



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

Pace Project Number: 35407534
Report Period: 2018/Q3

Client Project ID: CENTRAL COUNTY TRANSFER STATIO

RECEIVED

SEP 09 2018

Lab Sample ID

Client Sample ID

35407534001	CTMW-4I
35407534002	CTMW-4S
35407534003	CTSFD 073118
35407534004	CTSFB 073118
35407534005	METAL TRIP BLANK 073118

Sincerely,

Martha Montero

Florida Certifications:

E83079 - Ormond Beach
E86240 - South Florida
E84129 - Tampa



CASE NARRATIVE SUMMARY

Client Name: Palm Beach Solid Waste Authority
Project Name: CENTRAL COUNTY TRANSFER STATIO

Pace Project Number: 35407534

Date Received: 07/31/2018

Report Date: 08/10/2018

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

Pace Analytical Services, Inc.

Project Name : CENTRAL COUNTY TRANSFER STATIO
 Diameter (in) : 2
 Depth to Water (ft) : 10.70
 Total Depth (ft) : 69.42
 Top of Casing (ft) : 21.07

Order # : 35407534001
 Sheen : None
 Color : Lt 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 (NGVD) : _____

Sampling Date/Time : 07/31/2018 11:38
 Report Period : 2018/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 PARAMETERS

000537	Field Specific Conductance	Grab	N		07/31/2018 11:38	436 umhos/cm		umhos/cm	1
000010	Field Temperature	Grab	N		07/31/2018 11:38	27.0 deg C		deg C	1
000664	Field pH	Grab	N		07/31/2018 11:38	6.62 Std. Units		Std. Units	1
082078	Turbidity	Grab	N		07/31/2018 11:38	2.93 NTU		NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/07/2018 02:35	18.7 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	08/07/2018 02:35	7.6 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/03/2018 16:10	0.19 mg/L	0.035	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/09/2018 08:14	0.51 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	08/01/2018 11:18	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/03/2018 16:45	26.1 mg/L	12.5	20.0	mg/L	1
	Threshold Odor Number	Grab	N	SM 2150B	08/01/2018 10:40	<1.0N2 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/08/2018 14:08	188 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/06/2018 15:17	254 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2F	08/01/2018 08:38	<0.10 mg/L	0.10	0.10	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	08/01/2018 12:56	<0.099 mg/L	0.099	0.20	mg/L	1
	True Color	Grab	N	SM2120B-01	08/01/2018 09:14	60.0 units	5.0	5.0	units	1

INORGANICS

001007	Barium	Grab	N	EPA 6010	08/10/2018 05:35	8.0 ug/L	0.84	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	08/10/2018 05:35	<0.33 ug/L	0.33	3.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	08/10/2018 05:35	1.8 ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/10/2018 05:35	469 ug/L	9.2	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/10/2018 05:35	<4.6 ug/L	4.6	15.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	08/10/2018 05:35	<8.5 ug/L	8.5	30.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/10/2018 05:35	13.8 mg/L	0.27	1.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	08/09/2018 23:34	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/09/2018 23:34	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/10/2018 14:29	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Petroleum Range Organics	Grab	N	FL-PRO	08/09/2018 22:04	<0.76 mg/L	0.76	0.95	mg/L	1
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Pace Analytical Services, Inc.

Project Name : CENTRAL COUNTY TRANSFER STATIO
 Diameter (in) : 2
 Depth to Water (ft) : 10.84
 Total Depth (ft) : 32.45
 Top of Casing (ft) : 20.95

Order # : 35407534002
 Sheen : None
 Color : Lt yellow
 Odor : None
 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 (NGVD) : _____

Sampling Date/Time : 07/31/2018 11:27
 Report Period : 2018/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 PARAMETERS

