TIERRA CONSULTING GROUP
ENVIRONMENTAL ENGINEERING & CONSULTING
5809 N ANDREWS WAY, FORT LAUDERDALE, FL 33309
O: (954) 202 9226 E: ADMIN@TIERRACONSULTING.COM
WWW.TIERRACONSULTING.COM

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DSRM

December 11, 2018

Mr. Wilbur Mayorga, P.E., Chief
Miami-Dade County Department of Regulatory & Economic Resources
701 NW 1st Court, 4th Floor
Miami, Florida 33136

RECEIVED
DEC 13 2018
DERM ENVIRONMENTAL MONITORING & RESTORATION DIVISION

RE: Year 3 Event 1 Interim Groundwater Monitoring Only Report
Florida Power & Light Company
Former Cutler Power Plant Property, Miami, Florida
HWR-442/File-16360/IW-79

Dear Mr. Mayorga,

Florida Power & Light Company (FPL) is pleased to present the Year 3 Event 1 Semi-Annual Groundwater Monitoring Report for the Former Cutler Power Plant Property. The objective of the work is to monitor groundwater quality during the interim period prior to implementation of proposed engineering and institutional controls. A copy of the Miami-Dade County Department of Regulatory and Economic Resources (RER) review correspondence dated October 10, 2018 for the semi-annual *Year 2 Event 2 Interim Groundwater Monitoring Only Report* is included as **Appendix A**.

Prior to conducting the groundwater sampling, depth to water was measured in the monitoring wells. Monitoring well construction details are provided in **Table 1** and the well locations are depicted on **Figure 1**.

Depth to water measurements were compared with top-of-casing (TOC) elevations to determine the groundwater elevation at each well. A summary of groundwater elevation data is provided in **Table 2** and depicted on **Figure 2**.

On November 28, 2018, groundwater samples were collected from monitoring wells MW-A2R, MW-B5R, MW-B8, MW-B11, MW-C6, MW-D1R, MW-D5R, MW-D6R, MW-E2, MW-E7, MW-E7DD, MW-11, MW-G2, and MW-G8. The sampling was conducted 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 Spectrum Environmental Services, Inc. [Florida DOH certification number E86006]. The collected samples were analyzed for antimony, arsenic, nickel, vanadium, and polycyclic aromatic hydrocarbons (PAHs). The laboratory analytical reports, chain of custody documents, groundwater sampling and calibration logs are all provided in **Appendix B**.

A cumulative summary of the groundwater analytical results is provided in **Tables 3** and **4** and the detected concentrations of target analytes are presented on **Figures 3** and **4,** respectively. The analytical results were generally consistent with previous sampling events. The results show that

concentrations of target analytes generally met their respective Groundwater Cleanup Target Levels (GCTLs) listed in Chapter 62-777, Florida Administrative Code (F.A.C.) at the property boundaries. The next sampling event will be scheduled for June 2019 with results provided by July 30, 2019.

Please contact me at 954-202-9226 with any questions or if you require additional information.

Professional Certification

The geological services addressed herein, as defined in Chapter 492, Florida Statutes and in accordance with applicable provisions of Chapter 62-701 of the Florida Administrative Code, have been performed by and under the responsible charge of the professional geologist named below. These geological services are based upon the named professional's knowledge, information and belief, and in accordance with commonly accepted procedures consistent with applicable standards of practice. This certification is not a guaranty or warranty, either expressed or implied.

Sincerely,

Scott Zednek

Scott C. Zednek, P.G.
Florida License No. 0002086

SCOTT C. ZEDNEK
LICENSE
PG000 2086
12/1/18
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST

TABLES

Table 1
Well Construction Details
Florida Power & Light Company
Former Cutler Power Plant Property
HWR-442/File-16360/IW-79
Miami, Florida

Well ID	Permit Number	Installation Date	Installation Method	TOC Elevation (Feet)	Diameter (inches)	Total Depth (Feet)	Screened Interval (Feet bls)
MW-A2R	13-59-13304	12/13/2016	HSA	15.91	2	18	8 - 18
MW-B5R	13-59-13237	12/9/2016	HSA	6.87	2	13	3 - 13
MW-B8	13-59-8847	4/19/2013	HSA	3.56	2	11	1 - 11
MW-B11	13-59-8841	4/19/2013	HSA	3.15	2	11	1 - 11
MW-C6	13-59-8925	5/25/2013	HSA	4.97	2	12.1	2.1 - 12.1
MW-D1R	13-59-13237	12/9/2016	HSA	17.03	2	20	10 - 20
MW-D5R	13-59-13237	12/9/2016	HSA	8.20	2	12	2 - 12
MW-D6R	13-59-13237	12/9/2016	HSA	6.72	2	12	2 - 12
MW-E2	13-59-12467	1/15/2016	HSA	15.05	2	18	8 - 18
MW-E7	13-59-8927	5/25/2013	HSA	7.31	2	11.7	1.7 - 11.7
MW-E7DD	13-59-9023	5/28/2013	HSA	6.57	2	69.6	64.6 - 69.6
MW-E11	13-59-8843	4/19/2013	HSA	2.59	2	10.8	0.8 - 10.8
MW-G2	13-59-8840	4/19/2013	HSA	11.41	2	17.9	7.9 - 17.9
MW-G8	13-59-8842	4/19/2013	HSA	5.97	2	10.8	0.8 - 10.8

Notes:
bls- below land surface
TOC- Top of Casing Elevation (feet-relative NGVD29)
NGVD29- National Geodetic Vertical Datum of 1929
HSA- Hollow Stem Auger

Table 2
Groundwater Elevations
Florida Power & Light Company
Former Cutler Power Plant Property
HWR-442/File-16360/IW-79
Miami, Florida

Well ID	Screened Interval	TOC Elevation	12/20/2016		8/9/2017		1/24/2018		6/14/2018		11/28/18	
			Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation
	(Feet bls)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
MW-A2R	8 - 18	15.91	14.53	1.38	13.99	1.92	14.46	1.45	14.91	1.00	14.19	1.72
MW-B5R	3 - 13	6.87	5.80	1.07	5.42	1.45	5.90	0.97	5.21	1.66	5.25	1.62
MW-B8	1 - 11	3.56	2.47	1.09	2.13	1.43	2.57	0.99	2.00	1.56	2.08	1.48
MW-B11	1 - 11	3.15	2.03	1.12	1.67	1.48	2.04	1.11	1.81	1.34	1.01	2.14
MW-C6	2.1 - 12.1	4.97	4.14	0.83	3.12	1.85	3.50	1.47	3.25	1.72	3.37	1.60
MW-D1R	10 - 20	17.03	15.71	1.32	15.99	1.04	15.54	1.49	15.23	1.80	14.86	2.17
MW-D5R	2 - 12	8.20	7.04	1.16	6.26	1.94	6.71	1.49	na	na	6.56	1.64
MW-D6R	2 - 12	6.72	5.70	1.02	4.84	1.88	5.40	1.32	5.05	1.67	5.19	1.53
MW-E2	8 - 18	15.05	13.65	1.40	13.01	2.04	13.53	1.52	13.25	1.80	13.13	1.92
MW-E7	1.7 - 11.7	7.31	4.87	2.44	5.20	2.11	6.04	1.27	5.31	2.00	5.66	1.65
MW-E7DD	64.6 - 69.6	6.57	4.90	1.67	3.74	2.83	4.24	2.33	4.24	2.33	5.04	1.53
MW-E11	0.8 - 10.8	2.59	1.37	1.22	1.03	1.56	1.61	0.98	0.75	1.84	0.86	1.73
MW-G2	7.9 - 17.9	11.41	9.84	1.57	9.42	1.99	10.02	1.39	9.65	1.76	9.45	1.96
MW-G8	0.8 - 10.8	5.97	5.61	0.36	3.88	2.09	5.82	0.15	na	na	4.41	1.56

Notes:
bls- below land surface
TOC- Top of Casing Elevation (feet-relative to NGVD29)
NGVD29- National Geodetic Vertical Datum of 1929
na- Well not accessible due to temporary obstruction by Hurricane Irma response equipment

Table 3
Summary of Metals Analytical Results
Florida Power & Light Company
Former Cutler Power Plant Property, Miami, Florida
HWR-442/File-16360/IW-79

Monitoring Well	Analyte	Antimony	Arsenic	Nickel	Vanadium
	GCTL	**6**	**10**	**100**	**49**
	NADC	**60**	**100**	**1000**	**490**
	Units/Sample Date	**ug/L**	**ug/L**	**ug/L**	**ug/L**
MW-A2R	4/23/2013	0.95 U	1.6i	0.59i	5.1i
	1/21/2014	0.95 U	1.1i	0.77i	4.6
	12/20/2016	0.95 U	0.65 U	0.25i	1.2i
	8/9/2017	NA	0.65 U	NA	1.1i
	1/24/2018	0.95 U	0.65 U	0.94i	1.1i
	6/14/2018	NA	1.49 U	NA	0.791
	11/28/2018	2.8i	2.7i	0.66 U	2.5
MW-B11	4/24/2013	0.95 U	0.70i	1.2i	1.6i
	1/22/2014	0.95 U	0.65 U	1.2i	1.7i
	12/20/2016	0.95 U	4.1	1.8i	4.3
	8/9/2017	NA	1.8i	NA	5.6
	1/24/2018	0.95 U	1.5i	0.86i	4.0
	6/14/2018	NA	1.49 U	NA	5.23
	11/28/2018	1.94 U	2.6i	0.66 U	2.8
MW-B5/MW-B5R	4/23/2013	0.95 U	2.5i	1.5i	4.9i
	1/21/2014	0.95 U	1.8i	2.1	6.4
	12/20/2016	0.95 U	1.6i	2.1	48
	8/9/2017	NA	0.65 U	NA	30
	1/24/2018	0.95 U	0.67i	1.5i	**58**
	6/14/2018	NA	1.49 U	NA	44
	11/28/2018	1.94 U	1.49 U	1.6i	32.9
MW-B8	4/23/2013	0.95 U	0.90i	1.9i	1.3i
	1/22/2014	0.95 U	1.2i	2	2.2
	12/20/2016	0.95 U	0.65 U	0.77i	2.9
	8/9/2017	NA	0.84i	NA	3.6
	1/24/2018	0.95 U	1.4i	0.87i	5.2
	6/14/2018	NA	1.49 U	NA	5.53
	11/28/2018	1.94 U	2.4i	0.66 U	4.0
MW-C6	5/14/2013	NA	NA	NA	**760**
	6/5/2013	NA	NA	NA	**620**
	12/20/2016	0.95U	2.1	24	**450**
	8/9/2017	NA	2.5	NA	**580**
	1/24/2018	0.95 U	2.6	30	**64**
	6/14/2018	NA	1.49 U	NA	**643**
	11/28/2018	1.94 U	4.4i	21.7	**533**
MW-1D/MW-D1R	4/24/2013	0.95 U	2.3i	1.6i	9.6
	1/21/2014	0.95 U	**12**	1.5i	28
	1/30/2014	NA	8.6	NA	NA
	12/20/2016	0.95 U	0.65 U	1.0i	9.9
	8/9/2017	NA	0.65 U	NA	9.5
	1/24/2018	0.95 U	0.65 U	0.47i	9.8
	6/14/2018	NA	1.49 U	NA	4.55
	11/28/2018	1.94 U	1.49 U	0.66 U	3.4
MW-D5/MW-D5R	6/5/2013	NA	NA	NA	2.2
	1/22/2014	0.95 U	**110**	1.4i	3.4
	12/20/2016	0.95 U	**240**	2.2	0.28i
	8/9/2017	NA	**130**	NA	7.0
	1/24/2018	1.1i	**340**	3.8	3.2
	6/14/2018	NA	NA	NA	NA
	11/28/2018	2.7i	**139**	1.7i	17.6

Table 3 (Continued)
Summary of Metals Analytical Results
Florida Power & Light Company
Former Cutler Power Plant Property, Miami, Florida
HWR-442/File-16360/IW-79

Monitoring Well	Analyte	Antimony	Arsenic	Nickel	Vanadium
	GCTL	**6**	**10**	**100**	**49**
	NADC	**60**	**100**	**1000**	**490**
	Units/Sample Date	**ug/L**	**ug/L**	**ug/L**	**ug/L**
MW-D6R	5/14/2013	NA	NA	NA	**310**
	6/5/2013	NA	NA	NA	**<u>1200</u>**
	1/22/2014	0.95 U	2.8	9.4	**300**
	12/20/2016	3.1	5	7.9	**<u>850 L</u>**
	8/9/2017	NA	2.7	NA	**280**
	1/24/2018	0.95 U	3.6	7.6	**230**
	6/14/2018	NA	3.24i	NA	**218**
	11/28/2018	1.94 U	3.5i	5.8	**191**
MW-E11	4/24/2013	1.2i	0.87i	2.2i	0.78i
	1/22/2014	2.4	1.5i	0.86i	7.2
	12/20/2016	0.95 U	2.8	4.1	21
	8/9/2017	NA	2.1	NA	14
	1/24/2018	0.95 U	2.3	1.5i	13
	6/14/2018	NA	3.6i	NA	22.5
	11/28/2018	1.94 U	3.0i	1.9i	9.5
MW-E2	1/19/2016	NA	NA	NA	**103**
	12/20/2016	3.3	4.8	2	**120**
	8/9/2017	NA	6.8	NA	**160**
	1/24/2018	1.0i	**11**	0.70i	**170**
	6/14/2018	NA	**10.3**	NA	**159**
	11/28/2018	1.94 U	**15.3**	0.66 U	**177**
MW-E7	5/14/2013	NA	NA	NA	40
	1/23/2014	0.95	3.3	34	34
	12/20/2016	0.95 U	2.7	38	**50**
	8/9/2017	NA	4.9	NA	9.0
	1/24/2018	0.95 U	**12**	28	2.9
	6/14/2018	NA	3.4i	NA	**64**
	11/28/2018	1.94 U	**17.5**	42.2	5.6
MW-E7DD	6/5/2013	NA	NA	NA	3.6
	1/22/2014	2.6	1.5i	0.95i	1.6i
	12/20/2016	0.95 U	1.0i	0.80i	2.8
	8/9/2017	NA	0.65 U	NA	1.7i
	1/24/2018	0.95 U	0.78i	0.24 U	0.89i
	6/14/2018	NA	1.49 U	NA	0.26 U
	11/28/2018	1.94 U	2.0i	0.66 U	1.3i
MW-G2	4/24/2013	0.95 U	1.9i	1.9i	1.6i
	1/21/2014	0.95 U	0.96i	2	1.2i
	12/20/2016	0.95 U	0.65 U	2.9	2.4
	8/9/2017	NA	0.65 U	NA	2.8
	1/24/2018	0.95 U	0.65 U	0.65i	3.2
	6/14/2018	NA	1.49 U	NA	2.39
	11/28/2018	2.1i	1.49 U	0.66 U	1.9i
MW-G8	4/24/2013	0.95 U	0.65 U	1.3i	0.81i
	1/21/2014	0.95 U	0.65 U	0.88i	0.91i
	12/20/2016	0.95 U	0.65 U	2.2	1.3i
	8/9/2017	NA	0.65 U	NA	2.0
	1/24/2018	0.95 U	0.65 U	0.24 U	1.7i
	6/14/2018	NA	NA	NA	NA
	11/28/2018	1.94 U	1.49 U	0.66 U	0.6i

