



REPORT OF ANALYSIS

Printed 03/21/10

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

Log #: 364019
Report Period 2010/Q1

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

Laboratory Sample #	Client Sample #
364019-001	CTMW-3S
364019-002	CTMW-3I
364019-003	Metals Trip Blank 030210

RECEIVED
MAR 25 2010

Respectfully submitted,

Mike Kimmel

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida (E86240), South Carolina (96031001), Louisiana (04154), Georgia (917)
North Carolina (444), Texas (T104704468-TX), Illinois (002295)



21-MAR-10

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

Reference: XENCO Report No: **364019**
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 XENCO Report Number 364019. 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 XENCO Laboratories. 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. 364019 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Mike Kimmel

Office Manager

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Order #: 364019-001

Client: Palm Beach Solid Waste Authority

XENCO Laboratories

Report for Analysis for DEP

Central County Transfer-Wells

Diameter (in): 2
 Depth to Water (ft): 14.4
 Total Depth (ft): 36.3
 Top of Casing (ft): 23.35
 Evacuation (gal): 16

Sheen: NONE
 Color: LIGHT YELLOW
 Odor: NONE
 Matrix: Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____ Sampling Date/Time: 03/02/2010 10:58

Test Site ID #: _____ Report Period: 2010/Q1

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

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

G W Elevation (NGVD): 8.95 () 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	Sub Pump	N	E150.1	03/02/10 10:58	6.81 SU	1	SU	1
000010	Temperature	Sub Pump	N	E170.1	03/02/10 10:58	25.6 Deg C	1	Deg C	1
000537	Specific conductance	Sub Pump	N	SW9050	03/02/10 10:58	219 uS/cm	10	uS/cm	1
082078	Turbidity	Sub Pump	N	E180.1	03/02/10 10:58	8.41 NTU	0.1	NTU	1
INORGANICS									
000576	Mercury	Sub Pump	N	SW7470A	03/08/10 13:10	<0.113 ug/L	0.113	0.200 ug/L	1
001002	Arsenic	Sub Pump	N	E200.8	03/09/10 20:00	1.00 I ug/L	0.800	5.00 ug/L	1
000572	Lead	Sub Pump	N	E200.8	03/09/10 20:00	<0.947 ug/L	0.947	5.00 ug/L	1
001147	Selenium	Sub Pump	N	E200.8	03/09/10 20:00	2.80 I ug/L	1.78	5.00 ug/L	1
001007	Barium	Sub Pump	N	SW6010B	03/05/10 19:35	16.4 ug/L	2.00	10.0 ug/L	1
001027	Cadmium	Sub Pump	N	SW6010B	03/05/10 19:35	<0.570 ug/L	0.570	5.00 ug/L	1
001034	Chromium	Sub Pump	N	SW6010B	03/05/10 19:35	1.29 I ug/L	1.10	5.00 ug/L	1
001042	Copper	Sub Pump	N	SW6010B	03/05/10 19:35	<9.60 ug/L	9.60	20.0 ug/L	1
001045	Iron	Sub Pump	N	SW6010B	03/05/10 19:35	222 ug/L	45.0	100 ug/L	1
000929	Sodium	Sub Pump	N	SW6010B	03/05/10 19:35	11.0 mg/L	0.074	0.250 mg/L	1
Other									
000410	Alkalinity, Total (CaCO3)	Sub Pump	N	SM2320B	03/05/10 08:30	52.0 mg/L	0.392	1.00 mg/L	1
000745	Sulfide, total	Sub Pump	N	SM4500SF00	03/04/10 10:00	<1.00 mg/L	1.00	5.00 mg/L	1
	Surfactants	Sub Pump	N	SM5540C	03/03/10 14:30	0.046 I mg/L	0.043	0.100 mg/L	1
000599	Nitrogen, Ammonia (as N)	Sub Pump	N	E350.1	03/09/10 18:17	<0.020 mg/L	0.020	0.100 mg/L	1
000601	Nitrogen, Total Kjeldahl	Sub Pump	N	E351.2	03/10/10 12:31	<0.087 mg/L	0.087	0.300 mg/L	1
000340	COD - Chemical Oxygen Demand	Sub Pump	N	E410.4	03/09/10 14:30	9.58 I mg/L	6.70	20.0 mg/L	1
000080	Color	Sub Pump	N	SM2120B	03/03/10 09:55	20 CU	0.50	1.0 CU	1
	Odor	Sub Pump	N	SM2150B	03/03/10 09:40	<1.0 T.O.N	1.0	T.O.N	1

