Sarasota County

Central County Solid Waste Disposal Complex

Permit Number: 130542-022-SO/01

WACS ID: SWD/58/51614

2018 Semi-Annual Groundwater Report (July – December 2018)

2018 Semi-Annual Surface Water Report (July – December 2018)

February 2019

Sarasota County Solid Waste Operations
4000 Knights Trail Rd
Nokomis Florida 34275

Sarasota County

Public Utilities – Solid Waste

4000 Knights Trail Rd.
Nokomis, FL 34275

941-861-5000
scgov.net

February 7, 2019

Solid Waste Section
Department of Environmental Protection
South District Office
2295 Victoria Avenue, Suite 364
Fort Myers, Florida 33902-2549

RE: Central County Solid Waste Disposal Complex
Permit Number 130542-022-SO/01
2nd Semi-Annual Groundwater Report (July – December 2018)
2nd Semi-Annual Surface Water Report (July – December 2018)

To Whom It May Concern:

Enclosed are the 2nd Semi-Annual Groundwater and Surface Water Monitoring Reports for 2018 as specified in Appendix 3.II and 3.III, respectively, of the permit. Included as well are the associated ADaPT files as specified in Appendix 3.V.E.7 of the permit.

You will find included in this report; the Water Quality Monitoring Certification form, *Exceedance of MCLs Summary* table (Table 1), water elevation table and signed/sealed groundwater contour map, field sampling logs, and laboratory results provided by Pace Analytical and Benchmark EnviroAnalytical, Inc.

Specific Condition D.1 and 2 of the permit establishes primary and secondary zones of discharge as well as alternative background concentrations for four parameters. The primary zone of discharge shall not have Class G-II water quality standards and background water quality concentrations exceeded outside the boundary except for the following parameters: ammonia-N, arsenic, iron, TDS and manganese. Alternative background concentrations have also been established for sodium and chloride, at 456 mg/L and 643 mg/L, respectively.

The secondary zone of discharge shall not have Class G-II water quality standards and background water quality concentrations exceeded outside the boundary for the following parameters: ammonia-N, arsenic, iron, TDS and manganese. Alternative background concentrations have also been established for iron and total dissolved solids, at 6.3 mg/L and 1924 mg/L, respectively.

Once these Site-Specific Conditions are applied to the sampling results for the primary zone of discharge, only pH remains as an exceedance. The ADaPT program cannot accommodate these Site-Specific Conditions, therefore the ADaPT files will contain more exceedances which are not in this report.

Of the secondary zone of discharge wells, NAM-2 had an exceedance of arsenic at 11.6 ug/L which is consistent with the previous sampling events. The iron result for NAM -3 was reported at 6,400

ug/L exceeding the limit of 6300 ug/L, but within historical values. NAM-3 and NAM-4 both had exceedances for pH; 6.44 and 6.23 respectively.

In the Surface water samples; Field Blank, Pond 1, Pond 2 and the Duplicate, Fecal Coliform was detected below regulatory limits. Due to the presence in the Field Blank as well as being below the regulatory limit, samples were not recollected for Fecal Coliform.

One compound (COD), was inadvertently left off the Chain of Custody for the initial surface water sampling event for both Pond 1 and 2. Therefore, on December 17, 2018 additional surface water samples as well as a field blank were collected to include the missing compound.

There were no exceedances for surface water.

If you have any questions or concerns, please contact me at (941) 9790450 or rlmoore@scgov.net.

Sincerely,

Ronald L. Moore
Environmental Specialist II

Cc: FDEP, Solid Waste, Tallahassee, FL

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(31), F.A.C.
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex, Class I Landfill Operation

Address 4000 Knights Trail Rd

City Nokomis Zip 34275 County Sarasota

Telephone Number (941)861-1573

(2) WACS Facility ID SWD/58/51614

(3) DEP Permit Number 130542-007-SO/01

(4) Authorized Representative's Name Ronald L. Moore Title Environmental Specialist II

Address 4000 Knights Trail Rd

City Nokomis Zip 34275 County Sarasota

Telephone Number (941)979-0450

Email address (if available) rlmoore@scgov.net

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

February 7, 2019
(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Sarasota County

