



REPORT OF ANALYSIS
Printed 07/16/2012

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

Pace Project Number: 3542634
Report Period: 2011/Q4

Client Project ID: Central Transfer Station SW

Lab Sample ID	Client Sample ID
3542634001	CTSSEB-110811
3542634002	CTSW-1
3542634003	Metals Trip Blank 110811

JUL 16 2012
RECEIVED

Sincerely,

A handwritten signature in cursive script that reads "Martha Montero".

Martha Montero

Florida Certifications:
E83079 - Ormond Beach
E86240 - South Florida

Order # : 3542634001

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

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

Project Name : Central Transfer Station
 Sheen : None
 Color : Clear
 Odor : None
 Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : N/A
 Test Side ID # : CTSSEB-110811
 Well Name : CTSSEB-110811
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 11/08/2011 12:30
 Report Period : 2011/Q4
 Well Purge (Y/N) : N
 Well Type : () Background
 () Intermediate
 () Compliance
 () 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	Composite	N		11/08/2011 12:30	7.4 umhos/cm		umhos/cm	1
000010	Field Temperature	Composite	N		11/08/2011 12:30	23.8 deg C		deg C	1
000664	Field pH	Composite	N		11/08/2011 12:30	7.02 Std. Units		Std. Units	1
082078	Turbidity	Composite	N		11/08/2011 12:30	2.9 NTU		NTU	1

OTHER

000593	Chloride	Composite	N	EPA 300.0	11/09/2011 21:19	0.41 lmg/L	0.25	0.50	mg/L	1
000620	Nitrate as N	Composite	N	EPA 300.0	11/09/2011 21:19	<0.025mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Composite	N	EPA 300.0	11/09/2011 21:19	0.33 lmg/L	0.25	0.50	mg/L	1
000599	Nitrogen, Ammonia	Composite	N	EPA 350.1	11/10/2011 12:32	<0.020mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Composite	N	EPA 351.2	11/16/2011 11:20	<0.086mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Composite	N	EPA 410.4	11/10/2011 16:00	<12.5mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Composite	N	SM 2320B	11/16/2011 11:28	<5.0mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Composite	N	SM 2540C	11/09/2011 17:45	<5.0mg/L	5.0	5.0	mg/L	1
	Surfactants	Composite	N	SM 5540C	11/10/2011 09:45	0.074 lmg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Composite	N	EPA 200.8	11/09/2011 17:56	<0.50 ug/L	0.50	1.0	ug/L	1
001007	Barium	Composite	N	EPA 200.8	11/09/2011 17:56	3.1 ug/L	0.50	1.0	ug/L	1
001027	Cadmium	Composite	N	EPA 200.8	11/09/2011 17:56	<0.050 ug/L	0.050	0.10	ug/L	1
001034	Chromium	Composite	N	EPA 200.8	11/09/2011 17:56	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Composite	N	EPA 200.8	11/09/2011 17:56	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Composite	N	EPA 200.8	11/09/2011 17:56	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Composite	N	EPA 200.8	11/09/2011 17:56	<0.50 ug/L	0.50	1.0	ug/L	1
001045	Iron	Composite	N	EPA 6010	11/10/2011 04:39	<20.0 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Composite	N	EPA 6010	11/10/2011 04:39	<0.50 mg/L	0.50	1.0	mg/L	1
000576	Mercury	Composite	N	EPA 7470	11/10/2011 01:23	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Composite	N	EPA 1664A	11/09/2011 22:57	<1.5 mg/L	1.5	5.3	mg/L	1
	Total Petroleum Hydrocarbons	Composite	N	EPA 1664A	11/09/2011 17:00	<1.5 mg/L	1.5	5.3	mg/L	1

Order #: 3542634002

Pace Analytical Services, Inc.

Client: Palm Beach Solid Waste Authority

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

Project Name: Central Transfer Station
 Sheen: None
 Color: Slight Yellow
 Odor: None
 Matrix: Surface Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: N/A
 Test Side ID #: _____
 Well Name: CTSW-1
 Classification of Ground Water: SW-IIIF
 Groundwater Elevation (NGVD): _____

Sampling Date/Time: 11/08/2011 12:50
 Report Period: 2011/Q4
 Well Purge (Y/N): N
 Well Type: () Background
 () Intermediate
 () Compliance
 () 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	Composite	N		11/08/2011 12:50	334 umhos/cm		umhos/cm	1
000010	Field Temperature	Composite	N		11/08/2011 12:50	24.3 deg C		deg C	1
000664	Field pH	Composite	N		11/08/2011 12:50	7.14 Std. Units		Std. Units	1
082078	Turbidity	Composite	N		11/08/2011 12:50	0.94 NTU		NTU	1