Order #: 364019-001

Client: Palm Beach Solid Waste Authority

Diameter (in): 2

Depth to Water (ft): 14.4

Total Depth (ft): 36.3

Top of Casing (ft): 23.35

Evacuation (gal): 16

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: 03/02/2010 10:58

Test Site ID #: _____

Report Period: 2010/Q1

Well Name: CTMW-3S

Well Purge (Y/N): Y

Classification of Ground Water: G-II

Well Type: () Background

G W Elevation (NGVD): 8.95

() 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		
000515	Total dissolved solids	Sub Pump	N	SM2540C	03/11/10 17:40	148 mg/L	5.00	5.00	mg/L	1
000593	Chloride	Sub Pump	N	E300	03/03/10 16:41	15.9 mg/L	0.664	5.00	mg/L	10
000945	Sulfate	Sub Pump	N	E300	03/03/10 16:41	26.7 mg/L	0.755	5.00	mg/L	10
000620	Nitrate as N	Sub Pump	N	E300	03/03/10 16:41	1.12 mg/L	0.074	0.500	mg/L	10
	Total Petroleum Hydrocarbons (TPH)	Sub Pump	N	E1664T	03/04/10 20:00	<1.37 mg/L	1.37	4.00	mg/L	1

Order #: 364019-002

Client: Palm Beach Solid Waste Authority

XENCO Laboratories

Report for Analysis for DEP
Central County Transfer-Wells

Diameter (in): 2
Depth to Water (ft): 14.41
Total Depth (ft): 72.46
Top of Casing (ft): 23.34
Evacuation (gal): 30

Sheen: NONE
Color: LIGHT YELLOW
Odor: NONE
Matrix: Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____ Sampling Date/Time: 03/02/2010 10:42
 Test Site ID #: _____ Report Period: 2010/Q1
 Well Name: CTMW-3I Well Purge (Y/N/): Y
 Classification of Ground Water: G-II Well Type: () Background
 G W Elevation (NGVD): 8.98 () 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	Sub Pump	N	E150.1	03/02/10 10:42	6.72 SU	1	SU	1
000010	Temperature	Sub Pump	N	E170.1	03/02/10 10:42	24.9 Deg C	1	Deg C	1
000537	Specific conductance	Sub Pump	N	SW9050	03/02/10 10:42	493 uS/cm	10	uS/cm	1
082078	Turbidity	Sub Pump	N	E180.1	03/02/10 10:42	0.850 NTU	0.1	NTU	1
INORGANICS									
000576	Mercury	Sub Pump	N	SW7470A	03/08/10 13:12	<0.113 ug/L	0.113	0.200 ug/L	1
001002	Arsenic	Sub Pump	N	E200.8	03/09/10 20:08	<0.800 ug/L	0.800	5.00 ug/L	1
000572	Lead	Sub Pump	N	E200.8	03/09/10 20:08	<0.947 ug/L	0.947	5.00 ug/L	1
001147	Selenium	Sub Pump	N	E200.8	03/09/10 20:08	<1.78 ug/L	1.78	5.00 ug/L	1
001007	Barium	Sub Pump	N	SW6010B	03/05/10 19:41	11.2 ug/L	2.00	10.0 ug/L	1
001027	Cadmium	Sub Pump	N	SW6010B	03/05/10 19:41	<0.570 ug/L	0.570	5.00 ug/L	1
001034	Chromium	Sub Pump	N	SW6010B	03/05/10 19:41	<1.10 ug/L	1.10	5.00 ug/L	1
001042	Copper	Sub Pump	N	SW6010B	03/05/10 19:41	<9.60 ug/L	9.60	20.0 ug/L	1
001045	Iron	Sub Pump	N	SW6010B	03/05/10 19:41	860 ug/L	45.0	100 ug/L	1
000929	Sodium	Sub Pump	N	SW6010B	03/05/10 19:41	14.1 mg/L	0.074	0.250 mg/L	1
Other									
000410	Alkalinity, Total (CaCO3)	Sub Pump	N	SM2320B	03/05/10 08:30	142 mg/L	0.392	1.00 mg/L	1
000745	Sulfide, total	Sub Pump	N	SM4500SF00	03/04/10 10:00	<1.00 mg/L	1.00	5.00 mg/L	1
	Surfactants	Sub Pump	N	SM5540C	03/03/10 14:30	0.084 I mg/L	0.043	0.100 mg/L	1
000599	Nitrogen, Ammonia (as N)	Sub Pump	N	E350.1	03/09/10 18:21	0.565 mg/L	0.020	0.100 mg/L	1
000601	Nitrogen, Total Kjeldahl	Sub Pump	N	E351.2	03/10/10 12:34	0.873 mg/L	0.087	0.300 mg/L	1
000340	COD - Chemical Oxygen Demand	Sub Pump	N	E410.4	03/09/10 14:30	20.1 mg/L	6.70	20.0 mg/L	1
000080	Color	Sub Pump	N	SM2120B	03/03/10 09:55	40 CU	0.50	1.0 CU	1
	Odor	Sub Pump	N	SM2150B	03/03/10 09:40	<1.0 T.O.N		1.0 T.O.N	1