Analytical Lab NELAC / HRS Certification #	E83079	E84167
Lab Name	PAS, Inc	Benchmark EnviroAnalytical, Inc
Address	8 East Tower Circle, Ormond Beach, FL 32174	1711 12th Street East, Palmetto, FL 34221
Phone Number	(386)672-5668	(941) 723-9986

Email address (if available)

TABLE 1
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX
EXCEEDENCE OF MCLs SUMMARY

2018 - 2nd Semi-Annual Groundwater Evaluation Monitoring Report - Groundwater Monitoring Wells

		20585	21455	4509	4510	23031	23032	23033	29095	27140	27141
		Background	Detection	Detection	Detection	Detection	Detection	Detection	Detection	Detection	Detection
Parameter	MCL	MW-1R	MW-8A	MW-9	MW-10R	MW-15	MW-16	MW-17	MW-18R	MW-19A	MW-20A
pH	6.5-8.5	**6.18**	**6.23**		**6.37**		**6.33**	**6.36**	**6.01**		
Sodium	456 mg/l*										
Chloride	643 mg/l*										

* Alternative MCL's as established in section D.3 of the permit

2018 - 2nd Semi-Annual Groundwater Evaluation Monitoring Report - Natural Attenuation Monitoring Wells

		29091	29092	29093	29094
		NAM	NAM	NAM	NAM
Parameter	MCL	NAM-1	NAM-2	NAM-3	NAM-4
pH	6.5-8.5			**6.44**	**6.23**
Total Ammonia	2.8 mg/l				
Iron	6.3 mg/l*			**6.40**	
Manganese	50 ug/l				
Arsenic	10 ug/l		**11.6**		
Solids, Total Dissolved	1924 mg/l*				

* Alternative MCL's as established in section D.3 of the permit

2018 - 2nd Semi-Annual Surface Water Evaluation Monitoring Report

		28824	28825
		Surface water	Surface water
Parameter	MCL	Pond 1	Pond 2

There were no exceedences for Surface Water.

Central County Solid Waste Disposal Complex
Water Elevation Table 10/12/18

Well	Date Measured	Depth to Water (ft)	Top of Casing (ft) NGVD 1929	Calculated Water Elevation (ft) NGVD 1929
MW-3	10/12/2018	2.08	23.340	21.26
MW-5	10/12/2018	3.14	23.190	20.05
MW-1R	10/12/2018	3.05	24.428	21.38
MW-8A	10/12/2018	14.85	35.400	20.55
MW-9	10/12/2018	11.49	32.08	20.59
MW-10R	10/12/2018	19.34	39.49	20.15
CW-8A	10/12/2018	14.66	35.040	20.38
CW-9	10/12/2018	5.92	26.582	20.66
CW-10R	10/12/2018	6.48	26.982	20.50
MW-15	10/12/2018	23.63	44.320	20.69
MW-16	10/12/2018	23.76	43.730	19.97
MW-17	10/12/2018	27.27	46.150	18.88
MW-18R	10/12/2018	9.68	28.330	18.65
CW-15	10/12/2018	9.15	30.173	21.02
CW-16	10/12/2018	9.72	29.578	19.86
MW-19A	10/12/2018	7.95	27.52	19.57
MW-20A	10/12/2018	8.49	27.38	18.89
NAM-1	10/12/2018	2.12	19.87	17.75
NAM-2	10/12/2018	2.63	20.02	17.39
NAM-3	10/12/2018	2.39	20.62	18.23
NAM-4	10/12/2018	5.44	22.66	17.22

Staff Gauge		Staff Gauge Reading (ft)	Staff Gauge Elevation (ft)	Calculated Water Elevation (ft)
STW1	10/12/2018	2.48	21.187 (3')	20.67
STW1A	10/12/2018	*	22.64 (6')	*
STW2	10/12/2018	2.12	20.305 (4')	18.43
STW2A	10/12/2018	*	20.18 (5')	*
STW3	10/12/2018	2.15	20.191 (4')	18.34
STW3A	10/12/2018	3.90	18.43 (4')	18.33
STW4	10/12/2018	2.08	19.342 (4')	17.42
STW4A	10/12/2018	4.15	17.35 (4')	17.50
STW5A	10/12/2018	2.05	19.788 (4')	17.84
STW5B	10/12/2018	3.90	18.04 (4')	17.94
STW6	10/12/2018	2.45	19.37 (4')	17.82
STW6A	10/12/2018	5.16	17.67 (5')	17.83
STW7	10/12/2018	2.10	22.287 (4')	20.39
STW7A	10/12/2018	5.35	19.02 (4')	20.37

