50.35	46.03	3.59
RWS-1	07/29/2018	10.85	41.42	38.86	3.52
RWS-2	07/29/2018	11.72	52.84	48.01	4.70
RWS-3	07/29/2018	11.73	58.75	52.53	5.14
RWS-4	07/29/2018	11.12	56.37	50.68	4.70
RWS-5	07/30/2018	9.33	57.06	51.24	3.99
RWS-6	07/29/2018	10.40	53.84	48.74	4.23
RWS-7	07/30/2018	8.58	55.84	50.31	3.60
RWS-8	07/29/2018	9.82	58.02	51.99	4.26
RWS-9	07/29/2018	10.19	55.74	50.22	4.27
RWS-10	07/29/2018	10.02	50.28	45.97	3.84
RWS-1	08/05/2018	10.89	41.23	38.70	3.52
RWS-2	08/05/2018	11.73	52.92	48.07	4.71
RWS-3	08/05/2018	11.73	58.73	52.51	5.14
RWS-4	08/05/2018	11.12	56.31	50.63	4.70
RWS-5	08/05/2018	10.88	57.06	51.24	4.65
RWS-6	08/05/2018	10.40	53.83	48.73	4.23
RWS-7	08/05/2018	10.04	55.78	50.26	4.21
RWS-8	08/05/2018	9.83	58.00	51.97	4.26
RWS-9	08/05/2018	10.20	55.73	50.22	4.27
RWS-10	08/05/2018	10.01	50.23	45.94	3.84

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**Table 3.4-2. First Quarter Weekly Well Volume Pumped and Salt Mass Removed (continued).**

<b>Pump</b>	<b>Week Ending</b>	<b>Volume Pumped (Mgal)</b>	<b>Salinity (ppt)</b>	<b>TDS Average (mg/L)</b>	<b>Salt (Mlb)</b>
RWS-1	08/12/2018	10.55	41.56	38.97	3.43
RWS-2	08/12/2018	11.76	52.94	48.08	4.72
RWS-3	08/12/2018	11.77	58.75	52.52	5.16
RWS-4	08/12/2018	11.14	56.29	50.62	4.70
RWS-5	08/12/2018	10.91	57.07	51.25	4.67
RWS-6	08/12/2018	10.43	53.84	48.73	4.24
RWS-7	08/12/2018	10.07	55.75	50.23	4.22
RWS-8	08/12/2018	9.89	58.01	51.98	4.29
RWS-9	08/12/2018	10.23	55.73	50.22	4.29
RWS-10	08/12/2018	10.05	50.18	45.90	3.85
RWS-1	08/19/2018	9.86	41.84	39.20	3.23
RWS-2	08/19/2018	10.57	52.96	48.10	4.24
RWS-3	08/19/2018	10.56	59.34	52.97	4.67
RWS-4	08/19/2018	10.11	56.25	50.59	4.27
RWS-5	08/19/2018	10.11	57.05	51.23	4.32
RWS-6	08/19/2018	9.68	53.82	48.72	3.94
RWS-7	08/19/2018	9.41	55.71	50.20	3.94
RWS-8	08/19/2018	9.23	58.00	51.97	4.00
RWS-9	08/19/2018	9.61	55.72	50.21	4.03
RWS-10	08/19/2018	9.40	50.12	45.85	3.60
Total Salt Removed (Mlb)					577.48
Total Volume Pumped Post Startup (Mgal)					1416.42

NOTE:  
 The data has not been fully QA/QC and is considered provisional.  
 KEY:

Mgal = Million gallon

ppt = parts per thousand

mg/L = Milligram(s) per liter.

Mlb = Million pound

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Table 3.5-1. Groundwater elevations on May 18, 2018 at 8:00 p.m.

