



Hydrogeologist
Palm Beach Solid Waste Authority
7501 N. Jog Rd.
West Palm Beach, FL 33412

Pace Project Number: 35483635
Report Period: 2019/Q3

Client Project ID: CCTS Monitoring Wells

RECEIVED
AUG 7, 2019

Lab Sample ID	Client Sample ID
35483635001	CTMW-4I
35483635002	CTMW-4S
35483635003	CTSFD-072219
35483635004	CTMW-3I
35483635005	CTMW-3S
35483635006	CTMW-2I
35483635007	CTMW-2S
35483635008	Metal Trip Blank

Sincerely,

Martha Montero

Florida Certifications:

E83079 - Ormond Beach
E86240 - South Florida



CASE NARRATIVE SUMMARY

Client Name: Palm Beach Solid Waste Authority
Project Name: CCTS Monitoring Wells

Pace Project Number: 35483635

Date Received: 07/22/2019

Report Date: 08/06/2019

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

Pace Analytical Services, Inc.

Project Name : CCTS Monitoring Wells

Diameter (in) : 2

Depth to Water (ft) 12.62

Total Depth (ft) : 69.42

Top of Casing (ft) : 21.07

Order # : 35483635001

Sheen : None

Color : Light Yellow

Odor : None

Matrix : Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01
 Test Site ID # : PBCC08
 Well Name : CTMW-4I
 Classification of Ground Water G-II
 Groundwater Elevation 8.45

Sampling Date/Time : 07/22/2019 09:57
 Report Period : 2019/Q3
 Well Purge (Y/N) : Y
 Well Type : () Background (X) Compliance
 () Intermediat () Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	

FIELD

000537	Field Specific Conductance	Grab	N		07/22/2019 09:57	485 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		07/22/2019 09:57	27.0 deg C			deg C	1
000664	Field pH	Grab	N		07/22/2019 09:57	6.58 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		07/22/2019 09:57	0.46 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/01/2019 13:12	23.5 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	08/01/2019 13:12	15.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/31/2019 10:32	0.21 mg/L	0.035	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/30/2019 11:24	0.48 I mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/23/2019 07:06	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	07/31/2019 07:30	27.7 mg/L	12.5	20.0	mg/L	1
	Threshold Odor Number	Grab	N	SM 2150B	07/22/2019 17:45	1.0N2 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	07/31/2019 13:36	187 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/25/2019 19:17	259 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2F	07/23/2019 16:46	0.40 mg/L	0.10	0.10	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/24/2019 08:25	<0.099 mg/L	0.099	0.20	mg/L	1
	True Color	Grab	N	SM2120B-01	07/24/2019 09:40	50.0 units	5.0	5.0	units	1

INORGANICS

001007	Barium	Grab	N	EPA 6010	07/23/2019 21:03	8.2 I ug/L	0.84	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	07/23/2019 21:03	<0.33 ug/L	0.33	1.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	07/23/2019 21:03	2.0 I ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	07/23/2019 21:03	499 ug/L	9.2	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	07/23/2019 21:03	<4.6 ug/L	4.6	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	07/23/2019 21:03	<8.5 ug/L	8.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	07/23/2019 21:03	15.3 mg/L	0.27	2.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	07/23/2019 09:28	0.53 I ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	07/23/2019 09:28	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	07/31/2019 09:44	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Petroleum Range Organics	Grab	N	FL-PRO	07/24/2019 23:20	<0.76 mg/L	0.76	0.95	mg/L	1
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Pace Analytical Services, Inc.

Project Name : CCTS Monitoring Wells

Order # : 35483635002

Diameter (in) : 2

Sheen : None

Depth to Water (ft) 12.50

Color : Light Yellow

Total Depth (ft) : 32.45

Odor : None

Top of Casing (ft) : 20.95

Matrix : Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01
 Test Site ID # : PBCC07
 Well Name : CTMW-4S
 Classification of Ground Water G-II
 Groundwater Elevation 8.45

