



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

Pace Project Number: 35126977
Report Period: 2014/Q1

Client Project ID: Central Transfer Station Surfa

RECEIVED

APR 01 2014

Lab Sample ID

Client Sample ID

35126977001
35126977002
35126977003

CTSSE BLANK - 021914
CTSW-1
Metals Trip Blank -021914

Sincerely,

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

Martha Montero

Florida Certifications:

E83079 - Ormond Beach
E86240 - South Florida

Pace Analytical Services, Inc.

Project Name : Central Transfer Station Surfa
 Diameter (in) :
 Depth to Water (ft) :
 Total Depth (ft) :
 Top of Casing (ft) :
 Evacuation (gal) :

Order # : 35126977001
 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 - 021914
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 02/19/2014 11:50
 Report Period : 2014/Q1
 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		02/19/2014 11:50	12.2 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		02/19/2014 11:50	24.1 deg C			deg C	1
000664	Field pH	Grab	N		02/19/2014 11:50	6.85 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		02/19/2014 11:50	0.31 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	02/21/2014 07:23	<2.5 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	02/21/2014 07:23	<0.043 mg/L	0.043	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	02/21/2014 07:23	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	03/02/2014 15:06	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/26/2014 14:47	<0.086 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	02/28/2014 12:37	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	02/28/2014 16:01	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	02/24/2014 18:03	<5.0 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	02/20/2014 16:46	<0.059 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/22/2014 11:31	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/22/2014 11:31	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/22/2014 11:31	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/22/2014 11:31	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	02/22/2014 11:31	<5.0 ug/L	5.0	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	02/22/2014 11:31	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/22/2014 11:31	1.9 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	02/22/2014 14:44	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/22/2014 14:44	<0.93 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	02/21/2014 11:42	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	03/02/2014 19:47	<1.5 mg/L	1.5	5.3	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	03/02/2014 19:47	<1.5 mg/L	1.5	5.3	mg/L	1

Pace Analytical Services, Inc.

Project Name : Central Transfer Station Surfa
 Diameter (in) :
 Depth to Water (ft) :
 Total Depth (ft) :
 Top of Casing (ft) :
 Evacuation (gal) :

Order # : 35126977002
 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-IIIIF
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 02/19/2014 12:00
 Report Period : 2014/Q1
 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		02/19/2014 12:00	298 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		02/19/2014 12:00	23.8 deg C			deg C	1
000664	Field pH	Grab	N		02/19/2014 12:00	7.36 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		02/19/2014 12:00	1.25 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	02/21/2014 09:35	14.5 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	02/21/2014 09:35	<0.043 mg/L	0.043	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	02/21/2014 09:35	15.7 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	03/02/2014 15:09	0.029 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/26/2014 14:49	0.68 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	02/28/2014 12:37	32.0 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	02/28/2014 16:09	100 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	02/24/2014 18:04	186 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	02/20/2014 16:46	<0.059 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/22/2014 11:35	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/22/2014 11:35	9.3 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/22/2014 11:35	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/22/2014 11:35	53.4 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	02/22/2014 11:35	<5.0 ug/L	5.0	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	02/22/2014 11:35	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/22/2014 11:35	11.8 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	02/22/2014 14:47	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/22/2014 14:47	2.0 ug/L	0.93	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	02/21/2014 11:44	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	03/02/2014 19:48	<1.5 mg/L	1.5	5.2	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	03/02/2014 19:48	<1.5 mg/L	1.5	5.2	mg/L	1

Pace Analytical Services, Inc.

Project Name : Central Transfer Station Surfa
 Diameter (in) : 0
 Depth to Water (ft) : 0
 Total Depth (ft) : 0
 Top of Casing (ft) : 0
 Evacuation (gal) : 0

Order # : 35126977003
 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 # : CTSSEB-
 Well Name : Metals Trip Blank -021914
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 02/19/2014 12:00
 Report Period : 2014/Q1
 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	

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/22/2014 11:38	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/22/2014 11:38	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/22/2014 11:38	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/22/2014 11:38	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	02/22/2014 11:38	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	03/13/2014 10:52	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	02/22/2014 14:51	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/22/2014 14:51	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	02/22/2014 14:51	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	02/21/2014 11:46	<0.10 ug/L	0.10	0.20	ug/L	1

WO#: 35126977



LABORATORY RECORD

Quote: _____

Page 1 of 2



Company Name: PB SWA PO# _____
 Address: 7501 N. JOG RD
 City: WRB State: FL Zip: 33412
 Attn: Thomms Simc Fax# _____
 email: _____
 Project Name: Central County Transfer Station
 Sampler Name: SURFACE WATER
 Sampler Signature: Brenda J. _____

Circle One Event: Daily Weekly Monthly
 Quarterly Semi-Annual Annual N/A
 Proj # _____
 Collect Date: 3/14/14
 Collect Time: 11:50
 Matrix Code: ATW
 Sample ID: CTSW-1
 Date: 3/14/14