000537	Field Specific Conductance	Grab	N		07/31/2018 11:27	415 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		07/31/2018 11:27	27.0 deg C			deg C	1
000664	Field pH	Grab	N		07/31/2018 11:27	6.35 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		07/31/2018 11:27	2.93 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/07/2018 02:57	23.6 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	08/07/2018 02:57	14.2 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/03/2018 16:12	0.22 mg/L	0.035	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/09/2018 08:15	0.68 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	08/01/2018 11:19	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/03/2018 16:45	53.8 mg/L	12.5	20.0	mg/L	1
	Threshold Odor Number	Grab	N	SM 2150B	08/01/2018 10:40	<1.0N2 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/08/2018 14:13	155 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/06/2018 15:17	259 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2F	08/01/2018 08:38	0.56 mg/L	0.10	0.10	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	08/01/2018 12:56	<0.099 mg/L	0.099	0.20	mg/L	1
	True Color	Grab	N	SM2120B-01	08/01/2018 09:14	80.0 units	10.0	10.0	units	2

INORGANICS

001007	Barium	Grab	N	EPA 6010	08/10/2018 05:38	13.2 ug/L	0.84	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	08/10/2018 05:38	<0.33 ug/L	0.33	3.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	08/10/2018 05:38	3.6 I ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/10/2018 05:38	1040 ug/L	9.2	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/10/2018 05:38	<4.6 ug/L	4.6	15.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	08/10/2018 05:38	<8.5 ug/L	8.5	30.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/10/2018 05:38	12.9 mg/L	0.27	1.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	08/09/2018 23:39	2.7 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/09/2018 23:39	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/10/2018 14:35	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Petroleum Range Organics	Grab	N	FL-PRO	08/10/2018 14:58	<0.76 mg/L	0.76	0.95	mg/L	1
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Pace Analytical Services, Inc.

Project Name : CENTRAL COUNTY TRANSFER STATIO

Order # : 35407534003

Diameter (in) : 2

Sheen : None

Depth to Water (ft) :

Color : Lt 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 : 07/31/2018 11:27

Test Site ID # : NA

Report Period : 2018/Q3

Well Name : CTSFD 073118

Well Purge (Y/N) : Y

Classification of Ground Water : G-II

Well Type : () Background (X) Compliance

Groundwater Elevation (NGVD) : _____

() 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 PARAMETERS

000537	Field Specific Conductance	Grab	N		07/31/2018 11:27	415 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		07/31/2018 11:27	27.0 deg C			deg C	1
000664	Field pH	Grab	N		07/31/2018 11:27	6.35 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		07/31/2018 11:27	2.93 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/07/2018 03:19	23.6 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	08/07/2018 03:19	14.2 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/03/2018 16:14	0.21 mg/L	0.035	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/09/2018 08:18	0.65 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	08/01/2018 11:20	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/03/2018 16:45	50.7 mg/L	12.5	20.0	mg/L	1
	Threshold Odor Number	Grab	N	SM 2150B	08/01/2018 10:40	2.0N2 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/08/2018 14:18	135 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/06/2018 15:18	268 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2F	08/01/2018 08:38	0.40 mg/L	0.10	0.10	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	08/01/2018 12:56	<0.099 mg/L	0.099	0.20	mg/L	1
	True Color	Grab	N	SM2120B-01	08/01/2018 09:14	80.0 units	10.0	10.0	units	2

INORGANICS

001007	Barium	Grab	N	EPA 6010	08/10/2018 05:41	13.9 ug/L	0.84	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	08/10/2018 05:41	<0.33 ug/L	0.33	3.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	08/10/2018 05:41	3.7 I ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/10/2018 05:41	1100 ug/L	9.2	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/10/2018 05:41	<4.6 ug/L	4.6	15.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	08/10/2018 05:41	<8.5 ug/L	8.5	30.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/10/2018 05:41	13.6 mg/L	0.27	1.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	08/09/2018 23:40	2.8 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/09/2018 23:40	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/10/2018 14:39	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Petroleum Range Organics	Grab	N	FL-PRO	08/09/2018 22:04	<0.79 mg/L	0.79	0.99	mg/L	1
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Pace Analytical Services, Inc.

