



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

Pace Project Number: 35408094
Report Period: 2018/Q3

RECEIVED

SEP 09 2018

Client Project ID: Central Transfer Surface Water

Lab Sample ID

Client Sample ID

35408094001
35408094002

CTSSEBLANK -080218
CTSW-1

Sincerely,

A handwritten signature in blue 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 Surface Water
 Diameter (in) :
 Depth to Water (ft) :
 Total Depth (ft) :
 Top of Casing (ft) :

Order # : 35408094001
 Sheen : None
 Color : Claar
 Odor : None
 Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01
 Test Site ID # : NA
 Well Name : CTSSEBLANK -080218
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 08/02/2018 11:30
 Report Period : 2018/Q3
 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		08/02/2018 11:30	4.3 umhos/cm		umhos/cm	I
000010	Field Temperature	Grab	N		08/02/2018 11:30	25.6 deg C		deg C	I
000664	Field pH	Grab	N		08/02/2018 11:30	6.91 Std. Units		Std. Units	I
082078	Turbidity	Grab	N		08/02/2018 11:30	0.52 NTU		NTU	I

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/10/2018 16:33	<2.5 mg/L	2.5	5.0	mg/L	I
000945	Sulfate	Grab	N	EPA 300.0	08/10/2018 16:33	<2.5 mg/L	2.5	5.0	mg/L	I
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/08/2018 10:38	<0.035 mg/L	0.035	0.050	mg/L	I
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/13/2018 08:56	<0.086 mg/L	0.086	0.50	mg/L	I
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	08/03/2018 07:58	<0.025 mg/L	0.025	0.050	mg/L	I
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/04/2018 12:19	<12.5 mg/L	12.5	20.0	mg/L	I
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/13/2018 11:31	<5.0 mg/L	5.0	5.0	mg/L	I
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/07/2018 16:39	<5.0 mg/L	5.0	5.0	mg/L	I
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	08/03/2018 17:10	<0.099 mg/L	0.099	0.20	mg/L	I

INORGANICS

001007	Barium	Grab	N	EPA 6010	08/12/2018 16:25	<0.84 ug/L	0.84	10.0	ug/L	I
001027	Cadmium	Grab	N	EPA 6010	08/12/2018 16:25	<0.33 ug/L	0.33	3.0	ug/L	I
001034	Chromium	Grab	N	EPA 6010	08/12/2018 16:25	<1.7 ug/L	1.7	5.0	ug/L	I
001045	Iron	Grab	N	EPA 6010	08/12/2018 16:25	<9.2 ug/L	9.2	40.0	ug/L	I
000572	Lead	Grab	N	EPA 6010	08/12/2018 16:25	<4.6 ug/L	4.6	15.0	ug/L	I
001147	Selenium	Grab	N	EPA 6010	08/12/2018 16:25	<8.5 ug/L	8.5	30.0	ug/L	I
000929	Sodium	Grab	N	EPA 6010	08/12/2018 16:25	<0.27 mg/L	0.27	1.0	mg/L	I
001002	Arsenic	Grab	N	EPA 6020	08/13/2018 03:19	<0.50 ug/L	0.50	1.0	ug/L	I
001042	Copper	Grab	N	EPA 6020	08/13/2018 03:19	<0.93 ug/L	0.93	1.0	ug/L	I
000576	Mercury	Grab	N	EPA 7470	08/10/2018 12:07	<0.10 ug/L	0.10	0.20	ug/L	I

ORGANICS

	Oil and Grease	Grab	N	EPA 1664B	08/13/2018 04:26	<1.1 mg/L	1.1	4.8	mg/L	I
	Petroleum Range Organics	Grab	N	FL-PRO	08/11/2018 00:18	<0.79 mg/L	0.79	0.98	mg/L	I

Pace Analytical Services, Inc.

Project Name : Central Transfer Station Surface Water
 Diameter (in) : 2
 Depth to Water (ft) :
 Total Depth (ft) :
 Top of Casing (ft) :

Order # : 35408094002
 Sheen : None
 Color : Lt yellow
 Odor : None
 Matrix : Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

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

Sampling Date/Time : 08/02/2018 11:42
 Report Period : 2018/Q3
 Well Purge (Y/N) : Y
 Well Type : () Background (X) Compliance
 () Intermediat () 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		08/02/2018 11:42	211 umhos/cm			umhos/cm	I
000010	Field Temperature	Grab	N		08/02/2018 11:42	31.4 deg C			deg C	I
000664	Field pH	Grab	N		08/02/2018 11:42	7.99 Std. Units			Std. Units	I
082078	Turbidity	Grab	N		08/02/2018 11:42	2.54 NTU			NTU	I