Notes:
GCTL-Groundwater Cleanup Target Levels as provided by Chapter 62-777 FAC
NADC-Natural Attenuation Default Source as provided by Chapter 62-777 FAC
ug/L-micrograms per liter
U-indicates that the compound was analyzed for but not detected above the MDL
i-indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit
L-Reported value is above the calibration range
Bold text indicates concentration exceeds GCTL
Bold and underlined text indicates concentration exceeds NADC
NA- Not Analyzed

Table 4
Summary of Polycyclic Aromatic Hydrocarbon and Total Recoverable Hydrocarbon Analytical Results
Florida Power & Light Company
Former Cutler Power Plant Property, Miami, Florida
HWR-442/File-16360/IW-79

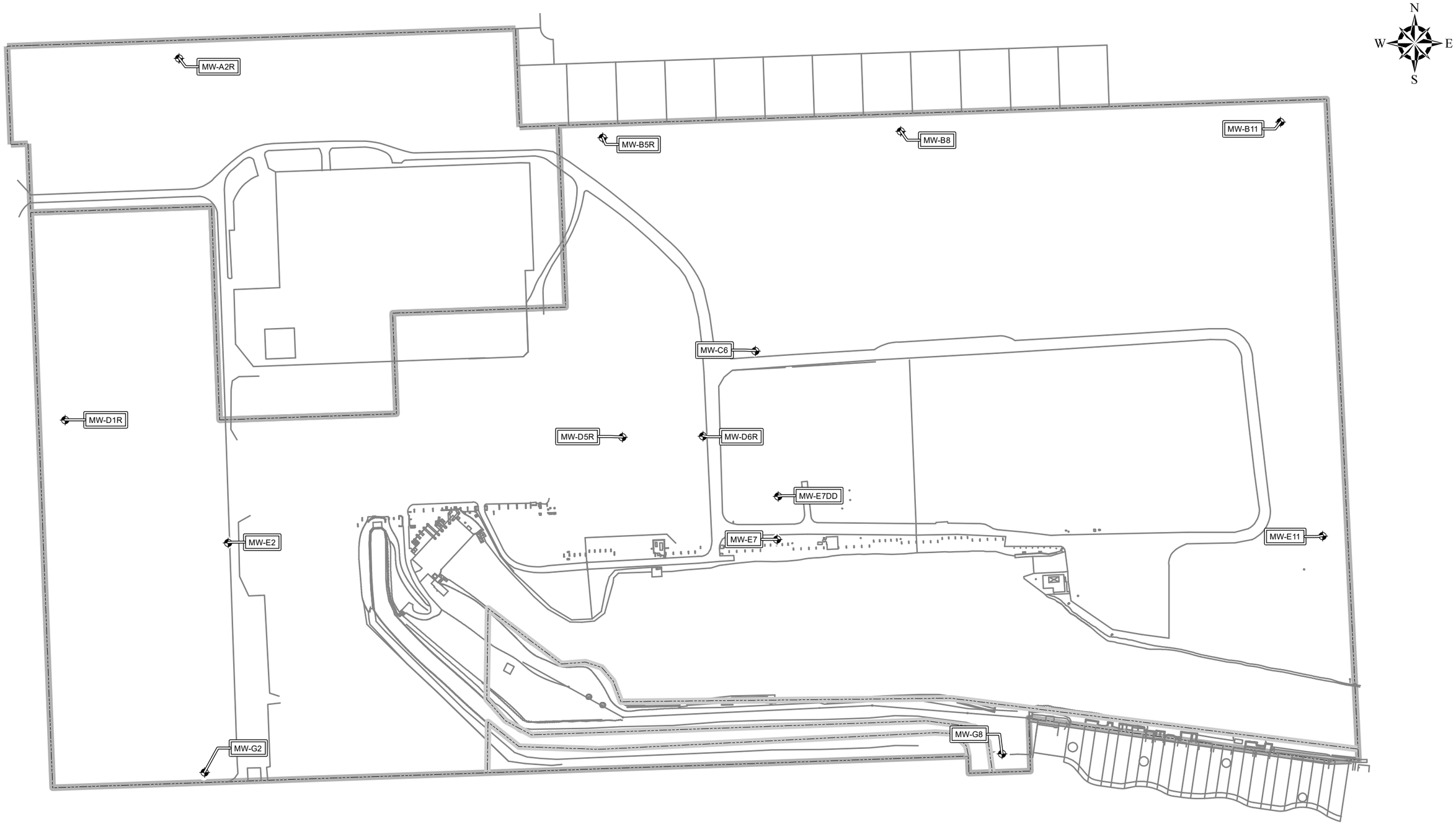
Monitoring Well	Analyte	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	TRPH
	GCTL	**28**	**28**	**20**	**210**	**2100**	**0.05**	**0.2**	**0.05**	**210**	**0.5**	**4.8**	**0.005**	**280**	**280**	**0.05**	**14**	**210**	**210**	**5000**
	NADC	**280**	**280**	**200**	**2100**	**21000**	**5**	**20**	**5**	**2100**	**50**	**480**	**0.5**	**2800**	**2800**	**5**	**140**	**2100**	**2100**	**50000**
	Units/Sample Date	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
MW-A2R	4/23/2013	0.050 U	0.050 U	0.025 U	0.025 U	0.025 U	0.025 U	0.015 U	0.015 U	0.015 U	0.015 U	0.025 U	0.00510 U	0.025 U	0.025 U	0.015 U	0.050 U	0.025 U	0.025 U	225
	1/21/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46 U
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-B11	4/24/2013	0.050 U	0.050 U	0.025 U	0.025 U	0.025 U	0.025 U	0.015 U	0.015 U	0.015 U	0.015 U	0.025 U	0.00510 U	0.025 U	0.025 U	0.015 U	0.050 U	0.025 U	0.025 U	256
	1/22/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46 U
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.015i	0.016i	0.023 U	**0.025i**	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-B5/MW-B5R	4/23/2013	0.050 U	0.050 U	0.025 U	0.025 U	0.025 U	0.025 U	0.015 U	0.015 U	0.015 U	0.015 U	0.025 U	0.00510 U	0.025 U	0.025 U	0.015 U	0.050 U	0.025 U	0.025 U	254
	1/21/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46 U
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-B8	4/23/2013	0.050 U	0.050 U	0.025 U	0.025 U	0.025 U	0.025 U	0.015 U	0.015 U	0.015 U	0.015 U	0.025 U	0.00510 U	0.025 U	0.025 U	0.015 U	0.050 U	0.025 U	0.025 U	97
	1/22/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46 U
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-C6	1/22/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46 U
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.065i	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	**0.0091i**	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-1D/MW-D1R	4/24/2013	0.050 U	0.050 U	0.025 U	0.025 U	0.025 U	0.025 U	0.015 U	0.015 U	0.015 U	0.015 U	0.025 U	0.00510 U	0.025 U	0.025 U	0.015 U	0.050 U	0.025 U	0.025 U	46 U
	1/21/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46 U
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-D5/MW-D5R	1/22/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73i
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	**0.013i**	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-D6/MW-D6R	1/22/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	121
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA

Table 4 (Continued)
Summary of Polycyclic Aromatic Hydrocarbon and Total Recoverable Hydrocarbon Analytical Results
Florida Power & Light Company
Former Cutler Power Plant Property, Miami, Florida
HWR-442/File-16360/IW-79

Monitoring Well	Analyte	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	TRPH
	GCTL	**28**	**28**	**20**	**210**	**2100**	**0.05**	**0.2**	**0.05**	**210**	**0.5**	**4.8**	**0.005**	**280**	**280**	**0.05**	**14**	**210**	**210**	**5000**
	NADC	**280**	**280**	**200**	**2100**	**21000**	**5**	**20**	**5**	**2100**	**50**	**480**	**0.5**	**2800**	**2800**	**5**	**140**	**2100**	**2100**	**50000**
	Units/Sample Date	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
MW-E11	4/24/2013	0.050 U	0.050 U	0.025 U	0.025 U	0.025 U	0.025 U	0.015 U	0.015 U	0.015 U	0.015 U	0.025 U	0.00510 U	0.025 U	0.025 U	0.015 U	0.050 U	0.025 U	0.025 U	66i
	1/22/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46 U
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-E2	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-E7	1/23/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46 U
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-E7DD	1/22/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	109
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-G2	4/24/2013	0.050 U	0.050 U	0.025 U	0.025 U	0.025 U	0.025 U	0.015 U	0.015 U	0.015 U	0.015 U	0.025 U	0.00510 U	0.025 U	0.025 U	0.015 U	0.050 U	0.025 U	0.025 U	66i
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	**0.0054i**	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.009 U	0.008 U	0.011 U	NA
MW-G8	4/24/2013	0.050 U	0.050 U	0.025 U	0.025 U	0.025 U	0.025 U	0.015 U	0.015 U	0.015 U	0.015 U	0.025 U	0.00510 U	0.025 U	0.025 U	0.015 U	0.050 U	0.025 U	0.025 U	46 U
	1/21/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	237
	12/20/2016	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.047 U	0.023 U	0.023 U	NA
	8/10/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2018	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.023 U	0.014 U	0.014 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.023 U	0.023 U	0.014 U	0.061i	0.023 U	0.023 U	NA
	6/14/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/2018	0.015 U	0.009 U	0.012 U	0.006 U	0.010 U	0.013 U	0.009 U	0.007 U	0.007 U	0.009 U	0.007 U	0.007 U	0.010 U	0.015 U	0.004 U	0.0400	0.008 U	0.011 U	NA

Notes:
GCTL- Groundwater Cleanup Target Levels as provided by Chapter 62-777 FAC
NADC-Natural Attenuation Default Source as provided by Chapter 62-777 FAC
ug/L- micrograms per liter
U- indicates that the compound was analyzed for but not detected above the MDL
i- indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit.
NA- Not Analyzed
TRPH- total recoverable petroleum hydrocarbons

FIGURES

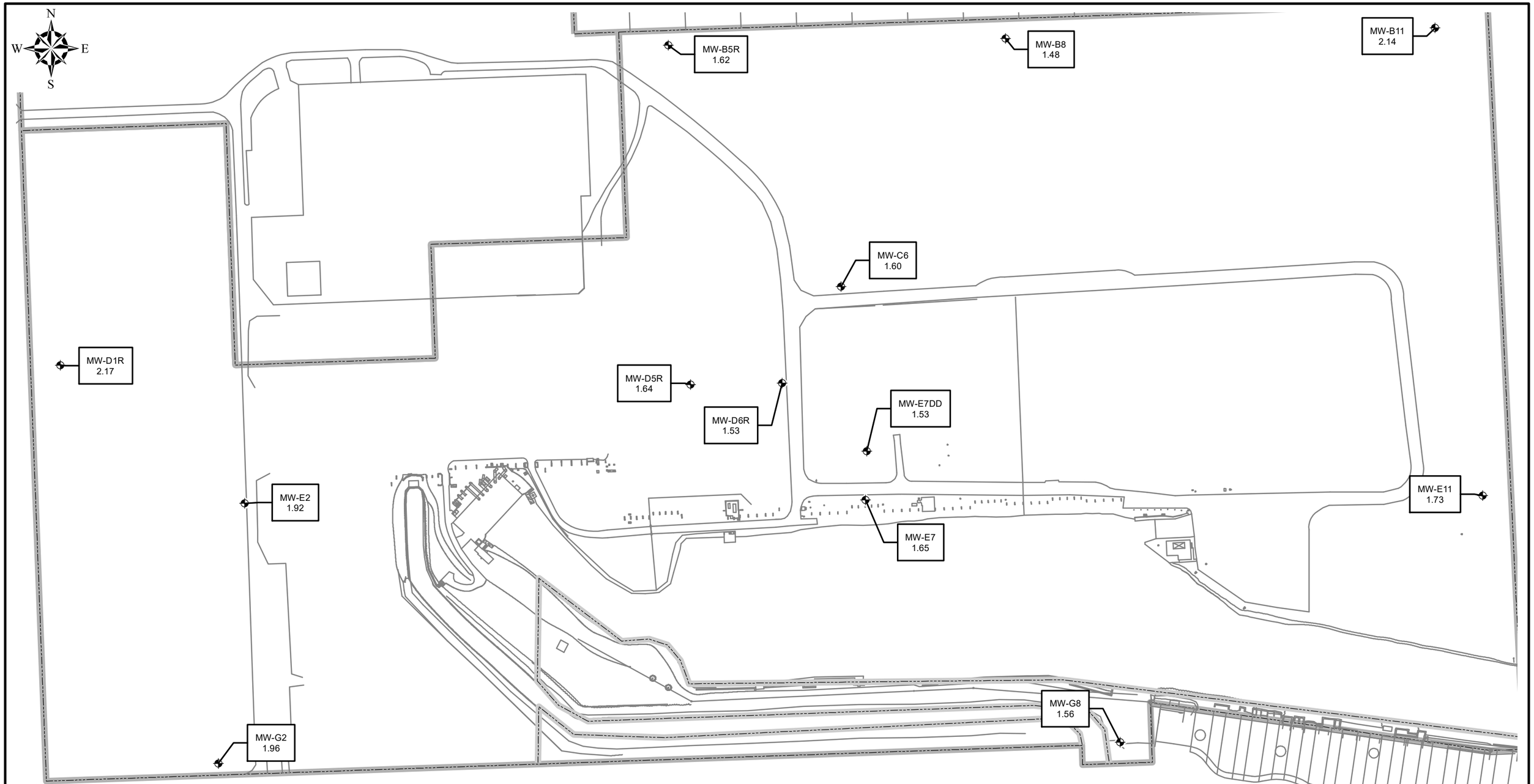


LEGEND:

MONITORING WELL

TCG TIERRA CONSULTING GROUP INTEGRITY, EXCELLENCE, COMMITMENT	PROJECT: FORMER CUTLER POWER PLANT PROPERTY HWR-442/FILE-16360/IW-79 MIAMI, FLORIDA	CLIENT: FLORIDA POWER & LIGHT COMPANY	
	FIGURE 1 : SITE PLAN	200 100 0 200 Feet	DATE: 12/7/2018	DRAWN BY: ER

O: (954) 202 9226 ‖ E: ADMIN@TIERRACONSULTING.COM ‖ WWW.TIERRACONSULTING.COM



LEGEND:

MONITORING WELL

MW-G2 1.57 — Monitoring Well; Top of Casing Elevation (feet-relative NGVD29)

