



REPORT OF ANALYSIS

Printed 09/16/2013

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

Pace Project Number: 35103890
Report Period: 2013/Q3

Client Project ID: Central CO Transfer Station SW

Lab Sample ID

Client Sample ID

35103890001
35103890002
35103890003

CTSSE BLANK -081213
CTSW-1
Metals Trip Blank 081213

RECEIVED

SEP 16 2013

Sincerely,

A handwritten signature in black ink that reads 'Martha Montero'.

Martha Montero

Florida Certifications:

E83079 - Ormond Beach
E86240 - South Florida

Pace Analytical Services, Inc.

Project Name : Central CO Transfer Station SW

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

Order # : 35103890001
 Sheen : No sheen
 Color : Clear
 Odor : No odor
 Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : C.P.A.F.5.E. I & II
 Test Side ID # : NA
 Well Name : CTSSE BLANK -081213
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 08/12/2013 11:00
 Report Period : 2013/Q3
 Well Purge (Y/N) : N
 Well Type : () Background
 () Intermediate
 () Compliance
 (X) 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	Grab	N		08/12/2013 11:00	3.1 umhos/cm		umhos/cm	1
000010	Field Temperature	Grab	N		08/12/2013 11:00	24.0 deg C		deg C	1
000664	Field pH	Grab	N		08/12/2013 11:00	6.42 Std. Units		Std. Units	1
082078	Turbidity	Grab	N		08/12/2013 11:00	0.24 NTU		NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/13/2013 14:36	<2.5 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	08/13/2013 14:36	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	08/13/2013 14:36	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/19/2013 15:41	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/15/2013 15:02	<0.086 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/15/2013 19:06	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/15/2013 22:44	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/15/2013 18:34	<5.0 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	08/13/2013 16:16	<0.059 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	08/15/2013 16:49	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	08/15/2013 16:49	<5.0 ug/L	5.0	10.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/15/2013 16:49	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/15/2013 16:49	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/15/2013 16:49	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	08/15/2013 21:01	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/15/2013 21:01	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	08/15/2013 21:01	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/14/2013 08:33	<0.028 ug/L	0.028	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	08/13/2013 22:12	<1.4 mg/L	1.4	5.2	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	08/13/2013 21:42	<1.4 mg/L	1.4	5.2	mg/L	1

Pace Analytical Services, Inc.

Project Name : Central CO Transfer Station SW

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

Order # : 35103890002
 Sheen : No sheen
 Color : Very light yellow
 Odor : No odor
 Matrix : Surface Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : C.P.A.F.5.E. I & II
 Test Side ID # : PBCC09
 Well Name : CTSW-1
 Classification of Ground Water : SW-IIIF
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 08/12/2013 11:15
 Report Period : 2013/Q3
 Well Purge (Y/N) : N
 Well Type : () Background
 () Intermediate
 () Compliance
 (X) 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	Grab	N		08/12/2013 11:15	209 umhos/cm		umhos/cm	1
000010	Field Temperature	Grab	N		08/12/2013 11:15	30.9 deg C		deg C	1
000664	Field pH	Grab	N		08/12/2013 11:15	8.21 Std. Units		Std. Units	1
082078	Turbidity	Grab	N		08/12/2013 11:15	1.67 NTU		NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/13/2013 14:48	18.2 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	08/13/2013 14:48	0.13 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	08/13/2013 14:48	17.6 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/19/2013 15:42	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/16/2013 14:37	0.55 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/15/2013 19:06	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/15/2013 22:49	45.6 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/15/2013 18:35	124 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	08/13/2013 16:16	0.16 l mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	08/15/2013 16:53	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	08/15/2013 16:53	<5.0 ug/L	5.0	10.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/15/2013 16:53	23.5 l ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/15/2013 16:53	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/15/2013 16:53	14.1 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	08/15/2013 21:04	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/15/2013 21:04	1.1 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	08/15/2013 21:04	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/14/2013 08:35	<0.028 ug/L	0.028	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	08/13/2013 22:12	<1.5 mg/L	1.5	5.2	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	08/13/2013 21:42	<1.5 mg/L	1.5	5.2	mg/L	1

Pace Analytical Services, Inc.

Project Name : Central CO Transfer Station SW

Diameter (in) :

Depth to Water (ft) :

Total Depth (ft) :

Top of Casing (ft) :

Evacuation (gal) :

Order # : 35103890003

Sheen : No Sheen

Color : Clear

Odor : No Odor

Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : C.P.A.F.5.E. I & II

Sampling Date/Time : 08/12/2013 11:15

Test Side ID # : CTSSEB-

Report Period : 2013/Q3

Well Name : Metals Trip Blank 081213

Well Purge (Y/N) : N

Classification of Ground Water : Equipment Blank

Well Type : () Background

Groundwater Elevation (NGVD) : _____

() Intermediate

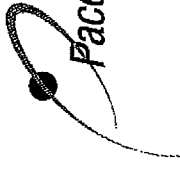
() Compliance

(X) Other

Storet 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	Grab	N	EPA 6010	08/15/2013 17:02	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	08/15/2013 17:02	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	08/15/2013 17:02	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/15/2013 17:02	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/15/2013 17:02	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/15/2013 17:02	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	08/15/2013 21:07	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/15/2013 21:07	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	08/15/2013 21:07	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/14/2013 08:37	<0.028 ug/L	0.028	0.20	ug/L	1