OTHER

000593	Chloride	Composite	N	EPA 300.0	11/09/2011 21:36	29.3 mg/L	0.25	0.50	mg/L	1
000620	Nitrate as N	Composite	N	EPA 300.0	11/09/2011 21:36	0.037 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Composite	N	EPA 300.0	11/09/2011 21:36	22.0 mg/L	0.25	0.50	mg/L	1
000599	Nitrogen, Ammonia	Composite	N	EPA 350.1	11/10/2011 12:33	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Composite	N	EPA 351.2	11/16/2011 11:22	0.52 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Composite	N	EPA 410.4	11/10/2011 16:00	25.4 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Composite	N	SM 2320B	11/16/2011 11:28	92.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Composite	N	SM 2540C	11/09/2011 17:46	206 mg/L	5.0	5.0	mg/L	1
	Surfactants	Composite	N	SM 5540C	11/10/2011 09:45	0.16 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Composite	N	EPA 200.8	11/09/2011 17:58	0.92 ug/L	0.50	1.0	ug/L	1
001007	Barium	Composite	N	EPA 200.8	11/09/2011 17:58	7.8 ug/L	0.50	1.0	ug/L	1
001027	Cadmium	Composite	N	EPA 200.8	11/09/2011 17:58	<0.050 ug/L	0.050	0.10	ug/L	1
001034	Chromium	Composite	N	EPA 200.8	11/09/2011 17:58	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Composite	N	EPA 200.8	11/09/2011 17:58	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Composite	N	EPA 200.8	11/09/2011 17:58	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Composite	N	EPA 200.8	11/09/2011 17:58	<0.50 ug/L	0.50	1.0	ug/L	1
001045	Iron	Composite	N	EPA 6010	11/10/2011 04:43	20.5 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Composite	N	EPA 6010	11/10/2011 04:43	18.4 mg/L	0.50	1.0	mg/L	1
000576	Mercury	Composite	N	EPA 7470	11/10/2011 01:32	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Composite	N	EPA 1664A	11/09/2011 22:58	<1.4 mg/L	1.4	5.1	mg/L	1
	Total Petroleum Hydrocarbons	Composite	N	EPA 1664A	11/09/2011 17:00	<1.4 mg/L	1.4	5.1	mg/L	1

Order # : 3542634003

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

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

Project Name : Central Transfer Station
Sheen : None
Color : Clear
Odor : None
Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

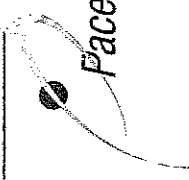
Facility GMS # : N/A
Test Side ID # : Metals Trip Blank 110811
Well Name : Metals Trip Blank 110811
Classification of Ground Water : Trip Blank
Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 11/08/2011 11:08
Report Period : 2011/Q4
Well Purge (Y/N) : N
Well Type : () Background
() Intermediate
() Compliance
(X) Other

Store Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	

INORGANICS

001002	Arsenic	Composite	N	EPA 200.8	11/09/2011 18:00	<0.50 ug/L	0.50	1.0	ug/L	1
001007	Barium	Composite	N	EPA 200.8	11/09/2011 18:00	<0.50 ug/L	0.50	1.0	ug/L	1
001027	Cadmium	Composite	N	EPA 200.8	11/09/2011 18:00	<0.050 ug/L	0.050	0.10	ug/L	1
001034	Chromium	Composite	N	EPA 200.8	11/09/2011 18:00	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Composite	N	EPA 200.8	11/09/2011 18:00	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Composite	N	EPA 200.8	11/09/2011 18:00	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Composite	N	EPA 200.8	11/09/2011 18:00	<0.50 ug/L	0.50	1.0	ug/L	1
001045	Iron	Composite	N	EPA 6010	11/10/2011 04:48	<20.0 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Composite	N	EPA 6010	11/10/2011 04:48	<0.50 mg/L	0.50	1.0	mg/L	1
000576	Mercury	Composite	N	EPA 7470	11/10/2011 01:35	<0.10 ug/L	0.10	0.20	ug/L	1



Pace Analytical
www.paceanalabs.com

CHAIN OF CUSTODY RECORD

LAB W.O # _____

Quote: _____

Page 1 of 2

Company Name: PO SWA PO# _____
 Address: 7501 N. JOG Rd
 City: WRR State: FL Zip: 33412
 Attn: Thomas Sims Fax# _____
 email: _____
 Project Name: Central County Transfer Station Proj # _____
 Sample Signature: Shirley W. Walker
 Signature: Thomas Sims Circle One Event: Daily Weekly Monthly Annual N/A

