



REPORT OF ANALYSIS

Printed 07/16/12

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

Log #: 425131
Report Period: 2011/Q3

Client Project ID Central County Transfer-Wel
Collected By: Client

Laboratory Sample #	Client Sample #
425131-001	CTMW-3S
425131-002	CTMW-3I
425131-003	CTSFB-080911
425131-004	Metals Trip Blank 080911

JUL 16 2012
RECEIVED

Respectfully submitted,

Christina Raschke

Boca Raton (EPA Lab Code: FL01273):
Florida(E86240), South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



16-JUL-12

Project Manager: **Thomas Sirna**
Palm Beach Solid Waste Authority
7501 N. Jog Rd.
West Palm Beach, FL 33412

Reference: PACE Report No: **425131**
Central County Transfer Station Wells
Project Address:

Thomas Sirna:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the PACE Report Number 425131. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by PACE Analytical Services. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 425131 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting PACE Analytical Services to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Christina Raschke

Office Manager

CASE NARRATIVE SUMMARY



Client Name: *Palm Beach Solid Waste Authority*
Project Name: *Central County Transfer Station Wells*

Project ID: *Central County Transfer-V*
Work Order Number: *425131*

Report Date: *16-JUL-12*
Date Received: *09-AUG-11*

Batch 866577: Chloride and Sulfate recovered outside QC limits in the MS. The LCS is within control limits. The LCS is within control limits. The parent samples are 425133-001 and 425190-003.

Batch 866467: The RPD for Surfactants exceeded control limits. The parent sample is 425211-007.

A handwritten signature in cursive script that reads 'Christina Raschke'.

Christina Raschke
Office Manager

Order #: 425131-001

Client: Palm Beach Solid Waste Authority

Diameter (in): 2

Depth to Water (ft): 17.03

Total Depth (ft): 36.3

Top of Casing (ft): 23.35

Evacuation (gal): 3.5

XENCO Laboratories

Report for Analysis for DEP
Central County Transfer-Wells

Sheen: NONE

Color: Light Yellow

Odor: None

Matrix: Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____ Sampling Date/Time: 08/09/2011 12:53

Test Site ID #: _____ Report Period: 2011/Q3

Well Name: CTMW-3S Well Purge (Y/N): Y

Classification of Ground Water: G-II Well Type: () Background

G W Elevation (NGVD): 6.32 () Intermediate

(X) Compliance

() Other

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil	
							MDL	RL		
Field Parameters										
000664	pH	Grab	N	E150.1	08/09/11 12:53	6.89 SU	0.1	0.1	SU	1
000010	Temperature	Grab	N	E170.1	08/09/11 12:53	26.3 Deg C	0.1	0.1	Deg C	1
000537	Specific conductance	Grab	N	SW9050	08/09/11 12:53	326 umhos/cm	0.1	0.1	umhos/cm	1
082078	Turbidity	Grab	N	E180.1	08/09/11 12:53	0.760 NTU	0.1	0.1	NTU	1
INORGANICS										
000576	Mercury	Grab	N	SW7470A	08/16/11 11:24	<0.0321 ug/L	0.0321	0.200	ug/L	1
000572	Lead	Grab	N	EPA 200.8	08/19/11 13:40	<0.500 ug/L	0.500	1.00	ug/L	1
001002	Arsenic	Grab	N	SW6010B	08/19/11 12:53	<5.00 ug/L	5.00	10.0	ug/L	1
001007	Barium	Grab	N	SW6010B	08/19/11 12:53	9.50 ug/L	5.00	10.0	ug/L	1
001027	Cadmium	Grab	N	SW6010B	08/19/11 12:53	<0.500 ug/L	0.500	1.00	ug/L	1
001034	Chromium	Grab	N	SW6010B	08/19/11 12:53	<2.50 ug/L	2.50	5.00	ug/L	1
001042	Copper	Grab	N	SW6010B	08/19/11 12:53	<2.50 ug/L	2.50	5.00	ug/L	1
001045	Iron	Grab	N	SW6010B	08/19/11 12:53	60.6 ug/L	20.0	40.0	ug/L	1
001147	Selenium	Grab	N	SW6010B	08/19/11 12:53	<7.50 ug/L	7.50	15.0	ug/L	1
000929	Sodium	Grab	N	SW6010B	08/19/11 12:53	14.7 mg/L	0.500	1.00	mg/L	1
Other										
000745	Sulfide, total	Grab	N	SM 4500-S2- F	08/12/11 15:00	<1.00 mg/L	1.00	5.00	mg/L	1
038260	Surfactants	Grab	N	SM 5540C	08/11/11 15:15	<0.0430 mg/L	0.0430	0.100	mg/L	1
000599	Nitrogen, Ammonia (as N)	Grab	N	EPA 350.1	08/12/11 08:52	<0.0200 mg/L	0.0200	0.0500	mg/L	1
000340	COD - Chemical Oxygen Demand	Grab	N	EPA 410.4	08/13/11 13:29	<12.5 mg/L	12.5	25.0	mg/L	1
000080	Color	Grab	N	SM2120B	08/11/11 12:58	5.0 CU	0.50	1.0	CU	1
000515	Total dissolved solids	Grab	N	SM2540C	08/11/11 16:30	208 mg/L	5.00	5.00	mg/L	1
000593	Chloride	Grab	N	EPA 300	08/10/11 21:31	23.4 mg/L	0.0664	0.500	mg/L	1
000945	Sulfate	Grab	N	EPA 300	08/10/11 21:31	24.3 mg/L	0.0755	0.500	mg/L	1

