



**Florida Power & Light Company
Cape Canaveral Clean Energy Center
Proposed Groundwater Monitoring Plan**

January 2013

This Proposed Groundwater Monitoring Plan is provided for the Florida Power & Light Company (FPL) Cape Canaveral Clean Energy Center (CCEC). This plan has been prepared based on the recent groundwater monitoring results obtained for CCEC and in accordance with the Florida Department of Environmental Protection (FDEP) letters dated November 7, 2011 and November 30, 2012. This plan provides the recommended analysis and monitoring schedule to evaluate groundwater quality following the completion of the substantial source removal and site assessment work performed at CCEC during 2010 and 2011.

The source removal work was performed to address site impacts attributable to the former Cape Canaveral oil fired power plant which was dismantled for the construction of the new high efficiency CCEC. Source materials such as impacted soil and ash residue were excavated and removed from the site because they contained metals such as antimony, nickel and vanadium. The source removal work included the area of the former ash containment pond which was located immediately upgradient of most of the existing monitoring wells. The nine existing site monitoring wells are shown on **Figure 1**. The groundwater monitoring proposed here will provide data for evaluating the long term affects of the source removal work and showing the improvements in groundwater quality.

The majority of the site monitoring wells were sampled in March, September and December 2012. The results are summarized in **Table 1**. As indicated by the recent December groundwater results, antimony was not detected in any of the wells above its 6 micrograms per liter (ug/l) groundwater cleanup target level (GCTL) listed in Chapter 62-777, Florida Administrative Code (F.A.C.). Vanadium was detected above its 49 ug/l GCTL in wells OB-3, OB-5, OB-5I, EPB-E, EPB-NE and EPB-SE. Arsenic was detected above its 10 ug/l GCTL in only one well, EPB-SE and nickel was detected above its 100 ug/l GCTL in only one well, EPB-NE. The detected metals are expected to attenuate over time since the source was excavated and removed from the CCEC property.

The compounds sodium, chloride and total dissolved solids (TDS) were detected at elevated concentrations in wells OB-5I, OB-5D, OB-5DD, EPB-E, EPB-NE, EPB-SE and TMW-1. However, the concentrations of these compounds have historically been elevated due to the proximity of the Intracoastal Waterway. As requested by FDEP, additional sampling was also conducted during December 2012 which included sampling all the site monitoring wells for polynuclear aromatic hydrocarbons (PAHs), volatile organic aromatics and creosote. As indicated by the results, none of these compounds were detected above the GCTLs.

Proposed Monitoring

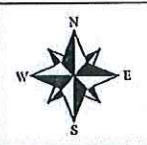
Groundwater sampling will be conducted in accordance with FDEP standard operating procedures (SOPs). Based on the recent groundwater sampling results as well as on the results of the source removal work, we propose the following be performed. All existing nine monitoring wells will be sampled for vanadium, sodium,

chloride and TDS. Well EPB-NE will also be sampled for nickel and well EPB-SE will be sampled for arsenic. We will conduct groundwater monitoring on a semi-annual basis for one year and thereafter groundwater monitoring will be conducted on an annual basis for four years. During this period, modifications can be made to the proposed monitoring if necessary. If the results obtained from two consecutive sampling events indicate that modifications should be made to the monitoring plan, then changes will be discussed with FDEP for approval.

Reporting

The groundwater monitoring results will be evaluated and provided to the FDEP within 45 days of receipt of the laboratory data. The reported information will include groundwater elevation data, groundwater flow direction, summary tables of the analytical results and isoconcentration maps for detected compounds. Based on the substantial source removal performed at the CCEC property, the recent groundwater results, and the easterly direction of groundwater flow for the area, this proposed monitoring plan provides for adequate monitoring of the site conditions.

If you have any questions or require additional information, please contact Adrienne Charbonneau at Adrienne.Charbonneau@fpl.com (561-691-7510).



LEGEND

-  Existing Monitoring Well Location

FIGURE 1: Existing Monitoring Well Location Map

Monitoring Well Location Map
FPL Cape Canaveral Energy Center

CLIENT: Florida Power & Light, Co.

TCGI PROJ #: 15017

SCALE: 1" = 75'

DRAWN BY: AP 05/26/11



Table 1
Summary of Groundwater Analytical Data
FPL Cape Canaveral Energy Center

Contaminates of Concern		Vanadium	Nickel	Antimony	Arsenic	Sodium	Chloride	VOA	PAH	Creosol	Turbidity	pH	TDS
GCTLs		49	100	6	10	160	250					6.5-8.5	500
Sample ID	Sample Date	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	ug/L	ug/L	ug/L	NTU	SU	mg/L
EPB-NE	23-Feb-11					910	190						3400
EPB-NE	9-Mar-11					1000	200						3400
EPB-NE	7-Sep-11			21.1									
EPB-NE	22-Mar-12	460	24	1.31	6.01	490	680				38.2	6.97	2600
EPB-NE	26-Sep-12	730	95	<0.95	4.61	260	340				21.2	7.01	760
EPB-NE	12-Dec-12	480	110	<0.95	3.41	220	170	ND	ND	ND	25.6	7.41	870
EPB-E	7-Sep-11			<7.5									
EPB-E	22-Mar-12	830	8.1	2.01	7.41	640	1300				17.4	7.31	3000
EPB-E	26-Sep-12	2300	87	<0.95	4.71	240	180				49.6	7.12	1170
EPB-E	12-Dec-12	1200	21	<0.95	2.81	200	160	ND	ND	ND	44	7.62	829
OB-5-DD	7-Sep-11			<7.5									
OB-5-DD	22-Mar-12	33	8.4	<0.95	14	1200	4200				20.1	7.03	3900
OB-5-DD	26-Sep-12	35	0.281	<0.95	<0.65	2200	4100				15.7	7.35	2200
OB-5-DD	12-Dec-12	23	<0.24	<0.95	<0.65	2100	4100	ND	ND	ND	15.4	7.64	7240
OB-5D	7-Sep-11			<7.5									
OB-5D	22-Mar-12	28	2.61	0.961	0.911	66	98				1.51	7.29	540
OB-5D	26-Sep-12	7.81	0.831	<0.95	<0.65	350	800				1.16	6.94	1650
OB-5D	12-Dec-12	6.11	<0.24	<0.95	<0.65	910	2200	ND	ND*	ND	2.62	6.90	5160
OB-5I	7-Sep-11			<7.5									
OB-5I	22-Mar-12	360	8.6	1.41	14	850	3200				2.89	7.66	6600
OB-5I	26-Sep-12	2700	0.901	2.11	7.71	990	1300				4.35	8.30	2450
OB-5I	12-Dec-12	960	0.341	<0.95	3.91	860	1300	ND	ND	ND	7.56	8.58	2640
OB-5	23-Feb-11			6.6		1000	140						4200
OB-5	9-Mar-11			6.6		2100	4100						7400
OB-5	7-Sep-11			<7.5									
OB-5	22-Mar-12	320	6.21	<0.95	8.1	820	2000				0.42	7.04	4100
OB-5	26-Sep-12	990	15	<0.95	1.91	91	110				2.04	6.99	605
OB-5	12-Dec-12	690	10	<0.95	0.801	65	84	ND	ND	ND	2.04	7.39	374
OB-3	12-Dec-12	3900	10	<0.95	3.71	110	51	ND	ND	ND	19	8.11	350
EPB-SE	23-Feb-11					610	420						1900
EPB-SE	9-Mar-11					570	720						1800
EPB-SE	7-Sep-11			<7.5									
EPB-SE	22-Mar-12	64	5.91	<0.95	5.71	630	700				3.99	6.88	2300
EPB-SE	26-Sep-12												
WELL NOT ACCESSIBLE													
EPB-SE-R	12-Dec-12	51	1.21	<0.95	22	270	430	ND	ND	ND	1.27	6.99	1260
TMW-1	23-Feb-11					540	670						1900
TMW-1	9-Mar-11					610	750						1900
TMW-1	22-Mar-12	26	3.81	<0.95	8.5	680	1600				1.42	7.10	3400
TMW-1	26-Sep-12	9.8	0.571	<0.95	0.841	260	330				2.81	7.36	880
TMW-1	12-Dec-12	12	<0.24	<0.95	0.9041	471	890	ND	ND	ND	0.71	7.55	1820