Sample #	Sample ID	Collect. Date	Collect. Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	Parameters		# of Containers Size/Type
								pH	Pres Codes	
1	CTSSB-110811	11-8-11	12:30	AFW			5			1 16ozP
2	CT5W-1	11-8-11	12:50	S			10			
3										
4	Metals Top Blank		110811				1			
5										
6										
7										
8										
9										
10										

Circle QA/QC Report Level:
 1 2 3 4 CLP AFCEE
 OAPP Other _____
 Short Hold Y _____ N _____
 Relinquished by: Shirley Walker Date: 11-8-11 Time: 16:00
 Affiliation: _____
 Received by: _____
 Affiliation: _____
 Date: _____
 Time: _____

Container Codes
 AV Amber Vial
 CV Clear Vial
 P Plastic
 AL Amber Lier
 CL Clear Lier
 AC Amber Plastic
 AG Amber Glass
 S Sch Jar
 Other _____
 PPV Prepreserved Vial
 4oz, 8oz, 16oz, 32oz or 1L, other.
 Example: 4ozP = 4oz Plastic, 8ozS = 8oz Sol Jar

Matrix Codes
 SD Solid Waste
 GW Ground Water
 EFF Effluent
 AFW Analytical Free H2O
 DW Drinking Water
 SW Surface Water
 ML Misc. Liquid
 OL Oil
 SL Sludge
 SO Soil Sediment
 AV Aqueous
 L Leachate
 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
 L. Other

Required State Certification	COC Condition	EDD (Fees May Apply)	Received by	Affiliation	Date	Time
FL GA SC NC NJ PA LA TX IL	OK Incomplete	ADAPT SEDD ERPIMS TSV CSV Other	Received by	Affiliation	Date	Time

Coolers #s - Temp °C
 1 _____ 2 _____ 3 _____ 4 _____ 5 _____
 Non-Conformance Found? _____
 Samples INTACT upon arrival? _____
 Received on Wet Ice? _____
 Proper Preservatives Indicated? _____
 Received within holding time? _____
 Custody seals intact? _____
 Volatiles rec'd without headspace? _____
 Proper Containers Used? _____

CENTRAL COUNTY TRANSFER STATION Surface Water

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

1 Surface Site CTSW-1

1 Equipment Blank (CTSSEB-)

Parameters (Matrix: Surface Water)

A. Metals

Arsenic	Chromium	Lead	Sodium
Barium	Copper	Mercury	Selenium
Cadmium	Iron		

B. Indicator Parameters

Ammonia Nitrogen	Nitrate N	Oil & Grease
Total Alkalinity	TKN (Total Kjeldahl Nitrogen)	Sulfate
C.O.D.	TDS (Total Dissolved Solids)	Chloride
TRPH (Total Recoverable Petroleum Hydrocarbons)		
Foaming Agents (MBAS)		

C. Field Parameters

- Conductivity (field)
- pH (field)
- Temperature (field)
- Turbidity (field)

READ STAFF GAUGE

READ METER AT MASTER PUMP STATION

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-110811** Date: **11-8-11**

Time: **12:30**

Depth of Sample: _____

Description: _____

Notes and Comments

Weather: **Partly sunny**
+ warm

Conductivity on scale X **US**

PH < **2.0** in preservative

Field Parameters	Units	Standard Appearance
Temperature:	23.8 C	Color: Clear Odor: no odor no sheen
Specific Cond:	7.4 uMHOS/cm	
Redox Potential	7.5	
PH:	7.02 Std. Units	
Turb:	2.9 NTU	
D.O.	Mg/L	

Bucket# **D**

Beaker# **A**

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

Sampled By: *Brenda Denny*

Method of Shipment **PACE**

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: **11-8-11**

Time: **12:50**

Depth of Sample: ~ 4-6 "

Description: Adjacent to Storm water structure in pond

staff gauge (S) 10.54

staff gauge (W) 10.55

Notes and Comments

Weather: *Partly sunny + warm*

Conductivity on scale XUS

PH *2.0* in preservative

Field Parameters	Units	Standard Appearance
Temperature:	24.3 C	Color: <i>very light yellow</i> Odor: <i>no odor no sheen</i>
Specific Cond:	uMHOS/cm	
Specific Cond: ATC	334 uMHOS/cm	
PH:	7.14 Std. Units	
Turb:	0.94 NTU	
D.O.	Mg/L	

Bucket# *D*

Beaker# *A*

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis
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804377 - pump station meter

Sampled By: *Brenda Parson*

Method of Shipment