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil	
							MDL	RL		
000620	Nitrate as N	Grab	N	EPA 300	08/10/11 21:31	0.747 mg/L	0.00740	0.0500	mg/L	1
	Total Petroleum Hydrocarbons (TPH)	Grab	N	EPA 1664	08/15/11 15:40	<1.40 mg/L	1.40	5.00	mg/L	1
	Odor	Grab	N	SM2150B	08/10/11 11:35	<1.0 T.O.N	1.0	1.0	T.O.N	1
000410	Alkalinity, Total (CaCO3)	Grab	N	SM2320B	08/15/11 17:50	94.0 mg/L	2.17	5.00	mg/L	1
000601	Nitrogen, Total Kjeldahl	Grab	N	EPA 351.2	08/13/11 13:22	<0.500 mg/L	0.25	0.50	mg/L	1

Order #: 425131-002

Client: Palm Beach Solid Waste Authority

Diameter (in): 2

Depth to Water (ft): 17.02

Total Depth (ft): 72.46

Top of Casing (ft): 23.34

Evacuation (gal): 11

XENCO Laboratories

Report for Analysis for DEP

Central County Transfer-Wells

Sheen: NONE

Color: Light Yellow

Odor: None

Matrix: Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____ Sampling Date/Time: 08/09/2011 13:13