TCG TIERRA CONSULTING GROUP
INTEGRITY, EXCELLENCE, COMMITMENT

PROJECT: FORMER CUTLER POWER PLANT PROPERTY
HWR-442/FILE-16360/IW-79
MIAMI, FLORIDA

CLIENT: FLORIDA POWER & LIGHT COMPANY

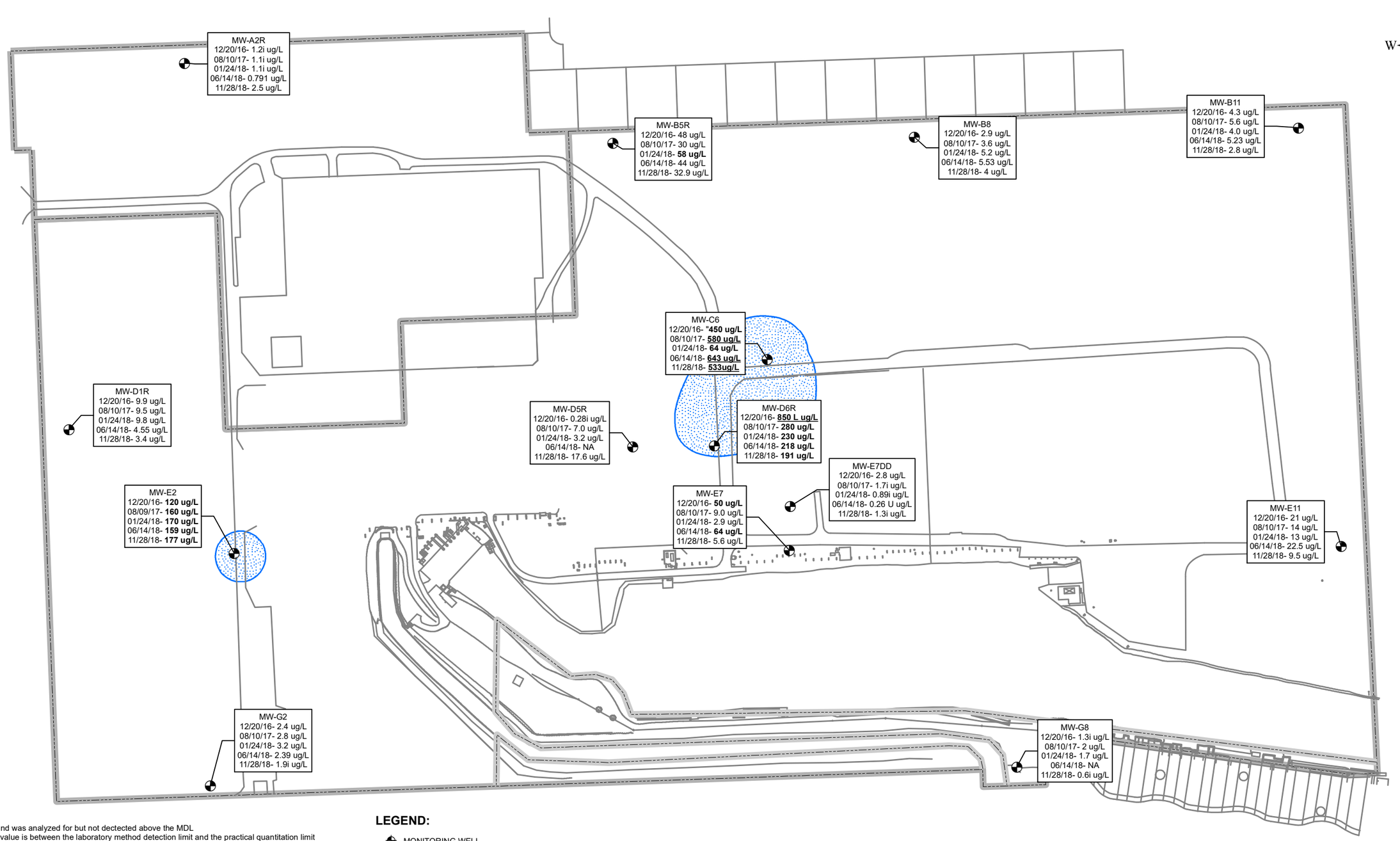
FIGURE 2 : GROUNDWATER ELEVATION (NOVEMBER 2018)

160 80 0 160
Feet

DATE: 12/07/2018

DRAWN BY: KE

O: (954) 202 9226 ‖ E: ADMIN@TIERRACONSULTING.COM ‖ WWW.TIERRACONSULTING.COM



NOTES:
ug/L- micrograms per liter
U- indicates that the compound was analyzed for but not dectected above the MDL
i- indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit
L- Reported value is above the calibration range
Bold and underlined text indicates the vanadium level exceeds Natural Attenuation Default Source Concentrations
Bold text indicates vanadium concentration exceeds Groundwater Cleanup Target Levels
NA- Well was not accessible due to temporary obstruction by Hurricane Irma response equipment.

LEGEND:

MONITORING WELL

EXTENT OF VANADIUM EXCEEDING 49 ug/L

TCG TIERRA CONSULTING GROUP
INTEGRITY, EXCELLENCE, COMMITMENT

PROJECT: FORMER CUTLER POWER PLANT PROPERTY
HWR-442/FILE-16360/IW-79
MIAMI, FLORIDA

CLIENT: FLORIDA POWER & LIGHT COMPANY

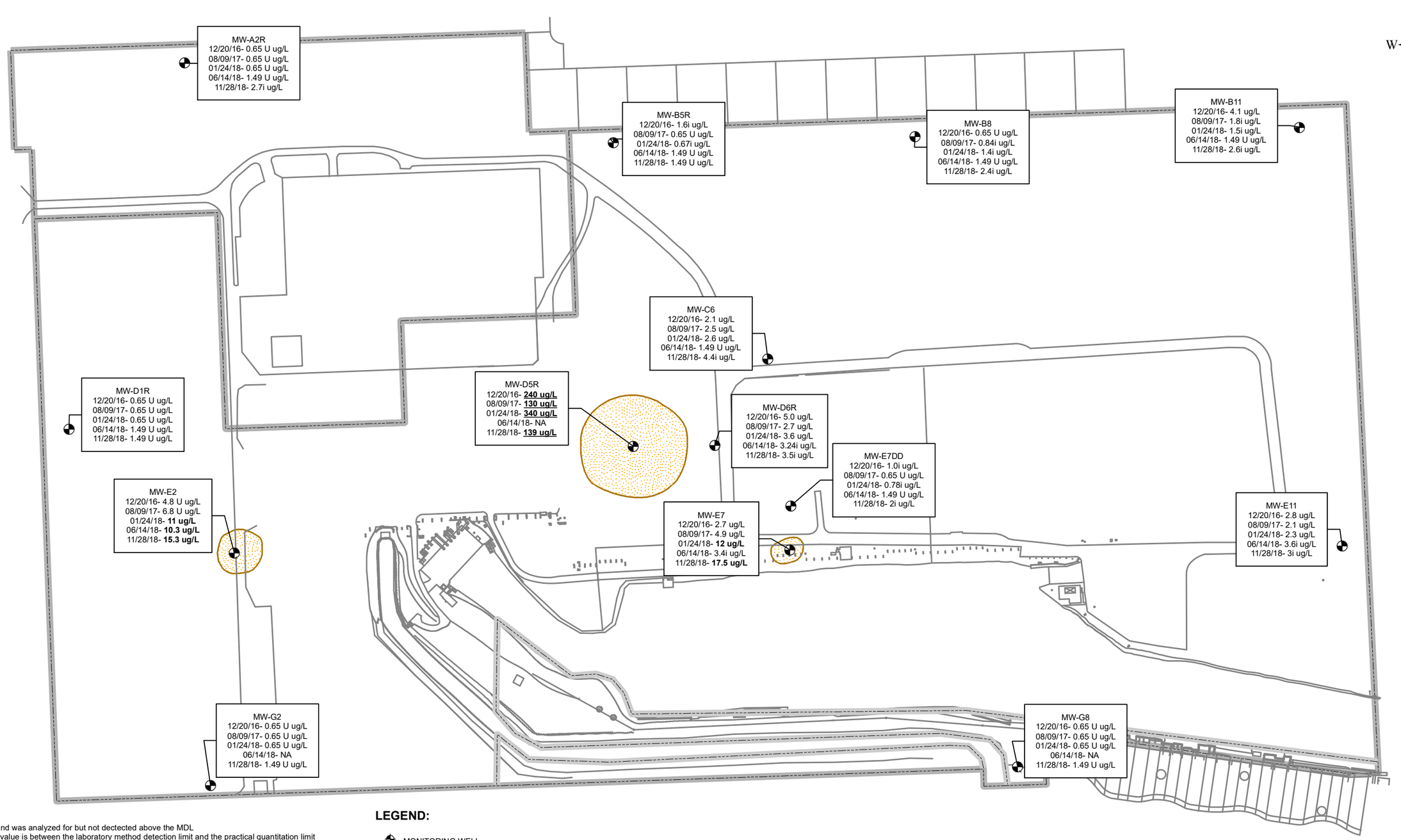
FIGURE 3 : VANADIUM IN GROUNDWATER (NOVEMBER 2018)

200 100 0 200
Feet

DATE: 12/7/2018

DRAWN BY: ER

O: (954) 202 9226 ‖ E: ADMIN@TIERRACONSULTING.COM ‖ WWW.TIERRACONSULTING.COM



NOTES:
ug/L- micrograms per liter
U- indicates that the compound was analyzed for but not dectected above the MDL
i- indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit
L- Reported value is above the calibration range
Bold and underlined text indicates the arsenic level exceeds Natural Attenuation Default Source Concentrations
Bold text indicates arsenic concentration exceeds Groundwater Cleanup Target Levels
NA- Well was not accessible due to temporary obstruction by Hurricane Irma response equipment.

LEGEND:

MONITORING WELL

EXTENT OF ARSENIC EXCEEDING 10 ug/L

TCG TIERRA CONSULTING GROUP
INTEGRITY, EXCELLENCE, COMMITMENT

PROJECT: FORMER CUTLER POWER PLANT PROPERTY
HWR-442/FILE-16360/IW-79
MIAMI, FLORIDA

CLIENT: FLORIDA POWER & LIGHT COMPANY

FIGURE 4 : ARSENIC IN GROUNDWATER (NOVEMBER 2018)

200 100 0 200
Feet

DATE: 12/7/2018

DRAWN BY: ER

O: (954) 202 9226 ‖ E: ADMIN@TIERRACONSULTING.COM ‖ WWW.TIERRACONSULTING.COM

APPENDIX A

MIAMI-DADE COUNTY
RER CORRESPONDENCE

OCTOBER 10, 2018

MIAMI-DADE COUNTY
Carlos A. Gimenez, Mayor

Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, 4th Floor
Miami, Florida 33136-3912
T 305-372-6700 F 305-372-6982
miamidade.gov

October 10, 2018

CERTIFIED MAIL NO. 7017 2400 0000 7835 4295
RETURN RECEIPT REQUESTED

Randall R. LaBauve, Vice President
Florida Power & Light Company
Mailstop JES/JB
700 Universe Blvd.
Juno Beach, Florida 33408

RE: Interim Groundwater Sampling Report (GSR) dated July 31, 2018 and submitted by Tierra Consulting Group for the FPL Cutler Power Plant (not including the substation) (HWR-442/File-16360/IW-79), located at, near, or in the vicinity of 14925 SW 67 Avenue, Miami-Dade County, Florida.

Dear Mr. LaBauve:

The Department of Regulatory and Economic Resources-Division of Environmental Resources Management (DERM) has reviewed the above report, received on August 17, 2018.

Pursuant to Chapter 24, Code of Miami-Dade County, continue with the designated monitoring, items and timeframes as stipulated in the Interim Groundwater Monitoring Plan as approved in the DERM letter dated October 17, 2016. Two copies of reports shall be submitted, one paper and one electronic PDF on CD. Reports shall include the original analytical results (laboratory report), chain of custody record form, analytical summary tables updated as applicable, scaled site maps that illustrate the analytical results, and the water-level elevation information (summary table and flow map). A review fee of $430 ($400 review fee and $30 RER Surcharge) shall be included with the next submittal.

DERM shall be notified in writing a minimum of three (3) working days prior to the implementation of any sampling or field activities. Email notifications shall be directed to DERMPCD@miamidade.gov. Please include the DERM file number on all correspondence.

Be advised that failure to comply with the above may result in enforcement action for this site.

Any person aggrieved by any action or decision of the DERM Director may appeal said action or decision to the Environmental Quality Control Board (EQCB) by filing a written notice of appeal along with submittal of the applicable fee, to the Code Coordination and Public Hearings Section of DERM within fifteen (15) days of the date of the action or decision by DERM.

If you have any questions concerning the above please contact Thomas Kux, P.G. (kuxt@miamidade.gov) of DERM at (305) 372-6700.

Sincerely,

Wilbur Mayorga, P.E., Chief
Environmental Monitoring and Restoration Division

TK

pc: Scott Zednek, P.G., Tierra, Zednek@tierraconsulting.com

APPENDIX B

LABORATORY ANALYTICAL REPORTS, CHAIN OF CUSTODY DOCUMENTATION, GROUNDWATER SAMPLING AND CALIBRATION LOGS

1460 West McNab Road
Fort Lauderdale, FL 33309
1-800-ANALYTE Phone
(954) 978-6400 Phone
(954) 978-2233 Fax

NELAP Certificate No. E86006

04 December 2018
Lab Work Order (COC): 18K0904

Eric Reed
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale, FL 33309

RE: 17030-Former FPL Cutler Plant

Project Location: 14925 SW 67th Avenue, Palmetto Bay, FL 33158

Dear Eric Reed:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were received by Florida Spectrum Environmental Services at **11/29/2018 09:51**.

All Analyses were performed according to the TNI/NELAP standard unless indicated by a "~" on the report.