Notes:

ug/L- micrograms per liter

mg/L- milligrams per liter

Constituent not analyzed

VOA- volatile organic aromatics

PAH- polycyclic aromatic hydrocarbons

GCTL- Groundwater Cleanup Target Level as provided by Chapter 62-777 FAC

ND- Constituent not detected in sample.

*- PAHs not detected in sample except for Acenaphthene but well below GCTL.

I- Indicates concentration detected between MDL and PQL.

Red, bold and underlined text indicates concentration exceeds applicable Groundwater Cleanup Target Levels.

Table 2
Summary of Groundwater Analytical Data
FPL Cape Canaveral Energy Center

Constituents		Sodium	Chloride	TDS
GCTLs		160	250	500
Sample ID	Sample Date	mg/L	mg/L	mg/L
EPB-NE	23-Feb-11	910	190	3400
EPB-NE	9-Mar-11	1000	200	3400
EPB-NE	7-Sep-11			
EPB-NE	22-Mar-12	490	680	2500
EPB-NE	26-Sep-12	260	340	750
OB-5	23-Feb-11	1000	140	4200
OB-5	9-Mar-11	2100	4100	7400
OB-5	7-Sep-11			
OB-5	22-Mar-12	820	2000	4100
OB-5	26-Sep-12	91	110	505
EPB-SE	23-Feb-11	510	420	1900
EPB-SE	9-Mar-11	570	720	1800
EPB-SE	7-Sep-11			
EPB-SE	22-Mar-12	630	700	2300
EPB-SE	26-Sep-12			
EPB-SE-R	12-Dec-12	270	430	1260
TMW-1	23-Feb-11	540	670	1900
TMW-1	9-Mar-11	610	750	1900
TMW-1	7-Sep-11			
TMW-1	22-Mar-12	680	1600	3400
TMW-1	26-Sep-12	260	330	880

Notes:

ug/L- micrograms per liter

mg/L- milligrams per liter

Constituent not analyzed

GCTL- Groundwater Cleanup Target Level as provided by Chapter 62-777 FAC

Indicates background sampling events obtained prior to any dewatering activity



May 15, 2024

Ms. Johanna Leonard
Environmental Specialist III
Permitting and Waste Cleanup Program
Department of Environmental Protection - Central District
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

2024 Annual Groundwater Monitoring Report (AGWMR)
FPL Cape Canaveral Energy Center
WCU Site ID: COM_318469. ERIC_12428

Dear Ms. Leonard:

Florida Power & Light Company (FPL) is pleased to present the 2024 Annual Groundwater Monitoring report for the Cape Canaveral Energy Center (CCEC). The work included sampling activities approved in the Florida Department of Environmental Protection (FDEP) Review of 2017 AGWMR correspondence, dated July 7, 2017. All comments received in the FDEP review of the 2023 AGWMR have been addressed with revisions as necessary in the 2024 AGWMR. A copy of FDEP's comment letters from the 2017 and 2023 AGWMRs are included as **Attachment A**.

On March 21, 2024, groundwater samples were collected from 12 on-site monitoring wells to evaluate groundwater quality. The monitoring well locations are depicted on **Figure 1**.

Depth-to-water was measured in all wells prior to sampling and the information was used to determine groundwater elevations and direction for the site. No storm water was present in the detention pond; therefore, depth-to-water was not measured at the staff gauge. Groundwater flow direction in both the shallow and deeper portion of the water-bearing zone is toward the east. A summary of groundwater elevation data is provided in **Table 1**, and the potentiometric groundwater elevations are depicted on **Figures 2 and 3**.

All samples were collected in accordance with DEP-SOP-001/01 FS 2200, as provided by Chapter 62-160 FAC, and analyzed at a National Environmental Laboratory Accreditation Conference (NELAC)-certified environmental laboratory, Florida Power & Light Central Laboratory [Florida DOH certification number E56078]. Groundwater samples collected from monitoring wells EPB-NWR, OB-5D-S, EPB-E, EPB-SE, and OB-5D were analyzed for vanadium and total dissolved solids (TDS). Samples from monitoring wells MW-1DR, MW-2R, MW-4D, MW-5, OB-5I, and OB-5R were analyzed for vanadium, and a sample from

Ms. Johanna Leonard
FDEP
May 15, 2024

OB-5DD was analyzed for TDS only. The laboratory analytical report and groundwater sampling logs are provided as **Attachment B**.