Test Site ID #: _____ Report Period: 2011/Q3

Well Name: CTMW-3I Well Purge (Y/N): Y

Classification of Ground Water: G-II Well Type: () Background

() Intermediate

(X) Compliance

() Other

G W Elevation (NGVD): 6.32

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil
							MDL	RL	
Field Parameters									
000664	pH	Grab	N	E150.1	08/09/11 13:13	7.24 SU	0.1	0.1	SU 1
000010	Temperature	Grab	N	E170.1	08/09/11 13:13	26.3 Deg C	0.1	0.1	Deg C 1
000537	Specific conductance	Grab	N	SW9050	08/09/11 13:13	479 umhos/cm	0.1	0.1	umhos/cm 1
082078	Turbidity	Grab	N	E180.1	08/09/11 13:13	0.360 NTU	0.1	0.1	NTU 1
INORGANICS									
000576	Mercury	Grab	N	SW7470A	08/16/11 11:27	<0.0321 ug/L	0.0321	0.200	ug/L 1
000572	Lead	Grab	N	EPA 200.8	08/19/11 13:47	<0.500 ug/L	0.500	1.00	ug/L 1
001002	Arsenic	Grab	N	SW6010B	08/19/11 12:57	<5.00 ug/L	5.00	10.0	ug/L 1
001007	Barium	Grab	N	SW6010B	08/19/11 12:57	8.20I ug/L	5.00	10.0	ug/L 1
001027	Cadmium	Grab	N	SW6010B	08/19/11 12:57	<0.500 ug/L	0.500	1.00	ug/L 1
001034	Chromium	Grab	N	SW6010B	08/19/11 12:57	<2.50 ug/L	2.50	5.00	ug/L 1
001042	Copper	Grab	N	SW6010B	08/19/11 12:57	<2.50 ug/L	2.50	5.00	ug/L 1
001045	Iron	Grab	N	SW6010B	08/19/11 12:57	754 ug/L	20.0	40.0	ug/L 1
001147	Selenium	Grab	N	SW6010B	08/19/11 12:57	<7.50 ug/L	7.50	15.0	ug/L 1
000929	Sodium	Grab	N	SW6010B	08/19/11 12:57	15.0 mg/L	0.500	1.00	mg/L 1
Other									
000745	Sulfide, total	Grab	N	SM 4500-S2- F	08/12/11 15:00	<1.00 mg/L	1.00	5.00	mg/L 1
038260	Surfactants	Grab	N	SM 5540C	08/11/11 15:15	0.0454I mg/L	0.0430	0.100	mg/L 1
000599	Nitrogen, Ammonia (as N)	Grab	N	EPA 350.1	08/12/11 09:00	0.820 mg/L	0.0200	0.0500	mg/L 1
000340	COD - Chemical Oxygen Demand	Grab	N	EPA 410.4	08/13/11 13:29	16.3I mg/L	12.5	25.0	mg/L 1
000080	Color	Grab	N	SM2120B	08/11/11 12:58	40 CU	0.50	1.0	CU 1
000515	Total dissolved solids	Grab	N	SM2540C	08/11/11 16:30	294 mg/L	5.00	5.00	mg/L 1
000593	Chloride	Grab	N	EPA 300	08/10/11 21:14	26.1 mg/L	0.0664	0.500	mg/L 1
000945	Sulfate	Grab	N	EPA 300	08/10/11 21:14	51.5 mg/L	0.0755	0.500	mg/L 1

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil	
							MDL	RL		
000620	Nitrate as N	Grab	N	EPA 300	08/10/11 21:14	<0.00740 mg/L	0.00740	0.0500	mg/L	1
	Total Petroleum Hydrocarbons (TPH)	Grab	N	EPA 1664	08/15/11 15:40	<1.40 mg/L	1.40	5.00	mg/L	1
	Odor	Grab	N	SM2150B	08/10/11 11:35	<1.0 T.O.N	1.0	1.0	T.O.N	1
000410	Alkalinity, Total (CaCO3)	Grab	N	SM2320B	08/15/11 17:50	146 mg/L	2.17	5.00	mg/L	1
000601	Nitrogen, Total Kjeldahl	Grab	N	EPA 351.2	08/13/11 13:24	1.10 mg/L	0.25	0.50	mg/L	1

Order #: 425131-003

Client: Palm Beach Solid Waste Authority

XENCO Laboratories

Report for Analysis for DEP

Central County Transfer-Wells

Diameter (in):

Depth to Water (ft):

Total Depth (ft):

Top of Casing (ft):

Evacuation (gal):