Your samples will be retained by Florida Spectrum Environmental for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

We thank you for selecting Florida Spectrum Environmental to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Florida Spectrum Environmental Inc.

x

Report To:
Eric Reed
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/4/2018

Work Order # 18K0904

Project: 17030-Former FPL Cutler Plant

14925 SW 67th Avenue, Palmetto Bay, FL 33158

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
MW-D6R	18K0904-01	Water	Arsenic	3.50	ug/L	11/28/2018	11:41
MW-D6R	18K0904-01	Water	Nickel	5.80	ug/L	11/28/2018	11:41
MW-D6R	18K0904-01	Water	Vanadium	191	ug/L	11/28/2018	11:41
MW-C6	18K0904-02	Water	Arsenic	4.40	ug/L	11/28/2018	12:29
MW-C6	18K0904-02	Water	Nickel	21.7	ug/L	11/28/2018	12:29
MW-C6	18K0904-02	Water	Vanadium	533	ug/L	11/28/2018	12:29
MW-E7DD	18K0904-03	Water	Vanadium	1.30	ug/L	11/28/2018	14:15
MW-E7DD	18K0904-03	Water	Arsenic	2.00	ug/L	11/28/2018	14:15
MW-E7	18K0904-04	Water	Vanadium	5.60	ug/L	11/28/2018	14:47
MW-E7	18K0904-04	Water	Nickel	42.2	ug/L	11/28/2018	14:47
MW-E7	18K0904-04	Water	Arsenic	17.5	ug/L	11/28/2018	14:47
MW-B11	18K0904-05	Water	Arsenic	2.60	ug/L	11/28/2018	16:13
MW-B11	18K0904-05	Water	Vanadium	2.80	ug/L	11/28/2018	16:13
MW-D5R	18K0904-06	Water	Antimony	2.70	ug/L	11/28/2018	17:21
MW-D5R	18K0904-06	Water	Arsenic	139	ug/L	11/28/2018	17:21
MW-D5R	18K0904-06	Water	Nickel	1.70	ug/L	11/28/2018	17:21
MW-D5R	18K0904-06	Water	Vanadium	17.6	ug/L	11/28/2018	17:21

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Report Printed: 12/4/2018
Work Order # 18K0904
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-01
Client Sample ID: MW-D6R
Matrix: Water

Collection Date: 11/28/18 11:41
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 14:26	IN
Arsenic	3.50	I	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 14:26	IN
Nickel	5.80		ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 14:26	IN
Vanadium	191		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 14:26	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 20:58	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 20:58	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/01 20:58	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/01 20:58	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 20:58	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/01 20:58	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 20:58	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 20:58	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 20:58	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 20:58	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 20:58	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 20:58	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 20:58	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 20:58	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/01 20:58	YE

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Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-01
Client Sample ID: MW-D6R
Matrix: Water

Collection Date: 11/28/18 11:41
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 20:58	YE
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/01 20:58	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/01 20:58	YE

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Report Printed: 12/4/2018
Work Order # 18K0904
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-02
Client Sample ID: MW-C6
Matrix: Water

Collection Date: 11/28/18 12:29
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 14:29	IN
Arsenic	4.40	I	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 14:29	IN
Nickel	21.7		ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 14:29	IN
Vanadium	533		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 14:29	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 21:24	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 21:24	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/01 21:24	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/01 21:24	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 21:24	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/01 21:24	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 21:24	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 21:24	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 21:24	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 21:24	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 21:24	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 21:24	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 21:24	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 21:24	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/01 21:24	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 21:24	YE

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14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-02
Client Sample ID: MW-C6
Matrix: Water

Collection Date: 11/28/18 12:29
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/01 21:24	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/01 21:24	YE

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Work Order # 18K0904
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-03
Client Sample ID: MW-E7DD
Matrix: Water

Collection Date: 11/28/18 14:15
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 14:32	IN
Arsenic	2.00	I	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 14:32	IN
Nickel	ND	U	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 14:32	IN
Vanadium	1.30	I	ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 14:32	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 21:50	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 21:50	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/01 21:50	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/01 21:50	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 21:50	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/01 21:50	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 21:50	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 21:50	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 21:50	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 21:50	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 21:50	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 21:50	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 21:50	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 21:50	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/01 21:50	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 21:50	YE

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14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-03
Client Sample ID: MW-E7DD
Matrix: Water

Collection Date: 11/28/18 14:15
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/01 21:50	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/01 21:50	YE

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Fort Lauderdale FL, 33309

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Work Order # 18K0904
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-04
Client Sample ID: MW-E7
Matrix: Water

Collection Date: 11/28/18 14:47
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 14:34	IN
Arsenic	17.5		ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 14:34	IN
Nickel	42.2		ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 14:34	IN
Vanadium	5.60		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 14:34	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 22:16	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 22:16	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/01 22:16	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/01 22:16	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 22:16	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/01 22:16	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 22:16	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 22:16	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 22:16	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 22:16	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 22:16	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 22:16	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 22:16	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 22:16	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/01 22:16	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 22:16	YE

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Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-04
Client Sample ID: MW-E7
Matrix: Water

Collection Date: 11/28/18 14:47
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/01 22:16	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/01 22:16	YE

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14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-05
Client Sample ID: MW-B11
Matrix: Water

Collection Date: 11/28/18 16:13
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 14:37	IN
Arsenic	2.60	I	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 14:37	IN
Nickel	ND	U	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 14:37	IN
Vanadium	2.80		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 14:37	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 22:41	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 22:41	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/01 22:41	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/01 22:41	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 22:41	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/01 22:41	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 22:41	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 22:41	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 22:41	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 22:41	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 22:41	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 22:41	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 22:41	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 22:41	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/01 22:41	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 22:41	YE

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14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-05
Client Sample ID: MW-B11
Matrix: Water

Collection Date: 11/28/18 16:13
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/01 22:41	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/01 22:41	YE

Report To:
Eric Reed
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/4/2018
Work Order # 18K0904
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-06
Client Sample ID: MW-D5R
Matrix: Water

Collection Date: 11/28/18 17:21
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	2.70	I	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 14:40	IN
Arsenic	139		ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 14:40	IN
Nickel	1.70	I	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 14:40	IN
Vanadium	17.6		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 14:40	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 23:07	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 23:07	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/01 23:07	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/01 23:07	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 23:07	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/01 23:07	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 23:07	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 23:07	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 23:07	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 23:07	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 23:07	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 23:07	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 23:07	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 23:07	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/01 23:07	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 23:07	YE

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14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0904-06
Client Sample ID: MW-D5R
Matrix: Water

Collection Date: 11/28/18 17:21
Received Date: 11/29/18 09:51
Collected By: Eric Reed

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/01 23:07	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/01 23:07	YE

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14925 SW 67th Avenue, Palmetto Bay, FL 33158

Total Recoverable Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18K0089 - EPA 3010A										
Blank (18K0089-BLK1)				Prepared & Analyzed: 11/29/2018						
Antimony	ND	10.0	ug/L							U
Vanadium	ND	2.00	"							U
Arsenic	ND	5.00	"							U
Nickel	ND	5.00	"							U
LCS (18K0089-BS1)				Prepared & Analyzed: 11/29/2018						
Vanadium	483.3	2.00	ug/L	500.0		96.7	85-115			
Nickel	487.2	5.00	"	500.0		97.4	85-115			
Antimony	515.8	10.0	"	500.0		103	85-115			
Arsenic	499	5.00	"	500.0		99.7	85-115			
Matrix Spike (18K0089-MS1)		**Source: 18K0905-04**		Prepared & Analyzed: 11/29/2018						
Vanadium	538.0	2.00	ug/L	500.0	2.500	107	70-130			
Nickel	518.9	5.00	"	500.0	ND	104	70-130			
Arsenic	539	5.00	"	500.0	2.70	107	70-130			
Antimony	559.5	10.0	"	500.0	2.800	111	70-130			
Matrix Spike Dup (18K0089-MSD1)		**Source: 18K0905-04**		Prepared & Analyzed: 11/29/2018						
Vanadium	535.3	2.00	ug/L	500.0	2.500	107	70-130	0.505	20	
Nickel	511.7	5.00	"	500.0	ND	102	70-130	1.40	20	
Arsenic	533	5.00	"	500.0	2.70	106	70-130	1.07	20	
Antimony	553.2	10.0	"	500.0	2.800	110	70-130	1.13	20	

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14925 SW 67th Avenue, Palmetto Bay, FL 33158

PAH compounds by Semivolatile GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18K0886 - EPA 3510C_MS										
Blank (18K0886-BLK1)				Prepared: 11/30/2018 Analyzed: 12/01/2018						
Naphthalene	ND	0.0270	ug/L							U
2-Methylnaphthalene	ND	0.0270	"							U
1-Methylnaphthalene	ND	0.0450	"							U
Acenaphthene	ND	0.0360	"							U
Phenanthrene	ND	0.0240	"							U
Fluoranthene	ND	0.0300	"							U
Benzo (a) anthracene	ND	0.0390	"							U
Benzo (b) fluoranthene	ND	0.0210	"							U
Benzo (a) pyrene	ND	0.0270	"							U
Benzo (g,h,i) perylene	ND	0.0210	"							U
Acenaphthylene	ND	0.0180	"							U
Fluorene	ND	0.0450	"							U
Anthracene	ND	0.0300	"							U
Pyrene	ND	0.0330	"							U
Chrysene	ND	0.0210	"							U
Benzo (k) fluoranthene	ND	0.0270	"							U
Indeno (1,2,3-cd) pyrene	ND	0.0120	"							U
Dibenz (a,h) anthracene	ND	0.0210	"							U
LCS (18K0886-BS1)				Prepared: 11/30/2018 Analyzed: 12/01/2018						
Naphthalene	2.01	0.0270	ug/L	2.000		100	44-141			
2-Methylnaphthalene	2.04	0.0270	"	2.000		102	44-112			
1-Methylnaphthalene	2.06	0.0450	"	2.000		103	30-152			
Acenaphthene	1.98	0.0360	"	2.000		99.1	51-133			
Phenanthrene	1.74	0.0240	"	2.000		87.0	23-152			
Fluoranthene	1.84	0.0300	"	2.000		92.2	42-135			
Benzo (a) anthracene	1.84	0.0390	"	2.000		92.2	48-145			
Benzo (b) fluoranthene	1.89	0.0210	"	2.000		94.3	24-169			
Benzo (a) pyrene	2.03	0.0270	"	2.000		101	17-160			
Benzo (g,h,i) perylene	2.28	0.0210	"	2.000		114	40-161			
Acenaphthylene	2.22	0.0180	"	2.000		111	43-152			
Fluorene	2.17	0.0450	"	2.000		109	69-110			

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Fort Lauderdale FL, 33309

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Work Order # 18K0904
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

PAH compounds by Semivolatile GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18K0886 - EPA 3510C_MS										
LCS (18K0886-BS1)				Prepared: 11/30/2018 Analyzed: 12/01/2018						
Anthracene	1.87	0.0300	ug/L	2.000		93.3	30-156			
Pyrene	1.82	0.0330	"	2.000		91.2	34-151			
Chrysene	1.85	0.0210	"	2.000		92.5	37-133			
Benzo (k) fluoranthene	1.74	0.0270	"	2.000		86.9	31-138			
Indeno (1,2,3-cd) pyrene	1.96	0.0120	"	2.000		98.2	50-161			
Dibenz (a,h) anthracene	1.98	0.0210	"	2.000		99.1	44-151			
Matrix Spike (18K0886-MS1)		**Source: 18K0946-01**		Prepared: 11/30/2018 Analyzed: 12/01/2018						
Naphthalene	1.98	0.0270	ug/L	2.000	ND	99.0	44-141			
2-Methylnaphthalene	2.11	0.0270	"	2.000	ND	106	44-112			
1-Methylnaphthalene	2.09	0.0450	"	2.000	ND	104	30-152			
Acenaphthene	2.00	0.0360	"	2.000	ND	100	51-133			
Phenanthrene	1.95	0.0240	"	2.000	ND	97.3	23-152			
Fluoranthene	2.04	0.0300	"	2.000	ND	102	42-135			
Benzo (a) anthracene	1.93	0.0390	"	2.000	ND	96.5	48-145			
Benzo (b) fluoranthene	1.77	0.0210	"	2.000	ND	88.4	24-169			
Benzo (a) pyrene	1.83	0.0270	"	2.000	ND	91.5	16-160			
Benzo (g,h,i) perylene	2.30	0.0210	"	2.000	ND	115	40-161			
Acenaphthylene	2.21	0.0180	"	2.000	ND	111	43-152			
Fluorene	2.21	0.0450	"	2.000	ND	110	69-110			
Anthracene	2.07	0.0300	"	2.000	ND	104	30-156			
Pyrene	2.00	0.0330	"	2.000	ND	100	34-151			
Chrysene	1.96	0.0210	"	2.000	ND	98.0	37-133			
Benzo (k) fluoranthene	2.19	0.0270	"	2.000	ND	110	31-138			
Indeno (1,2,3-cd) pyrene	1.98	0.0120	"	2.000	ND	98.9	50-161			
Dibenz (a,h) anthracene	1.95	0.0210	"	2.000	ND	97.5	44-151			
Matrix Spike Dup (18K0886-MSD1)		**Source: 18K0946-01**		Prepared: 11/30/2018 Analyzed: 12/01/2018						
Naphthalene	1.92	0.0270	ug/L	2.000	ND	96.2	44-141	2.81	20	
2-Methylnaphthalene	2.07	0.0270	"	2.000	ND	103	44-112	2.14	20	
1-Methylnaphthalene	2.07	0.0450	"	2.000	ND	104	30-152	0.788	20	
Acenaphthene	1.95	0.0360	"	2.000	ND	97.7	51-133	2.44	20	

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14925 SW 67th Avenue, Palmetto Bay, FL 33158

PAH compounds by Semivolatile GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18K0886 - EPA 3510C_MS										
Matrix Spike Dup (18K0886-MSD1)	**Source: 18K0946-01**			Prepared: 11/30/2018 Analyzed: 12/01/2018						
Phenanthrene	1.81	0.0240	ug/L	2.000	ND	90.5	23-152	7.23	20	
Fluoranthene	1.88	0.0300	"	2.000	ND	94.1	42-135	8.23	20	
Benzo (a) anthracene	1.84	0.0390	"	2.000	ND	91.9	48-145	4.89	20	
Benzo (b) fluoranthene	1.73	0.0210	"	2.000	ND	86.3	24-169	2.39	20	
Benzo (a) pyrene	2.03	0.0270	"	2.000	ND	102	16-160	10.4	20	
Benzo (g,h,i) perylene	1.97	0.0210	"	2.000	ND	98.5	40-161	15.3	20	
Acenaphthylene	2.23	0.0180	"	2.000	ND	112	43-152	0.725	20	
Fluorene	2.18	0.0450	"	2.000	ND	109	69-110	1.34	20	
Anthracene	1.93	0.0300	"	2.000	ND	96.7	30-156	7.01	20	
Pyrene	1.87	0.0330	"	2.000	ND	93.4	34-151	6.90	20	
Chrysene	1.85	0.0210	"	2.000	ND	92.5	37-133	5.79	20	
Benzo (k) fluoranthene	1.77	0.0270	"	2.000	ND	88.5	31-138	21.4	20	
Indeno (1,2,3-cd) pyrene	1.87	0.0120	"	2.000	ND	93.4	50-161	5.68	20	
Dibenz (a,h) anthracene	1.75	0.0210	"	2.000	ND	87.7	44-151	10.5	20	
Blank (18K0886-BLK1)				Prepared: 11/30/2018 Analyzed: 12/01/2018						
Surrogate: Nitrobenzene-d5	*5.00*		*ug/L*	*5.000*		*100*	*25-106*			
Surrogate: 2-Fluorobiphenyl	*5.30*		*"*	*5.000*		*106*	*39-110*			
Surrogate: p-Terphenyl	*4.83*		*"*	*5.000*		*96.6*	*22-126*			
LCS (18K0886-BS1)				Prepared: 11/30/2018 Analyzed: 12/01/2018						
Surrogate: Nitrobenzene-d5	*5.39*		*ug/L*	*5.000*		*108*	*25-106*			
Surrogate: 2-Fluorobiphenyl	*5.46*		*"*	*5.000*		*109*	*39-110*			
Surrogate: p-Terphenyl	*4.46*		*"*	*5.000*		*89.2*	*22-126*			
Matrix Spike (18K0886-MS1)	**Source: 18K0946-01**			Prepared: 11/30/2018 Analyzed: 12/01/2018						
Surrogate: Nitrobenzene-d5	*5.49*		*ug/L*	*5.000*		*110*	*25-106*			
Surrogate: 2-Fluorobiphenyl	*5.52*		*"*	*5.000*		*110*	*39-110*			
Surrogate: p-Terphenyl	*4.95*		*"*	*5.000*		*99.0*	*22-126*			