Sampling Date/Time : 07/22/2019 10:03
 Report Period : 2019/Q3
 Well Purge (Y/N) : Y
 Well Type : () Background (X) Compliance
 () Intermediat () Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	
FIELD									
000537	Field Specific Conductance	Grab	N		07/22/2019 10:03	425 umhos/cm		umhos/cm	1
000010	Field Temperature	Grab	N		07/22/2019 10:03	27.0 deg C		deg C	1
000664	Field pH	Grab	N		07/22/2019 10:03	6.44 Std. Units		Std. Units	1
082078	Turbidity	Grab	N		07/22/2019 10:03	1.77 NTU		NTU	1
OTHER									
000593	Chloride	Grab	N	EPA 300.0	08/01/2019 13:34	21.5 mg/L	2.5	5.0	mg/L 1
000945	Sulfate	Grab	N	EPA 300.0	08/01/2019 13:34	11.4 mg/L	2.5	5.0	mg/L 1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/31/2019 10:34	0.084 mg/L	0.035	0.050	mg/L 1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/30/2019 11:25	0.62 mg/L	0.086	0.50	mg/L 1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/23/2019 07:34	<0.025 mg/L	0.025	0.050	mg/L 1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	07/31/2019 07:30	75.0 mg/L	12.5	20.0	mg/L 1
	Threshold Odor Number	Grab	N	SM 2150B	07/22/2019 17:45	4.0N2 TON	1.0	1.0	TON 1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	07/31/2019 13:42	157 mg/L	5.0	5.0	mg/L 1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/25/2019 19:17	238 mg/L	5.0	5.0	mg/L 1
000745	Sulfide	Grab	N	SM 4500-S2F	07/23/2019 16:46	0.32 mg/L	0.10	0.10	mg/L 1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/24/2019 08:25	<0.099 mg/L	0.099	0.20	mg/L 1
	True Color	Grab	N	SM2120B-01	07/24/2019 09:40	70.0 units	5.0	5.0	units 1
INORGANICS									
001007	Barium	Grab	N	EPA 6010	07/23/2019 21:13	13.0 ug/L	0.84	10.0	ug/L 1
001027	Cadmium	Grab	N	EPA 6010	07/23/2019 21:13	<0.33 ug/L	0.33	1.0	ug/L 1
001034	Chromium	Grab	N	EPA 6010	07/23/2019 21:13	3.5 ug/L	1.7	5.0	ug/L 1
001045	Iron	Grab	N	EPA 6010	07/23/2019 21:13	1080 ug/L	9.2	40.0	ug/L 1
000572	Lead	Grab	N	EPA 6010	07/23/2019 21:13	<4.6 ug/L	4.6	10.0	ug/L 1
001147	Selenium	Grab	N	EPA 6010	07/23/2019 21:13	<8.5 ug/L	8.5	15.0	ug/L 1
000929	Sodium	Grab	N	EPA 6010	07/23/2019 21:13	12.8 mg/L	0.27	2.0	mg/L 1
001002	Arsenic	Grab	N	EPA 6020	07/23/2019 09:40	2.6 ug/L	0.50	1.0	ug/L 1
001042	Copper	Grab	N	EPA 6020	07/23/2019 09:40	<0.93 ug/L	0.93	1.0	ug/L 1
000576	Mercury	Grab	N	EPA 7470	07/31/2019 09:55	<0.10 ug/L	0.10	0.20	ug/L 1
ORGANICS									
	Petroleum Range Organics	Grab	N	FL-PRO	07/24/2019 23:20	<0.74 mg/L	0.74	0.92	mg/L 1

Pace Analytical Services, Inc.

Project Name : CCTS Monitoring Wells

Order # : 35483635003

Diameter (in) :

Sheen : None

Depth to Water (ft)

Color : Light Yellow

Total Depth (ft) :

Odor : None

Top of Casing (ft) :

Matrix : Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01

Sampling Date/Time : 07/22/2019 10:03

Test Site ID # : NA

Report Period : 2019/Q3

Well Name : CTSF07-072219

Well Purge (Y/N) : Y

Classification of Ground Water G-II

Well Type : () Background () Compliance

Groundwater Elevation _____

() Intermediat (X) Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	

FIELD

000537	Field Specific Conductance	Grab	N		07/23/2019 09:53	425 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		07/23/2019 09:53	27.0 deg C			deg C	1
000664	Field pH	Grab	N		07/23/2019 09:53	6.44 Std. Units			Std. Units	1
000299	Oxygen, Dissolved	Grab	N		07/23/2019 09:53	1.06 mg/L			mg/L	1
082078	Turbidity	Grab	N		07/23/2019 09:53	1.77 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/01/2019 13:56	21.4 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	08/01/2019 13:56	11.3 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/31/2019 10:36	0.21 mg/L	0.035	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/30/2019 11:26	0.60 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/23/2019 07:36	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	07/31/2019 07:30	55.6 mg/L	12.5	20.0	mg/L	1
	Threshold Odor Number	Grab	N	SM 2150B	07/22/2019 17:45	4.0N2 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	07/31/2019 13:47	157 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/25/2019 19:17	264 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2F	07/23/2019 16:46	0.32 mg/L	0.10	0.10	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/24/2019 08:25	<0.099 mg/L	0.099	0.20	mg/L	1
	True Color	Grab	N	SM2120B-01	07/24/2019 09:40	70.0 units	5.0	5.0	units	1

INORGANICS

001007	Barium	Grab	N	EPA 6010	07/23/2019 21:17	13.0 ug/L	0.84	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	07/23/2019 21:17	<0.33 ug/L	0.33	1.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	07/23/2019 21:17	3.5 1 ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	07/23/2019 21:17	1080 ug/L	9.2	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	07/23/2019 21:17	<4.6 ug/L	4.6	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	07/23/2019 21:17	<8.5 ug/L	8.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	07/23/2019 21:17	13.0 mg/L	0.27	2.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	07/23/2019 09:43	2.6 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	07/23/2019 09:43	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	07/31/2019 09:57	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Petroleum Range Organics	Grab	N	FL-PRO	07/24/2019 23:33	<0.75 mg/L	0.75	0.93	mg/L	1
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Pace Analytical Services, Inc.