W0# 35103890
 35103890

LAB CUSTODY RECORD

Quote: _____
 Page 1 of 2

Company Name: **PA SWA** PO# _____
 Address: **7501 N. 505 Rd** zip: **33412**
 City: **LEES** State: **FL**
 Attn: **Thomas Sma** Fax# _____
 email: _____
 Project Name: **Cegidial Cemetery Transfer**
 Sampler Name: **MA Waver** Phone: _____
 Signature: *[Signature]* Date: _____
 Sample ID: _____
 Matrix Code: _____
 Collect Date: _____
 Collect Time: _____
 One Event: _____
 Quarterly: _____
 Semi-Annual: _____
 Annual: _____
 Monthly: _____
 N/A: _____

LAB ANALYSIS

Sample ID: _____
 TBO: _____
 PAK: _____
 Code: _____

Parameters: _____
 # of Containers: _____
 Spill Type: _____

EXAMPLE
 Diss. Lead 6010

#	Sample ID	Matrix Code	Collect Date	Collect Time	Main Code	Circumstances				# of Containers	Spill Type	Remarks
						Today	1D	2D	3D			
1	CTSSBLANIC-081213	AFW	8/12/13	11:00	AFW					6		
2	CTSLW-1	SW	8/12/13	11:15	SW					6		
3												
4	Moldy Tray	Blank	081213							1		
5												
6												
7												
8												
9												
10												

Item	Requisition #	Short Hold		Abilitation	Received by	Date	Time	Application	Date	Time	Required State Certification							
		Y	N								FL	GA	SC	NC	TX	IL		
1	Blank Tray				MLW	8/12/13	16:00	PAE	8-12-13	16:00								
2	Blank Tray				MLW	8-12-13	16:30	PAE	8-12-13	16:30								
3	Blank Tray				MLW	8-12-13	2:00	PAE	08/13/13	00:10								
4																		

Container Type Codes
 AV Amber Vial
 PV Preserved Vial
 P Plastic
 AL Amber Litter
 CL Clear Litter
 AP Amber Plastic
 AG Amber Glass
 SJ Soil Jar
 Other _____
 PPV Preserved Vial
 Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other
 Example: 4ozP = 4oz Plastic, 8ozSG = 8oz Soil Jar

Matrix Codes
 SD Solid Waste
 GW Ground Water
 EFF Effluent
 AFW Analyte Free H2O
 MW Drinking Water
 SW Surface Water
 ML Misc. Liquid
 OL Oil
 SL Sludge
 SO Soil Sediment
 AQ Aqueous
 D Detritus
 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
 O. Other

REMARKS
 See field sheet for details
 3193
 166 Coolers #s Temp C
 102 3 4 5

STATUS
 Non-Compliance Found?
 Samples INTACT upon arrival?
 Received on Wet Ice?
 Proper Preservatives indicated?
 Received within holding time?
 Custody seals intact?
 Vial(s) rec'd without headspace?
 Proper Containers Used?

CENTRAL COUNTY TRANSFER STATION

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

SURFACE WATER

1 Surface Site **CTSW-1**

1 Equipment Blank **CTSSE Blank-**

1 Field Blank **CTSSF Blank- *Optional**

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 and Read Meter at Pump Station

2 of 2 C.O.C #153763

SOLID WASTE AUTHORITY DIVISION OF ENVIRONMENTAL PROGRAMS SURFACE SITE DATA SHEET

Facility Identification: Central County Transfer Station Facility GMS#

Sample Type: Grab

Sample Name: **CTSSEBLANK-081213** Date: **8-12-13**
Time: **11:00**

Equipment blanks are collected before sampling .
DI water supplied
by the Laboratory is poured into the precleaned equipment
and then poured into the sample bottles.
This process is repeated until all sampling bottles are filled.

Notes and Comments
Weather: **Sunny hot, Breezy**
Conductivity on scale **XUS**
PH **< 2.0** in preservative
Pace DI water
071113-464
071113-442
Bucket# **F**
Beaker# **N**

Field Parameters	Units	Standard Appearance
Temperature:	24.0 C	Color: Clear
Specific Cond:	3.1 uMHOS/cm	
Redox Potential	-	Odor: no odor no sheen
PH:	6.42 Std. Units	
Turb:	0.24 NTU	
D.O.	- Mg/L	

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: *[Signature]*
Brenda Daeny

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: **8-12-13**

WACS Facility ID: **PBCC01**

WACS Test Site ID: **PBCC09**

Time: **11:15**

Depth of Sample: 2-4"

Notes and Comments

Description: Adjacent to Storm water structure in pond

Weather: **Sunny, hot
Breezy**

Staff gauge 10.10 (South)

Conductivity on scale X **US**

Staff gauge 10.15 (North)

PH **< 2.0** in preservative

meter 072956

Field Parameters	Units	Standard Appearance
Temperature:	30.9 C	Color: Very light yellow
Specific Cond:	uMHOS/cm	
Specific Cond: ATC	209 uMHOS/cm	Odor: No odor. No shreen
PH:	8.21 Std. Units	
Turb:	1.67 NTU	
D.O.	Mg/L	

Bucket# **F**

Beaker# **N**

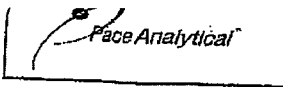
Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: *[Signature]*

Brenda Daemy

Method of Shipment: **Pace**



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 04

Document Revised:
September 23, 2011
Issuing Authorities:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: PB SWA Project # 35103890

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 _____

Date and Initials of person examining contents: 08/31/12 MR.

Thermometer Used F-160 Type of Ice: Wet Blue None

Cooler Temperature °C: 0.5 (Visual) D.O. (Correction Factor) 0.5 (Actual)

(Temp should be above freezing to 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"/>
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"/>

No Labels: No Time/Date on Labels:

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