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14925 SW 67th Avenue, Palmetto Bay, FL 33158

PAH compounds by Semivolatile GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18K0886 - EPA 3510C_MS										
Matrix Spike Dup (18K0886-MSD1)		**Source: 18K0946-01**		Prepared: 11/30/2018 Analyzed: 12/01/2018						
Surrogate: Nitrobenzene-d5	*5.34*		*ug/L*	*5.000*		*107*	*25-106*			
Surrogate: 2-Fluorobiphenyl	*5.39*		*"*	*5.000*		*108*	*39-110*			
Surrogate: p-Terphenyl	*4.51*		*"*	*5.000*		*90.2*	*22-126*			

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Report Printed: 12/4/2018

Work Order # 18K0904

Project: 17030-Former FPL Cutler Plant

14925 SW 67th Avenue, Palmetto Bay, FL 33158

Notes and Definitions

U	Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
V	Indicated that the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Z	Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160
Unless indicated, soil results are reported on actual (wet) weight basis.
Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Enrique Ochoa - CSM

Authorized CSM Signature (954) 978-6400
Florida-Spectrum Environmental Services,Inc.
Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

WORK ORDER # 18K0904

Logged in LIMS by: BP

Meets Acceptance Criteria: Y N

Florida Spectrum Environmental Services, Inc.

Doc. Ctrl: 040118-002

Date: 9/22/18 Rev. 1

CHAIN OF CUSTODY RECORD

- ☐ 1460 W. McNab Road, Ft Laud. FL 33309 Tel: (954) 978-6400 Fax: (954) 978-2233
- ☐ 108 Airport Park Dr., Garden City, GA 31408 Tel: (912) 238-5050 Fax: (912) 234-4815
- ☐ 528 Gooch Rd., Fort Meade, FL 33841 Tel: (863) 285-8145 Fax: (863) 285-7030
- ☐ 610 Parrot Ave. N, Okeechobee, FL 34972 Tel: (863) 763-3336 Fax: (863) 763-1544
- ☐ 1910 Harden Blvd, Suite 101, Lakeland, FL 33803 Tel: (863) 686-4271 Fax: (863) 686-4389

Original-Return w/report | Yellow-Lab File Copy | Pink - Sampler Copy

DUE DATE Requested

RUSH RESERVATION #

Rush Surcharges apply

Report to: (company name) Tierra Consulting Group

Report to Address: Tierra Consulting Group

Invoice to: (company name) Tierra Consulting Group

Purchase Order # 17030

Invoice to Address: 5809 N Andrews Way, Fort Lauderdale, FL 33309

Project Name and/or Number: Former FPL Cutler Plant

Site Location: 14925 SW 67 Avenue, Palmetto Bay, FL

Project Contact: Eric Reed

Phone: 954-202-9226

Fax: N/A

Email: admin@tierraconsulting.com

Sampler Name: (printed) Eric Reed

Affiliation: TCG

Sampler Signature: Eric Reed

	ORDER # Lab Control Number (Shaded Areas For Laboratory Use Only)	Sample ID	Date Sampled	Time Sampled	Matrix (DW SW GW WW S SED HW BIO SEA OIL X AIR)	Bottle & Pres. Combo Codes	Number of Containers Received & NELAC Letter Suffixes #	A-?	Antimony	Arsenic	Nickel	Vanadium	PAHs			TEMP °C	PH	COND	CHLOR
1	01	MW-D6R	11/28/18	1141	GW	Acl TH		2	X	X	X	X	X						
2	02	MW-C6	11/28/18	1229	GW				X	X	X	X	X						
3	03	MW-E7DD	11/28/18	1415	GW				X	X	X	X	X						
4	04	MW-E7	11/28/18	1447	GW				X	X	X	X	X						
5	05	MW-B22	11/28/18	1613	GW				X	X	X	X	X						
6	06	MW-D5R	11/28/18	1721	GW				X	X	X	X	X						
7																			
8																			
9																			
10																			

Analysis Required

Special Comments:

"I waive TNI protocol" (emergency) (sign here) >

Total

Deliverables: QA/QC Report Needed? Yes No (additional charge)

	Signature	Affiliation	Date/Time
1	Relinquished by: Eric Reed	TCG	11/29/18
1	Received by: [signature]	FSES	11/29/18 0951
2	Relinquished by:		
2	Received by:		
3	Relinquished by:		
3	Received by:		

Sample Custody & Field Comments

Received on Ice: Y N

Temp as received 2.6

Custody seals? Y N ✓

RAD-9 _____ GUN-1 _____

FIELD TIME

Sampling _____ hrs Pick Up _____ hrs

Misc. Charges _____

Bottle Type

A-liter amber
B-Bacteria bag/bottle
F-500 ml O-125 ml
H-Plastic Amber Liter
L-liter bottle
S2-2 oz soil jar
S4-4 oz soil jar / S8-8 oz soil jar
T-250 ml
V-40 ml vial
W-wide mouth
X-other TED-Tedlar Air Bag

Preservatives

A-ascorbic acid P-H3PO4
C-HCL S-H2SO4
Cu-CuSO4 T-Na2S2O3
DI-DI water U-Unpreserved
H-HNO3 N-NaOH
M-MCAB NH4-NH4CL
MeOH-Methanol Y-Sterile
Z-zinc acetate

Additional Preservatives

Hex-Hex Cr Buffer
EDA-Ethylene Diamine

www.flenviro.com

COC Page 1 of _____

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FPL Former Cutler Plant		SITE LOCATION: Miami, FL	
WELL NO: MW-D6R	SAMPLE ID: MW-D6R		DATE: 11/28/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 5.19	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 5.19 feet) X 0.16 gallons/foot = 1.09 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1123	PURGING ENDED AT: 1138	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1129	1.2	1.2	0.2	5.39	7.49	27.8	1360	4.16	10.3	Clear	none
1132	0.6	1.8	0.2	5.39	7.45	27.8	1366	4.15	2.56	Clear	none
1135	0.6	2.4	0.2	5.39	7.42	27.8	1355	4.09	1.49	Clear	none
1138	0.6	3.0	0.2	5.39	7.39	27.8	1354	4.08	1.22	Clear	none

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Eric Reed / TCG	SAMPLER(S) SIGNATURE(S): Eric Reed	SAMPLING INITIATED AT: 1139	SAMPLING ENDED AT: 1141
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-D6R	1	PE	250 mL	HNO_3 + Ice	—	<2	Metals	APP	400
MW-D6R	1	AG	1 L	Ice	—	—	PAH	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FPL Former Cutler Plant		SITE LOCATION: Miami, FL	
WELL NO: MW-C6	SAMPLE ID: MW-C6		DATE: 11/28/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2.1 feet to 12.1 feet	STATIC DEPTH TO WATER (feet): 3.37	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12.1 feet – 3.37 feet) X 0.16 gallons/foot = 1.39 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 1210	PURGING ENDED AT: 1226	TOTAL VOLUME PURGED (gallons): 3.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1217	1.4	1.4	0.2	3.57	7.21	26.8	734	0.90	2.01	clear	none
1220	0.6	2.0	0.2	3.57	7.16	26.8	733	0.83	3.37	clear	none
1223	0.6	2.6	0.2	3.57	7.14	26.8	732	0.79	1.42	clear	none
1226	0.6	3.4	0.2	3.57	7.12	26.8	732	0.76	1.05	clear	none

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Eric Reed / TCG	SAMPLER(S) SIGNATURE(S): Eric Reed	SAMPLING INITIATED AT: 1227	SAMPLING ENDED AT: 1229
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-C6	1	PE	250 mL	HNO_3 + Ice	—	<2	Metals	APP	400
MW-C6	1	AG	1 L	Ice	—	—	PAH	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FPL Former Cutler Plant	SITE LOCATION: Miami, FL	
WELL NO: MW-E7DD	SAMPLE ID: MW-E7DD	DATE: 11/28/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 64.8 feet to 69.8 feet	STATIC DEPTH TO WATER (feet): 5.04	PURGE PUMP TYPE OR BAILER: PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.01 gallons + (0.0026 gallons/foot X 67 feet) + 0.25 gallons = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 67	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 67	PURGING INITIATED AT: 1401	PURGING ENDED AT: 1413	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1401	0.3	0.3	0.1	5.24	7.55	26.5	48126	0.22	110	Cloudy	Sulfur
1404	0.3	0.6	0.1	5.24	7.54	26.5	48212	0.18	35.5	Cloudy	Sulfur
1407	0.3	0.9	0.1	5.24	7.54	26.5	48235	0.18	17.9	Clear	Sulfur
1410	0.3	1.2	0.1	5.24	7.53	26.4	48439	0.12	5.52	Clear	Sulfur
1413	0.3	1.5	0.1	5.24	7.52	26.4	48461	0.18	4.55	Clear	Sulfur

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Eric Reed / TCG	SAMPLER(S) SIGNATURE(S): Eric Reed	SAMPLING INITIATED AT: 1413	SAMPLING ENDED AT: 1415
PUMP OR TUBING DEPTH IN WELL (feet): 67	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-E7DD	1	PE	250 mL	HNO_3 + Ice	—	<2	Metals	APP	400
MW-E7DD	1	AG	1 L	Ice	—	—	PAH	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FPL Former Cutler Plant		SITE LOCATION: Miami, FL	
WELL NO: MW - E7	SAMPLE ID: MW - E7		DATE: 11/28/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1.7 feet to 11.7 feet	STATIC DEPTH TO WATER (feet): 5.66	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.7 feet – 5.66 feet) X 0.16 gallons/foot = 0.97 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1431	PURGING ENDED AT: 1445	TOTAL VOLUME PURGED (gallons): 2.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1436	1.0	1.0	0.2	5.86	7.14	27.7	1031	0.18	15.8	Clear	none
1439	0.6	1.6	0.2	5.86	7.01	27.7	1029	0.15	11.7	Clear	none
1442	0.6	2.2	0.2	5.86	6.96	27.7	1029	0.11	13.7	Clear	none
1445	0.6	2.8	0.2	5.86	6.95	27.7	1030	0.11	8.01	Clear	none

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Eric Reed / TCG	SAMPLER(S) SIGNATURE(S): Eric Reed	SAMPLING INITIATED AT: 1445	SAMPLING ENDED AT: 1447
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-E7	1	PE	250 mL	HNO_3 + Ice	—	<2	Metals	APP	400
MW-E7	1	AG	1 L	Ice	—	—	PAH	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FPL Former Cutler Plant		SITE LOCATION: Miami, FL	
WELL NO: MW-B11	SAMPLE ID: MW-B11		DATE: 11/28/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 1.01	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11 feet – 1.01 feet) X 0.16 gallons/foot = 1.59 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4	PURGING INITIATED AT: 1506	PURGING ENDED AT: 1610	TOTAL VOLUME PURGED (gallons): 8.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1514	1.6	1.6	0.2	1.21	7.41	25.2	3941	1.65	145	Cloudy	Sulfur
1522	1.6	3.2	0.2	1.21	7.27	25.3	4229	1.41	92.2	Cloudy	Sulfur
1528	0.6	3.8	0.1	1.21	7.14	25.3	4265	1.31	86.6	Cloudy	Sulfur
1534	0.6	4.4	0.1	1.21	7.14	25.3	4313	1.30	74.7	Cloudy	Sulfur
1540	0.6	5.0	0.1	1.21	7.13	25.2	4157	1.28	62.1	Cloudy	Sulfur
1546	0.6	5.6	0.1	1.21	7.12	25.2	4098	1.27	56.2	Cloudy	Sulfur
1552	0.6	6.2	0.1	1.21	7.11	25.2	4118	1.24	43.3	Cloudy	Sulfur
1558	0.6	6.8	0.1	1.21	7.09	25.3	4168	1.16	20.4	Clear	Sulfur
1604	0.6	7.4	0.1	1.21	7.09	25.1	4195	1.16	13.3	Clear	Sulfur
1610	0.6	8.0	0.1	1.21	7.08	25.1	4255	1.17	10.2	Clear	Sulfur

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Eric Reed / TCG	SAMPLER(S) SIGNATURE(S): Eric Reed	SAMPLING INITIATED AT: 1610	SAMPLING ENDED AT: 1612
PUMP OR TUBING DEPTH IN WELL (feet): 4	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-B11	1	PE	250 mL	HNO_3 + Ice	—	<2	Metals	APP	400
MW-B11	1	AG	1 L	Ice	—	—	PAH	APP	400

REMARKS: Turbidity Stabilization could not be reached after in excess of 5 well volumes

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FPL Former Cutler Plant	SITE LOCATION: Miami, FL
WELL NO: MW-D5R	SAMPLE ID: MW-D5R	DATE: 11/29/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 6.56	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 6.56 feet) X 0.16 gallons/foot = 0.87 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 1705	PURGING ENDED AT: 1719	TOTAL VOLUME PURGED (gallons): 2.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1710	1.0	1.0	0.2	6.76	6.97	27.1	923	0.80	12.4	clear	none
1713	0.6	1.6	0.2	6.76	6.91	27.1	921	0.65	7.09	clear	none
1716	0.6	2.2	0.2	6.76	6.89	27.1	919	0.51	4.88	clear	none
1719	0.6	2.8	0.2	6.76	6.88	27.1	920	0.52	1.69	clear	none

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Eric Reed / TCG	SAMPLER(S) SIGNATURE(S): Eric Reed	SAMPLING INITIATED AT: 1719	SAMPLING ENDED AT: 1721
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-D5R	1	PE	250 mL	HNO_3 + Ice	—	<2	Metals	APP	400
MW-D5R	1	AG	1 L	Ice	—	—	PAHs	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: _____ RQ- _____ Project: FPL Former Cutler