A cumulative summary of the groundwater analytical results is provided in **Table 2**, and a map showing the vanadium concentrations is provided as **Figure 4**. The analytical results obtained from the sample collected from the northern most surficial water bearing zone boundary well MW-2R indicated a value for vanadium of 23 µg/l which was below the GCTL of 49 µg/l. This year's vanadium result was lower than last year's which was 70 µg/l.

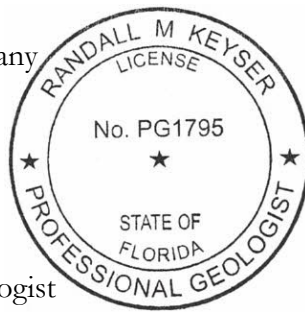
FPL recommends continued monitoring, with the next annual sampling event to be conducted in March 2025, with analytical results provided to the FDEP no later than May 15, 2025.

Please contact me directly at 561-691-2490 if you have any questions or require additional information.

Sincerely,
Florida Power & Light Company



Randall M. Keyser, P.G.
Senior Project Manager/Geologist



cc:

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FIGURES



SITE PLAN

Cape Canaveral Clean Energy Center

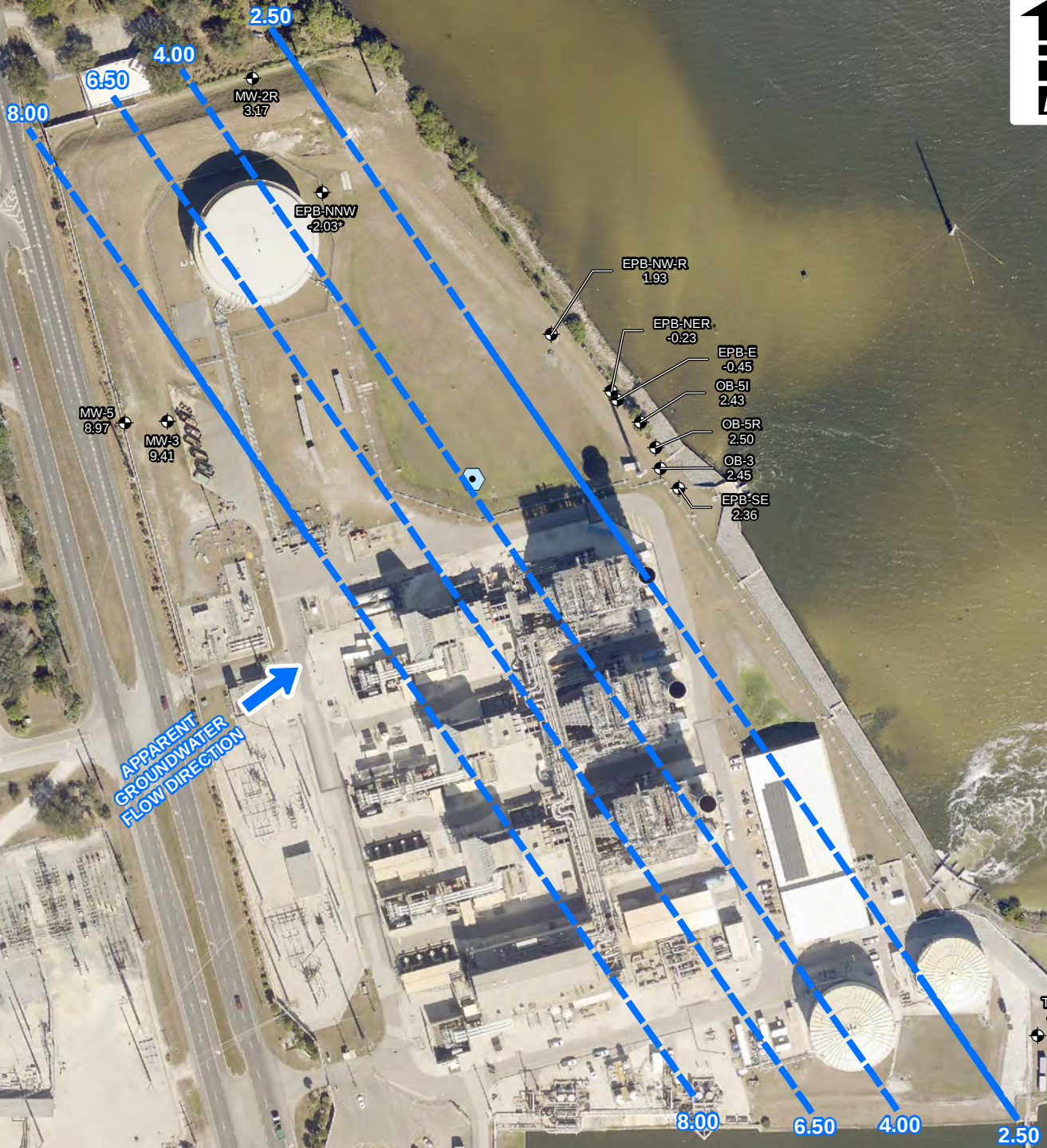
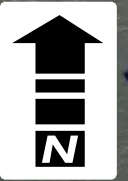
LEGEND:

- MONITORING WELL
- STAFF GAUGE

SCALE:



FIGURE 1



GROUNDWATER ELEVATION CONTOUR MAP (SHALLOW ZONE - MARCH 2024)

Cape Canaveral Clean Energy Center

LEGEND:

-  MONITORING WELL
-  STAFF GAUGE
-  GROUNDWATER ELEVATION CONTOUR
-  INFERRED GROUNDWATER ELEVATION CONTOUR

NOTES:
DEPTH TO WATER MEASURED 03/21/2024
ELEVATIONS RELATIVE TO NORTH AMERICAN
VERTICAL DATUM OF 1988
*- ANOMALOUS DATA POINT NOT USED FOR
CONTOURING

SCALE:

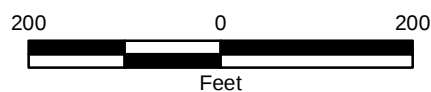
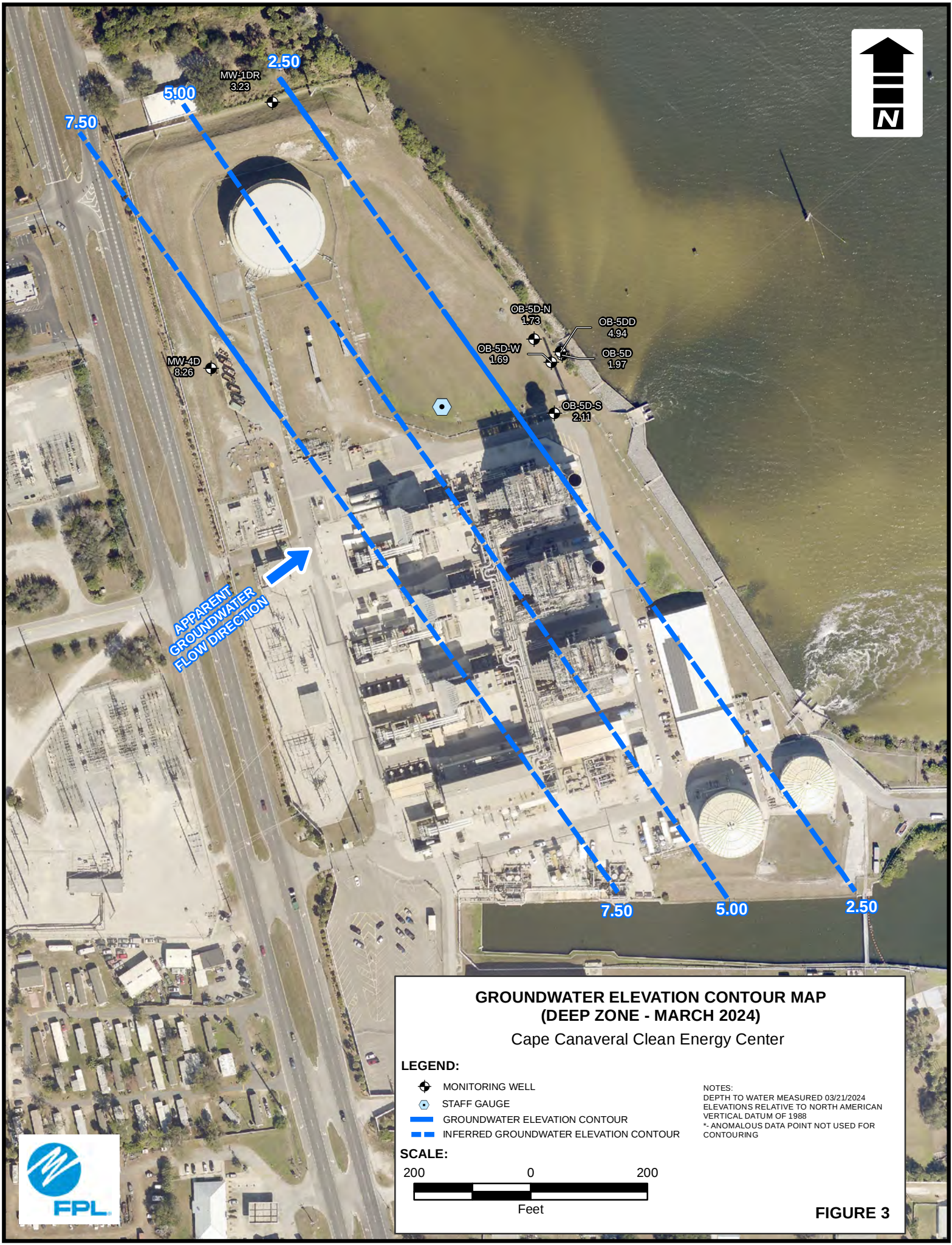


FIGURE 2





GROUNDWATER ELEVATION CONTOUR MAP (DEEP ZONE - MARCH 2024)

Cape Canaveral Clean Energy Center

LEGEND:

- MONITORING WELL
- STAFF GAUGE
- GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER ELEVATION CONTOUR

NOTES:
DEPTH TO WATER MEASURED 03/21/2024
ELEVATIONS RELATIVE TO NORTH AMERICAN
VERTICAL DATUM OF 1988
*- ANOMALOUS DATA POINT NOT USED FOR
CONTOURING

SCALE:

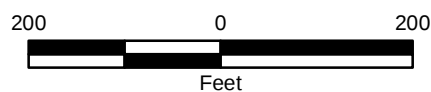


FIGURE 3



GROUNDWATER SAMPLING RESULTS - VANADIUM (MARCH 2024)

Cape Canaveral Clean Energy Center

LEGEND:

- MONITORING WELL
- STAFF GAUGE

NOTES:
Results in micrograms per liter (ug/L).
I- Analyte detected between the method detection limit (MDL)
and practical quantitation limit (PQL)
Samples collected on 03/21/2024
**Red and Bold text indicates concentration exceeds
Groundwater Cleanup Target Level (GCTL)**

SCALE:

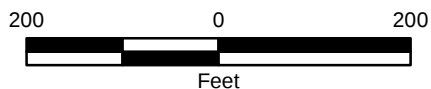


FIGURE 4

TABLES

Table 1
Well Construction Details / Groundwater Elevation Data
FPL Cape Canaveral Energy Center