Sheen: NONE

Color: None

Odor: None

Matrix: Water, Laboratory Grade Ty

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____

Sampling Date/Time: 08/09/2011 12:35

Test Site ID #: _____

Report Period: 2011/Q3

Well Name: CTSFB-080911

Well Purge (Y/N): N

Classification of Ground Water: Field Blank

Well Type: () Background

G W Elevation (NGVD): _____

() Intermediate

() Compliance

(X) Other

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil	
							MDL	RL		
Field Parameters										
000664	pH	Grab	N	E150.1	08/09/11 12:35	6.76 SU	0.1	0.1	SU	1
000010	Temperature	Grab	N	E170.1	08/09/11 12:35	26.3 Deg C	0.1	0.1	Deg C	1
000537	Specific conductance	Grab	N	SW9050	08/09/11 12:35	2.50 umhos/cm	0.1	0.1	umhos/cm	1
082078	Turbidity	Grab	N	E180.1	08/09/11 12:35	0.150 NTU	0.1	0.1	NTU	1
INORGANICS										
000576	Mercury	Grab	N	SW7470A	08/16/11 11:29	<0.0321 ug/L	0.0321	0.200	ug/L	1
000572	Lead	Grab	N	EPA 200.8	08/19/11 13:49	<0.500 ug/L	0.500	1.00	ug/L	1
001002	Arsenic	Grab	N	SW6010B	08/19/11 13:09	<5.00 ug/L	5.00	10.0	ug/L	1
001007	Barium	Grab	N	SW6010B	08/19/11 13:09	<5.00 ug/L	5.00	10.0	ug/L	1
001027	Cadmium	Grab	N	SW6010B	08/19/11 13:09	<0.500 ug/L	0.500	1.00	ug/L	1
001034	Chromium	Grab	N	SW6010B	08/19/11 13:09	<2.50 ug/L	2.50	5.00	ug/L	1
001042	Copper	Grab	N	SW6010B	08/19/11 13:09	<2.50 ug/L	2.50	5.00	ug/L	1
001045	Iron	Grab	N	SW6010B	08/19/11 13:09	<20.0 ug/L	20.0	40.0	ug/L	1
001147	Selenium	Grab	N	SW6010B	08/19/11 13:09	<7.50 ug/L	7.50	15.0	ug/L	1
000929	Sodium	Grab	N	SW6010B	08/19/11 13:09	<0.500 mg/L	0.500	1.00	mg/L	1
Other										
000745	Sulfide, total	Grab	N	SM 4500-S2- F	08/12/11 15:00	<1.00 mg/L	1.00	5.00	mg/L	1
038260	Surfactants	Grab	N	SM 5540C	08/11/11 15:15	0.149 mg/L	0.0430	0.100	mg/L	1
000599	Nitrogen, Ammonia (as N)	Grab	N	EPA 350.1	08/12/11 09:01	0.0300I mg/L	0.0200	0.0500	mg/L	1
000340	COD - Chemical Oxygen Demand	Grab	N	EPA 410.4	08/13/11 13:29	<12.5 mg/L	12.5	25.0	mg/L	1
000080	Color	Grab	N	SM2120B	08/11/11 12:58	<0.50 CU	0.50	1.0	CU	1
000515	Total dissolved solids	Grab	N	SM2540C	08/11/11 16:30	<5.00 mg/L	5.00	5.00	mg/L	1
000593	Chloride	Grab	N	EPA 300	08/10/11 20:56	<0.0664 mg/L	0.0664	0.500	mg/L	1
000945	Sulfate	Grab	N	EPA 300	08/10/11 20:56	<0.0755 mg/L	0.0755	0.500	mg/L	1

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil	
							MDL	RL		
000620	Nitrate as N	Grab	N	EPA 300	08/10/11 20:56	<0.00740 mg/L	0.00740	0.0500	mg/L	1
	Total Petroleum Hydrocarbons (TPH)	Grab	N	EPA 1664	08/15/11 15:40	<1.40 mg/L	1.40	5.00	mg/L	1
	Odor	Grab	N	SM2150B	08/10/11 11:35	<1.0 T.O.N	1.0	1.0	T.O.N	1
000410	Alkalinity, Total (CaCO3)	Grab	N	SM2320B	08/15/11 17:50	<2.17 mg/L	2.17	5.00	mg/L	1
000601	Nitrogen, Total Kjeldahl	Grab	N	EPA 351.2	08/13/11 13:25	<0.500 mg/L	0.25	0.50	mg/L	1

Order # : 425131-004

Client : Palm Beach Solid Waste Authority

Diameter (in) :

Depth to Water (ft) :

Total Depth (ft) :

Top of Casing (ft) :

Evacuation (gal) :