Project Name : CCTS Monitoring Wells

Order # : 35483635004

Diameter (in) : 2

Sheen : None

Depth to Water (ft) 14.70

Color : Light Yellow

Total Depth (ft) : 72.46

Odor : None

Top of Casing (ft) : 23.34

Matrix : Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01
 Test Site ID # : PBCC06
 Well Name : CTMW-3I
 Classification of Ground Water G-II
 Groundwater Elevation 8.64

Sampling Date/Time : 07/22/2019 11:05
 Report Period : 2019/Q3
 Well Purge (Y/N) : Y
 Well Type : () Background (X) Compliance
 () Intermediat () Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	
FIELD									
000537	Field Specific Conductance	Grab	N		07/22/2019 11:05	509 umhos/cm		umhos/cm	1
000010	Field Temperature	Grab	N		07/22/2019 11:05	26.4 deg C		deg C	1
000664	Field pH	Grab	N		07/22/2019 11:05	6.74 Std. Units		Std. Units	1
082078	Turbidity	Grab	N		07/22/2019 11:05	0.76 NTU		NTU	1
OTHER									
000593	Chloride	Grab	N	EPA 300.0	08/01/2019 14:17	28.3 mg/L	2.5	5.0	mg/L 1
000945	Sulfate	Grab	N	EPA 300.0	08/01/2019 14:17	21.1 mg/L	2.5	5.0	mg/L 1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/31/2019 10:37	0.66 mg/L	0.035	0.050	mg/L 1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/30/2019 11:28	0.88 mg/L	0.086	0.50	mg/L 1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/23/2019 07:48	0.17 mg/L	0.025	0.050	mg/L 1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	07/31/2019 07:30	26.3 mg/L	12.5	20.0	mg/L 1
	Threshold Odor Number	Grab	N	SM 2150B	07/22/2019 17:45	1.0N2 TON	1.0	1.0	TON 1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	07/31/2019 13:53	185 mg/L	5.0	5.0	mg/L 1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/25/2019 21:39	270 mg/L	5.0	5.0	mg/L 1
000745	Sulfide	Grab	N	SM 4500-S2F	07/23/2019 16:46	0.32 mg/L	0.10	0.10	mg/L 1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/24/2019 08:25	<0.099 mg/L	0.099	0.20	mg/L 1
	True Color	Grab	N	SM2120B-01	07/24/2019 10:40	25.0 units	5.0	5.0	units 1
INORGANICS									
001007	Barium	Grab	N	EPA 6010	07/23/2019 21:20	6.7 ug/L	0.84	10.0	ug/L 1
001027	Cadmium	Grab	N	EPA 6010	07/23/2019 21:20	<0.33 ug/L	0.33	1.0	ug/L 1
001034	Chromium	Grab	N	EPA 6010	07/23/2019 21:20	<1.7 ug/L	1.7	5.0	ug/L 1
001045	Iron	Grab	N	EPA 6010	07/23/2019 21:20	700 ug/L	9.2	40.0	ug/L 1
000572	Lead	Grab	N	EPA 6010	07/23/2019 21:20	<4.6 ug/L	4.6	10.0	ug/L 1
001147	Selenium	Grab	N	EPA 6010	07/23/2019 21:20	<8.5 ug/L	8.5	15.0	ug/L 1
000929	Sodium	Grab	N	EPA 6010	07/23/2019 21:20	21.9 mg/L	0.27	2.0	mg/L 1
001002	Arsenic	Grab	N	EPA 6020	07/23/2019 09:46	<0.50 ug/L	0.50	1.0	ug/L 1
001042	Copper	Grab	N	EPA 6020	07/23/2019 09:46	<0.93 ug/L	0.93	1.0	ug/L 1
000576	Mercury	Grab	N	EPA 7470	07/31/2019 10:03	<0.10 ug/L	0.10	0.20	ug/L 1
ORGANICS									
	Petroleum Range Organics	Grab	N	FL-PRO	07/24/2019 23:33	<0.73 mg/L	0.73	0.92	mg/L 1

Pace Analytical Services, Inc.

Project Name : CCTS Monitoring Wells

Order # : 35483635005

Diameter (in) : 2

Sheen : None

Depth to Water (ft) 14.70

Color : Clear

Total Depth (ft) : 36.30

Odor : None

Top of Casing (ft) : 23.35

Matrix : Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01
 Test Site ID # : PBCC05
 Well Name : CTMW-3S
 Classification of Ground Water G-II
 Groundwater Elevation 8.65

