



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

Pace Project Number: 35212888
Report Period: 2015/Q4

RECEIVED
NOV 03 2015

Client Project ID: Central Transfer Station Surfa

Lab Sample ID

Client Sample ID

35212888001
35212888002
35212888003

CTSSE BLANK 102115
CTSW-1
Metals Trip Blank 102115

Sincerely,

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

Martha Montero

Florida Certifications:

E83079 - Ormond Beach
E86240 - South Florida
E87627 - Charlotte

Pace Analytical Services, Inc.

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

Order # : 35212888001
 Sheen : No sheen
 Color : Clear
 Odor : No odor
 Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01
 Test Site ID # : NA
 Well Name : CTSSE BLANK 102115
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 10/21/2015 11:35
 Report Period : 2015/Q4
 Well Purge (Y/N) : NA
 Well Type : () Background () Compliance
 () Intermediat (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		10/21/2015 11:35	2.3 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		10/21/2015 11:35	25.2 deg C			deg C	1
000664	Field pH	Grab	N		10/21/2015 11:35	6.69 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		10/21/2015 11:35	0.41 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	10/28/2015 20:02	<2.5 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	10/28/2015 20:02	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	10/22/2015 12:47	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	10/29/2015 11:57	<0.086 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	10/22/2015 14:46	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	10/27/2015 15:25	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	10/29/2015 11:20	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	10/27/2015 15:33	<5.0 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	10/22/2015 15:33	<0.059 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	10/23/2015 04:03	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	10/23/2015 04:03	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	10/23/2015 04:03	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	10/23/2015 04:03	<20.0 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	10/23/2015 04:03	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	10/23/2015 20:49	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	10/23/2015 20:49	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	10/23/2015 20:49	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	10/23/2015 20:49	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	10/29/2015 16:41	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664B	11/02/2015 09:51	<1.1 mg/L	1.1	5.0	mg/L	1
	Petroleum Range Organics	Grab	N	FL-PRO	10/28/2015 15:33	<0.060 mg/L	0.060	0.10	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) :

Order # : 35212888002
 Sheen : No sheen
 Color : Very Light yellow
 Odor : No odor
 Matrix : Surface Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01
 Test Site ID # : PBCC09
 Well Name : CTSW-1
 Classification of Ground Water : SW-IIIF
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 10/21/2015 11:50
 Report Period : 2015/Q4
 Well Purge (Y/N) : N
 Well Type : () Background () Compliance
 () Intermediat (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		10/21/2015 11:50	348 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		10/21/2015 11:50	26.6 deg C			deg C	1
000664	Field pH	Grab	N		10/21/2015 11:50	7.77 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		10/21/2015 11:50	1.52 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	10/28/2015 20:24	23.2 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	10/28/2015 20:24	20.8 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	10/22/2015 13:53	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	10/29/2015 11:58	0.39 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	10/22/2015 14:47	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	10/27/2015 15:25	30.6 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	10/29/2015 11:25	106 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	10/28/2015 15:50	203 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	10/22/2015 15:33	0.060 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	10/23/2015 04:06	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	10/23/2015 04:06	11.1 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	10/23/2015 04:06	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	10/23/2015 04:06	<20.0 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	10/23/2015 04:06	17.2 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	10/23/2015 20:52	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	10/23/2015 20:52	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	10/23/2015 20:52	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	10/23/2015 20:52	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	10/29/2015 17:10	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664B	11/02/2015 09:52	<1.1 mg/L	1.1	5.0	mg/L	1
	Petroleum Range Organics	Grab	N	FL-PRO	10/28/2015 15:33	<0.060 mg/L	0.060	0.10	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) :

Order # : 35212888003
 Sheen : No Sheen
 Color : Clear
 Odor : No Odor
 Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01
 Test Site ID # : CTSSEB-
 Well Name : NA
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

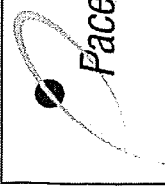
Sampling Date/Time : 10/21/2015 08:00
 Report Period : 2015/Q4
 Well Purge (Y/N) : N
 Well Type : () Background () Compliance
 () Intermediat (X) Other

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	10/23/2015 04:09	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	10/23/2015 04:09	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	10/23/2015 04:09	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	10/23/2015 04:09	<20.0 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	10/23/2015 04:09	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	10/23/2015 20:55	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	10/23/2015 20:55	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	10/23/2015 20:55	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	10/23/2015 20:55	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	10/29/2015 17:12	<0.10 ug/L	0.10	0.20	ug/L	1

WO#: 35212888



ODY RECORD

Quote: _____ Page 1 of 2

PB SVA

Company: N. Jog Road, WPB, FL 334

Address: Contact: Thomas Sirna

City: Phone: 561 640-4000 State: Zip:

Attn: Fax: 561 640-3400 Fax#:

email: _____

Project: Central County Transfer Station
 Name: _____
 Signature: _____
 Date: _____