Monitoring Well Identification	Pad Elevation (feet NAVD88)	Well Depth (feet bls)	Screened Interval (feet NAVD88)	Well Depth (feet NAVD88)	TOC Elevation (feet NAVD88)	3/22/2012		12/12/2012		3/12/2013		10/21/2013		4/16/2014		3/11/2015		10/20/2015	
						Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)
EPB-NW-R	10.71	16.0	4.45 to -5.55	-5.55	10.45	NP	NP	NP	NP	NP	NP	9.15	1.30	9.06	1.39	8.32	2.13	8.19	2.13
EPB-NER	10.76	18.5	1.88 to -8.12	-8.12	10.38	9.99	0.39	9.02	1.36	9.90	0.48	9.27	1.11	9.85	0.53	10.39	-0.01	10.00	-0.01
EPB-E	10.28	19.0	1.03 to -8.97	-8.97	10.03	10.23	-0.20	9.33	0.70	10.15	-0.12	9.38	0.65	10.01	0.02	10.47	-0.44	9.70	-0.44
OB-5DD	9.69	67.0	-52.61 to -57.61	-57.61	9.99	6.26	3.13	8.27	1.12	5.76	3.63	4.08	5.31	6.41	2.98	5.25	4.14	5.07	4.14
OB-5D	10.52	40.0	-24.68 to -29.68	-29.68	10.32	9.12	1.20	8.12	2.20	8.83	1.49	8.17	2.15	8.76	1.56	8.32	2.00	7.89	2.00
OB-5I	10.02	24.5	-9.72 to -14.72	-14.72	9.78	9.46	0.32	8.40	1.38	9.13	0.65	8.47	1.31	9.00	0.78	7.24	2.54	7.00	2.54
OB-3	10.17	16.0	3.91 to -6.09	-6.09	9.91	NM	NM	8.72	1.19	9.41	0.50	8.70	1.21	9.13	0.78	7.42	2.49	7.18	2.49
OB-5R	10.41	19.0	1.16 to -8.84	-8.84	10.16	8.64	1.52	8.62	1.54	9.49	0.67	8.68	1.48	9.11	1.05	7.03	3.13	7.29	3.13
EPB-SE	11.37	18.0	3.17 to -6.83	-6.83	11.17	8.58	2.59	9.64	1.53	10.23	0.94	9.63	1.54	10.03	1.14	9.05	2.12	8.70	2.12
TMW-1	7.76	20.5	-2.91 to -12.91	-12.91	7.59	10.38	-2.79	9.45	-1.86	10.18	-2.59	9.22	-1.63	9.43	-1.84	9.28	-1.69	6.97	-1.69
EPB-NNW	7.87	17.9	-0.52 to -10.52	-10.52	7.38	NP	NP	NP	NP	NP	NP	NP	NP	9.46	-2.08	8.85	-1.47	7.87	-1.47
OB-5D-N	10.52	40.0	-24.68 to -29.68	-29.68	10.32	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
OB-5D-S	12.32	40.0	-23.07 to -28.07	-28.07	11.93	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
OB-5D-W	10.73	40.0	-24.56 to -29.56	-29.56	10.44	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
MW-1DR	10.16	33.0	-18.04 to -23.04	-23.04	9.96	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
MW-2R	9.93	12.0	7.73 to -2.27	-2.27	9.73	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
MW-3	13.50	15.0	8.27 to -1.73	-1.73	13.27	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
MW-4D	13.53	40.0	-21.83 to -26.83	-26.83	13.17	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
MW-5	21.38	22.0	9.28 to -0.72	-0.72	21.28	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

Monitoring Well Identification	Pad Elevation (feet NAVD88)	Well Depth (feet bls)	Screened Interval (feet NAVD88)	Well Depth (feet NAVD88)	TOC Elevation (feet NAVD88)	3/9/2016		3/24/2016		10/14/2016		3/15/2017		3/8/2018		3/29/2019		3/19/2020	
						Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)
EPB-NW-R	10.71	16.0	4.45 to -5.55	-5.55	10.45	8.57	1.88	NG	NG	7.83	2.62	9.06	1.39	8.67	1.78	8.63	1.82	9.71	1.00
EPB-NER	10.76	18.5	1.88 to -8.12	-8.12	10.38	10.61	-0.23	NG	NG	9.35	1.03	10.83	-0.45	10.80	-0.42	10.75	-0.37	10.55	0.21
EPB-E	10.28	19.0	1.03 to -8.97	-8.97	10.03	10.4	-0.37	10.46	-0.43	9.08	0.95	10.66	-0.63	10.26	-0.23	9.96	0.07	10.40	-0.12
OB-5DD	9.69	67.0	-52.61 to -57.61	-57.61	9.99	5.75	3.64	NG	NG	4.48	4.91	6.18	3.21	5.63	3.76	5.21	4.18	5.11	4.58
OB-5D	10.52	40.0	-24.68 to -29.68	-29.68	10.32	8.3	2.02	NG	NG	7.79	2.53	8.84	1.48	8.38	1.94	8.11	2.21	8.55	1.97
OB-5I	10.02	24.5	-9.72 to -14.72	-14.72	9.78	7.51	2.27	NG	NG	6.18	3.60	8.13	1.65	7.87	1.91	7.56	2.22	7.88	2.14
OB-3	10.17	16.0	3.91 to -6.09	-6.09	9.91	8.12	1.79	NG	NG	6.21	3.70	8.28	1.63	7.91	2.00	7.65	2.26	8.05	2.12
OB-5R	10.41	19.0	1.16 to -8.84	-8.84	10.16	7.9	2.26	NG	NG	6.42	3.74	8.46	1.70	8.12	2.04	7.88	2.28	8.27	2.14
EPB-SE	11.37	18.0	3.17 to -6.83	-6.83	11.17	9.49	1.68	NG	NG	7.73	3.44	9.58	1.59	9.19	1.98	8.96	2.21	9.36	2.01
TMW-1	7.76	20.5	-2.91 to -12.91	-12.91	7.59	7.75	-0.16	NG	NG	5.63	1.96	8.95	-1.36	7.67	-0.08	7.62	-0.03	7.71	0.05
EPB-NNW	7.87	17.9	-0.52 to -10.52	-10.52	7.38	9.48	-2.1	NG	NG	8.18	-0.80	10.02	-2.64	9.44	-2.06	9.37	-1.99	9.71	-1.84
OB-5D-N	10.52	40.0	-24.68 to -29.68	-29.68	10.32	8.7	1.62	8.92	1.4	7.54	2.78	9.12	1.20	8.73	1.59	8.51	1.81	8.84	1.68
OB-5D-S	12.32	40.0	-23.07 to -28.07	-28.07	11.93	10.3	1.63	NG	NG	8.77	3.16	10.46	1.47	10.03	1.90	9.88	2.05	10.19	2.13
OB-5D-W	10.73	40.0	-24.56 to -29.56	-29.56	10.44	8.83	1.61	8.83	1.61	7.64	2.80	9.27	1.17	11.55	-1.11	9.25	1.19	8.99	1.74
MW-1DR	10.16	33.0	-18.04 to -23.04	-23.04	9.96	NP	NP	NG	NG	5.20	4.76	4.27	5.69	6.66	3.30	6.55	3.41	6.96	3.20
MW-2R	9.93	12.0	7.73 to -2.27	-2.27	9.73	NP	NP	NG	NG	5.01	4.72	4.19	5.54	6.60	3.13	6.47	3.26	6.97	2.96
MW-3	13.50	15.0	8.27 to -1.73	-1.73	13.27	NP	NP	NG	NG	5.22	8.05	4.91	8.36	4.42	8.85	5.11	8.16	5.41	8.09
MW-4D	13.53	40.0	-21.83 to -26.83	-26.83	13.17	NP	NP	NG	NG	5.28	7.89	5.90	7.27	4.87	8.30	5.26	7.91	5.42	8.11
MW-5	21.38	22.0	9.28 to -0.72	-0.72	21.28	NP	NP	NG	NG	12.58	8.70	12.90	8.38	12.25	9.03	13.23	8.05	12.86	8.52