Order #: 364019-002

Client: Palm Beach Solid Waste Authority

Diameter (in): 2

Depth to Water (ft): 14.41

Total Depth (ft): 72.46

Top of Casing (ft): 23.34

Evacuation (gal): 30

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: 03/02/2010 10:42

Test Site ID #: _____

Report Period: 2010/Q1

Well Name: CTMW-3I

Well Purge (Y/N/): Y

Classification of Ground Water: G-II

Well Type: () Background

G W Elevation (NGVD): 8.98

() 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		
000515	Total dissolved solids	Sub Pump	N	SM2540C	03/04/10 16:30	290 mg/L	5.00	5.00	mg/L	1
000593	Chloride	Sub Pump	N	E300	03/03/10 17:03	25.8 mg/L	0.664	5.00	mg/L	10
000945	Sulfate	Sub Pump	N	E300	03/03/10 17:03	66.2 mg/L	0.755	5.00	mg/L	10
000620	Nitrate as N	Sub Pump	N	E300	03/03/10 17:03	<0.074 mg/L	0.074	0.500	mg/L	10
	Total Petroleum Hydrocarbons (TPH)	Sub Pump	N	E1664T	03/04/10 20:00	<1.37 mg/L	1.37	4.00	mg/L	1

Order #: 364019-003

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:

Odor:

Matrix: Water, Laboratory Grade T₁

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____

Sampling Date/Time: 03/02/2010 00:00

Test Site ID #: _____

Report Period: 2010/Q1

Well Name: Metals Trip Blank 030210

Well Purge (Y/N/): N

Classification of Ground Water: Trip Blank

Well Type: () Background

() Intermediate

() Compliance

(X) Other

G W Elevation (NGVD): _____

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	03/08/10 13:14	<0.113 ug/L	0.113	0.200	ug/L	1
001002	Arsenic	Grab	N	E200.8	03/09/10 20:16	<0.800 ug/L	0.800	5.00	ug/L	1
000572	Lead	Grab	N	E200.8	03/09/10 20:16	<0.947 ug/L	0.947	5.00	ug/L	1
001147	Selenium	Grab	N	E200.8	03/09/10 20:16	<1.78 ug/L	1.78	5.00	ug/L	1
001007	Barium	Grab	N	SW6010B	03/05/10 19:47	<2.00 ug/L	2.00	10.0	ug/L	1
001027	Cadmium	Grab	N	SW6010B	03/05/10 19:47	<0.570 ug/L	0.570	5.00	ug/L	1
001034	Chromium	Grab	N	SW6010B	03/05/10 19:47	<1.10 ug/L	1.10	5.00	ug/L	1
001042	Copper	Grab	N	SW6010B	03/05/10 19:47	<9.60 ug/L	9.60	20.0	ug/L	1
001045	Iron	Grab	N	SW6010B	03/05/10 19:47	<45.0 ug/L	45.0	100	ug/L	1
000929	Sodium	Grab	N	SW6010B	03/05/10 19:47	<0.074 mg/L	0.074	0.250	mg/L	1



Flagging Criteria

FLORIDA Flagging Criteria

- A** Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.
- B** Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.
- F** When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
- H** Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
- I** The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J** Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .
 - J1: No known quality control criteria exist for the component;
 - J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);
 - J3: The sample matrix interfered with the ability to make any accurate determination;
 - J4: The data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample).
 - J5: The field calibration verification did not meet calibration acceptance criteria.
 - J6: QC protocol not followed.

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 5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
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(972) 481-9999	(972) 481-9998
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Flagging Criteria

J7: B/A results for Chlorophyll does not meet 1 - 1.7 ratio.

