



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

Pace Project Number: 35483995  
Report Period: 2019/Q3

Client Project ID: CCTS Monitoring Wells

**RECEIVED**  
**AUG 7, 2019**

**Lab Sample ID**

**Client Sample ID**

35483995001	CTSF BLANK 072319
35483995002	CTMW-1i
35483995003	CTMW-1s
35483995004	METAL TRIP BLANK 072319

Sincerely,

A handwritten signature in black ink that reads "Martha Montero".

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: 35483995

Date Received: 07/23/2019

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

Order # : 35483995001

Diameter (in) :

Sheen : None

Depth to Water (ft)

Color : Clear

Total Depth (ft) :

Odor : None

Top of Casing (ft) :

Matrix : DI Water

**PARAMETER MONITORING REPORT**

**Part III Analytical Results**

Facility WACS ID : PBCC01

Sampling Date/Time : 07/23/2019 10:05

Test Site ID # : NA

Report Period : 2019/Q3

Well Name : CTSF BLANK 072319

Well Purge (Y/N) : NA

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 10:05	4.1 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		07/23/2019 10:05	23.5 deg C			deg C	1
000664	Field pH	Grab	N		07/23/2019 10:05	6.94 Std. Units			Std. Units	1
000299	Oxygen, Dissolved	Grab	N		07/23/2019 10:05	7.92 mg/L			mg/L	1
082078	Turbidity	Grab	N		07/23/2019 10:05	0.15 NTU			NTU	1

**OTHER**

000593	Chloride	Grab	N	EPA 300.0	08/02/2019 13:42	<2.5 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	08/02/2019 13:42	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/31/2019 13:53	<0.035 mg/L	0.035	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/31/2019 13:05	<0.086 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/24/2019 11:20	<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	13.8 mg/L	12.5	20.0	mg/L	1
	Threshold Odor Number	Grab	N	SM 2150B	07/23/2019 17:50	<1N2 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	07/31/2019 15:05	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/28/2019 19:08	<5.0 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2F	07/30/2019 18:07	<0.10 mg/L	0.10	0.10	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/25/2019 09:35	<0.099 mg/L	0.099	0.20	mg/L	1
	True Color	Grab	N	SM2120B-01	07/24/2019 10:41	<5.0 units	5.0	5.0	units	1

**INORGANICS**

001007	Barium	Grab	N	EPA 6010	07/26/2019 19:06	1.7 ug/L	0.84	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	07/26/2019 19:06	<0.33 ug/L	0.33	1.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	07/26/2019 19:06	<1.7 ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	07/26/2019 19:06	<9.2 ug/L	9.2	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	07/26/2019 19:06	<4.6 ug/L	4.6	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	07/26/2019 19:06	<8.5 ug/L	8.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	07/26/2019 19:06	<0.27 mg/L	0.27	2.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	07/29/2019 21:42	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	07/29/2019 21:42	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/01/2019 12:35	<0.10 ug/L	0.10	0.20	ug/L	1

**ORGANICS**

	Petroleum Range Organics	Grab	N	FL-PRO	07/27/2019 18:10	<0.77 mg/L	0.77	0.97	mg/L	1
--	--------------------------	------	---	--------	------------------	------------	------	------	------	---