Table 1
Well Construction Details / Groundwater Elevation Data
FPL Cape Canaveral Energy Center

Monitoring Well Identification	Pad Elevation (feet NAVD88)	Well Depth (feet bls)	Screened Interval (feet NAVD88)	Well Depth (feet NAVD88)	TOC Elevation (feet NAVD88)	3/17/2021		3/24/2022		3/27/2023		3/21/2024	
						Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)	Depth to Water (Feet bls)	Water Table Elevation (feet-NAVD88)
EPB-NW-R	10.71	16.0	4.45 to -5.55	-5.55	10.45	8.68	1.77	8.44	2.01	6.62	3.83	8.52	1.93
EPB-NER	10.76	18.5	1.88 to -8.12	-8.12	10.38	10.61	-0.23	NG	NG	10.36	0.02	10.61	-0.23
EPB-E	10.28	19.0	1.03 to -8.97	-8.97	10.03	10.48	-0.45	10.16	-0.13	9.92	0.11	10.48	-0.45
OB-5DD	9.69	67.0	-52.61 to -57.61	-57.61	9.39	4.40	4.99	4.46	4.93	5.71	3.68	4.45	4.94
OB-5D	10.52	40.0	-24.68 to -29.68	-29.68	10.32	8.55	1.77	8.24	2.08	8.31	2.01	8.35	1.97
OB-5I	10.02	24.5	-9.72 to -14.72	-14.72	9.78	6.70	3.08	7.37	2.41	7.56	2.22	7.35	2.43
OB-3	10.17	16.0	3.91 to -6.09	-6.09	9.91	7.81	2.10	7.49	2.42	7.58	2.33	7.46	2.45
OB-5R	10.41	19.0	1.16 to -8.84	-8.84	10.16	8.04	2.12	7.70	2.46	7.86	2.30	7.66	2.50
EPB-SE	11.37	18.0	3.17 to -6.83	-6.83	11.17	9.15	2.02	8.86	2.31	8.85	2.32	8.81	2.36
TMW-1	7.76	20.5	-2.91 to -12.91	-12.91	7.59	7.51	0.08	7.21	0.38	7.01	0.58	7.76	-0.17
EPB-NNW	7.87	17.9	-0.52 to -10.52	-10.52	7.38	9.63	-2.25	9.39	-2.01	10.91	-3.53	9.41	-2.03
OB-5D-N	10.52	40.0	-24.68 to -29.68	-29.68	10.32	8.81	1.51	8.55	1.77	8.58	1.74	8.59	1.73
OB-5D-S	12.32	40.0	-23.07 to -28.07	-28.07	11.93	10.09	1.84	9.80	2.13	9.84	2.09	9.82	2.11
OB-5D-W	10.73	40.0	-24.56 to -29.56	-29.56	10.44	8.98	1.46	8.68	1.76	8.68	1.76	8.75	1.69
MW-1DR	10.16	33.0	-18.04 to -23.04	-23.04	9.96	6.91	3.05	6.65	3.31	6.97	2.99	6.73	3.23
MW-2R	9.93	12.0	7.73 to -2.27	-2.27	9.73	6.85	2.88	6.47	3.26	6.91	2.82	6.56	3.17
MW-3	13.50	15.0	8.27 to -1.73	-1.73	13.27	5.37	7.90	5.10	8.17	5.57	7.70	3.86	9.41
MW-4D	13.53	40.0	-21.83 to -26.83	-26.83	13.17	5.83	7.34	5.11	8.06	5.61	7.56	4.91	8.26
MW-5	21.38	22.0	9.28 to -0.72	-0.72	21.28	12.86	8.42	12.66	8.62	13.10	8.18	12.31	8.97

Notes:

Groundwater elevations relative to North America Vertical Datum of 1988 (NAVD88)

Historical groundwater elevations revised for 10/14/2016 TOC elevation

Depth to Water measured in feet below ground surface (feet bls)

TOC = Top of Casing (feet - North America Vertical Datum of 1988)

NP = Not Present

NG-Not Gauged

Table 2 (Page 1 of 3)
Summary of Groundwater Analytical Data
FPL Cape Canaveral Energy Center

