



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

Pace Project Number: 35172909
Report Period: 2015/Q1

Client Project ID: Central Transfer Station Surfa

REC'D /
FEB 19 2015

Lab Sample ID

Client Sample ID

35172909001
35172909002
35172909003

CTSSE BLANK -012715
CTSW-1
Metals Trip Blank -012715

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) :
 Evacuation (gal) :

Order # : 35172909001
 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 -012715
 Classification of Ground Water : Trip Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 01/27/2015 12:20
 Report Period : 2015/Q1
 Well Purge (Y/N) : NA
 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

	Field Oxidation Potential	Grab	N		01/27/2015 12:20	4.0 mV			mV	1
000010	Field Temperature	Grab	N		01/27/2015 12:20	16.5 deg C			deg C	1
000664	Field pH	Grab	N		01/27/2015 12:20	6.83 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		01/27/2015 12:20	0.30 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	01/29/2015 15:48	<2.5 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	01/29/2015 15:48	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	02/05/2015 14:42	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/01/2015 17:27	<0.086 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	01/28/2015 08:07	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	01/29/2015 12:57	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	02/04/2015 18:37	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	02/02/2015 16:48	<5.0 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	01/28/2015 10:19	<0.059 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/04/2015 08:52	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/04/2015 08:52	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/04/2015 08:52	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/04/2015 08:52	<20.0 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/04/2015 08:52	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	02/02/2015 16:21	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/02/2015 16:21	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	02/03/2015 07:50	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	02/02/2015 16:21	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	02/05/2015 15:13	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664B	01/29/2015 16:00	<1.1 mg/L	1.1	5.0	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664B	01/29/2015 16:00	<5.0 mg/L	5.0	5.0	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 # : 35172909002
 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 : 01/27/2015 12:30
 Report Period : 2015/Q1
 Well Purge (Y/N) : NA
 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		01/27/2015 12:30	264 umhos/cm		umhos/cm	1
000010	Field Temperature	Grab	N		01/27/2015 12:30	20.6 deg C		deg C	1
000664	Field pH	Grab	N		01/27/2015 12:30	8.29 Std. Units		Std. Units	1
082078	Turbidity	Grab	N		01/27/2015 12:30	1.31 NTU		NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	01/29/2015 16:10	19.9 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	01/29/2015 16:10	20.6 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	02/05/2015 14:44	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/01/2015 17:28	0.48 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	01/28/2015 08:11	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	01/29/2015 12:57	27.1 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	02/04/2015 18:42	71.5 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	02/02/2015 16:49	161 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	01/28/2015 10:19	0.060 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/04/2015 08:57	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/04/2015 08:57	8.4 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/04/2015 08:57	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/04/2015 08:57	57.8 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/04/2015 08:57	14.8 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	02/02/2015 16:23	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/02/2015 16:23	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	02/03/2015 07:53	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	02/02/2015 16:23	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	02/05/2015 15:15	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664B	01/29/2015 16:00	<1.1 mg/L	1.1	5.0	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664B	01/29/2015 16:00	<5.0 mg/L	5.0	5.0	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) :

Order # : 35172909003

Sheen : No Sheen

Color : Clear

Odor : No Odor

Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01

Sampling Date/Time : 01/27/2015 00:00

Test Site ID # : CTSSEB-

Report Period : 2015/Q1

Well Name : Metals Trip Blank -012715

Well Purge (Y/N) : N

Classification of Ground Water : Equipment Blank

Well Type : () Background

Groundwater Elevation (NGVD) : _____

() Intermediate

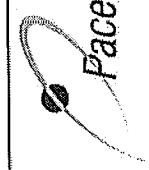
() Compliance

(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	

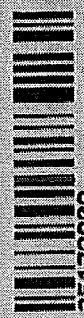
INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/04/2015 09:01	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/04/2015 09:01	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/04/2015 09:01	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/04/2015 09:01	<20.0 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/04/2015 09:01	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	02/02/2015 16:25	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/02/2015 16:25	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	02/03/2015 07:55	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	02/02/2015 16:25	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	02/05/2015 15:17	<0.10 ug/L	0.10	0.20	ug/L	1



Pace Analytical
www.pace-labs.com

W0#: 35172909



35172909

RECORD

Page 12 of 12

Company Name: **A**
 Address: **Jog Road, WPB, FL 33412**
 City: **Thomas Sirna** State: **FL** Zip: **33412**
 Alt: **561 640-4000** Fax: **561 640-3400**
 Phone: **561 640-3400**
 Project Name: **Central County Transfer Station**
 Project Address: **10000 NW 10th Ave, Ft. Lauderdale, FL 33309**
 Sampler Signature: **Brenda J. Taylor** Date: **1/27/15** Weekly Quantity: **1** Monthly Quantity: **N/A**

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field #	Total # of Containers	Parameters		# of Containers	REMARKS
							TRC	pH		
1	STSEBANK 012715	1/27/15	12:30	AFW	6	6			1	SEE FIELD SHEETS FOR FIELD PARAMETERS
2	CTSW-1	1/27/15	12:30	S	6	6			1	SEE FIELD SHEETS FOR FIELD PARAMETERS
3										
4	Metabip Blanka-012715				1	1			1	SEE FIELD SHEETS FOR FIELD PARAMETERS
5										
6										
7										
8										
9										
10										