**Pace Analytical Services, Inc.**

Project Name : CCTS Monitoring Wells

Order # : 35483995002

Diameter (in) : 2

Sheen : None

Depth to Water (ft) 13.80

Color : Light Yellow

Total Depth (ft) : 69.30

Odor : None

Top of Casing (ft) : 22.31

Matrix : Ground Water

**PARAMETER MONITORING REPORT**

Part III Analytical Results

Facility WACS ID : PBCC01

Sampling Date/Time : 07/23/2019 09:54

Test Site ID # : PBCC02

Report Period : 2019/Q3

Well Name : CTMW-1i

Well Purge (Y/N) : Y

Classification of Ground Water G-II

Well Type : ( ) Background ( X ) Compliance

Groundwater Elevation 8.51

( ) 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	
<b>FIELD</b>									
000537	Field Specific Conductance	Grab	N		07/23/2019 09:54	573 umhos/cm			umhos/cm 1
000010	Field Temperature	Grab	N		07/23/2019 09:54	27.6 deg C			deg C 1
000664	Field pH	Grab	N		07/23/2019 09:54	6.51 Std. Units			Std. Units 1
082078	Turbidity	Grab	N		07/23/2019 09:54	1.46 NTU			NTU 1
<b>OTHER</b>									
000593	Chloride	Grab	N	EPA 300.0	08/02/2019 14:04	24.7 mg/L	2.5	5.0	mg/L 1
000945	Sulfate	Grab	N	EPA 300.0	08/02/2019 14:04	19.3 mg/L	2.5	5.0	mg/L 1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/31/2019 13:55	0.29 mg/L	0.035	0.050	mg/L 1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/31/2019 13:08	0.61 mg/L	0.086	0.50	mg/L 1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/24/2019 11:11	<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	13.1 mg/L	12.5	20.0	mg/L 1
	Threshold Odor Number	Grab	N	SM 2150B	07/23/2019 17:50	3.0N2 TON	1.0	1.0	TON 1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	07/31/2019 15:11	224 mg/L	5.0	5.0	mg/L 1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/28/2019 19:08	306 mg/L	5.0	5.0	mg/L 1
000745	Sulfide	Grab	N	SM 4500-S2F	07/30/2019 18:07	0.16 mg/L	0.10	0.10	mg/L 1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/25/2019 09:35	<0.099 mg/L	0.099	0.20	mg/L 1
	True Color	Grab	N	SM2120B-01	07/24/2019 10:41	60.0 units	5.0	5.0	units 1
<b>INORGANICS</b>									
001007	Barium	Grab	N	EPA 6010	07/26/2019 00:24	18.4 ug/L	0.84	10.0	ug/L 1
001027	Cadmium	Grab	N	EPA 6010	07/26/2019 00:24	<0.33 ug/L	0.33	1.0	ug/L 1
001034	Chromium	Grab	N	EPA 6010	07/26/2019 00:24	2.2 ug/L	1.7	5.0	ug/L 1
001045	Iron	Grab	N	EPA 6010	07/26/2019 00:24	1350 ug/L	9.2	40.0	ug/L 1
000572	Lead	Grab	N	EPA 6010	07/26/2019 00:24	<4.6 ug/L	4.6	10.0	ug/L 1
001147	Selenium	Grab	N	EPA 6010	07/26/2019 00:24	<8.5 ug/L	8.5	15.0	ug/L 1
000929	Sodium	Grab	N	EPA 6010	07/26/2019 00:24	20.1 mg/L	0.27	2.0	mg/L 1
001002	Arsenic	Grab	N	EPA 6020	07/29/2019 21:45	0.54 ug/L	0.50	1.0	ug/L 1
001042	Copper	Grab	N	EPA 6020	07/29/2019 21:45	<0.93 ug/L	0.93	1.0	ug/L 1
000576	Mercury	Grab	N	EPA 7470	08/01/2019 12:37	<0.10 ug/L	0.10	0.20	ug/L 1
<b>ORGANICS</b>									
	Petroleum Range Organics	Grab	N	FL-PRO	07/27/2019 18:10	<0.73 mg/L	0.73	0.92	mg/L 1

**Pace Analytical Services, Inc.**

Project Name : CCTS Monitoring Wells

Order # : 35483995003

Diameter (in) : 2

Sheen : None

Depth to Water (ft) 13.77

Color : Light Yellow

Total Depth (ft) : 36.60

Odor : None

Top of Casing (ft) : 22.27

Matrix : Ground Water

**PARAMETER MONITORING REPORT**

**Part III Analytical Results**

Facility WACS ID : PBCC01  
 Test Site ID # : PBCC01  
 Well Name : CTMW-1s  
 Classification of Ground Water G-II  
 Groundwater Elevation 8.50