Sampling Date/Time : 07/22/2019 11:00
 Report Period : 2019/Q3
 Well Purge (Y/N) : Y
 Well Type : () Background (X) Compliance
 () Intermediat () Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	
FIELD									
000537	Field Specific Conductance	Grab	N		07/22/2019 11:00	230 umhos/cm			umhos/cm 1
000010	Field Temperature	Grab	N		07/22/2019 11:00	26.8 deg C			deg C 1
000664	Field pH	Grab	N		07/22/2019 11:00	6.75 Std. Units			Std. Units 1
082078	Turbidity	Grab	N		07/22/2019 11:00	0.71 NTU			NTU 1
OTHER									
000593	Chloride	Grab	N	EPA 300.0	08/01/2019 14:39	16.8 mg/L	2.5	5.0	mg/L 1
000945	Sulfate	Grab	N	EPA 300.0	08/01/2019 14:39	6.2 mg/L	2.5	5.0	mg/L 1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/31/2019 10:39	<0.035 mg/L	0.035	0.050	mg/L 1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/30/2019 11:29	0.14 I mg/L	0.086	0.50	mg/L 1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/23/2019 07:47	<0.025 mg/L	0.025	0.050	mg/L 1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	07/31/2019 07:30	<12.5 mg/L	12.5	20.0	mg/L 1
	Threshold Odor Number	Grab	N	SM 2150B	07/22/2019 17:45	1.0N2 TON	1.0	1.0	TON 1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	07/31/2019 13:58	72.1 mg/L	5.0	5.0	mg/L 1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/25/2019 21:39	138 mg/L	5.0	5.0	mg/L 1
000745	Sulfide	Grab	N	SM 4500-S2F	07/23/2019 16:46	<0.10 mg/L	0.10	0.10	mg/L 1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/24/2019 08:25	<0.099 mg/L	0.099	0.20	mg/L 1
	True Color	Grab	N	SM2120B-01	07/24/2019 10:40	<5.0 units	5.0	5.0	units 1
INORGANICS									
001007	Barium	Grab	N	EPA 6010	07/23/2019 21:23	4.2 I ug/L	0.84	10.0	ug/L 1
001027	Cadmium	Grab	N	EPA 6010	07/23/2019 21:23	<0.33 ug/L	0.33	1.0	ug/L 1
001034	Chromium	Grab	N	EPA 6010	07/23/2019 21:23	<1.7 ug/L	1.7	5.0	ug/L 1
001045	Iron	Grab	N	EPA 6010	07/23/2019 21:23	50.2 ug/L	9.2	40.0	ug/L 1
000572	Lead	Grab	N	EPA 6010	07/23/2019 21:23	<4.6 ug/L	4.6	10.0	ug/L 1
001147	Selenium	Grab	N	EPA 6010	07/23/2019 21:23	<8.5 ug/L	8.5	15.0	ug/L 1
000929	Sodium	Grab	N	EPA 6010	07/23/2019 21:23	7.3 mg/L	0.27	2.0	mg/L 1
001002	Arsenic	Grab	N	EPA 6020	07/23/2019 09:56	<0.50 ug/L	0.50	1.0	ug/L 1
001042	Copper	Grab	N	EPA 6020	07/23/2019 09:56	<0.93 ug/L	0.93	1.0	ug/L 1
000576	Mercury	Grab	N	EPA 7470	07/31/2019 10:06	<0.10 ug/L	0.10	0.20	ug/L 1
ORGANICS									
	Petroleum Range Organics	Grab	N	FL-PRO	07/25/2019 00:00	<0.74 mg/L	0.74	0.93	mg/L 1

Pace Analytical Services, Inc.

Project Name : CCTS Monitoring Wells

Order # : 35483635006

Diameter (in) : 2

Sheen : None

Depth to Water (ft) 13.65

Color : Light Yellow

Total Depth (ft) : 72.65

Odor : None

Top of Casing (ft) : 22.10

Matrix : Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01

Sampling Date/Time : 07/22/2019 11:50

Test Site ID # : PBCC04

Report Period : 2019/Q3

Well Name : CTMW-2I

Well Purge (Y/N) : Y

Classification of Ground Water G-II

Well Type : () Background (X) Compliance

Groundwater Elevation 8.45

() Intermediat () Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	

FIELD

000537	Field Specific Conductance	Grab	N		07/22/2019 11:50	427 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		07/22/2019 11:50	26.9 deg C			deg C	1
000664	Field pH	Grab	N		07/22/2019 11:50	7.04 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		07/22/2019 11:50	0.18 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/01/2019 15:45	21.6 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	08/01/2019 15:45	9.3 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/31/2019 10:40	0.13 mg/L	0.035	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/30/2019 11:30	0.29 I mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/23/2019 08:05	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	07/31/2019 07:30	14.7 I mg/L	12.5	20.0	mg/L	1
	Threshold Odor Number	Grab	N	SM 2150B	07/22/2019 17:45	1.0N2 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	07/31/2019 14:03	168 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/25/2019 21:39	234 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2F	07/23/2019 16:46	0.32 mg/L	0.10	0.10	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/24/2019 08:25	<0.099 mg/L	0.099	0.20	mg/L	1
	True Color	Grab	N	SM2120B-01	07/24/2019 10:40	<5.0 units	5.0	5.0	units	1

INORGANICS

001007	Barium	Grab	N	EPA 6010	07/23/2019 21:27	10.2 ug/L	0.84	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	07/23/2019 21:27	<0.33 ug/L	0.33	1.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	07/23/2019 21:27	<1.7 ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	07/23/2019 21:27	794 ug/L	9.2	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	07/23/2019 21:27	<4.6 ug/L	4.6	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	07/23/2019 21:27	<8.5 ug/L	8.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	07/23/2019 21:27	14.1 mg/L	0.27	2.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	07/23/2019 09:59	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	07/23/2019 09:59	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	07/31/2019 10:08	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Petroleum Range Organics	Grab	N	FL-PRO	07/25/2019 00:00	<0.76 mg/L	0.76	0.95	mg/L	1
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Pace Analytical Services, Inc.