XENCO Laboratories

Report for Analysis for DEP

Central County Transfer-Wells

Sheen : NONE

Color : None

Odor : None

Matrix : Water, Laboratory Grade Ty

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : _____

Sampling Date/Time : 08/09/2011 00:00

Test Site ID # : _____

Report Period : 2011/Q3

Well Name : Metals Trip Blank 080911

Well Purge (Y/N/) : N

Classification of Ground Water : Trip Blank

Well Type : () Background

G W Elevation (NGVD) : _____

() Intermediate

() Compliance

(X) Other

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil	
							MDL	RL		
INORGANICS										
000576	Mercury	Grab	N	SW7470A	08/16/11 11:32	<0.100 ug/L	0.100	0.200	ug/L	1
000572	Lead	Grab	N	EPA 200.8	08/19/11 13:51	<0.500 ug/L	0.500	1.00	ug/L	1
001002	Arsenic	Grab	N	SW6010B	08/19/11 13:13	<5.00 ug/L	5.00	10.0	ug/L	1
001007	Barium	Grab	N	SW6010B	08/19/11 13:13	<5.00 ug/L	5.00	10.0	ug/L	1
001027	Cadmium	Grab	N	SW6010B	08/19/11 13:13	<0.500 ug/L	0.500	1.00	ug/L	1
001034	Chromium	Grab	N	SW6010B	08/19/11 13:13	<2.50 ug/L	2.50	5.00	ug/L	1
001042	Copper	Grab	N	SW6010B	08/19/11 13:13	<2.50 ug/L	2.50	5.00	ug/L	1
001045	Iron	Grab	N	SW6010B	08/19/11 13:13	<20.0 ug/L	20.0	40.0	ug/L	1
001147	Selenium	Grab	N	SW6010B	08/19/11 13:13	<7.50 ug/L	7.50	15.0	ug/L	1
000929	Sodium	Grab	N	SW6010B	08/19/11 13:13	<0.500 mg/L	0.500	1.00	mg/L	1



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

425131

Page: 1 of 2
 1509043

REGULATORY AGENCY
 NPDES GROUND WATER RCRA DRINKING WATER
 UST OTHER

Site Location
 STATE

Requested Analysis Filtered (Y/N)

Section A
 Required Client Information:
 Company: PA S&A
 Address: 7501 N Star Rd
 Email To: WPB FL 3342
 Phone: 351-640-4000 Fax: 640-340
 Requested Due Date/TAT:

Section B
 Required Project Information:
 Report To: Thomas Sims
 Copy To:
 Purchase Order No.:
 Project Name: Central County
 Project Number:

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Protocol Manager:
 Pace Profile #:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB							
		Drinking Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	(see valid codes to left)	DATE	TIME	DATE	TIME	Unpreserved H ₂ O ₂ HNO ₃ HCl NaOH Na ₂ O ₂ Methanol Other	See page 3 of 3 lots of 10/11			
1	CTMW - 35		CV	8/9/11	12:53		6		✓			
2	CTMW - 37		CV	8/9/11	13:13		6		✓			
3	CTSEB - 080911		CV	8/9/11	12:35		6		✓			
4	Note: 6 Trip Blank 080911						1		No change			

Section E
 ADDITIONAL COMMENTS

Section F
 RELINQUISHED BY / AFFILIATION DATE TIME

Section G
 ACCEPTED BY / AFFILIATION DATE TIME

Section H
 SAMPLE CONDITIONS

Section I
 Temp in °C

Section J
 Received on Ice (Y/N)

Section K
 Custody Sealed Cooler (Y/N)

Section L
 Samples Intact (Y/N)

Section M
 SAMPLER NAME AND SIGNATURE

Section N
 PRINT Name of SAMPLER: Thomas Sims DATE Signed (MM/DD/YY): 8-9-11

Section O
 SIGNATURE of SAMPLER: [Signature]

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

3rd Quarter Letter to Xenco (Mike Kimmel)

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Letter dated June 29, 2011

CENTRAL COUNTY TRANSFER STATION

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 (CTSFB-)

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	Hydrogen 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

202 Paul 1509043

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		Facility GMS#:	DATE: 8-9-11
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): 17.03	Water Table Elevation NGVD (ft): 6.32	Column Height (ft): 19.27	Total Well Depth (ft): 36.30'					
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 1/2								
WELL CAPACITY (gal/ft): 0.16	= (36.30 - 17.03 - 19.27) X 0.16 = 3.14 GALLONS								
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 12:30	PURGE ENDED AT: 12:52	TOTAL VOL. PURGED (gal):					
WELL VOL. 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	3 1/2	3 1/2	.50	17.15	6.79	26.4	337	.52	14.9
1	3 1/2	7	.50	17.17	6.72	26.5	328	.54	1.66
1	3 1/2	10 1/2	.50	17.15	6.89	26.3	326	.44	.76
FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					6.89	26.3	326	-	.76
Color: 1.5 yellow	Odor: NONE	Sheen: NONE	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: 12:53	SAMPLING ENDED AT: 13:03	Weather: Hot Humid, Sunny		
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		Metals
2	HDPE		H2SO4	200	Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)					
SAMPLED BY (PRINT) B Downey MA			SAMPLER(S) SIGNATURE(S) <i>[Signature]</i>		