Sampling Date/Time : 07/23/2019 09:58  
 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	
<b>FIELD</b>									
000537	Field Specific Conductance	Grab	N		07/23/2019 09:58	284 umhos/cm		umhos/cm	1
000010	Field Temperature	Grab	N		07/23/2019 09:58	27.2 deg C		deg C	1
000664	Field pH	Grab	N		07/23/2019 09:58	6.71 Std. Units		Std. Units	1
082078	Turbidity	Grab	N		07/23/2019 09:58	0.91 NTU		NTU	1
<b>OTHER</b>									
000593	Chloride	Grab	N	EPA 300.0	08/02/2019 14:26	10.5 mg/L	2.5	5.0	mg/L 1
000945	Sulfate	Grab	N	EPA 300.0	08/02/2019 14:26	10.3 mg/L	2.5	5.0	mg/L 1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/31/2019 13:56	<0.035 mg/L	0.035	0.050	mg/L 1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/31/2019 13:09	0.16 I mg/L	0.086	0.50	mg/L 1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/24/2019 11:15	<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	37.4 mg/L	12.5	20.0	mg/L 1
	Threshold Odor Number	Grab	N	SM 2150B	07/23/2019 17:50	3.0N2 TON	1.0	1.0	TON 1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	07/31/2019 15:16	108 mg/L	5.0	5.0	mg/L 1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/28/2019 19:08	120 mg/L	5.0	5.0	mg/L 1
000745	Sulfide	Grab	N	SM 4500-S2F	07/30/2019 18:07	<0.10 mg/L	0.10	0.10	mg/L 1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/25/2019 09:35	<0.099 mg/L	0.099	0.20	mg/L 1
	True Color	Grab	N	SM2120B-01	07/24/2019 10:41	5.0 units	5.0	5.0	units 1
<b>INORGANICS</b>									
001007	Barium	Grab	N	EPA 6010	07/26/2019 00:28	7.8 I ug/L	0.84	10.0	ug/L 1
001027	Cadmium	Grab	N	EPA 6010	07/26/2019 00:28	<0.33 ug/L	0.33	1.0	ug/L 1
001034	Chromium	Grab	N	EPA 6010	07/26/2019 00:28	<1.7 ug/L	1.7	5.0	ug/L 1
001045	Iron	Grab	N	EPA 6010	07/26/2019 00:28	793 ug/L	9.2	40.0	ug/L 1
000572	Lead	Grab	N	EPA 6010	07/26/2019 00:28	<4.6 ug/L	4.6	10.0	ug/L 1
001147	Selenium	Grab	N	EPA 6010	07/26/2019 00:28	<8.5 ug/L	8.5	15.0	ug/L 1
000929	Sodium	Grab	N	EPA 6010	07/26/2019 00:28	11.9 mg/L	0.27	2.0	mg/L 1
001002	Arsenic	Grab	N	EPA 6020	07/29/2019 21:48	3.2 ug/L	0.50	1.0	ug/L 1
001042	Copper	Grab	N	EPA 6020	07/29/2019 21:48	<0.93 ug/L	0.93	1.0	ug/L 1
000576	Mercury	Grab	N	EPA 7470	08/01/2019 12:39	<0.10 ug/L	0.10	0.20	ug/L 1
<b>ORGANICS</b>									
	Petroleum Range Organics	Grab	N	FL-PRO	07/27/2019 18:24	<0.77 mg/L	0.77	0.97	mg/L 1

**Pace Analytical Services, Inc.**

Project Name : CCTS Monitoring Wells  
 Diameter (in) :  
 Depth to Water (ft)  
 Total Depth (ft) :  
 Top of Casing (ft) :

Order # : 35483995004  
 Sheen :  
 Color :  
 Odor :  
 Matrix : DI Water

**PARAMETER MONITORING REPORT**

Part III Analytical Results

Facility WACS ID : PBCC01  
 Test Site ID # : NA  
 Well Name : METAL TRIP BLANK 072319  
 Classification of Ground Water : Trip Blank  
 Groundwater Elevation : \_\_\_\_\_

Sampling Date/Time : 07/23/2019 09:58  
 Report Period : 2019/Q3  
 Well Purge (Y/N) : N  
 Well Type : ( ) Background (  ) 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	

**INORGANICS**

001007	Barium	Grab	N	EPA 6010	07/26/2019 19:11	<0.84 ug/L	0.84	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	07/26/2019 19:11	<0.33 ug/L	0.33	1.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	07/26/2019 19:11	<1.7 ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	07/26/2019 19:11	9.8 I ug/L	9.2	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	07/26/2019 19:11	<4.6 ug/L	4.6	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	07/26/2019 19:11	<8.5 ug/L	8.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	07/26/2019 19:11	<0.27 mg/L	0.27	2.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	07/29/2019 21:51	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	07/29/2019 21:51	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/01/2019 12:42	<0.10 ug/L	0.10	0.20	ug/L	1



MO#: 35483995



RECORD

Page 1 of 2

PBC SWA  
Company Name  
7501 N. Jog Road, WPB, FL 33412

Contact: Managing Hydrogeologist  
Phone: 561 640-4000 Fax#

Fax: 561 640-3400 Phone:

Project: CENTRAL COUNTY TRANSFER STATION MONITORING

Project # \_\_\_\_\_

Sampler Name: Bill Rogers

Signature: [Signature]

Circle One Event: Daily Weekly Monthly  
Semi-Annual Annual N/A

Sample ID	Collect Date	Collect Time	Collect Code	Parameters	UIC	USE	UIC	USE	UIC	USE	UIC	USE	UIC	USE	UIC	USE
1 CTSBARAK-072319	7-23-19	10:05	AFW	See page 3 Letter of: 7/2/19												
2 CTMW-1i	7-23-19	9:54	GW													
3 CTMW-1s	7-23-19	9:58	GW													
4																
5																
6 METAL TRIP BARAK																
7																
8																
9																
10																

Container Type Codes

AV Amber Vial	ES EnCore Sampler
CV Clear Vial	PPV Prepared vial
P Plastic	PLC Plastic container
AL Amber Litr	PLJ Plastic Jar
CL Clear Litr	Z Ziploc Bag
AP Amber Plastic	TB Teiler Bag
AG Amber Glass	WP Whirl Pak
SG Soil Jar	Y Gallon Jug
Other	TC Term-core

Matrix Codes

SD Soil Waste	OL Oil
GW Ground Water	SL Sludge
EFF Effluent	SA Aqueous
AFW Analyte Free H2O	NA Nonaqueous
WW Waste Water	PE Petroleum
WW Drinking Water	O Other
SW Wastewater	
SW Surface Water	
ML Misc. Liquid	

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

SEE FIELD SHEETS FOR FIELD PARAMETERS

Lab Use Only

Non-Container # \_\_\_\_\_

Samples In/FACT upon arrival?

Received on Vial(s)?

Proper Preservatives Indicated?

Received within holding time?

Outsiders seals intact?

Vial(s) rec'd without headspace?

Proper Containers Used?

Color # \_\_\_\_\_

Temp. C \_\_\_\_\_

1 022 3 4 5

C.O.C. Serial # 146139

Pompano Lab 954-582-4300

Revision: FALL-C-007 - Rev.00

# SOLID WASTE AUTHORITY

## DIVISION OF ENVIRONMENTAL PROGRAMS

### FIELD BLANK DATA SHEET

Sample Type: GRAB COMPOSITE  
 Site Identification: Central County Transfer Station

Date: 7-23-19

Sample I.D. CTSF BLANK-072319

Time: 10:05

Field blanks are collected in the field during the middle to the end of a sampling event by filling the sampling bottles directly from DI water obtained from the laboratory.

Notes and Comments  
 SUNNY &  
 HOT  
  
 PH < 2  
 in preservative

PACE DI  
 WATER  
 5-28-19  
 LOT#052319-  
 444

Field Parameters		Units	Sample
Temperature	23.5	C	Appearance
Cond: X	4.1 ATC	uMHOS/cm	CLEAR NO OOR NO SHEEN
PH	6.94	Std Units	
DO	7.92	Mg/L	
Turb	0.15	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: <b>Central County Transfer Station</b>		WACS Facility ID: <b>PBCC01</b> WACS Test Site ID: <b>PBCC02</b>	DATE: <b>7-23-19</b>
WELL NO: <b>CTMW-1I</b>	Well Type: <b>Compliance</b>	Well Location: North of retention Pond	SITE <b>1810 Lantana Road,</b> LOCATION: <b>Lantana, FI</b>