Project Name : CCTS Monitoring Wells

Order # : 35483635007

Diameter (in) : 2

Sheen : None

Depth to Water (ft) 13.73

Color : Clear

Total Depth (ft) : 37.31

Odor : None

Top of Casing (ft) : 22.15

Matrix : Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01

Sampling Date/Time : 07/22/2019 11:39

Test Site ID # : PBCC03

Report Period : 2019/Q3

Well Name : CTMW-2S

Well Purge (Y/N) : Y

Classification of Ground Water G-II

Well Type : () Background (X) Compliance

Groundwater Elevation 8.42

() Intermediat () Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	
FIELD									
000537	Field Specific Conductance	Grab	N		07/22/2019 11:39	403 umhos/cm		umhos/cm	1
000010	Field Temperature	Grab	N		07/22/2019 11:39	27.0 deg C		deg C	1
000664	Field pH	Grab	N		07/22/2019 11:39	6.86 Std. Units		Std. Units	1
082078	Turbidity	Grab	N		07/22/2019 11:39	3.97 NTU		NTU	1
OTHER									
000593	Chloride	Grab	N	EPA 300.0	08/01/2019 16:07	36.5 mg/L	2.5	5.0	mg/L 1
000945	Sulfate	Grab	N	EPA 300.0	08/01/2019 16:07	16.4 mg/L	2.5	5.0	mg/L 1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/31/2019 10:42	0.091 mg/L	0.035	0.050	mg/L 1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/30/2019 11:31	0.38 I mg/L	0.086	0.50	mg/L 1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/23/2019 07:56	<0.025 mg/L	0.025	0.050	mg/L 1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	07/31/2019 07:30	17.3 I mg/L	12.5	20.0	mg/L 1
	Threshold Odor Number	Grab	N	SM 2150B	07/22/2019 17:45	2.0N2 TON	1.0	1.0	TON 1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	07/31/2019 14:09	114 mg/L	5.0	5.0	mg/L 1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/25/2019 21:39	240 mg/L	5.0	5.0	mg/L 1
000745	Sulfide	Grab	N	SM 4500-S2F	07/23/2019 16:46	0.24 mg/L	0.10	0.10	mg/L 1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/24/2019 08:25	<0.099 mg/L	0.099	0.20	mg/L 1
	True Color	Grab	N	SM2120B-01	07/24/2019 10:40	10.0 units	5.0	5.0	units 1
INORGANICS									
001007	Barium	Grab	N	EPA 6010	07/23/2019 21:30	10.6 ug/L	0.84	10.0	ug/L 1
001027	Cadmium	Grab	N	EPA 6010	07/23/2019 21:30	<0.33 ug/L	0.33	1.0	ug/L 1
001034	Chromium	Grab	N	EPA 6010	07/23/2019 21:30	<1.7 ug/L	1.7	5.0	ug/L 1
001045	Iron	Grab	N	EPA 6010	07/23/2019 21:30	1150 ug/L	9.2	40.0	ug/L 1
000572	Lead	Grab	N	EPA 6010	07/23/2019 21:30	<4.6 ug/L	4.6	10.0	ug/L 1
001147	Selenium	Grab	N	EPA 6010	07/23/2019 21:30	<8.5 ug/L	8.5	15.0	ug/L 1
000929	Sodium	Grab	N	EPA 6010	07/23/2019 21:30	15.5 mg/L	0.27	2.0	mg/L 1
001002	Arsenic	Grab	N	EPA 6020	07/23/2019 10:02	2.4 ug/L	0.50	1.0	ug/L 1
001042	Copper	Grab	N	EPA 6020	07/23/2019 10:02	<0.93 ug/L	0.93	1.0	ug/L 1
000576	Mercury	Grab	N	EPA 7470	07/31/2019 10:10	<0.10 ug/L	0.10	0.20	ug/L 1
ORGANICS									
	Petroleum Range Organics	Grab	N	FL-PRO	07/25/2019 00:13	<0.79 mg/L	0.79	0.99	mg/L 1

Pace Analytical Services, Inc.