Notes: (1) Always wait for meter to stabilize before recording any readings.
(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Katherine E	11/27/18	8:35	24.0	/	8.418	8.35	/	/	/	(P)/ F	(L)/ F
ICV	Katherine E	11/27/18	8:40	24.0	/	8.418	8.40	/	/	/	(P)/ F	(L)/ F
CCV	Eric Reed	11/28/18	15:10	23.1	/	8.562	8.61	/	/	/	(P)/ F	L/(F)
CCV	Katherine E	11/29/18	9:32	21.6	/	8.812	8.73	/	/	/	(P)/ F	(L)/ F

DO Acceptance criteria from Table ± 0.3 mg/L. **Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. **Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Katherine E	11/27/18	8:42	8G1512	Sept 2019	500	516	(P)/ F	(L)/ F
ICV	Katherine E	11/27/18	8:44	8G1512	Sept 2019	500	521	(P)/ F	(L)/ F
CCV	Eric Reed	11/28/18	15:13	8G1512	Sept 2019	500	505	(P)/ F	L/(F)
CCV	Katherine E	11/29/18	10:20	8GJ557	Oct 2019	80,000	80,401	(P)/ F	(L)/ F

Conductivity Acceptance criteria ± 5%

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Katherine E	11/27/18	8:50	8GH706	Aug 2020	7.	25.5	6.89	/	(P)/ F	(L)/ F
Calibr.	Katherine E	11/27/18	8:58	8GH988	Aug 2020	4.	25.7	3.88	/	(P)/ F	(L)/ F
Calibr.	Katherine E	11/27/18	9:03	8GC1026	Mar 2020	10.	25.7	9.94	/	(P)/ F	(L)/ F
ICV	Katherine E	11/27/18	9:06	8GC1026	Mar 2020	10	25.7	10.06	/	(P)/ F	(L)/ F
CCV	Eric Reed	11/28/18	15:18	8GH988	Aug 2020	4	23.8	4.15	/	(P)/ F	L/(F)
CCV	Katherine E	11/29/18	10:23	8GH706	Aug 2020	7	22.6	7.19	/	(P)/ F	(L)/ F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / (NO) / NA (not surf. water project)
If **YES**, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____
If **NO**, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Turbidity Calibration Log (DEP SOPs FT1000 & FT1600)
Regional Operations Centers

Meter ID: 1 Date of Last Calibration: _____ Project Name: FPL Cutler

Quarterly Calibration

Sampler Name: Katherine Espinal Date: 11/9/18 Time: 8:45 ETZ / CTZ *(circle one)*

Standard Value *(Use Primary Formazin Standards)*	Exp. Date	Lot #	Type of Information Displayed During Calibration? *(circle one)*	Value Displayed NTU	Calibration Pass / Fail *(circle one)*
20 NTU	May 2019	A8038	Meter Reading / Next Value	19.8	(P) / F
100 NTU	May 2019	A8043	Meter Reading / Next Value	98.5	(P) / F
800 NTU	May 2019	A8038	Meter Reading / Next Value	803	(P) / F
NTU			Meter Reading / Next Value		P / F

Initial Calibration Verification (ICV) *(Only perform ICV immediately after quarterly calibr. Do not use < 0.1 NTU standard for ICV.)*

Sampler Name: Katherine Espinal Date: 11/9/18 Time: 8:50 ETZ / CTZ *(circle one)*

Standard Value *(Use A Primary Formazin Standard)*	Exp. Date	Lot #	Meter Reading NTU	Pass / Fail *(circle one)*
20 NTU	May 2019	A8038	19.8	(P) / F

Secondary Gel Standard Quarterly Verification *(perform gel standard verification immediately after quarterly calib. and ICV)*

Sampler Name: _____ Date: _____ Time: _____ ETZ / CTZ *(circle one)*

Standard Value Range NTU	Previous Value Assigned NTU	Exp. Date	Lot #	Meter Reading NTU *(new value assigned)*	Acceptable Range, NTU *(Calculate using new value assigned & acceptance criteria*)*
0 – 10					
10 – 100					
100 - 1000					

Daily Continuing Calibration Verification (CCV) *(required every day that meter is used)*

Date	Time (24hr) CT-ET	Sampler Name	Standard Type *(circle one)*	Standard Value NTU	Exp. Date	Lot #	Meter Reading NTU	Pass / Fail
11/28/18	15:20	Eric Reed	(Formazin) / Gel	800	May 2019	A8038	806	(P) / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F

Comments:

*Acceptance Criteria: 0.1-10 NTU → ± 10 %; 11-40 NTU → ± 8 %; 41-100 NTU → ± 6.5 %; >100 NTU → ± 5 %;
Acceptable ranges for common standards: 20 NTU (18.4 - 21.6 NTU); 100 NTU (93.5 – 106.5 NTU); 800 NTU (760 - 840 NTU)

Form Effective October 1, 2017

1460 West McNab Road
Fort Lauderdale, FL 33309
1-800-ANALYTE Phone
(954) 978-6400 Phone
(954) 978-2233 Fax

NELAP Certificate No. E86006

06 December 2018
Lab Work Order (COC): 18K0905

Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale, FL 33309

RE: 17030-Former FPL Cutler Plant

Project Location: 14925 SW 67th Avenue, Palmetto Bay, FL 33158

Dear Katherine Espinal:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were received by Florida Spectrum Environmental Services at **11/29/2018 09:51**.

All Analyses were performed according to the TNI/NELAP standard unless indicated by a "~" on the report.

Your samples will be retained by Florida Spectrum Environmental for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

We thank you for selecting Florida Spectrum Environmental to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Florida Spectrum Environmental Inc.

x

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018

Work Order # 18K0905

Project: 17030-Former FPL Cutler Plant

14925 SW 67th Avenue, Palmetto Bay, FL 33158

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
MW-E11	18K0905-01	Water	Arsenic	3.00	ug/L	11/28/2018	10:20
MW-E11	18K0905-01	Water	Nickel	1.90	ug/L	11/28/2018	10:20
MW-E11	18K0905-01	Water	Vanadium	9.50	ug/L	11/28/2018	10:20
MW-B8	18K0905-02	Water	Arsenic	2.40	ug/L	11/28/2018	11:12
MW-B8	18K0905-02	Water	Vanadium	4.00	ug/L	11/28/2018	11:12
MW-B5R	18K0905-03	Water	Nickel	1.60	ug/L	11/28/2018	12:31
MW-B5R	18K0905-03	Water	Vanadium	32.9	ug/L	11/28/2018	12:31
MW-A2R	18K0905-04	Water	Arsenic	2.70	ug/L	11/28/2018	13:13
MW-A2R	18K0905-04	Water	Vanadium	2.50	ug/L	11/28/2018	13:13
MW-A2R	18K0905-04	Water	Antimony	2.80	ug/L	11/28/2018	13:13
MW-G2	18K0905-05	Water	Antimony	2.10	ug/L	11/28/2018	14:53
MW-G2	18K0905-05	Water	Vanadium	1.90	ug/L	11/28/2018	14:53
MW-E2	18K0905-06	Water	Vanadium	177	ug/L	11/28/2018	16:06
MW-E2	18K0905-06	Water	Arsenic	15.3	ug/L	11/28/2018	16:06
MW-D1R	18K0905-07	Water	Vanadium	3.40	ug/L	11/28/2018	16:35
MW-G8	18K0905-08	Water	Naphthalene	0.0400	ug/L	11/28/2018	17:24
MW-G8	18K0905-08	Water	Vanadium	0.600	ug/L	11/28/2018	17:24

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-01
Client Sample ID: MW-E11
Matrix: Water

Collection Date: 11/28/18 10:20
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 14:43	IN
Arsenic	3.00	I	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 14:43	IN
Nickel	1.90	I	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 14:43	IN
Vanadium	9.50		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 14:43	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 23:33	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 23:33	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/01 23:33	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/01 23:33	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 23:33	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/01 23:33	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 23:33	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 23:33	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 23:33	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 23:33	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 23:33	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/01 23:33	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/01 23:33	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/01 23:33	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/01 23:33	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-01
Client Sample ID: MW-E11
Matrix: Water

Collection Date: 11/28/18 10:20
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/01 23:33	YE
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/01 23:33	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/01 23:33	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-02
Client Sample ID: MW-B8
Matrix: Water

Collection Date: 11/28/18 11:12
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 14:46	IN
Arsenic	2.40	I	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 14:46	IN
Nickel	ND	U	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 14:46	IN
Vanadium	4.00		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 14:46	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 00:00	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:00	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/02 00:00	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/02 00:00	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 00:00	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/02 00:00	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:00	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:00	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:00	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:00	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:00	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:00	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 00:00	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 00:00	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/02 00:00	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:00	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-02
Client Sample ID: MW-B8
Matrix: Water

Collection Date: 11/28/18 11:12
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/02 00:00	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/02 00:00	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-03
Client Sample ID: MW-B5R
Matrix: Water

Collection Date: 11/28/18 12:31
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 14:49	IN
Arsenic	ND	U	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 14:49	IN
Nickel	1.60	I	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 14:49	IN
Vanadium	32.9		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 14:49	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 00:26	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:26	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/02 00:26	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/02 00:26	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 00:26	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/02 00:26	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:26	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:26	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:26	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:26	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:26	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:26	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 00:26	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 00:26	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/02 00:26	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:26	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-03
Client Sample ID: MW-B5R
Matrix: Water

Collection Date: 11/28/18 12:31
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/02 00:26	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/02 00:26	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-04
Client Sample ID: MW-A2R
Matrix: Water

Collection Date: 11/28/18 13:13
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	2.80	I	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 14:52	IN
Arsenic	2.70	I	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 14:52	IN
Nickel	ND	U	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 14:52	IN
Vanadium	2.50		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 14:52	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 00:52	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:52	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/02 00:52	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/02 00:52	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 00:52	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/02 00:52	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:52	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:52	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:52	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:52	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:52	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 00:52	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 00:52	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 00:52	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/02 00:52	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 00:52	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-04
Client Sample ID: MW-A2R
Matrix: Water

Collection Date: 11/28/18 13:13
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
PAH compounds by Semivolatile GCMS										
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/02 00:52	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/02 00:52	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-05
Client Sample ID: MW-G2
Matrix: Water

Collection Date: 11/28/18 14:53
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	2.10	I	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 15:12	IN
Arsenic	ND	U	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 15:12	IN
Nickel	ND	U	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 15:12	IN
Vanadium	1.90	I	ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 15:12	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 01:18	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 01:18	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/02 01:18	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/02 01:18	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 01:18	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/02 01:18	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 01:18	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 01:18	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 01:18	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 01:18	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 01:18	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 01:18	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 01:18	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 01:18	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/02 01:18	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 01:18	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-05
Client Sample ID: MW-G2
Matrix: Water

Collection Date: 11/28/18 14:53
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
PAH compounds by Semivolatile GCMS										
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/02 01:18	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/02 01:18	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-06
Client Sample ID: MW-E2
Matrix: Water

Collection Date: 11/28/18 16:06
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 15:15	IN
Arsenic	15.3		ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 15:15	IN
Nickel	ND	U	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 15:15	IN
Vanadium	177		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 15:15	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 01:44	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 01:44	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/02 01:44	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/02 01:44	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 01:44	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/02 01:44	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 01:44	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 01:44	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 01:44	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 01:44	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 01:44	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 01:44	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 01:44	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 01:44	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/02 01:44	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 01:44	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-06
Client Sample ID: MW-E2
Matrix: Water

Collection Date: 11/28/18 16:06
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
PAH compounds by Semivolatile GCMS										
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/02 01:44	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/02 01:44	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-07
Client Sample ID: MW-D1R
Matrix: Water

Collection Date: 11/28/18 16:35
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 15:18	IN
Arsenic	ND	U	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 15:18	IN
Nickel	ND	U	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 15:18	IN
Vanadium	3.40		ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 15:18	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 02:10	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 02:10	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/02 02:10	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/02 02:10	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 02:10	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/02 02:10	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 02:10	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 02:10	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 02:10	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 02:10	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 02:10	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 02:10	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 02:10	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 02:10	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/02 02:10	YE
Naphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 02:10	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-07
Client Sample ID: MW-D1R
Matrix: Water

Collection Date: 11/28/18 16:35
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/02 02:10	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/02 02:10	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-08
Client Sample ID: MW-G8
Matrix: Water

Collection Date: 11/28/18 17:24
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by EPA 200 Series Methods										
Antimony	ND	U	ug/L	1	1.94	10.0	EPA 200.7	11/29 10:15	11/29 15:21	IN
Arsenic	ND	U	ug/L	1	1.49	5.00	EPA 200.7	11/29 10:15	11/29 15:21	IN
Nickel	ND	U	ug/L	1	0.660	5.00	EPA 200.7	11/29 10:15	11/29 15:21	IN
Vanadium	0.600	I	ug/L	1	0.260	2.00	EPA 200.7	11/29 10:15	11/29 15:21	IN
PAH compounds by Semivolatile GCMS										
1-Methylnaphthalene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 02:36	YE
2-Methylnaphthalene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 02:36	YE
Acenaphthene	ND	U	ug/L	1	0.0120	0.0360	EPA 8270	11/30 11:00	12/02 02:36	YE
Acenaphthylene	ND	U	ug/L	1	0.00600	0.0180	EPA 8270	11/30 11:00	12/02 02:36	YE
Anthracene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 02:36	YE
Benzo (a) anthracene	ND	U	ug/L	1	0.0130	0.0390	EPA 8270	11/30 11:00	12/02 02:36	YE
Benzo (a) pyrene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 02:36	YE
Benzo (b) fluoranthene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 02:36	YE
Benzo (g,h,i) perylene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 02:36	YE
Benzo (k) fluoranthene	ND	U	ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 02:36	YE
Chrysene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 02:36	YE
Dibenz (a,h) anthracene	ND	U	ug/L	1	0.00700	0.0210	EPA 8270	11/30 11:00	12/02 02:36	YE
Fluoranthene	ND	U	ug/L	1	0.0100	0.0300	EPA 8270	11/30 11:00	12/02 02:36	YE
Fluorene	ND	U	ug/L	1	0.0150	0.0450	EPA 8270	11/30 11:00	12/02 02:36	YE
Indeno (1,2,3-cd) pyrene	ND	U	ug/L	1	0.00400	0.0120	EPA 8270	11/30 11:00	12/02 02:36	YE
Naphthalene	0.0400		ug/L	1	0.00900	0.0270	EPA 8270	11/30 11:00	12/02 02:36	YE

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Lab ID: 18K0905-08
Client Sample ID: MW-G8
Matrix: Water

Collection Date: 11/28/18 17:24
Received Date: 11/29/18 09:51
Collected By: Carolina Arenas

Laboratory Analysis Report

PAH compounds by Semivolatile GCMS

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Phenanthrene	ND	U	ug/L	1	0.00800	0.0240	EPA 8270	11/30 11:00	12/02 02:36	YE
Pyrene	ND	U	ug/L	1	0.0110	0.0330	EPA 8270	11/30 11:00	12/02 02:36	YE