Project Name : CENTRAL COUNTY TRANSFER STATIO
 Diameter (in) :
 Depth to Water (ft) :
 Total Depth (ft) :
 Top of Casing (ft) :

Order # : 35407534004
 Sheen : None
 Color : Clear
 Odor : None
 Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01
 Test Site ID # : NA
 Well Name : CTSFB 073118
 Classification of Ground Water : Field Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 07/31/2018 11:48
 Report Period : 2018/Q3
 Well Purge (Y/N) : NA
 Well Type : () Background () Compliance
 () 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 PARAMETERS

000537	Field Specific Conductance	Grab	N		07/31/2018 11:48	2.9 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		07/31/2018 11:48	26.5 deg C			deg C	1
000664	Field pH	Grab	N		07/31/2018 11:48	6,75 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		07/31/2018 11:48	0.26 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/07/2018 03:41	<2.5 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	08/07/2018 03:41	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/03/2018 16:15	<0.035 mg/L	0.035	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/09/2018 08:19	<0.086 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	08/01/2018 11:24	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/03/2018 16:45	<12.5 mg/L	12.5	20.0	mg/L	1
	Threshold Odor Number	Grab	N	SM 2150B	08/01/2018 10:40	<1.0N2 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/08/2018 14:21	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/06/2018 15:19	<5.0 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2F	08/01/2018 08:38	<0.10 mg/L	0.10	0.10	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	08/01/2018 13:01	<0.099 mg/L	0.099	0.20	mg/L	1
	True Color	Grab	N	SM2120B-01	08/01/2018 09:15	<5.0 units	5.0	5.0	units	1

INORGANICS

001007	Barium	Grab	N	EPA 6010	08/10/2018 05:44	<0.84 ug/L	0.84	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	08/10/2018 05:44	<0.33 ug/L	0.33	3.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	08/10/2018 05:44	<1.7 ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/10/2018 05:44	<9.2 ug/L	9.2	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/10/2018 05:44	<4.6 ug/L	4.6	15.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	08/10/2018 05:44	<8.5 ug/L	8.5	30.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/10/2018 05:44	<0.27 mg/L	0.27	1.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	08/09/2018 23:41	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/09/2018 23:41	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/10/2018 14:42	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Petroleum Range Organics	Grab	N	FL-PRO	08/10/2018 15:14	<0.76 mg/L	0.76	0.95	mg/L	1
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Pace Analytical Services, Inc.

Project Name : CENTRAL COUNTY TRANSFER STATIO
 Diameter (in) :
 Depth to Water (ft) :
 Total Depth (ft) :
 Top of Casing (ft) :

Order # : 35407534005
 Sheen :
 Color :
 Odor :
 Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

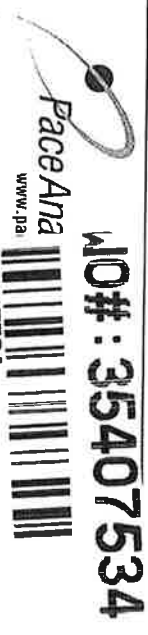
Facility WACS ID : PBCC01
 Test Site ID # : NA
 Well Name : METAL TRIP BLANK 073118
 Classification of Ground Water : Trip Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 07/31/2018 11:48
 Report Period : 2018/Q3
 Well Purge (Y/N) : N
 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	

INORGANICS

001007	Barium	Grab	N	EPA 6010	08/10/2018 05:47	<0.84 ug/L	0.84	10.0	ug/L	I
001027	Cadmium	Grab	N	EPA 6010	08/10/2018 05:47	<0.33 ug/L	0.33	3.0	ug/L	I
001034	Chromium	Grab	N	EPA 6010	08/10/2018 05:47	<1.7 ug/L	1.7	5.0	ug/L	I
001045	Iron	Grab	N	EPA 6010	08/10/2018 05:47	<9.2 ug/L	9.2	40.0	ug/L	I
000572	Lead	Grab	N	EPA 6010	08/10/2018 05:47	<4.6 ug/L	4.6	15.0	ug/L	I
001147	Selenium	Grab	N	EPA 6010	08/10/2018 05:47	<8.5 ug/L	8.5	30.0	ug/L	I
000929	Sodium	Grab	N	EPA 6010	08/10/2018 05:47	<0.27 mg/L	0.27	1.0	mg/L	I
001002	Arsenic	Grab	N	EPA 6020	08/09/2018 23:45	<0.50 ug/L	0.50	1.0	ug/L	I
001042	Copper	Grab	N	EPA 6020	08/09/2018 23:45	<0.93 ug/L	0.93	1.0	ug/L	I
000576	Mercury	Grab	N	EPA 7470	08/10/2018 14:44	<0.10 ug/L	0.10	0.20	ug/L	I