Sites	Elevation (ft, NAVD 88)
TPGW-1S	-0.703
TPGW-1M	-1.116
TPGW-1D	-1.109
TPGW-2S	-0.792
TPGW-2M	-0.947
TPGW-2D	-0.995
TPGW-4S	-0.059
TPGW-4M	-0.434
TPGW-4D	-0.485
TPGW-5S	0.104
TPGW-5M	-0.415
TPGW-5D	-0.627
TPGW-7S	0.150
TPGW-7M	0.205
TPGW-7D	-0.084
TPGW-12S	-1.113
TPGW-12M	-1.311
TPGW-12D	-1.125
TPGW-17S	-0.459
TPGW-17M	-0.930
TPGW-17D	-0.874
TPGW-18S	NA
TPGW-18M	-0.701
TPGW-18D	-0.727
TPGW-19S	-0.298
TPGW-19M	-0.913
TPGW-19D	-1.092

Note:

TPGW-18S LT probe was removed on 5/7/18 to troubleshoot oscillating data.

Key:

ft = Feet.

NA = Not available.

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# FIGURES



**FPL Turkey Point Recovery Well System Startup Report  
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**3. Recovery Well System Baseline Data and First Quarter of Operation**



Figure 3.1-1. Location of Recovery Wells and Monitoring Wells.

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**3. Recovery Well System Baseline Data and First Quarter of Operation**

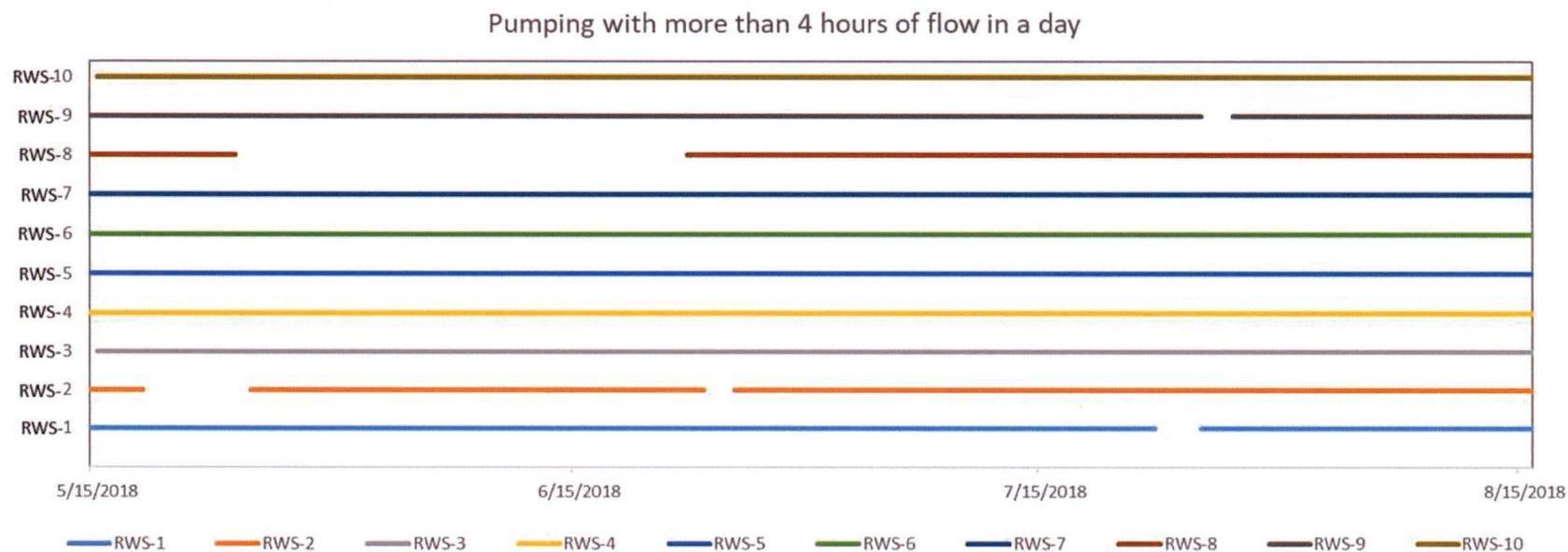


Figure 3.4-1. Operation of RWS in the First Quarter.