OTHER

000593	Chloride	Grab	N	EPA 300.0	08/10/2018 16:56	18.6 mg/L	2.5	5.0	mg/L	I
000945	Sulfate	Grab	N	EPA 300.0	08/10/2018 16:56	11.3 mg/L	2.5	5.0	mg/L	I
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/08/2018 10:40	<0.035 mg/L	0.035	0.050	mg/L	I
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/13/2018 08:57	0.84 mg/L	0.086	0.50	mg/L	I
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	08/03/2018 08:04	<0.025 mg/L	0.025	0.050	mg/L	I
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/04/2018 12:19	30.7 mg/L	12.5	20.0	mg/L	I
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/13/2018 11:39	50.8 mg/L	5.0	5.0	mg/L	I
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/07/2018 16:38	92.0 mg/L	5.0	5.0	mg/L	I
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	08/03/2018 17:10	<0.099 mg/L	0.099	0.20	mg/L	I

INORGANICS

001007	Barium	Grab	N	EPA 6010	08/12/2018 16:36	4.8 I ug/L	0.84	10.0	ug/L	I
001027	Cadmium	Grab	N	EPA 6010	08/12/2018 16:36	<0.33 ug/L	0.33	3.0	ug/L	I
001034	Chromium	Grab	N	EPA 6010	08/12/2018 16:36	<1.7 ug/L	1.7	5.0	ug/L	I
001045	Iron	Grab	N	EPA 6010	08/12/2018 16:36	60.0 ug/L	9.2	40.0	ug/L	I
000572	Lead	Grab	N	EPA 6010	08/12/2018 16:36	<4.6 ug/L	4.6	15.0	ug/L	I
001147	Selenium	Grab	N	EPA 6010	08/12/2018 16:36	<8.5 ug/L	8.5	30.0	ug/L	I
000929	Sodium	Grab	N	EPA 6010	08/12/2018 16:36	12.0 mg/L	0.27	1.0	mg/L	I
001002	Arsenic	Grab	N	EPA 6020	08/13/2018 03:20	0.63 I ug/L	0.50	1.0	ug/L	I
001042	Copper	Grab	N	EPA 6020	08/13/2018 03:20	<0.93 ug/L	0.93	1.0	ug/L	I
000576	Mercury	Grab	N	EPA 7470	08/10/2018 12:09	<0.10 ug/L	0.10	0.20	ug/L	I

ORGANICS

	Oil and Grease	Grab	N	EPA 1664B	08/13/2018 04:26	<1.1 mg/L	1.1	4.8	mg/L	I
	Petroleum Range Organics	Grab	N	FL-PRO	08/11/2018 13:52	<0.79 mg/L	0.79	0.99	mg/L	I

NO#: 35408094



PBC SWA

Company: 1501 N. Jog Road, WPB, FL 33412
Address: Contact: Managing Hydrogeologist

City: phone: 561 640-4000 Zip:

Attn: Fax: 561 640-3400 Fax#

email: Phone:

Project Name: CENTRAL COUNTY TRANSFER STATION

Signature: Brent Davney

Circle One Event: Quarterly Semi-Annual Monthly Annual N/A

Sample ID: 1 080218

Collect Date: 8-2-18

Collect Time: 11:30 AFW

Matrix Code: S

Total # of containers: 7

Field Integrity (OK/N): 7

Relinquished by: Brent Davney

Affiliation: Pace

Date: 8-2-18

Time: 13:40

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

EDD (Fees May Apply):

ADAPT SEDD ERPIMS TSV

CSV Other

Received by: [Signature]

Affiliation: Pace

Date: 8-2-18

Time: 17:30

Required State Certification: FL GA SC NC NJ

PA LA TX IL

COC Condition: OK Incomplete

Date: 8-2-18

Time: 13:40

Lab Use Only: YES NO N/A

Non-Conformance Found?

Sample INTACT upon arrival?

Received on Wet Ice?

Proper Preservatives Indicated?

Received within holding time?

Custody seals intact?

Vials/ies read without incubation?

Proper Containers Used?

D

Page 1 of 2

LAB ANALYSIS

EXAMPLE 6010

1 16ozP

of Containers

Size/Type

Parameters

See page 1

Letter of:

6010

6010

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Container Type Codes table with columns for container type and description.

Matrix Codes table with columns for matrix code and description.

Preservative Type Codes table with columns for preservative code and description.

REMARKS section with handwritten text: Profile 3195

SEE FIELD LOG FOR DETAILS

Coolers #'s - Temp °C table with columns for cooler number and temperature.