Rev-2

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Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

Total Recoverable Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18K0089 - EPA 3010A										
Blank (18K0089-BLK1)				Prepared & Analyzed: 11/29/2018						
Vanadium	ND	2.00	ug/L							U
Nickel	ND	5.00	"							U
Arsenic	ND	5.00	"							U
Antimony	ND	10.0	"							U
LCS (18K0089-BS1)				Prepared & Analyzed: 11/29/2018						
Vanadium	483.3	2.00	ug/L	500.0		96.7	85-115			
Nickel	487.2	5.00	"	500.0		97.4	85-115			
Antimony	515.8	10.0	"	500.0		103	85-115			
Arsenic	499	5.00	"	500.0		99.7	85-115			
Matrix Spike (18K0089-MS1)		**Source: 18K0905-04**		Prepared & Analyzed: 11/29/2018						
Antimony	559.5	10.0	ug/L	500.0	2.800	111	70-130			
Arsenic	539	5.00	"	500.0	2.70	107	70-130			
Vanadium	538.0	2.00	"	500.0	2.500	107	70-130			
Nickel	518.9	5.00	"	500.0	ND	104	70-130			
Matrix Spike Dup (18K0089-MSD1)		**Source: 18K0905-04**		Prepared & Analyzed: 11/29/2018						
Vanadium	535.3	2.00	ug/L	500.0	2.500	107	70-130	0.505	20	
Nickel	511.7	5.00	"	500.0	ND	102	70-130	1.40	20	
Arsenic	533	5.00	"	500.0	2.70	106	70-130	1.07	20	
Antimony	553.2	10.0	"	500.0	2.800	110	70-130	1.13	20	

Rev-2

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Katherine Espinal
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Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

PAH compounds by Semivolatile GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18K0886 - EPA 3510C_MS										
Blank (18K0886-BLK1)				Prepared: 11/30/2018 Analyzed: 12/01/2018						
Naphthalene	ND	0.0270	ug/L							U
2-Methylnaphthalene	ND	0.0270	"							U
1-Methylnaphthalene	ND	0.0450	"							U
Acenaphthene	ND	0.0360	"							U
Phenanthrene	ND	0.0240	"							U
Fluoranthene	ND	0.0300	"							U
Benzo (a) anthracene	ND	0.0390	"							U
Benzo (b) fluoranthene	ND	0.0210	"							U
Benzo (a) pyrene	ND	0.0270	"							U
Benzo (g,h,i) perylene	ND	0.0210	"							U
Acenaphthylene	ND	0.0180	"							U
Fluorene	ND	0.0450	"							U
Anthracene	ND	0.0300	"							U
Pyrene	ND	0.0330	"							U
Chrysene	ND	0.0210	"							U
Benzo (k) fluoranthene	ND	0.0270	"							U
Indeno (1,2,3-cd) pyrene	ND	0.0120	"							U
Dibenz (a,h) anthracene	ND	0.0210	"							U
LCS (18K0886-BS1)				Prepared: 11/30/2018 Analyzed: 12/01/2018						
Naphthalene	2.01	0.0270	ug/L	2.000		100	44-141			
2-Methylnaphthalene	2.04	0.0270	"	2.000		102	44-112			
1-Methylnaphthalene	2.06	0.0450	"	2.000		103	30-152			
Acenaphthene	1.98	0.0360	"	2.000		99.1	51-133			
Phenanthrene	1.74	0.0240	"	2.000		87.0	23-152			
Fluoranthene	1.84	0.0300	"	2.000		92.2	42-135			
Benzo (a) anthracene	1.84	0.0390	"	2.000		92.2	48-145			
Benzo (b) fluoranthene	1.89	0.0210	"	2.000		94.3	24-169			
Benzo (a) pyrene	2.03	0.0270	"	2.000		101	17-160			
Benzo (g,h,i) perylene	2.28	0.0210	"	2.000		114	40-161			
Acenaphthylene	2.22	0.0180	"	2.000		111	43-152			
Fluorene	2.17	0.0450	"	2.000		109	69-110			

Rev-2

Report To:
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Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

PAH compounds by Semivolatile GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18K0886 - EPA 3510C_MS										
LCS (18K0886-BS1)				Prepared: 11/30/2018 Analyzed: 12/01/2018						
Anthracene	1.87	0.0300	ug/L	2.000		93.3	30-156			
Pyrene	1.82	0.0330	"	2.000		91.2	34-151			
Chrysene	1.85	0.0210	"	2.000		92.5	37-133			
Benzo (k) fluoranthene	1.74	0.0270	"	2.000		86.9	31-138			
Indeno (1,2,3-cd) pyrene	1.96	0.0120	"	2.000		98.2	50-161			
Dibenz (a,h) anthracene	1.98	0.0210	"	2.000		99.1	44-151			
Matrix Spike (18K0886-MS1)		**Source: 18K0946-01**		Prepared: 11/30/2018 Analyzed: 12/01/2018						
Naphthalene	1.98	0.0270	ug/L	2.000	ND	99.0	44-141			
2-Methylnaphthalene	2.11	0.0270	"	2.000	ND	106	44-112			
1-Methylnaphthalene	2.09	0.0450	"	2.000	ND	104	30-152			
Acenaphthene	2.00	0.0360	"	2.000	ND	100	51-133			
Phenanthrene	1.95	0.0240	"	2.000	ND	97.3	23-152			
Fluoranthene	2.04	0.0300	"	2.000	ND	102	42-135			
Benzo (a) anthracene	1.93	0.0390	"	2.000	ND	96.5	48-145			
Benzo (b) fluoranthene	1.77	0.0210	"	2.000	ND	88.4	24-169			
Benzo (a) pyrene	1.83	0.0270	"	2.000	ND	91.5	16-160			
Benzo (g,h,i) perylene	2.30	0.0210	"	2.000	ND	115	40-161			
Acenaphthylene	2.21	0.0180	"	2.000	ND	111	43-152			
Fluorene	2.21	0.0450	"	2.000	ND	110	69-110			
Anthracene	2.07	0.0300	"	2.000	ND	104	30-156			
Pyrene	2.00	0.0330	"	2.000	ND	100	34-151			
Chrysene	1.96	0.0210	"	2.000	ND	98.0	37-133			
Benzo (k) fluoranthene	2.19	0.0270	"	2.000	ND	110	31-138			
Indeno (1,2,3-cd) pyrene	1.98	0.0120	"	2.000	ND	98.9	50-161			
Dibenz (a,h) anthracene	1.95	0.0210	"	2.000	ND	97.5	44-151			
Matrix Spike Dup (18K0886-MSD1)		**Source: 18K0946-01**		Prepared: 11/30/2018 Analyzed: 12/01/2018						
Naphthalene	1.92	0.0270	ug/L	2.000	ND	96.2	44-141	2.81	20	
2-Methylnaphthalene	2.07	0.0270	"	2.000	ND	103	44-112	2.14	20	
1-Methylnaphthalene	2.07	0.0450	"	2.000	ND	104	30-152	0.788	20	
Acenaphthene	1.95	0.0360	"	2.000	ND	97.7	51-133	2.44	20	

Rev-2

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Report Printed: 12/6/2018
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14925 SW 67th Avenue, Palmetto Bay, FL 33158

PAH compounds by Semivolatile GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18K0886 - EPA 3510C_MS										
Matrix Spike Dup (18K0886-MSD1)	**Source: 18K0946-01**			Prepared: 11/30/2018 Analyzed: 12/01/2018						
Phenanthrene	1.81	0.0240	ug/L	2.000	ND	90.5	23-152	7.23	20	
Fluoranthene	1.88	0.0300	"	2.000	ND	94.1	42-135	8.23	20	
Benzo (a) anthracene	1.84	0.0390	"	2.000	ND	91.9	48-145	4.89	20	
Benzo (b) fluoranthene	1.73	0.0210	"	2.000	ND	86.3	24-169	2.39	20	
Benzo (a) pyrene	2.03	0.0270	"	2.000	ND	102	16-160	10.4	20	
Benzo (g,h,i) perylene	1.97	0.0210	"	2.000	ND	98.5	40-161	15.3	20	
Acenaphthylene	2.23	0.0180	"	2.000	ND	112	43-152	0.725	20	
Fluorene	2.18	0.0450	"	2.000	ND	109	69-110	1.34	20	
Anthracene	1.93	0.0300	"	2.000	ND	96.7	30-156	7.01	20	
Pyrene	1.87	0.0330	"	2.000	ND	93.4	34-151	6.90	20	
Chrysene	1.85	0.0210	"	2.000	ND	92.5	37-133	5.79	20	
Benzo (k) fluoranthene	1.77	0.0270	"	2.000	ND	88.5	31-138	21.4	20	
Indeno (1,2,3-cd) pyrene	1.87	0.0120	"	2.000	ND	93.4	50-161	5.68	20	
Dibenz (a,h) anthracene	1.75	0.0210	"	2.000	ND	87.7	44-151	10.5	20	
Blank (18K0886-BLK1)				Prepared: 11/30/2018 Analyzed: 12/01/2018						
Surrogate: Nitrobenzene-d5	*5.00*		*ug/L*	*5.000*		*100*	*25-106*			
Surrogate: 2-Fluorobiphenyl	*5.30*		*"*	*5.000*		*106*	*39-110*			
Surrogate: p-Terphenyl	*4.83*		*"*	*5.000*		*96.6*	*22-126*			
LCS (18K0886-BS1)				Prepared: 11/30/2018 Analyzed: 12/01/2018						
Surrogate: Nitrobenzene-d5	*5.39*		*ug/L*	*5.000*		*108*	*25-106*			
Surrogate: 2-Fluorobiphenyl	*5.46*		*"*	*5.000*		*109*	*39-110*			
Surrogate: p-Terphenyl	*4.46*		*"*	*5.000*		*89.2*	*22-126*			
Matrix Spike (18K0886-MS1)	**Source: 18K0946-01**			Prepared: 11/30/2018 Analyzed: 12/01/2018						
Surrogate: Nitrobenzene-d5	*5.49*		*ug/L*	*5.000*		*110*	*25-106*			
Surrogate: 2-Fluorobiphenyl	*5.52*		*"*	*5.000*		*110*	*39-110*			
Surrogate: p-Terphenyl	*4.95*		*"*	*5.000*		*99.0*	*22-126*			

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018
Work Order # 18K0905
Project: 17030-Former FPL Cutler Plant
14925 SW 67th Avenue, Palmetto Bay, FL 33158

PAH compounds by Semivolatile GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 18K0886 - EPA 3510C_MS										
Matrix Spike Dup (18K0886-MSD1)		**Source: 18K0946-01**		Prepared: 11/30/2018 Analyzed: 12/01/2018						
Surrogate: Nitrobenzene-d5	*5.34*		*ug/L*	*5.000*		*107*	*25-106*			
Surrogate: 2-Fluorobiphenyl	*5.39*		*"*	*5.000*		*108*	*39-110*			
Surrogate: p-Terphenyl	*4.51*		*"*	*5.000*		*90.2*	*22-126*			

Rev-2

Report To:
Katherine Espinal
Tierra Consulting Group Inc.
5809 North Andrews Way
Fort Lauderdale FL, 33309

Report Printed: 12/6/2018

Work Order # 18K0905

Project: 17030-Former FPL Cutler Plant

14925 SW 67th Avenue, Palmetto Bay, FL 33158

Notes and Definitions

U	Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
V	Indicated that the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Z	Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160
Unless indicated, soil results are reported on actual (wet) weight basis.
Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Enrique Ochoa - CSM

Authorized CSM Signature (954) 978-6400
Florida-Spectrum Environmental Services,Inc.
Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

WORK ORDER #

Logged in LIMS by _____

Meets Acceptance Criteria: Y N

Florida Spectrum Environmental Services, Inc.

Doc. Ctrl: 040118-002

Date: 9/22/18 Rev. 1

CHAIN OF CUSTODY RECORD

☐ 1460 W. McNab Road, Ft Laud. FL 33309	Tel: (954) 978-6400	Fax: (954) 978-2233
☐ 108 Airport Park Dr., Garden City, GA 31408	Tel: (912) 238-5050	Fax: (912) 234-4815
☐ 528 Gooch Rd., Fort Meade, FL 33841	Tel: (863) 285-8145	Fax: (863) 285-7030
☐ 610 Parrot Ave. N, Okeechobee, FL 34972	Tel: (863) 763-3336	Fax: (863) 763-1544
☐ 1910 Harden Blvd, Suite 101, Lakeland, FL 33803	Tel: (863) 686-4271	Fax: (863) 686-4389

Original-Return w/report Yellow-Lab File Copy Pink - Sampler Copy

DUE DATE Requested

RUSH RESERVATION #

Rush Surcharges apply

Report to: *(company name)* [illegible]

Report to Address: [illegible]

Invoice to: *(company name)* [illegible]

Purchase Order # [illegible]

Invoice to Address: [illegible]

Project Name and/or Number [illegible]

Site Location: [illegible]

Project Contact: [illegible]

Phone: [illegible]

Fax: [illegible]

Email: [illegible]

Sampler Name: (printed) [illegible]

Affiliation: CG

Sampler Signature [illegible]

ORDER # Lab Control Number (Shaded Areas For Laboratory Use Only)	Sample ID	Date Sampled	Time Sampled	Matrix (DW SW GW WW S SED HW BIO SEA OIL X AIR)	Bottle & Pres. Combo Codes	Number of Containers Received & NELAC Letter Suffixes # A-?		Analysis Required							TEMP °C	PH	COND	CHLOR
1	MW-C11	11/28/18	10:20	GW				✓	✓	✓	✓	✓						
2	MW-B8	11/28/18	11:12	GW				✓	✓	✓	✓	✓						
3	MW-P5R	11/28/18	12:31	GW				✓		✓	✓	✓						
4	[illegible]	11/28/18	[illegible]	GW				✓	✓	✓	✓	✓						
5	MW-G2	11/28/18	[illegible]	GW				✓	✓	✓	✓	✓						
6	MW-E2	11/28/18	[illegible]	GW				✓	✓	✓	✓	✓						
7	MW-24R	11/28/18	16:15	GW				✓	✓	✓	✓	✓						
8	[illegible]	11/28/18	17:24	GW				✓	✓	✓	✓	✓						
9								✓										
10																		

Special Comments:

Total

"I waive TNI protocol" (emergency) (sign here) >

Deliverables: QA/QC Report Needed? Yes No *(additional charge)*

	Signature	Affiliation	Date/Time
1	Relinquished by: [illegible]	CG	[illegible]
1	Received by: [illegible]		11/29/18 0951
2	Relinquished by:		
2	Received by:		
3	Relinquished by:		
3	Received by:		