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**3. Recovery Well System Baseline Data and First Quarter of Operation**

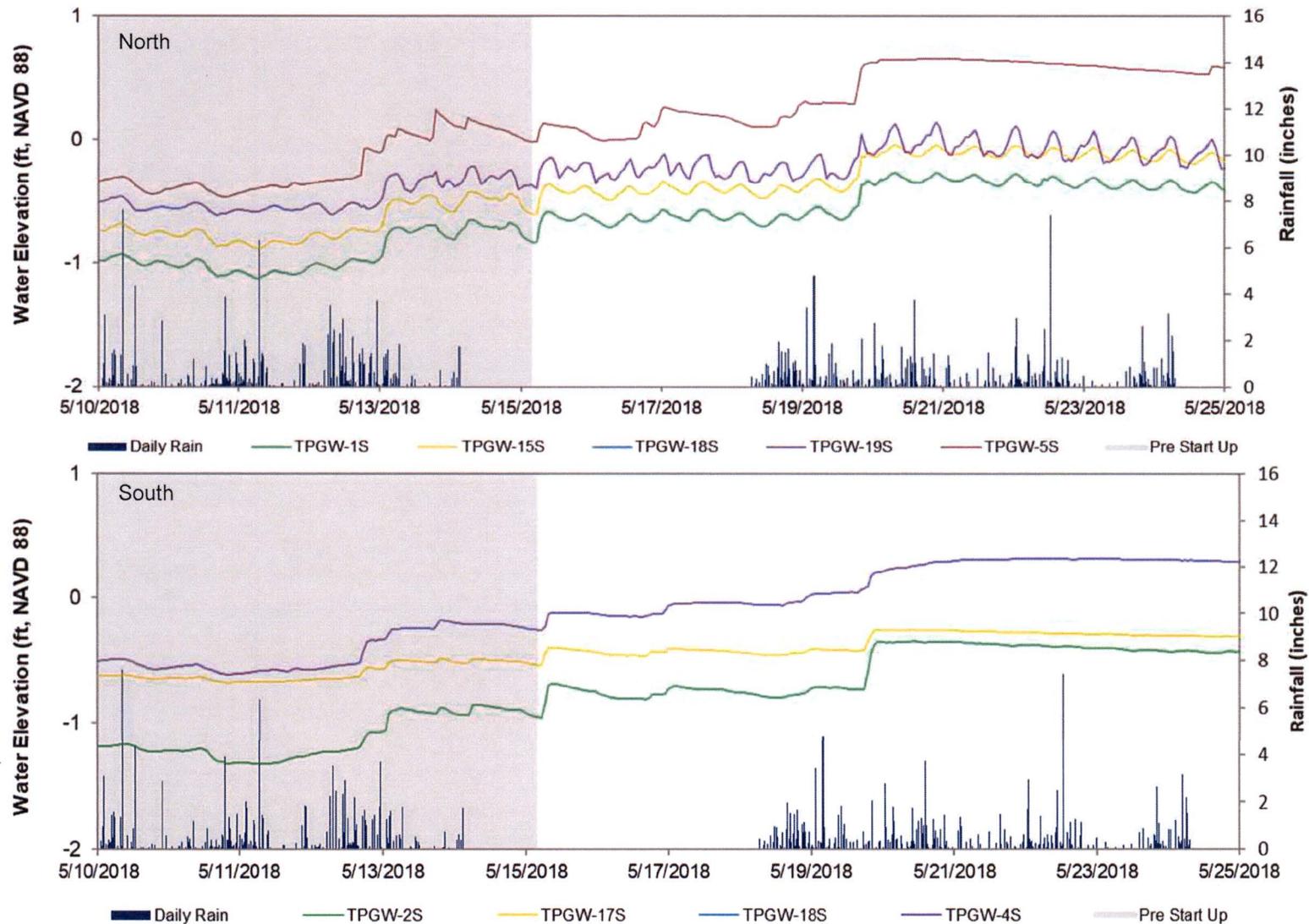


Figure 3.5-1. Shallow Groundwater Monitoring Well Level Changes at RWS start up (May 15, 2018 – May 25, 2018)