LAB ANALYSIS

Sample: **TRC**

Parameters: **pH**

Letter of: **12-31-14**

See page: **1**

Required State Certification: **FL GA SC NC NJ PA LA TX IL**

COC Condition: **OK**

Date: **1-27-15**

Received by: **W. J. Pace**

Affiliation: **Pace**

Date: **1-27-15**

Time: **16:00**

Relinquished by: **W. J. Pace**

Affiliation: **Pace**

Date: **1-27-15**

Time: **16:50**

EDD (Fees May Apply): **AD&PT SEED ERPIMS TSV CSV Other**

Circle QA/QC Report Level: **1 2 3 4 CLP AFCEE**

Short Hold: **Y N**

Relinquished by: **W. J. Pace**

Affiliation: **Pace**

Date: **1-27-15**

Time: **16:50**

Container Type Codes

AV Amber Vial ES Enema Sampler
 CV Clear Vial PAV Plastic container
 AL Amber Litr PL C Plastic Jar
 CL Clear Litr Z Ziploc bag
 AP Amber Plastic TQ Tedlar bag
 AG Amber Glass WP Wheel pak
 SJ Soil Jar G Gallon Jug
 TC Tera-con
 Other: _____
 Prepreserved vial Size: 2oz, 4oz, 16oz, 32oz or 1L, other
 Example: 4ozP = 4oz Plastic, 8ozSJ = 8oz Soil Jar

Matrix Codes

SD Solid Waste OL Oil
 GW Ground Water SL Sludge
 EFF Effluent SO Soil Sediment
 AFW Analyte Free H2O AO Aqueous
 WW Waste Water NA Nonaqueous
 DW Drinking Water P Petroleum
 SW Sewerage O Other (Specify)

Preservative Type Codes

A. None E. HCL I. Icc
 B. HNO3 F. MeOH J. MCAA
 C. H2SO4 G. Na2S2O3 K. Zn Acetate
 D. NaOH H. NaHSO4 O. Other

REMARKS

SEE FIELD SHEETS FOR FIELD PARAMETERS

393

F-185 coolers #'s - Temp °C

10,4 2,2 9,3 4 5

Non-Conformance Found? **Y**
 Sample Retract upon receipt? **Y**
 Received on Wet test? **Y**
 Proper Preservation Indicated? **Y**
 Received within holding time? **Y**
 Cooled by means other? **Y**
 Vials/containers without headspace? **Y**
 Proper Containers Used? **Y**

C.O.C. Serial # **71683**

Pace, Martha Monfero
Page 4 of 28
1st Quarter 2015 Letter dated 12/31/2014

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# 71683

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-012715** Date: **1-27-15**

Time: **12:20**

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 + cool**
windy

Conductivity on scale X05

PH **< 2.0** in preservative
Pace DI water
LOT #1101314-
4L3
011215-4L6

Bucket# **1+**

Beaker# **M**

Field Parameters	Units	Standard Appearance
Temperature:	16.5 C	Color: clear
Specific Cond:	4.0 uMHOS/cm	Odor: no odor no smell
Redox Potential		
PH:	6.83 Std. Units	
Turb:	0.30 NTU	
D.O.	Mg/L	

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: **Brenda Daemy**
Murphy

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: 1-27-15

WACS Facility ID: PBCC01

WACS Test Site ID: PBCC09

Time: 12:30

Depth of Sample: ≈ 2-4'

Description: Adjacent to Storm water structure in pond

staff gauge (S) 7.77 (N) 7.79

meter 596899

Notes and Comments

Weather: **SUNNY**
COOL
WINDY

Conductivity on scale X US

PH < 2.0 in preservative

Field Parameters	Units	Standard Appearance
Temperature:	20.6 C	Color: Very light yellow
Specific Cond:	uMHOS/cm	Odor: no odor
Specific Cond: ATC	264 uMHOS/cm	
PH:	8.29 Std. Units	no sheen
Turb:	1.31 NTU	
D.O.	- Mg/L	

Bucket# **H**

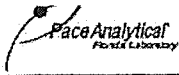
Beaker# **M**

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: Brenda Avery
Maria

Method of Shipment Pass



Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: PB8WA Project # 35172909

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: 1/27/15 MR

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T-185 Type of Ice: Wet Blue None

Cooler Temperature °C 0.4 (Visual) 0 (Correction Factor) 0.4 (Actual)
2.9 0 2.9

(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): _____

Project Manager Review: _____ Date: _____

Finished Product Information Only	
F.P. Sample ID: _____	Size & Qty of Bottles Received _____ x 5 Gal _____ x 2.5 Gal _____ x 1 Gal _____ x 1 Liter _____ x 600 mL _____ x 250 mL _____ x Other: _____
Production Code: _____	
Date/Time Opened: _____	
Number of Unopened Bottles Remaining: _____	
Extra Sample in Shed: Yes No	