Sample Custody & Field Comments

Received on Ice: Y N

Temp as received _____

Custody seals? Y N

RAD-9 _____ GUN-1 _____

FIELD TIME

Sampling _____ hrs Pick Up _____ hrs

Misc. Charges _____

Bottle Type

A-liter amber
B-Bacteria bag/bottle
F-500 ml O-125 ml
H-Plastic Amber Liter
L-liter bottle
S2-2 oz soil jar
S4-4 oz soil jar / S8-8 oz soil jar
T-250 ml
V-40 ml vial
W-wide mouth
X-other TED-Tedlar Air Bag

Preservatives

A-ascorbic acid P-H3PO4
C-HCL S-H2SO4
Cu-CuSO4 T-Na2S2O3
DI-DI water U-Unpreserved
H-HNO3 N-NaOH
M-MCAB NH4-NH4CL
MeOH-Methanol Y-Sterile
Z-zinc acetate

Additional Preservatives

Hex-Hex Cr Buffer
EDA-Ethylene Diamine

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COC Page _____ of _____

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Former FPL Cutler Plant	SITE LOCATION: Miami, Florida
WELL NO: MW-B8	SAMPLE ID: MW-B8	DATE: 11/28/2018

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 2.08	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11 feet – 2.08 feet) X 0.16 gallons/foot = 1.43 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 10:54	PURGING ENDED AT: 11:11	TOTAL VOLUME PURGED (gallons): 3.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:02	1.6	1.6	0.2	2.53	7.26	25.96	2.986	1.42	17.6	Clear	Sulfur
11:05	0.6	2.2	0.2	|	7.24	26.07	2.908	1.20	18.6	|	|
11:08	0.6	2.8	0.2	|	7.24	26.07	2.909	1.20	17.8	|	|
11:11	0.6	3.4	0.2	|	7.25	26.10	2.857	1.16	16.9	|	|

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. Arenas ITCG	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 11:12	SAMPLING ENDED AT: 11:16
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-B8	1	AG	1 L	Ice	—	—	PAH	APP	400
MW-B8	1	PE	250mL	HNO3+Ice	—	<2	Metals	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Former FPL Cutler Plant	SITE LOCATION: Miami, Florida
WELL NO: MW-D1R	SAMPLE ID: MW-D1R	DATE: 11/28/2018

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 14.86	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20 feet – 14.86 feet) X 0.16 gallons/foot = 0.82 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16	PURGING INITIATED AT: 16:20	PURGING ENDED AT: 16:34	TOTAL VOLUME PURGED (gallons): 2.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
16:25	1.0	1.0	0.2	15.23	6.86	26.05	1.391	1.80	10.1	Clear	Sulfur
16:28	0.6	1.6	0.2	15.23	6.86	26.04	1.382	1.54	8.42	|	|
16:31	0.6	2.2	0.2	15.23	6.87	26.04	1.372	1.49	7.33		
16:34	0.6	2.8	0.2	15.23	6.87	26.06	1.357	1.43	7.00		

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. Arenas / TCG	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 16:35	SAMPLING ENDED AT: 16:39
PUMP OR TUBING DEPTH IN WELL (feet): 16	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-D1R	1	AG	1L	Ice	—	—	PAH	APP	400
MW-D1R	1	PE	250mL	HNO3+Ice	—	<2	Metals	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Former FPL Cutler Plant	SITE LOCATION: Miami, Florida
WELL NO: MW-E11	SAMPLE ID: MW-E11 — DATE: 11/28/2018

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	0.6 feet to 10.6 feet	0.86	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (10.6 feet – 0.86 feet) X 0.16 gallons/foot = 1.56 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
4	4	10:00	10:17	3.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:08	1.6	1.6	0.2	1.32	7.06	23.94	41.62	1.13	14.4	Clear	Sulfur
10:11	0.6	2.2	0.2	1.32	7.08	23.78	42.40	0.93	4.56	|	|
10:14	0.6	2.8	0.2	1.32	7.09	23.79	42.50	0.85	3.98	|	|
10:17	0.6	3.4	0.2	1.32	7.09	23.76	42.59	0.82	2.90	|	|

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. Arenas / TLG	[signature]	10:19	10:23

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
4	HDPE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N)(replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-E11	1	PE	250mL	HNO3+Ice	—	<2	Metals	APP	400
MW-E11	1	AG	1L	Ice	—	—	PAH	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Former FPL Cutler Plant	SITE LOCATION: Miami, Florida	
WELL NO: MW-G8	SAMPLE ID: MW-G8	DATE: 11/28/2018

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 0.8 feet to 10.8 feet	STATIC DEPTH TO WATER (feet): 4.41	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (10.8 feet – 4.41 feet) X 0.16 gallons/foot = 1.02 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 17:08	PURGING ENDED AT: 17:23	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
17:14	1.2	1.2	0.2	4.72	6.88	26.05	4.888	2.10	10.5	Clear	Sulfur
17:17	0.6	1.8	0.2	|	6.90	26.11	4.648	1.70	17.3	|	|
17:20	0.6	2.4	0.2	|	6.91	26.17	4.398	1.59	17.1	|	|
17:23	0.6	3.0	0.2	|	6.91	26.19	4.229	1.53	16.7	|	|

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. Arenas / TLG	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 17:24	SAMPLING ENDED AT: 17:28
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-G8	1	AG	1L	Ice	—	—	PAH	APP	400
MW-G8	1	PE	250mL	HNO_3+Ice	—	<2	Metals	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FPL Former Cutler Plant	SITE LOCATION: Miami, Florida
WELL NO: MW-E2	SAMPLE ID: MW-E2 — DATE: 11/28/2018

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 13.13	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (18 feet – 13.13 feet) X 0.16 gallons/foot = 0.78 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 15:22	PURGING ENDED AT: 16:05	TOTAL VOLUME PURGED (gallons): 4.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:30	0.8	0.8	0.1	14.02	7.31	27.40	0.589	4.67	87.5	Cloudy	None
15:35	0.5	1.3	0.1		7.26	27.83	0.591	4.16	43.3		
15:40	0.5	1.8	0.1		7.26	27.87	0.591	4.23	42.8		
15:45	0.5	2.3	0.1		7.26	27.90	0.590	4.18	40.9		
15:50	0.5	2.8	0.1		7.25	27.79	0.590	4.47	35.4		
15:55	0.5	3.3	0.1		7.25	27.86	0.589	4.04	30.9		
16:00	0.5	3.8	0.1		7.25	28.00	0.591	4.25	26.6		
16:05	0.5	4.3	0.1		7.25	27.80	0.590	4.14	22.4		

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. Arenas / TLG	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 16:06	SAMPLING ENDED AT: 16:10
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N)(replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-E2	1	AG	1L	Ice	—	–	PAH	APP	200
MW-E2	1	PE	250mL	HNO3+Ice	—	<2	Metals	APP	200

REMARKS: DO < 20% and turbidity < 20 NTUs could not be reached after purging in excess of 5 well volumes

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

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

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

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FPL Former Cutler Plant	SITE LOCATION: Miami, Florida	
WELL NO: MW-62	SAMPLE ID: MW-62	DATE: 11/28/2018

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 7.9 feet to 17.9 feet	STATIC DEPTH TO WATER (feet): 9.45	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (17.9 feet – 9.45 feet) X 0.16 gallons/foot = 1.35 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12	PURGING INITIATED AT: 14:25	PURGING ENDED AT: 14:52	TOTAL VOLUME PURGED (gallons): 3.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:32	1.4	1.4	0.2	9.89	7.25	26.77	0.830	1.79	30.2	Clear	None
14:37	0.5	1.9	0.1	|	7.26	26.89	0.822	1.45	14.8	|	|
14:42	0.5	2.4	0.1	|	7.27	26.88	0.808	1.29	8.84	|	|
14:47	0.5	2.9	0.1	|	7.27	26.69	0.795	1.29	6.46	|	|
14:52	0.5	3.4	0.1		7.27	26.66	0.787	1.23	5.10	|	|

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. Arenas / TCG	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 14:53	SAMPLING ENDED AT: 14:58
PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-62	1	AG	1L	Ice	—	—	PAH	APP	400
MW-62	1	PE	250mL	HNO3+Ice	—	<2	Metals	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Former FPL Cutler Plant	SITE LOCATION: Miami, Florida	
WELL NO: MW-A2R	SAMPLE ID: MW-A2R	DATE: 11/28/2018

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 14.19	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (18 feet – 14.19 feet) X 0.16 gallons/foot = 0.61 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16	PURGING INITIATED AT: 12:55	PURGING ENDED AT: 13:12	TOTAL VOLUME PURGED (gallons): 3.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:00	1.0	1.0	0.2	14.82	7.24	27.13	0.493	1.07	22.3	clear	None
13:03	0.6	1.6	0.2	|	7.23	27.17	0.493	0.97	16.5	|	|
13:06	0.6	2.2	0.2	|	7.22	27.33	0.490	0.97	11.4	|	|
13:09	0.6	2.8	0.2	|	7.22	27.38	0.488	0.95	11.3	|	|
13:12	0.6	3.4	0.2	|	7.22	27.47	0.485	0.89	10.9	|	|

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. Arnas / TCG	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 13:13	SAMPLING ENDED AT: 13:17
PUMP OR TUBING DEPTH IN WELL (feet): 16	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-A2R	1	AG	1L	Ice	—	—	PAH	APP	400
MW-A2R	1	PE	250mL	HNO_3+Ice	—	<2	Metals	APP	400

REMARKS:

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Former FPL Cutler Plant	SITE LOCATION: Miami, Florida	
WELL NO: MW-BSR	SAMPLE ID: MW-BSR	DATE: 11/28/2018

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 5.25	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 5.25 feet) X 0.16 gallons/foot = 1.24 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 11:33	PURGING ENDED AT: 12:30	TOTAL VOLUME PURGED (gallons): 6.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:40	1.4	1.4	0.2	6.10	7.23	26.81	1.743	2.63	141	Cloudy	None
11:45	0.5	1.9	0.1		7.21	26.84	1.741	2.06	291		
11:50	0.5	2.4	0.1		7.20	26.67	1.740	1.70	273		
11:55	0.5	2.9	0.1		7.19	26.65	1.743	1.50	201		
12:00	0.5	3.4	0.1		7.19	26.64	1.747	1.53	173		
12:05	0.5	3.9	0.1		7.19	26.65	1.748	1.46	118		
12:10	0.5	4.4	0.1		7.18	26.68	1.750	1.41	93.6		
12:15	0.5	4.9	0.1		7.18	26.67	1.751	1.42	75.3		
12:20	0.5	5.4	0.1		7.18	26.69	1.752	1.44	59.6		
12:25	0.5	5.9	0.1		7.18	26.62	1.752	1.44	55.4		
12:30	0.5	6.4	0.1		7.18	26.52	1.754	1.46	38.6		

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. Arenas / TCG	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 12:31	SAMPLING ENDED AT: 12:39
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-BSR	1	AG	1L	Ice	—	—	PAH	APP	200
MW-BSR	1	PE	250mL	HNO_3+Ice	—	<2	Metals	APP	200

REMARKS: Turbidity < 20 NTUs could not be reached after purging in excess of 5 well volumes

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

3600 Hacienda Blvd., Ste C
Ft. Lauderdale, FL 33314
Toll Free: 877-259-7463

Pine Environmental Services, Inc.

Instrument ID 18938
Description YSI 556
Calibrated 11/26/2018 10:19:48AM

Manufacturer YSI
Model Number 556
Serial Number/ Lot Number 10B101572
Location Fort Lauderdale
Department

State Certified
Status Pass
Temp °C 24
Humidity % 56

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
7.00 / 7.00	PH	7.00	PH	6.99	7.00	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	4.08	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.00	10.03	0.30%	Pass

Group # 2
Group Name Conductivity
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
1.413 / 1.413	ms/cm	1.413	ms/cm	1.359	1.413	0.00%	Pass

Group # 3
Group Name Redox (ORP)
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
240.00 / 240.00	mv	240.00	mv	244.10	240.00	0.00%	Pass

Group # 4
Group Name Disolved Oxygen Span
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
100.00 / 100.00	%	100.00	%	102.60	100.60	0.60%	Pass

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

3600 Hacienda Blvd., Ste C
Ft. Lauderdale, FL 33314
Toll Free: 877-259-7463

Pine Environmental Services, Inc.

Instrument ID 18938
Description YSI 556
Calibrated 11/26/2018 10:19:48AM

Test Instruments Used During the Calibration **(As Of Cal Entry Date)**

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
FTL COND 1413 LOT# 8GG805	FTL CONDUCTIVITY 1413 uS/cm LOT# 8GG805	AquaPhoenix Scientific	FTL COND 1413	8GG805		6/30/2019
FTL ORP 240 LOT# 3054	FTL ORP 240 mV LOT# 3054	Hanna	FTL ORP 240	3054		6/30/2023
FTL PH 10 LOT# 8GG016	FTL PH 10 LOT# 8GG016	AquaPhoenix Scientific	FTL PH 10	8GG016		7/30/2020
FTL PH 4 LOT# 8GG386	FTL PH 4 LOT# 8GG386	AquaPhoenix Scientific	FTL PH 4	8GG386		7/30/2020
FTL PH 7 LOT# 8GG097	FTL PH 7 LOT# 8GG097	AquaPhoenix Scientific	FTL PH 7	8GG097		7/30/2020

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Benel Elyze

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

Boldly "X" this box if there is qualified data on this page.

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter ID: _____ RQ- _____ Project: _____

Notes: (1) Always wait for meter to stabilize before recording any readings.
(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.										P / F	L / F
ICV	Carolina A.	11/28/18	9:32	23.89	8.434	8.40	102.2			(P) / F	L / (F)
CCV	Carolina A.	11/28/18	14:09	24.06	8.403	8.68	101.1			(P) / F	L / (F)
CCV	Carolina A.	11/29/18	8:46	21.59	8.880	8.66	100.1			(P) / F	(L) / F

DO Acceptance criteria from Table ± 0.3 mg/L.
Optical: DO gain range 0.85 to 1.15; DO charge N/A.
Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.								P / F	L / F
ICV	Carolina A.	11/28/18	9:36	86H1120	08/2019	1.413	1.380	(P) / F	L / (F)
CCV	Carolina A.	11/28/18	14:15	86H1120	08/2019	1.413	1.379	(P) / F	L / (F)
CCV	Carolina A.	11/29/18	8:50	86H1120	08/2019	1.413	1.382	(P) / F	(L) / F

Conductivity Acceptance criteria ± 5%

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.						7.0			P / F	L / F
Calibr.						4.0			P / F	L / F
Calibr.						10.0			P / F	L / F
ICV	Carolina A.	11/28/18	9:42	86J877	10/2020	7.0	7.08		(P) / F	L / (F)
CCV	Carolina A.	11/28/18	14:17	86J877	10/2020	7.0	7.12		(P) / F	L / (F)
CCV	Carolina A.	11/29/18	8:54	86J877	10/2020	7.0	7.02		(P) / F	(L) / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Form effective October 1, 2017