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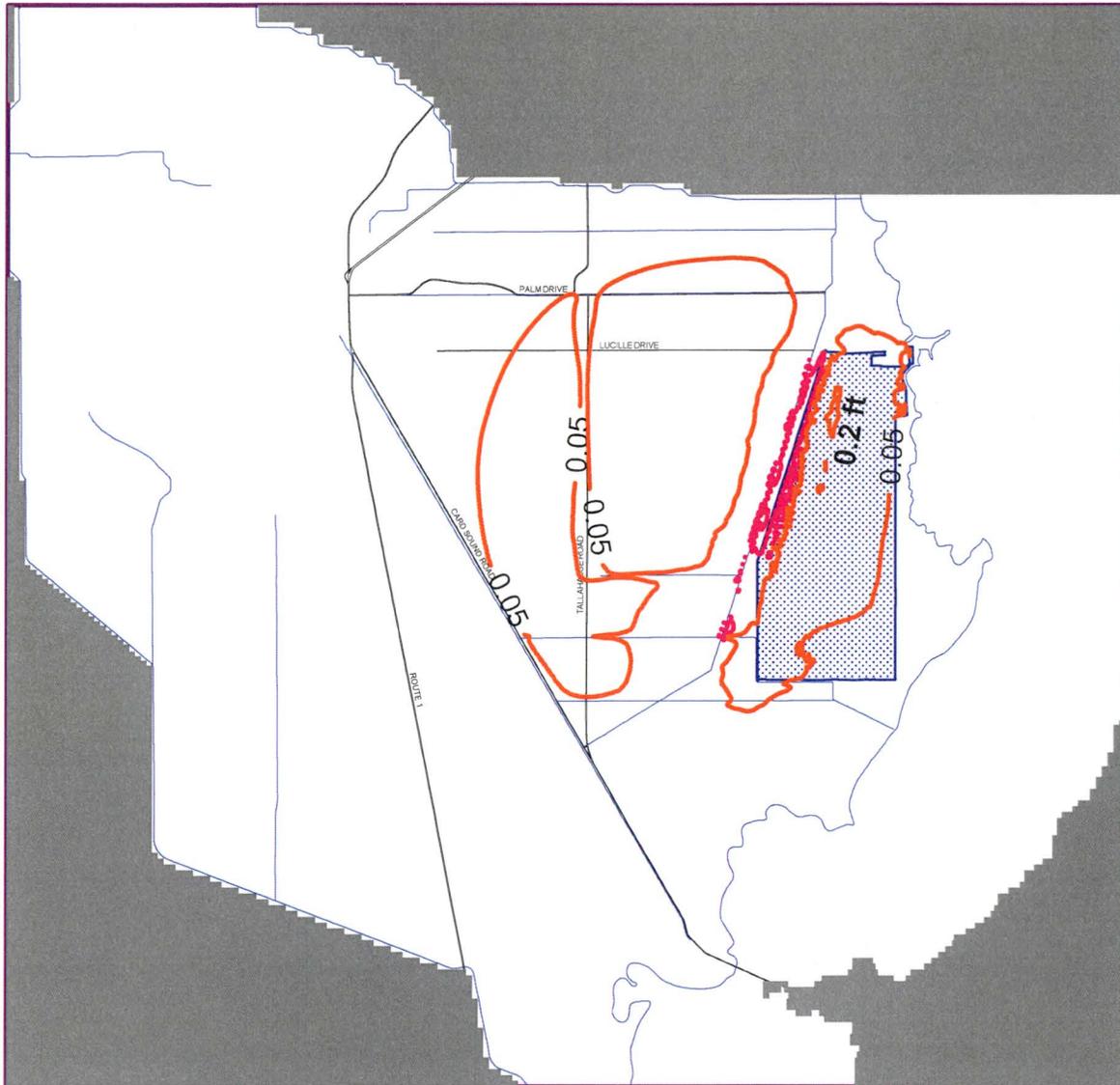


Note:  
Interpolations conducted with ESRI ARCGIS 10.5 "Kriging" surface tool.  
Water levels are based on measured values not adjusted for fluid density.

Figure 3.5-2. Groundwater Elevation Contour Map; data from May 2018 at 8 p.m.

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NOTE:  
Source: Figure provided as part of memo to Miami Dade-County (June 2016).  
Pink contours are simulated rebound; orange contours are simulated drawdown.

**Figure 3.5-3. Simulated Drawdown Contours in the Water Table after 10 Years of the Selected RWS Alternative.**

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***4. References***

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## **4. REFERENCES**

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