Parameter		Vanadium	TDS	Turbidity	pH
GCTL		49	500	29	6.5-8.5
Monitoring Well	Sample Date	ug/L	mg/L	NTU	SU
MW-1DR	14-Oct-16	1.8i	NS	3.85	6.80
	15-Mar-17	1.6i	NS	0.73	7.33
	8-Mar-18	0.86i	NS	1.42	6.94
	29-Mar-19	1.4	NS	8.97	6.98
	19-Mar-20	1.8i	NS	2.53	7.26
	17-Mar-21	1.2i	NS	1.99	6.91
	24-Mar-22	1.2 l	NS	0.50	7.06
	27-Mar-23	1.2 l	NS	4.72	7.19
MW-2R	21-Mar-24	3.7U	NS	3.38	7.12
	14-Oct-16	2.5	NS	9.70	6.83
	15-Mar-17	48.7	NS	3.46	6.41
	8-Mar-18	17.0	NS	2.51	6.37
	29-Mar-19	110.0	NS	10.40	6.49
	8-Apr-19	22*	NS	3.38	6.49
	8-Apr-19	24**	NS	3.38	6.49
	19-Mar-20	35.0	NS	2.59	6.85
	17-Mar-21	120.0	NS	2.59	6.76
	31-Mar-21	50**	NS	2.65	6.78
	31-Mar-21	47*	NS	2.65	6.78
	24-Mar-22	85	NS	3.62	6.70
	27-Mar-23	67*	NS	2.58	6.52
	27-Mar-23	59**	NS	2.58	6.52
MW-4D	21-Mar-24	23	NS	1.32	6.57
	14-Oct-16	3.0	NS	4.03	6.93
	15-Mar-17	3.2	NS	2.85	7.23
	8-Mar-18	2.9	NS	4.89	6.94
	29-Mar-19	3.1	NS	9.09	7.01
	19-Mar-20	2.8i	NS	3.05	7.04
	17-Mar-21	2.7i	NS	3.65	7.28
	24-Mar-22	2.4 l	NS	2.75	7.01
MW-5	27-Mar-23	3.5 l	NS	9.70	6.92
	21-Mar-24	3.7U	NS	7.30	6.85
	14-Oct-16	34.0	NS	3.48	6.90
	15-Mar-17	2.5	NS	3.71	7.04
	8-Mar-18	27.0	NS	1.01	6.92
	29-Mar-19	12.0	NS	3.90	6.93
	19-Mar-20	5.8	NS	3.56	6.41
	17-Mar-21	4.1i	NS	1.11	6.86
EPB-NW-R	24-Mar-22	6.2 l	NS	0.78	6.54
	27-Mar-23	2.6i	NS	1.51	6.53
	21-Mar-24	12.0	NS	0.91	25.3
	21-Oct-13	120	350	8.12	6.89
	16-Apr-14	150	270	5.71	7.14
	11-Mar-15	740	669	1.18	7.06
	20-Oct-15	390	950	4.30	7.41
	9-Mar-16	99	660	3.40	5.07
	15-Mar-17	116	458	1.60	7.46
	8-Mar-18	320	790	3.90	6.38
	29-Mar-19	150	416	9.60	6.48
	19-Mar-20	84	574	2.93	7.44
	17-Mar-21	110	432	2.60	7.52
	24-Mar-22	120	402	3.59	7.49
	27-Mar-23	88	470	2.42	7.49
	21-Mar-24	88	466	1.46	7.24

ug/L- micrograms per liter

NTU - Nephelometric Turbidity Unit

SU - Standard Unit

U - Analyte analyzed for but Not Detected at or above the MDL

mg/L- milligrams per liter

GCTL- Groundwater Cleanup Target Level, as provided by Chapter 62-777, FAC

NS- Sample not collected

l or i- Analyte detected between the Laboratory MDL and PQL

* Sample analyzed by FPL Central Laboratory

** Sample analyzed by Jupiter Environmental Laboratory

Table 2 (Page 2 of 3)					
Summary of Groundwater Analytical Data					
FPL Cape Canaveral Energy Center					
Parameter		Vanadium	TDS	Turbidity	pH
GCTL		49	500	29	6.5-8.5
Monitoring Well	Sample Date	ug/L	mg/L	NTU	SU
OB-5D-S	9-Mar-16	82	480	1.61	6.98
	15-Mar-17	35.6	362	4.28	7.03
	8-Mar-18	25	612	1.90	6.43
	29-Mar-19	50	810	9.94	6.50
	19-Mar-20	22	828	1.71	7.05
	17-Mar-21	18	858	1.21	7.39
	24-Mar-22	151	868	2.90	6.90
	27-Mar-23	26	1000	3.12	7.06
	21-Mar-24	13	1000	0.52	7.02
EPB-E	22-Mar-12	830	3000	17.4	7.31
	26-Sep-12	2300	1170	49.6	7.12
	12-Dec-12	1200	829	44	7.62
	12-Mar-13	1600	650	32	7.95
	21-Oct-13	220	860	6.13	7.16
	16-Apr-14	140	1020	1.91	7.70
	11-Mar-15	820	798	50.8	7.28
	20-Oct-15	770	800	58	7.51
	9-Mar-16	860	710	36.3	7.01
	24-Mar-16	1520	NS	24.3	7.08
	15-Mar-17	904	788	28.4	7.13
	8-Mar-18	1700	930	28.4	7.13
	29-Mar-19	1800	850	42.8	6.76
	19-Mar-20	1200	676	25.4	6.78
	17-Mar-21	1400	636	21.8	7.52
	24-Mar-22	710	602	30.7	7.33
	27-Mar-23	490	584	21.5	7.26
	21-Mar-24	320	482	14.3	7.38
OB-5D	22-Mar-12	28	540	1.51	7.29
	26-Sep-12	7.8i	1660	1.16	6.94
	12-Dec-12	6.1i	5160	2.62	6.90
	12-Mar-13	8.2	4440	2.7	6.95
	21-Oct-13	6.9	3400	1.61	6.55
	16-Apr-14	6.6	2340	4.38	7.79
	11-Mar-15	240	720	5.17	7.87
	20-Oct-15	270	710	2.02	7.84
	9-Mar-16	190	630	4	7.29
	15-Mar-17	169	252	1.67	7.35
	8-Mar-18	60	458	3.37	6.56
	29-Mar-19	110	442	8.98	6.57
	19-Mar-20	75	502	3.71	7.16
	17-Mar-21	100	468	1.95	7.46
	24-Mar-22	32	188	2.72	7.29
	27-Mar-23	140	400	4.03	7.39
	21-Mar-24	150	356	1.37	7.46
OB-5-DD	22-Mar-12	33	3900	20.1	7.03
	26-Sep-12	35	2200	15.7	7.35
	12-Dec-12	23	7240	15.4	7.64
	12-Mar-13	15	6720	2.00	7.03
	21-Oct-13	NS	6520	2.85	6.64
	16-Apr-14	NS	6960	13.5	8.26
	11-Mar-15	NS	1240	12.5	7.53
	20-Oct-15	8.6	7840	3.51	6.02
	9-Mar-16	NS	4400	5.16	7.25
	15-Mar-17	NS	7370	1.10	7.13
	8-Mar-18	NS	8060	1.08	6.40
	29-Mar-19	NS	8040	9.58	6.45
	19-Mar-20	NS	7930	2.21	7.28
	17-Mar-21	NS	7300	2.82	6.98
	24-Mar-22	NS	7480	2.67	7.50
	27-Mar-23	NS	6980	6.25	7.15
	21-Mar-24	NS	7320	1.55	7.11
Notes: ug/L - micrograms per liter NTU - Nephelometric Turbidity Unit SU - Standard Unit U - Analyte analyzed for but Not Detected at or above the MDL mg/L - milligrams per liter GCTL - Groundwater Cleanup Target Level, as provided by Chapter 62-777, FAC NS - Sample not collected I or i - Analyte detected between the Laboratory MDL and PQL * Sample analyzed by FPL Central Laboratory ** Sample analyzed by Jupiter Environmental Laboratory					