Sampler Signature: _____
 Date: _____

Circle One Event: Daily Weekly Monthly
 Frequency: _____

Sample ID: _____
 Collect Date: _____
 Collect Time: _____
 Matrix Code: _____

Field Filled: _____
 Integrity OK(Y/N): _____
 Total # of containers: _____

Short Hold: _____
 Affiliation: _____
 Date: _____

Circle QA/QC Report Level: _____
 ADAPT SEDD ERPIMS TSV
 CSV Other: _____

Received by: _____
 Date: _____

Relinquished by: _____
 Date: _____

LAB ANALYSIS

Sample	TRC	pH	Pres Codes	Parameters	# of Containers	Size/Type	REMARKS
EXAMPLE 6010				Dis. Lead 6010	1	16ozP	
1				See page 4			
2							
3							
4							
5							
6							
7							
8							
9							
10							

Container Type Codes

ES Encore Sampler
 PPV Preproven vial
 PL C Plastic container
 PL J Plastic Jar
 Z Ziploc bag
 TB Tredlar bag
 WP Whirl pack
 AG Amber Glass
 SJ Soil Jar
 G Gallon Jug
 LC Litter-can

Matrix Codes

OL Solid Waste
 GW Ground Water
 EFF Effluent
 AFW Analytic Free H2O
 WW Waste Water
 DW Drinking Water
 SW Surface Water
 ML Misc. Liquid

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 SHEETS
 FOR FIELD PARAMETERS

3193

Coolers #'s - Temp °C

1 2 3 4 5

Required State Certification

FL GA SC NC NJ PA LA TX IL

COC Condition

OK Incomplete

Date

Affiliation

Received by

Time

10/21/15 16:10

10/21/15 17:10

Non-Contaminant Found?

Sample: INTACT upon arrival?

Received on Wait Ice?

Proper Preservatives Indicated?

Received within holding time?

Custody seals intact?

Vials/seals rec'd without headspace?

Proper Containers Used?

SOLID WASTE AUTHORITY DIVISION OF ENVIRONMENTAL PROGRAMS EQUIPMENT BLANK DATA SHEET

Facility Identification: Central County Transfer Station Facility GMS#

Sample Type: Grab

Sample Name: **CTSSEBLANK-102115** Date: 10.21.15

Time: 11:35

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
windy
Warm**

Conductivity on scale X 05
PH < 2.0 in preservative

**Pace DI water
10 0215 4L-2
4L-3**

Field Parameters	Units	Standard Appearance
Temperature:	25.2 C	Color: clear Odor: no odor no sheen
Specific Cond:	2.3 uMHOS/cm	
Redox Potential	—	
PH:	6.69 Std. Units	
Turb:	0.4' NTU	
D.O.	— Mg/L	

Bucket# **B**
Beaker# **0**

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

Sampled By: Brenda O'Carry
[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: **10-21-15**
Time: **11:50**

Depth of Sample: ~2-4"
Description: Adjacent to Storm water structure in pond
meter 799271
7.93 S. staff gauge
7.97 N. staff gauge

Notes and Comments
Weather: **Sunny**
windy warm
Conductivity on scale X US
PH **<2.0** in preservative

Field Parameters	Units	Standard Appearance
Temperature:	26.6c	Color: Very light yellow Odor: no odor no sheen
Specific Cond:	— uMHOS/cm	
Specific Cond: ATC	348 uMHOS/cm	
PH:	7.77 Std. Units	
Turb:	1.52 NTU	
D.O.	— Mg/L	

Bucket# **B**
Beaker# **D**

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

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

Method of Shipment: **Pace**

CENTRAL COUNTY TRANSFER STATION Surface Water

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

1 Surface Site **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)		

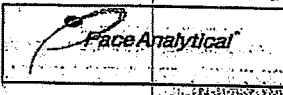
C. Field Parameters

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

READ STAFF GUAGE

READ METER AT MASTER PUMP STATION

2 of 2 COC # 73990



Document Name:
Sample Condition Upon Receipt Form
Document No.
F-FLC-007 rev: 05

Document Revised:
October 9, 2013
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: PBCSWA

PI WO#: **35212888**

Courier: Fed-Ex UPS USPS Client Commercial Pace

PM: MIM Due Date: 11/02/15
CLIENT: 36-PBCSWA

Tracking # _____

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

contents: [Handwritten Signature]

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T-109 Type of Ice: Wet Blue None

Cooler Temperature °C 2.3 (Visual) 0.3 (Correction Factor) 2.6 (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"/>

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 <input type="checkbox"/> x 5 Gal <input type="checkbox"/> x 2.5 Gal <input type="checkbox"/> x 1 Gal <input type="checkbox"/> x 1-Liter <input type="checkbox"/> x 500 mL <input type="checkbox"/> x 250 mL <input type="checkbox"/> x Other: _____
Production Code: _____	
Date/Time Opened: _____	
Number of Unopened Bottles Remaining: _____	
Extra Sample in Shed: <input type="checkbox"/> Yes <input type="checkbox"/> No	