WIO#: 35407534

CHAIN OF CUSTODY RECORD

O # _____ Quote: _____ Page 1 of 2

PBC SWA

Company #501 N. Jog Road, WPB, FL 33412

Address: **Contract: Managing Hydrogeologist**

City: **Phone: 561 640-4000** Zip: _____

Alt: **Fax: 561 640-3400** Fax# _____

email: _____ Phone: _____

Project: **CENTRALE COUNTY TRANSFER STATION MONITORING WELLS**

Sampler Name: **John M. ...** Proj # _____

Signature: **John M. ...** Circle One Event: Daily Annual Monthly

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Field Filtered	Integrity OK(Y/N)	Total # of containers
1	CTMW-4I	7/31/18	11:38	GW			8
2	CTMW-4S		11:27	GW			8
3	CTSPD-073118		11:27	GW			8
4	CTSPB-073118	7/31/18	11:48	APW			8
5							
6	Metals Trip Blank		5:31:18				2
7							
8							
9							
10							

Sample	TRC	pH	Pres Codes	Parameters	See page Letter of:
					7-01-18

of Containers Size/Type: 1 15ozP

EXAMPLE Diss. Lead 6010

Container Type Codes

- AV Amber Vial
- CV Clear Vial
- P Plastic
- AL Amber Litr
- CL Clear Litr
- AP Amber Plastic
- AG Amber Glass
- GL Glass Jar
- PPV Progressive Tilt
- ES Erlenmeyer
- PLC Plastic container
- PLJ Plastic Jar
- Z Ziploc bag
- TB Todor bag
- WP Wad pack
- GC Galvan Jug
- TC Terracone

Matrix Codes

- SD Sediment
- GV Ground Water
- EFF Effluent
- APW Aqueous Phase Water
- DW Drinking Water
- SW Surface Water
- ML Misc. Liquid
- SI Sludge
- SO Soil Sediment
- AG Aqueous
- NA Nonaqueous
- PE Petroleum
- O Other (Please Specify)

Preservative Type Codes

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

REMARKS

Pos file 3195

SEE FIELD SHEETS FOR FIELD PARAMETERS

Coolers #s - Temp °C

1 2 3 4 5

Lab Use Only YES NO N/A

Circle One Request (From Approved)

Short Hold Y N

Circle One Report Level 1 2 3 4 CLP AFCEE

EDD (Fees May Apply) ADAPT SEDD SRPMS TSV

COC Condition OK Incomplete

Required State Certification FL GA SC NC NJ PA LA TX IL

Relinquished by Affiliation Date Time Received by Affiliation Date Time

1 *Donald Beeman* *MLW* *7-31-18* *14:14* *MLW* *7/31/18* *14:14*

2 *MLW* *MLW* *7/31/18* *17:22* *MLW* *7/31/18* *17:22*

3

4

Pompano Lab 954-582-4300 Revision: FALL-C-007-Rev.00

C.O.C. Serial # 144822

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 (CTSF D-)

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

SOLID WASTE AUTHORITY

DIVISION OF ENVIRONMENTAL PROGRAMS

FIELD DUPLICATE DATA SHEET

Sample Type: GRAB
 Site Identification: Central County Transfer Station

Date: 7-31-18

Sample I.D. CTSFD- 07 31 18

Time: 11:27

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 **HOT, SUNNY, BREEZY**

pH < **2.0**
 in preservative

Field Parameters		Units	Sample
Temperature	27.0	C	Appearance LIGHT YELLOW, NO ODOR, NO SHEEN
Cond: X	415	uMHOS/cm	
	ATC		
pH	6.35	Std Units	
DO	—	mg/L	
Turbidity	2.93	ntu	