Project Name : CCTS Monitoring Wells

Order # : 35483635008

Diameter (in) :

Sheen :

Depth to Water (ft)

Color :

Total Depth (ft) :

Odor :

Top of Casing (ft) :

Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01

Sampling Date/Time : 07/22/2019 00:01

Test Site ID # : NA

Report Period : 2019/Q3

Well Name : Metal Trip Blank

Well Purge (Y/N) : N

Classification of Ground Water Trip Blank

Well Type : () Background (X) Compliance

Groundwater Elevation _____

() Intermediat () Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	

INORGANICS

001007	Barium	Grab	N	EPA 6010	07/23/2019 21:34	<0.84 ug/L	0.84	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	07/23/2019 21:34	<0.33 ug/L	0.33	1.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	07/23/2019 21:34	<1.7 ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	07/23/2019 21:34	<9.2 ug/L	9.2	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	07/23/2019 21:34	<4.6 ug/L	4.6	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	07/23/2019 21:34	<8.5 ug/L	8.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	07/23/2019 21:34	<0.27 mg/L	0.27	2.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	07/23/2019 10:05	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	07/23/2019 10:05	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	07/31/2019 10:12	<0.10 ug/L	0.10	0.20	ug/L	1

MO# : 35483635

Page 1 of 2

PBC SWA
Company Name

2501 N. Jog Road, WPB, FL 33412

Contact: Managing Hydrogeologist

Phone: 561 640-4000

Fax: 561 640-3400

Project: **CENTRAL COUNTY TRANSFER STATION MOBILITY CINK**

Name: **Bill Rogers**

Signature: *Bill Rogers*

Circle One Event: Daily Weekly Monthly

Quantity: Semi-Annual Annual N/A

Prof # **WALLS**

Container Type Codes

AV Amber Vial ES Enone Sampler
 CV Clear Vial PVV Prepared vial
 AL Amber Lier PLG Plastic container
 CL Clear Lier Z Zipper bag
 AP Amber Plastic WP Teller bag
 AG Amber Glass WP Vial pack
 SJ Soil Jar G Gallon Jug
 Other TC Tern-core

Prepared Vial
 Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other _____
 40ml 500ml 250ml 125ml
 Example: 4ozP = 4oz Plastic, 6ozSSJ = 6oz Soil Jar

Matrix Codes

SD Solid Waste
 GW Ground Water
 EFF Effluent
 AFV Analyte Free H2O
 WW Waste Water
 DW Drinking Water
 SW Surface Water
 ML Misc. Liquid

CL Oil
 SI Sludge
 SO Soil Sediment
 AQ Aqueous
 NA Nonaqueous
 PE Petroleum
 O Other (Please specify)

Preservative Type Codes

A. None E. HCL I. Ice
 B. HNO3 F. MeOH J. MCAA
 C. H2SO4 G. Na2S2O3 K. Zn Acetate
 D. NaOH H. NaHSO4 O. Other

REMARKS

PROFILE 3195

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Preservative	Volume	Container	Field Use
1	CTMU-4i	7-22-19	9:57	GW		8		
2	CTMU-4s		16:03	GW		8		
3	CTSFD-073219		10:03	AGW		8		
4	CTMU-3i		11:05	GW		8		
5	CTMU-3s		11:00	GW		8		
6	CTMU-2i		11:50	GW		8		
7	CTMU-2s	7-22-19	11:39	GW		8		
8								
9	METAL TRAP BANK					3		
10								

Item	Retrieved by	Analysis	Date	Time	Revised by	Date	Time
1	Manny Alva		7/22/19	13:45			
2			7/22/19	16:45			
3							
4							

Field Use Only

13-72-113-044-5

Non-Conformance Found? YES NO N/A

Samples IN/FACT upon arrival?

Received on Vial Ice?

Proper Preservatives Indicated?

Received within holding time?

Outside seals intact?

Vials/ies read without headspace?

Proper Containers Used?

SOLID WASTE AUTHORITY

DIVISION OF ENVIRONMENTAL PROGRAMS

FIELD DUPLICATE DATA SHEET

Sample Type: GRAB
 Site Identification: Central County Transfer Station

Date: 7-22-19

Sample I.D. CTSFD-072219

Time: 10:03

Field duplicates are collected in the field randomly during the sampling process by filling the appropriate sampling bottle and the identical field duplicate bottle in rapid succession. This process is repeated until both sets of sampling bottles are filled.

Notes and comments
 SUNNY & WARM
 pH < 2
 in preservative

Field Parameters		Units	Sample
Temperature	27.0	C	Appearance
Cond: X	425	uMHOS/cm	CLEAR OR LIGHT YELLOW NO OOR
	ATC		
pH	6.44	Std Units	NO SHEEN
DO	1.06	mg/L	
Turbidity	1.77	ntu	

Quantity	Size	Type	Preservative	Sample Container Inventory	Analysis

Sampled By: BILL ROGERS
MANNY ALVAREZ

Method of Shipment: PACE

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC04	DATE: 7-22-19
WELL NO: CTMW-2I	Well Type: Compliance	Well Location: West of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 22.10	Static Depth To Water (ft): 13.65	Water Table Elevation NGVD (ft): 8.45	Column Height (ft): 59.00	Total Well Depth (ft): 72.65'
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 x 10 = (72.65 - 13.65 = 59.00) X 0.16 = 9.44 GALLONS 10			
WELL CAPACITY (gal/ft): 0.16				

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 11:25	PURGE ENDED AT: 11:49	TOTAL VOL. PURGED (gal): 30
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WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	10	10	1.25	13.95	6.90	26.7	426	1.17	0.39
1	10	20		13.95	6.95	26.7	429	1.08	0.16
1	10	30		13.95	7.04	26.9	427	1.32	0.18