- K** Off-scale low. Actual value is known to be less than the value given. This code shall be used if:
 - 1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or
 - 2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
- L** Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
- M** When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below.
- N** Presumptive evidence of presence of material. This qualifier shall be used if:
 - 1. The component has been tentatively identified based on mass spectral library search; or
 - 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).
- O** Sampled, but analysis lost or not performed.
- Q** Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
- T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
- U** Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
- V** Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Flagging Criteria

- Y** The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z** Too many colonies were present (TNTC); the numeric value represents the filtration volume.
- ?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
- * Not reported due to interference.

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

- D** The sample result was reported from a dilution.
- E** Indicates that extra samples were taken at composite stations.
- R** Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
- !** Data deviate from historically established concentration ranges.
- +** Outside XENCO's scope of NELAC accreditation

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(305) 823-8500	(305) 823-8555



CHAIN OF CUSTODY RECORD

Atlanta: 6017 Financial Dr. Norcross, GA 30071 770-449-6800
 Boca Raton: 3231 NW 7th Ave, Boca Raton, FL 33431 561-447-7373
 Miami: 14100 Palmjeto Frontage Rd, Miami Lakes, FL 33016 305-623-9500
 Orlando: 5446 Heffner Av. Ste 408 Orlando, FL 32812 408-429-8022
 Tampa: 2805 North Falkenburg Rd, Tampa, FL 33619 813-620-2000

Company: **PB SWA**
 Address: **7501 N. Jog Rd**
 City: **wpb**
 PMA/Int: **THOMAS SIMS**
 email: **THOMAS SIMS**
 Project Name: **Century County Transfer Station Monitoring Wells**
 Sampler Signature: **Thomas Sims**
 Project ID: **33412**
 State: **FL** Zip: **33412**
 Phone: **640-460**
 Fax: **640-3400**

Project Name: **Century County Transfer Station Monitoring Wells**
 Sampler Signature: **Thomas Sims**
 Project ID: **33412**
 State: **FL** Zip: **33412**
 Phone: **640-460**
 Fax: **640-3400**

Reg. Program / Clean-up Site: **STATE for Certs & Regs**
 TRRP DW NPDES LPST Dry/Ch FI TX GA NC SC NJ PA OK LA AL IL Other: **FL TX GA NC SC NJ PA**
 Relinquished By: **Thomas Sims** Date: **3/2/10** Time: **10:58 AM**
 Affiliation: **Xenoco** Date: **3/2/10** Time: **10:58 AM**

Reg. Program / Clean-up Site: **STATE for Certs & Regs**
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*** Container Type Codes**

VA	Vial Amber
ES	Evaporative Sampler
VC	Vial Clear
AC	Air Canister
YC	Vial Pre-preserved
TC	Tedlar Bag
GC	Glass Amber
ZB	Zip Lock Bag
PA	Plastic Amber
PC	Plastic Clear

Other: _____

Size (g): 2oz, 4oz, 8oz, 16oz, 32oz, 1gal
 40ml, 125 ml, 250 ml, 500 ml, 1L, Other
 Example: 4oz GC = 4oz Glass Clear
 40ml VP = 40ml Vial Pre-preserved

**** Preservative Type Codes**

A	None
E	HCL
I	Ice
B	HNO ₃
F	MeOH
C	H ₂ SO ₄
G	Na ₂ S ₂ O ₈
H	NaOH
N	NaHSO ₄
L	Asbc Acid & NaOH
O	Other

^ Matrix Type Codes

GW	Ground Water
WW	Waste Water
DW	Drinking Water
SW	Surface Water
OW	Ocean/Sea Water
PL	Product-Liquid
PS	Product-Solid
SL	Sludge
Other	Other

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Composite or Grab	Field Filtered	Total # of Containers	# Cont		Lab Only	REMARKS
								Lab	Field		
1	CTMW-3S	3/2/10	10:58 AM	GW	10		10	10	0	0	see field sheets for field parameters
2	CTMP-3I	3/2/10	10:46 AM	GW	10		10	10	0	0	2 week rush
3											
4											
5											
6											
7											
8	Metals Trip Blank	030210			1		1	1	0	0	Temp Bottle
9											
0											

Lab W/O Page 1 of 2
364019
 Field Billable Hrs: _____

TAT Work Days = D Need results by: _____ Time: _____
 Std (5-10D) 6Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other

