



REPORT OF ANALYSIS

Printed 09/21/11

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

Log #: 425130
Report Period 2011/Q3

Client Project ID Central County Transfer Stat
Collected By Client

Laboratory Sample #	Client Sample #
425130-001	CTSSEB-080911
425130-002	CTSW-1
425130-003	Metals Trip Blank 080911

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)

SEP 21 2011

RECEIVED



21-SEP-11

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

Reference: PACE Report No: **425130**
Central County Transfer Station 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 PACE Report Number 425130. 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. 425130 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,

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

Christina Raschke

Office Manager

CASE NARRATIVE SUMMARY



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

Project ID: *Central County Transfer S*
Work Order Number: *425130*

Report Date: *21-SEP-11*
Date Received: *09-AUG-11*

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

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

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

Christina Raschke
Office Manager

Order #: 425130-001

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 Station

Sheen: NONE

Color: Clear

Odor: None

Matrix: Water, Laboratory Grade T

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____

Sampling Date/Time: 08/09/2011 10:40

Test Site ID #: _____

Report Period: 2011/Q3

Well Name: CTSSEB-080911

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	08/09/11 10:40	6.72 SU	0.1	0.1	SU 1
000010	Temperature	Grab	N	E170.1	08/09/11 10:40	23.4 Deg C	0.1	0.1	Deg C 1
000537	Specific conductance	Grab	N	SW9050	08/09/11 10:40	4.90 umhos/cm	0.1	0.1	umhos/cm 1
082078	Turbidity	Grab	N	E180.1	08/09/11 10:40	0.140 NTU	0.1	0.1	NTU 1
INORGANICS									
000576	Mercury	Grab	N	SW7470A	08/16/11 10:56	<0.100 ug/L	0.100	0.200	ug/L 1
000572	Lead	Grab	N	EPA 200.8	08/19/11 13:33	<0.500 ug/L	0.500	1.00	ug/L 1
001147	Selenium	Grab	N	EPA 200.8	08/19/11 13:33	0.820VIJ ug/L	0.500	1.00	ug/L 1
001002	Arsenic	Grab	N	SW6010B	08/19/11 12:41	<5.00 ug/L	5.00	10.0	ug/L 1
001007	Barium	Grab	N	SW6010B	08/19/11 12:41	<5.00 ug/L	5.00	10.0	ug/L 1
001027	Cadmium	Grab	N	SW6010B	08/19/11 12:41	<0.500 ug/L	0.500	1.00	ug/L 1
001034	Chromium	Grab	N	SW6010B	08/19/11 12:41	<2.50 ug/L	2.50	5.00	ug/L 1
001042	Copper	Grab	N	SW6010B	08/19/11 12:41	<2.50 ug/L	2.50	5.00	ug/L 1
001045	Iron	Grab	N	SW6010B	08/19/11 12:41	<20.0 ug/L	20.0	40.0	ug/L 1
000929	Sodium	Grab	N	SW6010B	08/19/11 12:41	<0.500J mg/L	0.500	1.00	mg/L 1
Other									
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 08:50	0.0540 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
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 21:49	<0.0664 mg/L	0.0664	0.500	mg/L 1
000945	Sulfate	Grab	N	EPA 300	08/10/11 21:49	<0.0755 mg/L	0.0755	0.500	mg/L 1
000620	Nitrate as N	Grab	N	EPA 300	08/10/11 21:49	<0.00740 mg/L	0.00740	0.0500	mg/L 1
000560	Oil & Grease, HEM	Grab	N	E1664A	08/10/11 09:30	<1.40 mg/L	1.40	5.00	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		
	Total Petroleum Hydrocarbons (TPH)	Grab	N	EPA 1664	08/12/11 16:14	<1.40 mg/L	1.40	5.00	mg/L	1
000410	Alkalinity, Total (CaCO3)	Grab	N	SM2320B	08/16/11 10:30	<2.17 mg/L	2.17	5.00	mg/L	1
000601	Nitrogen, Total Kjeldahl	Grab	N	EPA 351.2	08/12/11 09:20	0.260I mg/L	0.250	0.500	mg/L	1

Order #: 425130-002

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 Station

Sheen: NONE

Color: Light Yellow

Odor: None

Matrix: Surface Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____ Sampling Date/Time: 08/09/2011 12:00