Sample Container Inventory				
Quantity	Size	Type	Preservative	Analysis

Sampled By: Mark
Bill Rogers
Brenda Journey

Method of Shipment: Parcel

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: 7-31-18
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): 10.70	Water Table Elevation NGVD (ft): 10.37	Column Height (ft): 58.72	Total Well Depth (ft): 69.42'					
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 10								
WELL CAPACITY (gal/ft): 0.16	= (69.42' - 10.70) X 58.72 X 0.16 = 9.39 GALLONS								
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 11:08	PURGE ENDED AT: 11:37	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	1.04	11.27	6.57	27.0	432	0.91	1.75
1	10	20	1.04	11.26	6.58	27.0	434	0.77	1.055
1	10	30	1.04	11.26	6.62	27.0	436	0.80	2.93
				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
FINAL FIELD VALUES →				—	6.62	27.0	436	—	2.93
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: 11:38	SAMPLING ENDED AT: 11:44	Weather: HOT, SUNNY, BREEZY		
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)	
1	HDPE	1-LITER	HNO3		Metals
2	HDPE		H2SO4	<2.0	Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)					
SAMPLED BY (PRINT) Bill Rogers Manny Alvarez Brenda Downey			SAMPLER(S) SIGNATURE(S) Bill Rogers Manny Alvarez Brenda Downey		

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: 7-31-18
WELL NO: CTMW- 4S	Well Type: Compliance	Well Location: Park on Hillside Drive	SITE LOCATION: 1810 Lantana Road, Lantana, FL

PURGING DATA

Top of Casing Elevation(ft): 20.95	Static Depth To Water (ft): 10.84	Water Table Elevation NGVD (ft): 10.11	Column Height (ft): 21.61	Total Well Depth (ft): 32.45'					
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 4								
WELL CAPACITY (gal/ft): 0.16	= (32.45' - 10.84 = 21.61) X 0.16 = 3.46 GALLONS								
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 11:08	PURGE ENDED AT: 11:26	TOTAL VOL. PURGED (gal): 12					
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	10.83	6.36	26.9	410	0.68	6.81
1	4	8	.67	10.84	6.29	27.0	413	0.75	4.93
1	4	12	.67	10.84	6.35	27.0	415	0.64	2.93
FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
				—	6.35	27.0	415	—	2.93
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: 11:27	SAMPLING ENDED AT: 11:33	Weather: HOT, SUNNY, BREEZY			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: <input checked="" type="radio"/> Y <input 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			2.0
2	HDPE		H2SO4			
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) Bill Rogers Manny Alvarez Brenda Downy			SAMPLER(S) SIGNATURE(S) Bill Rogers Manny Alvarez Brenda Downy			

Receipt Form (SCUR)

WO#: 35407534

Project # PM: MIM
Project Manager: CLIENT: 36-PBCSWA
Client: Due Date: 08/10/18

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

Thermometer Used T-324 Date 7/31/18 Time 1722 Initials [Signature]

State of Origin _____ For VV projects, all containers verified to $\pm 0.5^\circ\text{C}$

- | | |
|--|--|
| Cooler #1 Temp. $^\circ\text{C}$ <u>4.3</u> (Visual) <u>10.1</u> (Correction Factor) <u>4.4</u> (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #2 Temp. $^\circ\text{C}$ <u>4.7</u> (Visual) <u>10.1</u> (Correction Factor) <u>4.8</u> (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #3 Temp. $^\circ\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #4 Temp. $^\circ\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #5 Temp. $^\circ\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #6 Temp. $^\circ\text{C}$ _____ (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 # _____ ¹¹¹ 7/31/18

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: _____ Shorted Time: _____ Qty: _____

		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	<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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

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

Comments/ Resolution (use back for additional comments):

Project Manager Review _____ Date _____