



REPORT OF ANALYSIS

Printed 03/20/11

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

Log #: 407885
Report Period 2011/Q1

Client Project ID Central County Surface
Collected By Client

Table with 2 columns: Laboratory Sample # and Client Sample #. Rows include 407885-001 (CTSSEB-022411), 407885-002 (CTSW-1), and 407885-003 (Metals Trip Blank).

Respectfully submitted,

Mike Kimmel

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-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 (AALI1), 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: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):
Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(6551601 1.003)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00909), Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)

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20-MAR-11

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

Reference: XENCO Report No: **407885**
Central County Surface Water
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 407885. 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. 407885 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 #: 407885-001

Client: Palm Beach Solid Waste Authority

XENCO Laboratories

Report for Analysis for DEP
Central County Surface

Diameter (in):

Depth to Water (ft):

Total Depth (ft):

Top of Casing (ft):

Evacuation (gal):

Sheen: NONE

Color: CLEAR

Odor: NONE

Matrix: Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____

Sampling Date/Time: 02/24/2011 09:35

Test Site ID #: _____

Report Period: 2011/Q1

Well Name: CTSSEB-022411

Well Purge (Y/N): N

Classification of Ground Water: Equipment 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	02/24/11 09:35	7.08 SU	1	SU	1	
000010	Temperature	Grab	N	E170.1	02/24/11 09:35	23.1 Deg C	1	Deg C	1	
000537	Specific conductance	Grab	N	SW9050	02/24/11 09:35	8.50 umhos/cm	1	umhos/cm	1	
082078	Turbidity	Grab	N	E180.1	02/24/11 09:35	0.100 NTU	1	NTU	1	
INORGANICS										
000576	Mercury	Grab	N	EPA 245.1	02/28/11 16:20	<0.00009 mg/L	0.0000	0.0000	mg/L	1
							9	27		

Order #: 407885-002

Client: Palm Beach Solid Waste Authority

XENCO Laboratories

Report for Analysis for DEP

Central County Surface

Diameter (in):

Depth to Water (ft):

Total Depth (ft):

Top of Casing (ft):

Evacuation (gal):

Sheen: NONE

Color: CLEAR

Odor: NONE

Matrix: Surface Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____

Sampling Date/Time: 02/24/2011 09:40

Test Site ID #: _____

Report Period: 2011/Q1

Well Name: CTSW-1

Well Purge (Y/N): N

Classification of Ground Water: Sample, Analytical Request

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	02/24/11 09:40	6.63 SU	1	SU	1	
000010	Temperature	Grab	N	E170.1	02/24/11 09:40	24.1 Deg C	1	Deg C	1	
000537	Specific conductance	Grab	N	SW9050	02/24/11 09:40	301 umhos/cm	10	umhos/cm	1	
082078	Turbidity	Grab	N	E180.1	02/24/11 09:40	0.530 NTU	0.1	NTU	1	
INORGANICS										
000576	Mercury	Grab	N	EPA 245.1	02/28/11 16:22	<0.00009 mg/L	0.0000	0.0000	mg/L	1
							9	27		

Order #: 407885-003

Client: Palm Beach Solid Waste Authority

XENCO Laboratories

Report for Analysis for DEP
Central County Surface

Diameter (in):
Depth to Water (ft):
Total Depth (ft):
Top of Casing (ft):
Evacuation (gal):

Sheen: NONE
Color:
Odor:
Matrix: Water, Laboratory Grade T

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____ Sampling Date/Time: 02/24/2011 00:00

Test Site ID #: _____ Report Period: 2011/Q1

Well Name: Metals Trip Blank 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	EPA 245.1	02/28/11 16:25	<0.00009 mg/L	0.0000	0.0000	mg/L	1
							9	27		



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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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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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 for accurate counting. Historically, this condition has been reported as "too numerous to count" (TNTC). The "Z" qualifier code shall be reported when the total number of colonies of all types is more than 200 in all dilutions of the sample. When applicable to the observed test results, a numeric value for the colony count for the microorganism tested shall be estimated from the highest dilution factor (smallest sample volume) used for the test and reported with the qualifier code.
 - ?** 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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