Table 2 (Page 3 of 3)

Summary of Groundwater Analytical Data
FPL Cape Canaveral Energy Center

Parameter		Vanadium	TDS	Turbidity	pH
GCTL		49	500	29	6.5-8.5
Monitoring Well	Sample Date	ug/L	mg/L	NTU	SU
OB-5I	22-Mar-12	360	6600	2.89	7.66
	26-Sep-12	2700	2450	4.35	8.30
	12-Dec-12	960	2540	7.56	8.58
	12-Mar-13	700	2020	3.8	8.03
	21-Oct-13	940	1290	7.65	7.79
	16-Apr-14	920	1110	12.3	9.14
	11-Mar-15	390	310	13.5	7.24
	20-Oct-15	230	280	15.1	7.53
	9-Mar-16	170	220	11.6	6.62
	15-Mar-17	207	126	2.51	6.77
	8-Mar-18	240	NS	15.80	6.49
	29-Mar-19	600	NS	17.90	6.62
	19-Mar-20	160	NS	4.73	7.19
	17-Mar-21	210	NS	2.05	7.32
	24-Mar-22	240	NS	9.88	7.44
	27-Mar-23	220	NS	5.09	7.27
	21-Mar-24	200	NS	1.59	7.29
OB-5/OB-5R	23-Feb-11	NS	4200		
	9-Mar-11	NS	7400		
	22-Mar-12	320	4100	0.42	7.04
	26-Sep-12	990	505	2.04	6.99
	12-Dec-12	590	374	2.04	7.39
	12-Mar-13	4200	790	7.40	7.04
	21-Oct-13	740	640	3.47	6.60
	16-Apr-14	1600	420	3.46	7.46
	11-Mar-15	200	290	505	7.47
	20-Oct-15	90	370	2.26	7.03
	9-Mar-16	120	370	4.00	6.56
	15-Mar-17	847	390	2.40	6.92
	8-Mar-18	88	NS	5.30	6.39
	29-Mar-19	470	NS	12.7	6.57
	19-Mar-20	320	NS	13.5	6.87
	17-Mar-21	96	NS	1.45	6.77
	24-Mar-22	52	NS	2.59	6.83
	27-Mar-23	69	NS	5.91	7.62
	21-Mar-24	40	NS	4.46	6.83
EPB-SE	23-Feb-11	NS	1900		
	9-Mar-11	NS	1800		
	22-Mar-12	64	2300	3.99	6.88
	12-Dec-12	51	1260	1.27	6.99
	12-Mar-13	30	2000	16	6.13
	21-Oct-13	52	1280	5.22	6
	16-Apr-14	42	1160	6.44	7.6
	11-Mar-15	270	450	7.24	4.77
	20-Oct-15	1400	460	4.03	7.41
	9-Mar-16	530	380	1.39	6.44
	15-Mar-17	71.2	384	1.44	6.61
	8-Mar-18	470	640	6.37	6.44
	29-Mar-19	2800	586	9.98	6.68
	19-Mar-20	150	486	1.43	6.99
	17-Mar-21	470	498	1.52	7.11
	24-Mar-22	170	468	1.71	6.84
	27-Mar-23	300	450	3.93	6.92
	21-Mar-24	1100	540	0.68	6.90

Notes:

ug/L- micrograms per liter

NTU - Nephelometric Turbidity Unit

SU - Standard Unit

U - Analyte analyzed for but Not Detected at or above the MDL

mg/L- milligrams per liter

GCTL- Groundwater Cleanup Target Level, as provided by Chapter 62-777, FAC

NS- Sample not collected

I or i- Analyte detected between the Laboratory MDL and PQL

* Sample analyzed by FPL Central Laboratory

** Sample analyzed by Jupiter Environmental Laboratory

Attachment A

Regulatory Correspondence



Florida Department of Environmental Protection

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

July 07, 2017

BY ELECTRONIC MAIL

Wilfredo.Rosario@fpl.com

Mr. Wilfredo Rosario
Environmental License and Permitting
Florida Power & Light Company
700 Universe Boulevard
Juno Beach Florida 33408

Brevard County – Waste Cleanup
Florida Power & Light Company, Cape Canaveral Energy Center
6000 North US Highway 1
Cocoa Beach, Florida, 32927
WCU Site: COM_318469

Review of 2017 Annual Groundwater Monitoring Report

Dear Mr. Rosario:

The Department has reviewed the May 15, 2017 “2017 Annual groundwater Monitoring Report, which was received on May 15, 2017 for the Florida Power & Light (FPL) Cape Canaveral Energy Center, 6000 North US Highway 1, Cocoa Beach, Brevard County, Florida. On page 2 of the report it is recommended that monitoring wells MW-3, EPB-NE-R, OB-5D-N, OB-5D-W, EPB-NNW, and OB-3 be eliminated from the annual sampling. It is also proposed that sampling and analysis for Total Dissolved Solids (TDS) in monitoring wells OB-5I, OB-5R, EPB-SE, and TMW-1 be discontinued. The Department concurs with these recommendations. However, please do not abandon these wells as they may need to be sampled in the future before a Site Rehabilitation Completion Order can be issued to close the case.

Please submit the Annual Groundwater Monitoring Report on or before May 16, 2018 in electronic format to DEP_CD@dep.state.fl.us, with a copy to Roger.Sussko@dep.state.fl.us. If the file is very large, you may post it to the Waste Cleanup folder on the Central District’s ftp site at: ftp://ftp.dep.state.fl.us/pub/incoming/Central_District/Waste_Cleanup. After posting the document, send an e-mail to DEP_CD@dep.state.fl.us, with a copy to Roger.Sussko@dep.state.fl.us alerting us that it has been posted.

Mr. Wilfredo Rosario
July 07, 2017

Florida Power & Light Company
COM_318469
Page 2 of 2

If you have any questions concerning this correspondence please contact me by telephone at (407) 897-4176 or by e-mail at Roger.Sussko@dep.state.fl.us.

Sincerely,



Roger Sussko
Environmental Specialist III
Permitting and Waste Cleanup Program

RS/nh/rs

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