#	Sample ID	Collect Date	Collect Time	Matrix Code	Parameters			
					PH	DO	TEMP	TSS
1	CTSSE SURFACE WATER	3/14/14	11:50	ATW				
2	CTSW-1	3/14/14	12:00	S				
3								
4								
5	Nedals Trip Blank	02/19/14						
6								
7								
8								
9								
10								

Parameters
 don't put y back
 8/12/13

#	Sample ID	Collect Date	Collect Time	Matrix Code	# of Containers			
					1	2	3	4
1	EXAMPLE							
2								
3								
4								
5								
6								
7								
8								
9								
10								

Item	Relinquished by	Date	Affiliation	Received by	Date	Affiliation	Required State Certification			
							FL	GA	SC	NC
1	Brenda J. _____	2-19-14	Pace	MLU	2-19-14	Pace				
2	Brenda J. _____	2-19-14	Pace	UNMANAGED	2-20-14	PACE				
3										
4										

Container Type Codes
 AV Amber Vial
 CV Clear Vial
 P Plastic
 AL Amber Libr
 CL Clear Libr
 AP Amber Plastic
 AG Amber Glass
 SJ Soil Jar
 Other _____
 Preserved Vial
 PPV 4oz, 8oz, 16oz, 32oz or 1L, other
 Size(s): 2oz, 4oz, 8oz, 16oz, 250ml, 125 ml
 Example: 4ozP = 4oz Plastic, 8ozSJ = 8oz Soil Jar

Matrix Codes
 BD Solid Waste
 GW Ground Water
 EIL Effluent
 AW Air Waste H2O
 WW Wastewater
 DW Drinking Water
 SW Surface Water
 ML Misc. Liquid
 OL Oil
 SL Sludge
 SO Soil Sediment
 NU Nuisance
 NA Non-hazardous
 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 field parameters

393
 1162053 3 4 5
 YES NO
 Non-Conformance Found?
 Samples INTACT upon arrival?
 Received on Wet Ice?
 Proper Preservatives Indicated?
 Received within holding time?
 Outbody seals intact?
 Vial/kit 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 Water: CTSW-1

1 Equipment Blank CTSSE Blank-

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 GUAGE

READ METER AT MASTER PUMP STATION

2 of 2 COC# 65285

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-
021914**

Date: **2.19.14**
Time: **11:50**

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: **PTy
Sunny
Warm
Breezy**
Conductivity on scale XUS
PH < 2.0 in preservative
**Pace DI
water lot#
0203 N-4L8
Glass
1 Plastic
Bucket# K
Beaker# B**

Field Parameters	Units	Standard Appearance
Temperature:	24.1 C	Color: Clear
Specific Cond:	12.2 uMHOS/cm	Odor: No odor No sheen
Redox Potential		
PH:	6.85 Std. Units	
Turb:	0.31 NTU	
D.O.	Mg/L	

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: **Brenda O'Leary**
Mark [Signature]

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**
 WACS Facility ID: **PBCC01**
 WACS Test Site ID: **PBCC09**

Date: **2.19.14**
 Time: **12:00**

Depth of Sample: ≈ 2-4"
 Description: Adjacent to Storm water structure in pond

Notes and Comments
 Weather: **Partly sunny**
Warm
Breezy
 Conductivity on scale XUS
 PH < **2.0** in preservative

11.97 South staff gauge

11.98 North staff gauge

meter - 287807

Field Parameters	Units	Standard Appearance
Temperature:	23.8 C	Color: very light yellow Odor: No odor No sheen
Specific Cond:	uMHOS/cm	
Specific Cond: ATC	298 uMHOS/cm	
PH:	7.36 Std. Units	
Turb:	1.25 NTU	
D.O.	Mg/L	

Bucket# **1E**
 Beaker# **B**

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

Sampled By: **Brenda Davery**
[Signature]

Method of Shipment **Pace**

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: PBOWA

Project # 85120977

Courier: Fed Ex UPS USPS Client Commercial Pace

Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Date and Initials of person examining contents: 2/20/14 M.R.

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T-165 Type of Ice: Wet Blue None

Cooler Temperature °C 1.7 (Visual) - 0.1 (Correction Factor) 1.6 (Actual)
0.4 -0.1 0.3

(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"/>
No Labels: <input type="checkbox"/> No Time/Date on Labels: <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"/>

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments):

Received ~~in~~ Unpreserved container for ammonia COD EXN. container.

Project Manager Review: _____

Date: _____

Finished Product Information Only

F.P. Sample ID: _____

Size & Qty of Bottles Received

Production Code: _____

- _____ x 5 Gal
- _____ x 2.5 Gal
- _____ x 1 Gal
- _____ x 1 Liter
- _____ x 500 mL
- _____ x 250 mL
- _____ x Other: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Extra Sample in Shed: Yes No