ANALYSES REQUESTED

COA & Labels Match Incomplete Affiliation Unlabeled
 Received by: **Allex** Date: **3/2/10** Time: **15:30**
David Date: **3/2/10** Time: **18:00**

EDDs Received by: **Allex** Date: **3/2/10** Time: **18:00**

ADAPT SEDD ERPMS Received by: **Allex** Date: **3/2/10** Time: **18:00**
 XLS Other: **David** Date: **3/2/10** Time: **18:00**

COA & Labels Match Incomplete Affiliation Unlabeled
 Received by: **Allex** Date: **3/2/10** Time: **18:00**
David Date: **3/2/10** Time: **18:00**

Non-Conformance found? YES NO N/A
 Samples intact upon arrival?
 Relabeled with proper preservatives?
 Relabeled within holding time?
 Custody seals intact?
 VOCs read w/o headspace?
 Proper containers used?
 pH verified-acceptable, cool VOCs?
 Received on time to meet HTS?

FTS: Philadelphia 610-855-5649 South Carolina 803-543-8099 B&A Laboratories: Corpus Christi 361-864-0371 Dallas 214-902-0300 Houston 281-240-4230 Odessa 432-563-1800 San Antonio 210-509-3334
 Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net-30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.
 Property of XENCO - Revision Date: Nov 12, 2009
 C.O.C. Serial # **258277**

CENTRAL-COUNTY TRANSFER STATION MONITORING WELLS

8 Monitor Wells:

(CTMW-1S, CTMW-1I) (CTMW-2S, CTW-2I) (CTMW-3S, CTMW-3I) (CTMW-4S, CTMW-4I)

1 Field Duplicate (CTSFD-)

1 Field Blank (CTSFB-)* Optional

Parameters (Matrix Groundwater)

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)

WELL INFORMATION (field)

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

2 of 2
COC #

258227

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		Facility GMS#:	DATE: 3/2/2020
WELL NO: CTMW-3S	Well Type: Compliance	Well Location: South of retention Pond	SITE LOCATION: 1810 Lantana Road, Lantana, Fl

PVC PURGING DATA

Top of Casing Elevation (ft): 23.35	Static Depth To Water (ft): 14.40	Water Table Elevation NGVD (ft): 8.95	Column Height (ft): 21.9	Total Well Depth (ft): 36.30'					
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 4 GALLONS								
WELL CAPACITY (gal/ft): 0.16	= (36.30 - 14.40=21.9) X 0.16 = 3.5								
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 10:24	PURGE ENDED AT: 10:57	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	.50	14.65	6.23	25.1	230	1.05	176
1	4	8	.50	14.65	6.61	25.5	218	.79	81.7
1	4	12	.50	14.65	6.68	25.7	219	.94	17.8
1	4	16	.50	14.65	6.81	25.6	219	.80	8.41
FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					6.81	25.6	219	—	8.41
Color: lt. 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: 10:58	SAMPLING ENDED AT: 11:06	Weather: Cloudy, lt. rain			
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			Metals
2	HDPE		H2SO4		20	Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT): B. Downey M Alvarez			SAMPLER(S) SIGNATURE(S): [Signature] Manny Alvarez			

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		Facility GMS#:	DATE: 3/2/2010
WELL NO: CTMW-3I	Well Type: Compliance	Well Location: South of retention Pond	SITE LOCATION: 1810 Lantana Road, Lantana, Fl

PURGING DATA

Top of Casing Elevation(ft): 23.34	Static Depth To Water (ft): 14.41	Water Table Elevation NGVD (ft): 8.98	Column Height (ft): 58.05	Total Well Depth (ft): 72.46'					
WELL DIAMETER (in): 2" PVC 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 70									
WELL CAPACITY (gal/ft): 0.16 = (72.46' - 14.41 = 58.05) X 0.16 = 9.23 GALLONS									
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 10:24	PURGE ENDED AT: 10:41	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	1.8	14.65	6.80	25.0	481	1.16	4.36
1	10	20	1.8	14.65	6.64	24.9	480	.99	1.63
1	10	30	1.8	14.65	6.72	24.9	493	.89	.85
				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
FINAL FIELD VALUES →					6.72	24.9	493		.85
Color: lt. 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: 10:42	SAMPLING ENDED AT: 10:47	Weather: cool light rain	
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	20
2	HDPE		H2SO4	
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)				
SAMPLED BY (PRINT): B. Downey M. Alvarez			SAMPLER(S) SIGNATURE(S): Brenda Downey M. Alvarez	