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		Facility GMS#:	DATE: 8-9-11
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): 17.02	Water Table Elevation NGVD (ft): 6.32	Column Height (ft): 66.14	Total Well Depth (ft): 72.46'						
WELL DIAMETER (in): 2" PVC										
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 11										
WELL CAPACITY (gal/ft): 0.16										
= (72.46' - 17.02) X 0.16 = 10.58 GALLONS										
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 12:33	PURGE ENDED AT: 13:12	TOTAL VOL. PURGED (gal): 33						
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	11	11	.85	7.15	7.05	26.1	474	.56	1.62	
1	11	22	.85	7.15	7.09	26.1	475	.45	.51	
1	11	33	.85	7.15	7.24	26.3	479	.80	.36	
FINAL FIELD VALUES →					ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
						7.24	26.3	479	—	.36
Color:	Odor:	Sheen:	Comments							
Yellow	NONE	NONE								
WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88										

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 13:13	SAMPLING ENDED AT: 13:23	Weather: Hot Humid			
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			12.0
2	HDPE		H2SO4			Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) B Downey MA 10/0/07			SAMPLER(S) SIGNATURE(S) Blondine Mary Horrocks			

SOLID WASTE AUTHORITY

DIVISION OF ENVIRONMENTAL PROGRAMS

FIELD BLANK DATA SHEET

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

Date: 8-9-11

Sample I.D. CTSFB- 080911

Time: 12:35

Notes and Comments
 Pky sunny
 hot + humid
 PH < 2.0
 in preservative

Field Parameters		Units	Sample
Temperature	26.3	C	Appearance clear no odor no sheen
Cond: X	ATC 2.5	uMHOS/cm	
PH	6.76	Std Units	
DO		Mg/L	
Other Turb	0.15	NTU	

Sample Container Inventory				
Quantity	Size	Type	Preservative	Analysis

Sampled By: Brent Dancy
Manny Alvarez Method of Shipment: Pace

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____



Client Name: PBSWA

Project # 425131

Courier: Fed Ex UPS USPS Client Commercial Pace

Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T109 Type of Ice: Wet Blue None

Cooler Temperature °C 3.4 (Visual) +5 (Correction Factor) 3.9 (Actual)

Date and Initials of person examining contents: 8.9.11 JWC

(Temp should be above freezing to 0°-6°C). If below 0°C, then was sample frozen?

Yes No

Receipt of samples satisfactory: Yes No

Rush TAT requested on COC: _____

If yes, then all conditions below were met:

If no, then mark box & describe issue (use comments area if necessary):

Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

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

Project Manager Review: _____

Date: _____

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

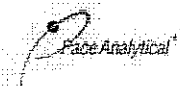
Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Size & Qty of Bottles Received

- _____ x 5 Gal
- _____ x 2.5 Gal
- _____ x 1 Gal
- _____ x 1 Liter
- _____ x 500 mL
- _____ x 250 mL
- _____ x Other: _____

Extra Sample in Shed: Yes No



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Palm Beach Solid Waste Authority

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 08/09/2011 05:00:00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 425131

Temperature Measuring device used :

Sample Receipt Checklist

Comments

- #1 *Temperature of cooler(s)? 3.9
- #2 *Shipping container in good condition? Yes
- #3 *Samples received on ice? Yes
- #4 *Custody Seals intact on shipping container/ cooler? N/A
- #5 Custody Seals intact on sample bottles/ container? N/A
- #6 *Custody Seals Signed and dated for Containers/coolers N/A
- #7 *Chain of Custody present? Yes
- #8 Sample instructions complete on Chain of Custody? Yes
- #9 Any missing/extra samples? No
- #10 Chain of Custody signed when relinquished/ received? Yes
- #11 Chain of Custody agrees with sample label(s)? Yes
- #12 Container label(s) legible and intact? Yes
- #13 Sample matrix/ properties agree with Chain of Custody? Yes
- #14 Samples in proper container/ bottle? Yes
- #15 Samples properly preserved? Yes
- #16 Sample container(s) intact? Yes
- #17 Sufficient sample amount for indicated test(s)? Yes
- #18 All samples received within hold time? Yes
- #19 Subcontract of sample(s)? No
- #20 VOC samples have zero headspace (less than 1/4 inch bubble)? N/A
- #21 <2 for all samples preserved with HNO3,HCL, H2SO4? Yes
- #22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	PH Device/Lot#
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NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ DateTime : _____

Checklist completed by: Lilly Webster
Lilly Webster

Date: 08/09/2011

Checklist reviewed by: Christina Raschke
Christina Raschke

Date: 08/11/2011