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

Well Name: CTSW-1 Well Purge (Y/N): N

Classification of Ground Water: SW-IIIIF 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 12:00	7.05 SU	0.1	0.1	SU 1
000010	Temperature	Grab	N	E170.1	08/09/11 12:00	30.8 Deg C	0.1	0.1	Deg C 1
000537	Specific conductance	Grab	N	SW9050	08/09/11 12:00	321 umhos/cm	0.1	0.1	umhos/cm 1
082078	Turbidity	Grab	N	E180.1	08/09/11 12:00	1.31 NTU	0.1	0.1	NTU 1
INORGANICS									
000576	Mercury	Grab	N	SW7470A	08/16/11 10:56	<0.100 ug/L	0.100	0.200	ug/L 1
000572	Lead	Grab	N	EPA 200.8	08/19/11 13:33	<0.500 ug/L	0.500	1.00	ug/L 1
001147	Selenium	Grab	N	EPA 200.8	08/19/11 13:33	0.820VIJ ug/L	0.500	1.00	ug/L 1
001002	Arsenic	Grab	N	SW6010B	08/19/11 12:41	<5.00 ug/L	5.00	10.0	ug/L 1
001007	Barium	Grab	N	SW6010B	08/19/11 12:41	7.20I ug/L	5.00	10.0	ug/L 1
001027	Cadmium	Grab	N	SW6010B	08/19/11 12:41	<0.500 ug/L	0.500	1.00	ug/L 1
001034	Chromium	Grab	N	SW6010B	08/19/11 12:41	<2.50 ug/L	2.50	5.00	ug/L 1
001042	Copper	Grab	N	SW6010B	08/19/11 12:41	<2.50 ug/L	2.50	5.00	ug/L 1
001045	Iron	Grab	N	SW6010B	08/19/11 12:41	29.4I ug/L	20.0	40.0	ug/L 1
000929	Sodium	Grab	N	SW6010B	08/19/11 12:41	22.6J mg/L	0.500	1.00	mg/L 1
Other									
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 08:51	0.0280I mg/L	0.0200	0.0500	mg/L 1
000340	COD - Chemical Oxygen Demand	Grab	N	EPA 410.4	08/13/11 13:29	22.6I mg/L	12.5	25.0	mg/L 1
000515	Total dissolved solids	Grab	N	SM2540C	08/11/11 16:30	207 mg/L	5.00	5.00	mg/L 1
000593	Chloride	Grab	N	EPA 300	08/10/11 22:42	32.9 mg/L	0.0664	0.500	mg/L 1
000945	Sulfate	Grab	N	EPA 300	08/10/11 22:42	26.7 mg/L	0.0755	0.500	mg/L 1
000620	Nitrate as N	Grab	N	EPA 300	08/10/11 22:42	<0.00740 mg/L	0.00740	0.0500	mg/L 1
000560	Oil & Grease, HEM	Grab	N	E1664A	08/10/11 09:30	<1.40 mg/L	1.40	5.00	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		
	Total Petroleum Hydrocarbons (TPH)	Grab	N	EPA 1664	08/12/11 16:13	<1.40 mg/L	1.40	5.00	mg/L	1
000410	Alkalinity, Total (CaCO3)	Grab	N	SM2320B	08/16/11 10:30	77.0 mg/L	2.17	5.00	mg/L	1
000601	Nitrogen, Total Kjeldahl	Grab	N	EPA 351.2	08/12/11 09:20	0.720J mg/L	0.250	0.500	mg/L	1

Order #: 425130-003

Client: Palm Beach Solid Waste Authority

XENCO Laboratories

Report for Analysis for DEP

Central County Transfer Station

Diameter (in):

Sheen: NONE

Depth to Water (ft):

Color: Clear

Total Depth (ft):

Odor: None

Top of Casing (ft):

Matrix: Water, Laboratory Grade T

Evacuation (gal):

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 10:56	<0.100 ug/L	0.100	0.200	ug/L 1
000572	Lead	Grab	N	EPA 200.8	08/19/11 13:33	<0.500 ug/L	0.500	1.00	ug/L 1
001147	Selenium	Grab	N	EPA 200.8	08/19/11 13:33	0.780VI ug/L	0.500	1.00	ug/L 1
001002	Arsenic	Grab	N	SW6010B	08/19/11 12:41	<5.00 ug/L	5.00	10.0	ug/L 1
001007	Barium	Grab	N	SW6010B	08/19/11 12:41	<5.00 ug/L	5.00	10.0	ug/L 1
001027	Cadmium	Grab	N	SW6010B	08/19/11 12:41	<0.500 ug/L	0.500	1.00	ug/L 1
001034	Chromium	Grab	N	SW6010B	08/19/11 12:41	<2.50 ug/L	2.50	5.00	ug/L 1
001042	Copper	Grab	N	SW6010B	08/19/11 12:41	<2.50 ug/L	2.50	5.00	ug/L 1
001045	Iron	Grab	N	SW6010B	08/19/11 12:41	<20.0 ug/L	20.0	40.0	ug/L 1
000929	Sodium	Grab	N	SW6010B	08/19/11 12:41	<0.500J 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.