FINAL FIELD VALUES →	ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
	_____	7.04	26.9	427	_____	0.18

Color: LIGHT YELLOW	Odor: NO	Sheen: NO	Comments
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			

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 11:50	SAMPLING ENDED AT: 11:54	Weather: SUNNY + HOT			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y <input checked="" type="checkbox"/>				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED		TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH
1	HDPE	1- LITER	HNO3			62
2	HDPE		H2SO4			Ammonia

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

SAMPLED BY (PRINT) Bill Rogers Manny Alvarez	SAMPLER(S) SIGNATURE(S) Bill Rogers
--	---

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC03	DATE: 7-22-19
WELL NO: CTMW- 2S	Well Type: Compliance	Well Location: West of retention Pond	SITE LOCATION: 1810 Lantana Road, Lantana, FL

PURGING DATA

Top of Casing Elevation(ft): 22.15	Static Depth To Water (ft): 13.73	Water Table Elevation NGVD (ft): 8.42	Column Height (ft): 23.58	Total Well Depth (ft): 37.31'
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3x4			
WELL CAPACITY (gal/ft): 0.16	= (37.31 - 13.73 = 23.58) X 0.16 = 3.77 GALLONS 4			

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 11:24	PURGE ENDED AT: 11:38	TOTAL VOL. PURGED (gal): 12
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WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	4	4	.86	13.85	6.81	27.2	397	0.97	6.70
1	4	8		13.85	6.84	27.1	404	0.88	6.07
1	4	12		13.85	6.86	27.0	403	0.77	3.97

FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					6.86	27.0	403		3.97

Color: CLEAR	Odor: NO	Sheen: NO	Comments
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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

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 11:39	SAMPLING ENDED AT: 11:43	Weather: SUNNY + HOT			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y <input checked="" type="radio"/> N				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED		TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH
1	HDPE	1- LITER	HNO3			
2	HDPE		H2SO4		42	Metals Ammonia

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

SAMPLED BY (PRINT) Bill Rogers Manny Alvarez	SAMPLER(S) SIGNATURE(S) <i>Bill Rogers Manny Alvarez</i>
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Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC06	DATE: 7-22-19
WELL NO: CTMW-3I	Well Type: Compliance	Well Location: South of retention Pond	SITE LOCATION: 1810 Lantana Road, Lantana, FI

PURGING DATA

Top of Casing Elevation (ft): 23.34	Static Depth To Water (ft): 14.70	Water Table Elevation NGVD (ft): 8.64	Column Height (ft): 57.76	Total Well Depth (ft): 72.46'
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 x 10			
WELL CAPACITY (gal/ft): 0.16	= (72.46' - 14.70 = 57.76) X 0.16 = 9.24 GALLONS/10			

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 10:43	PURGE ENDED AT: 11:04	TOTAL VOL. PURGED (gal): 30
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WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	10	10	1.43	14.95	6.69	26.6	509	1.17	8.66
1	10	20		14.95	6.63	26.4	511	1.05	2.12
1	10	30		14.95	6.74	26.4	509	1.19	0.76

FINAL FIELD VALUES →	ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
		6.74	26.4	509		0.76

Color: LIGHT YELLOW	Odor: NO	Sheen: NO	Comments
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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

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 11:05	SAMPLING ENDED AT: 11:09	Weather: SUNNY & HOT			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED		TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH
1	HDPE	1- LITER	HNO3			62
2	HDPE		H2SO4			Metals
						Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) Bill Rogers Manny Alvarez				SAMPLER(S) SIGNATURE(S) Bill Rogers		

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC05	DATE: 7-22-19
WELL NO: CTMW- 3S	Well Type: Compliance	Well Location: South of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 23.35	Static Depth To Water (ft): 14.70	Water Table Elevation NGVD (ft): 8.65	Column Height (ft): 21.60	Total Well Depth (ft): 36.30'
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3x4			
WELL CAPACITY (gal/ft): 0.16	= (36.30 - 14.70 = 21.60) X 0.16 = 3.46 GALLONS 4			

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 10:43	PURGE ENDED AT: 10:03	TOTAL VOL. PURGED (gal): 12
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WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	4	4	.60	14.87	6.84	26.9	229	1.11	12.70
1	4	8		14.87	6.75	26.8	231	0.99	2.50
1	4	12		14.87	6.75	26.8	230	0.87	0.71

FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
				—————	6.75	26.8	230	—————	0.71

Color: CLEAR	Odor: NO	Sheen: NO	Comments
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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

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 11:00	SAMPLING ENDED AT: 11:04	Weather: SUNNY + HOT
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y <input checked="" type="radio"/>	

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1	HDPE	1- LITER	HNO3			Metals
2	HDPE		H2SO4		6.2	Ammonia