C.O.C. Serial # 144823

Revision: F-ALL-C-007-Rev.00

Pompano Lab 954-582-4300



CHAIN OF CUSTODY RECORD

LAB W.O. # _____

Quote: _____

Page 1 of 2

Client: **PBC SWA** PO# _____
Address: **3501 N. Jog Road, WPB, FL 33412**
City: **Contact: Managing Hydrogeologist**
Attn: **Phone: 561 640-4000** Fax# _____
email: **Fax: 561 640-3400** Phone: _____

Project Name: **CENTRAL COUNTY TRANSFER STATION**
Project Name: **SURFACE WATER** Proj # _____
Sampler Signature: *[Signature]* Monthly N/A
Event: **Weekly** Annual N/A

Sample #	Sample	LAB ANALYSIS				Parameters	Letter of: See page _____	# of Containers	Size/Type	REMARKS
		TRC	pH	Pres Codes	Other					
1	DISINFECTANT						1	16ozP	Particle 3195	
2	DISINFECTANT						1	16ozP		
3										
4										
5										
6										
7										
8										
9										
10										

Item	Relinquished by		Affiliation		Date		Time		Received by		Affiliation		Date		Time		Required State Certification
	Y	N	Today	10 20 30 40 5D	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	
1					8-2-18	13:40							8-2-18	13:40			
2					8-2-18	17:30							8-2-18	17:30			
3																	
4																	

Container Type Codes: ES Enco Sampler, P Amber Vial, PPV Plastic, PLC Plastic Container, PLJ Plastic Jar, Z Ziploc bag, TB Teflon bag, WP Amber Glass, G Gallon Jug, TC Term-core
Matrix Codes: SD Solid Waste, GW Ground Water, EFF Effluent, AFW Analyte 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

C.O.C. Serial # **144823**

3rd Quarter Letter Pace

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Letter dated July 1, 2018

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 GAUGE

READ METER AT MASTER PUMP STATION

2 OF 2 144823

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-** Date: **8-2-18**
080218 Time: **11:30**

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**
breezy
hot
 Conductivity on scale X US
 PH **2.0** in preservative
Pace DI
Water Lot #1
062618 4L-2
 Bucket# **D**
 Beaker# **M**

Field Parameters	Units	Standard Appearance
Temperature:	25.6 C	Color: clear Odor: none no sheen
Specific Cond:	4.3 uMHOS/cm	
Redox Potential	-	
PH:	6.91 Std. Units	
Turb:	0.52 NTU	
D.O.	- Mg/L	

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

Sampled By: 


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: **8-2-18**

WACS Facility ID: **PBCC01**

WACS Test Site ID: **PBCC09**

Time: **11:42**

Depth of Sample: ≈ 4-6 "
 Description: Adjacent to Storm water structure in pond
 Staff gauge north: Missing
 Staff gauge south: 10.10
 Master Pump station Meter: 443594

Notes and Comments

Weather: **Sunny
hot
Breezy**

Conductivity on scale **XS**
 PH **2.0** in preservative

Field Parameters	Units	Standard Appearance
Temperature:	31.4 C	Color: light yellow some vegetation Odor: none no sheen
Specific Cond:	- uMHOS/cm	
Specific Cond: ATC	211 uMHOS/cm	
PH:	7.99 Std. Units	
Turb:	2.54 NTU	
D.O.	- Mg/L	

Bucket# **D**
 Beaker# **M**

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

Sampled By: Bill Poyner
Mark J...
Brenda J...

Method of Shipment Pace

Project #
Project Manager:
Client:

Date and Initials of person:

Examining contents:

Label:

Deliver:

pH:

Thermometer Used 9-330

Date 8/2/18

Time 1130

Initials

State of Origin

For WJ projects, all containers verified to 4°C

Cooler #1 Temp. °C 9.0 (Visual) 0.0 (Correction Factor) 9.0 (Actual)

Cooler #2 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #3 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. °C (Visual) (Correction Factor) (Actual)

Samples on ice, cooling process has begun

Samples on ice, cooling process has begun

Samples on ice, cooling process has begun

Samples on ice, cooling process has begun

Samples on ice, cooling process has begun

Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority Other

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking #

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Ice: Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other

Samples shorted to lab (If Yes, complete) Shorted Date Shorted Time Qty

Comments:

Table with 3 columns: Description, Yes/No/N/A checkboxes, and Comments. Rows include Chain of Custody Present, Relinquished Signature, Samples Arrived within Hold Time, Rush TAT requested, Sufficient Volume, Correct Containers Used, Containers Intact, Sample Labels match COC, All containers needing acid base preservation have been checked, All Containers needing preservation are found to be in compliance with EPA recommendation, Exceptions VOA, Coliform, TOC, O&G, Carbamates, Headspace in VOA Vials? (>6mm), Trip Blank Present.

Client Notification/ Resolution: Person Contacted Date/Time

Comments/ Resolution (use back for additional comments):

Project Manager Review Date