### PURGING DATA

Top of Casing Elevation(ft): <b>22.31</b>	Static Depth To Water (ft): <b>13.80</b>	Water Table Elevation NGVD (ft): <b>8.51</b>	Column Height (ft): <b>55.50</b>	Total Well Depth (ft): <b>69.30</b>					
WELLDIAMETER (in): <b>2" PVC</b>		1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = <b>3x9</b>							
WELL CAPACITY (gal/ft): <b>0.16</b>		= ( <b>69.30 - 13.80 = 55.50</b> ) X <b>0.16</b> = <b>8.88</b> GALLONS							
PURGE METHOD: <b>Redi-flo</b>		PURGE INITIATED AT: <b>9:33</b>	PURGE ENDED AT: <b>9:53</b>	TOTAL VOL. PURGED (gal): <b>27</b>					
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	9	9	1.35	14.25	6.55	27.6	573	1.12	6.08
1	9	18		14.25	6.49	27.5	572	0.97	4.66
1	9	27		14.25	6.51	27.6	573	1.28	1.46
<b>FINAL FIELD VALUES →</b>				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
				—	6.51	27.6	573	—	1.46
Color: <b>LIGHT YELLOW</b>	Odor: <b>NO</b>	Sheen: <b>NO</b>	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): <b>Redi-flo Pump</b>	SAMPLING INITIATED AT: <b>9:54</b>	SAMPLING ENDED AT: <b>9:58</b>	Weather: <b>SUNNY + HOT</b>			
FIELD DECONTAMINATION: <b>No</b>	FIELD-FILTERED: <b>No</b>	DUPLICATE: <b>Y</b> <b>(N)</b>				
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		42	Metals
2	HDPE		H2SO4			Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) <b>Bill Rogers Manny Alvarez</b>			SAMPLER(S) SIGNATURE(S) <b>Bill Rogers m alch</b>			

# Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: <b>Central County Transfer Station</b>		WACS Facility ID: <b>PBCC01</b> WACS Test Site ID: <b>PBCC01</b>	DATE: <b>7-23-19</b>
WELL NO: <b>CTMW-1S</b>	Well Type: <b>Compliance</b>	Well Location: North of retention Pond	SITE <b>1810 Lantana Road,</b> LOCATION: <b>Lantana, Fl</b>

## PURGING DATA

Top of Casing Elevation(ft): <b>22.27</b>	Static Depth To Water (ft): <b>13.77</b>	Water Table Elevation NGVD (ft): <b>8.50</b>	Column Height (ft): <b>22.83</b>	Total Well Depth (ft): <b>36.60</b>					
WELLDIAMETER (in): <b>2" PVC</b>		1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = <b>3x4</b>							
WELL CAPACITY (gal/ft): <b>0.16</b>		= ( <b>36.60 - 13.77 = 22.83</b> ) X <b>0.16 = 3.65</b> <span style="float: right;"><b>GALLONS 4</b></span>							
PURGE METHOD: <b>Redi-flo</b>		PURGE INITIATED AT: <b>9:33</b>	PURGE ENDED AT: <b>9:57</b>	TOTAL VOL. PURGED (gal): <b>16</b>					
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	.67	13.92	6.68	26.8	274	1.05	1.92
1	4	8		13.92	6.65	27.2	286	0.96	2.07
1	4	12		13.92	6.70	27.2	281	1.00	1.62
1	4	16		13.92	6.71	27.2	284	0.83	0.91
<b>FINAL FIELD VALUES →</b>				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					6.71	27.2	284		0.91
Color: <b>LIGHT YELLOW</b>	Odor: <b>NO</b>	Sheen: <b>NO</b>	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): <b>Redi-flo Pump</b>	SAMPLING INITIATED AT: <b>9:58</b>	SAMPLING ENDED AT: <b>10:02</b>	Weather: <b>SUNNY + HOT</b>			
FIELD DECONTAMINATION: <b>No</b>	FIELD-FILTERED: <b>No</b>	DUPLICATE: <b>Y</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">N</span>				
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			<b>6.2</b>
2	HDPE		H2SO4			
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) <b>Bill Rogers Manny Alvarez</b>				SAMPLER(S) SIGNATURE(S) <b>Bill Rogers</b>		

**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 Kjeldahl 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# 146139

# WO# : 35483995

Form (SCUR)

Project **PM: MIM** Due Date: **08/01/19**  
 Project Manager **CLIENT: 36-PBCSMA**  
 Client

Date and Initials of person:  
 Examining contents: WD 7.23.19  
 Label: \_\_\_\_\_  
 Deliver: \_\_\_\_\_  
 pH: \_\_\_\_\_  
 Initials: WD

Thermometer Used: T-330 Date: 7.23.19 Time: 1045

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

- |  |  |
|--|--|
| Cooler #1 Temp.°C <u>0.2</u> (Visual) <u>0.0</u> (Correction Factor) <u>0.2</u> (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #2 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)                | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #3 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (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 # WD WD

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: 7.23.19 Shorted Time: 1710 Qty: 3

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservation Information Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
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	
All Containers needing preservation are found to be in compliance with EPA recommendation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input checked="" 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: \_\_\_\_\_