425130

Section A Required Client Information:
 Company: **PO SWA**
 Address: **7501 N. Dos Rd**
WPB PA 33412
 Email To: _____
 Phone: **610-4100** Fax: **610-340**
 Requested Due Date/TAT: _____

Section B Required Project Information:
 Report To: **Thomas Serra**
 Copy To: _____
 Purchase Order No.: _____

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

REGULATORY AGENCY:
 NPDES GROUND WATER DRINKING WATER
 UST RORA OTHER _____

Site Location STATE: _____

Page: **1** of **2**

1509042

ITEM #	Section D Required Client Information	Matrix Codes MATRIX L CODE DW .WT Water .WW Waste Water .P Product .SL Soil/Solid .OL Oil .WP Wipe .AR Air .TS Tissue .OT Other	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP) (see vial codes to left)	MATRIX CODE (see vial codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₈ Methanol Other	Requested Analysis: Filtered (Y/N)	Temp in °C	Received on Ice (Y/N)	Custody (Y/N)	Sealed Cooler (Y/N)	Samples Intact (Y/N)	
			COMPOSITE START	COMPOSITE END/GRAB												DATE
1	CITSEB-080911	Drinking Water	8/11	10:40	SG	SG	5			Y						
2	CITSLW-1	Water	8/11	12:00	SG	SG	5			Y						
3	Metals Trip Blank 080911	Water														
4																
5																
6																
7																
8																
9																
10																
11																
12																

Residual Chlorine (Y/N) **Sampled for lead parameters**

Analysis Test 1 **500 mg/L of lead 8/11/11**

Recharge

Additional Comments: **lead time 8/11/11 16:00**
add galvabeta 8-11 17:00

RELEASING BY / AFFILIATION: **lead time** DATE: **8/11/11** TIME: **16:00**
 ACCEPTED BY / AFFILIATION: **add galvabeta** DATE: **8-11** TIME: **17:00**

SAMPLER NAME AND SIGNATURE: **ORIGINAL**
 PRINT Name of SAMPLER: **Brenda J. Alvarez** DATE Signed (MM/DD/YY): **8/8/11**
 SIGNATURE OF SAMPLER: **Brenda J. Alvarez**

*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.

425130

CENTRAL COUNTY TRANSFER STATION

SWA PERMIT # C.O.A. F.5.E. I & II

SURFACE WATER

1 Surface Site CTSW-1

1 Equipment Blank CTSSEB-

Parameters (Matrix: Surface Water)

A. Metals

Arsenic

Barium

Cadmium

Chromium

Copper

Iron

Lead

Mercury

Sodium

Selenium

B. Indicator Parameters

Ammonia Nitrogen

Total Alkalinity

C.O.D.

TRPH (Total Recoverable Petroleum Hydrocarbons)

Foaming Agents (MBAS)

Nitrate N

TKN (Total Kjeldahl Nitrogen)

TDS (Total Dissolved Solids)

Oil & Grease

Sulfate

Chloride

C. Field Parameters

Conductivity (field)

pH (field)

Temperature (field)

Turbidity (field)

Read Staff Gauge and Read Meter at Pump Station

Pass

2 of 2

COC # 1509042

Pace

SOLID WASTE AUTHORITY DIVISION OF ENVIRONMENTAL PROGRAMS SURFACE SITE DATA SHEET

Facility Identification: Central County Transfer Station Facility GMS#

Sample Type: Grab

Sample Name: CTSSEB -080911 Date: 8-9-11
Time: 10:40

Depth of Sample: _____
Description: _____

Notes and Comments
Weather: in SWA LAB

Conductivity on scale X US
PH < 2.8 in preservative

Field Parameters	Units	Standard Appearance
Temperature:	23.4 C	Color: clear Odor: no odor no smell
Specific Cond:	4.9 uMHOS/cm	
Redox Potential		
PH:	6.72 Std. Units	
Turb:	.14 NTU	
D.O.	Mg/L	

SS SCOOP
Bucket#
Beaker#

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

Sampled By: Brenda Carey
Manny Alvarez

Method of Shipment: Pace Labs

SOLID WASTE AUTHORITY DIVISION OF ENVIRONMENTAL PROGRAMS SURFACE SITE DATA SHEET

Facility Identification: Central County Transfer Station

Sample Type: Grab

Sample Name: CTSW-1

Date: 8-9-11

Time: 12:00

Depth of Sample: 2-4"

Description: Adjacent to Storm water structure in pond

staff gauge s- 6.09

772835 Meter

Notes and Comments

Weather: Partly cloudy hot + humid
 Conductivity on scale X
 PH < in preservative

Field Parameters	Units	Standard Appearance
Temperature:	<u>30.8</u> C	Color: <u>Very light yellow</u> Odor: <u>no odor</u> <u>no sheen</u>
Specific Cond:		
Specific Cond: ATC	<u>321</u> uMHOS/cm	
PH:	<u>7.05</u> Std. Units	
Turb:	<u>1.31</u> NTU	
D.O.		Mg/L

SS scoop

Bucket#

Beaker#

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

Sampled By: Brenda Davney
Murray Alvarez

Method of Shipment Pace

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____



Client Name: Palm Beach SWA Project # 425730

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 R

(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 reading 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: _____	Size & Qty of Bottles Received
Production Code: _____	_____ x 5 Gal
Date/Time Opened: _____	_____ x 2.5 Gal
Number of Unopened Bottles Remaining: _____	_____ x 1 Gal
	_____ x 1 Liter
	_____ x 500 mL
	_____ x 250 mL
	_____ x Other: _____
Extra Sample in Shed: Yes No	