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

SAMPLED BY (PRINT): Bill Rogers Manny Alvarez	SAMPLER(S) SIGNATURES: Bill Rogers
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Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC08	DATE: 7-22-19
WELL NO: CTMW-4I	Well Type: Compliance	Well Location: Park on Hillside Drive	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 21.07	Static Depth To Water (ft): 12.62	Water Table Elevation NGVD (ft): 8.45	Column Height (ft): 56.80	Total Well Depth (ft): 69.42'
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3x10			
WELL CAPACITY (gal/ft): 0.16	= (69.42' - 12.62 = 56.80) X 0.16 = 9.09 GALLONS/10			

PURGE METHOD: Redi-flo			PURGE INITIATED AT: 9:37	PURGE ENDED AT: 9:56	TOTAL VOL. PURGED (gal): 30				
WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	10	10	1.58	13.08	6.52	27.0	482	1.07	2.15
1	10	20		13.08	6.41	27.0	485	0.99	0.86
1	10	30		13.08	6.58	27.0	485	0.92	0.46

FINAL FIELD VALUES →	ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
	—————	6.58	27.0	485	—————	0.46

Color: LIGHT YELLOW	Odor: NO	Sheen: NO	Comments: N
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			

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 9:57	SAMPLING ENDED AT: 10:01	Weather: SUNNY + WARM			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED		TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH
1	HDPE	1-LITER	HNO3			6.2
2	HDPE		H2SO4			Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) Bill Rogers Manny Alvarez				SAMPLER(S) SIGNATURE(S) Bill Rogers		

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC07	DATE: 7-22-19
WELL NO: CTMW- 4S	Well Type: Compliance	Well Location: Park on Hillside Drive	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 20.95	Static Depth To Water (ft): 12.50	Water Table Elevation NGVD (ft): 8.45	Column Height (ft): 19.95	Total Well Depth (ft): 32.45'					
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 x 4								
WELL CAPACITY (gal/ft): 0.16	= (32.45' - 12.50 = 19.95) X 0.16 = 3.19 GALLONS 4								
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 9:37	PURGE ENDED AT: 10:02	TOTAL VOL. PURGED (gal): 16					
WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	4	4	.64	12.61	6.45	26.2	419	1.14	7.38
1	4	8		12.61	6.37	26.9	425	1.22	7.23
1	4	12		12.61	6.54	26.9	429	1.01	3.16
1	4	16		12.61	6.44	27.0	425	1.06	1.77
FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					6.44	27.0	425		1.77
Color: LIGHT Yellow	Odor: NO	Sheen: NO	Comments						
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									

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 10:03	SAMPLING ENDED AT: 10:07	Weather: SUNNY + WARM			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: (Y) OR				
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1	HDPE	1- LITER	HNO3		6.2	Metals
2	HDPE		H2SO4			Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) Bill Rogers Manny Alvarez				SAMPLER(S) SIGNATURE(S) Bill Rogers		

CENTRAL COUNTY TRANSFER STATION MONITORING WELLS

SWA PERMIT # C.O.A.F.5.E I & II

8 Monitoring Wells: CTMW-1S, CTMW-1I, CTMW-2S, CTMW-2I,
CTMW-3S, CTMW-3I, CTMW-4S, CTMW-4I

1 Field Duplicate (CTSFD-)

1 Field Blank (CTSF Blank)

Parameters (Matrix: Ground Water)

A. Metals

Arsenic	Chromium	Lead	Sodium
Barium	Copper	Mercury	Selenium
Cadmium	Iron		

B. Indicator Parameters

Ammonia Nitrogen	Foaming Agents (MBAS)	Nitrate N
Total Alkalinity	Sulfide	Odor
C.O.D.	TKN (Total Kjehdahl Nitrogen)	Sulfate
Color	TDS (Total Dissolved Solids)	
Chloride	TRPH (Total Recoverable Petroleum Hydrocarbons)	

C. Field Parameters

Conductivity (field)	pH (field)
Temperature (field)	Turbidity (field)

D. Well Information (field)

Well Diameter	Well Depth
Well Casing Elevation	Depth to Water
Water Table Elevation	Volume Evacuated

2 of 2 coc # 146137



Document Name: Sample Condition Upon Receipt Form
 Document No: F-FLC-007 rev 13

Document Revised: May 30, 2018
 Issuing Authority: Pace Florida Quality Office

WO#: 35483635 **m (SCUR)**

Project: **PM: MIM** Due Date: **07/31/19**
 Project Manager: **CLIENT: 36-PBCSWA**
 Client:

Date and Initials of person:
 Examining contents: _____
 Label: _____
 Deliver: _____
 pH: _____

Thermometer Used: F330 Date: 7-22-19 Time: 16:45 Initials: WD

State of Origin: FL For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C	<u>3.7</u> (Visual)	<u>0.0</u> (Correction Factor)	<u>3.7</u> (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #2 Temp. °C	<u>1.1</u> (Visual)	<u>0.0</u> (Correction Factor)	<u>1.1</u> (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #3 Temp. °C	<u>-0.4</u> (Visual)	<u>+0.0</u> (Correction Factor)	<u>-0.4</u> (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #4 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #5 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #6 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
 Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Other _____
 Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Ice: Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: 7-22-19 Shorted Time: 1730 Qty: 7

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservation Information: Preservative _____ Lot #/Trace # _____ Date _____ Time _____ Initials _____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____