* Not readable due to vegetation coverage.
Measured by Ronald Moore on 10/12/2018

GEORGE ALBETZ REINHART III
LICENSE
No. 66516
STATE OF FLORIDA
PROFESSIONAL ENGINEER

1/31/19

-N-

GRAPHIC SCALE

0 250 500 1000

SCALE IN FEET

LEGEND

MW-8A 20.55	GROUNDWATER MONITORING WELL
NAM-1 17.75	NATURAL ATTENUATION MONITORING WELL
PW-7	PIEZOMETER WELL
STW-7A 20.37	STAFF GAUGE
20.00	GROUNDWATER CONTOUR AT 1.00 FOOT INTERVALS
	GROUNDWATER FLOW DIRECTION
NM	NOT MEASURED

SARASOTA COUNTY CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX GROUNDWATER CONTOUR MAP OCTOBER 12, 2018

JonesEdmunds

SAVED: 1/25/2019 2:40 PM BTHOMAS \\JEACAD\GWM\JONES EDMUNDS\SARASOTA COUNTY\CENTRAL CSWDC\GWM 2018\18S2\CENTRAL CSWDC_18S2.DWG
PLOTTED: 1/25/2019 02:40 PM BRIAN THOMAS

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: NAM-1	SAMPLE ID: 29091	DATE: 10/1/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.14	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.5 feet – 2.14 feet) X 0.16 gallons/foot = 2.0 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.2	PURGING INITIATED AT: 0931	PURGING ENDED AT: 1000	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0950	2.0	2.0	0.11	2.73	6.98	27.79	900	0.09	0.52	Clear LTS/B	None
0955	0.5	2.5	0.11	2.73	6.98	27.73	902	0.08	0.55	Clear/Lt Shen	None
1000	0.5	3.0	0.11	2.73	6.98	27.71	903	0.08	0.62	↓	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Alison Eggleston	SAMPLING INITIATED AT: 1002	SAMPLING ENDED AT: 1007
PUMP OR TUBING DEPTH IN WELL (feet): 3.2	TUBING MATERIAL CODE: S / HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
AE/B	1	HDPE	500 mL	HNO3 & wet ice	N/A	<2	Metals	APP	400
AE/BC	1	HDPE	250 mL	H2SO4 & wet ice	N/A	<2	Total Ammonia	APP	↓
AE/A	1	HDPE	1 L	H2SO4 & wet ice	N/A	N/A	Misc. Inorganics	APP	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: NAM-2	SAMPLE ID: 29092	DATE: 10/1/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.66	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.5 feet – 2.66 feet) X 0.16 gallons/foot = 1.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.7	PURGING INITIATED AT: 1128	PURGING ENDED AT: 1156	TOTAL VOLUME PURGED (gallons): 2.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) ~~µmhos/cm~~ or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1146	1.9	1.9	0.11	2.78	6.85	27.89	745	0.09	0.31	Clear/Lt Brown	None
1151	0.5	2.4	0.11	2.78	6.85	27.89	742	0.08	0.22	Clear/Lt Brown	None
1156	0.5	2.9	0.11	2.78	6.86	27.99	741	0.07	0.46	Clear/Lt Brown	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Alice Eggleston	SAMPLING INITIATED AT: 1158	SAMPLING ENDED AT: 1205
PUMP OR TUBING DEPTH IN WELL (feet): 3.7	TUBING MATERIAL CODE: S/ HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: (Y) (~~N~~)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
QC ~~A~~ B	1	HDPE	~~500 mL~~ 250 mL	HNO3 & wet ice	N/A	\	Metals	APP	400
QC ~~B~~ C	1	HDPE	250 mL	H2SO4 & wet ice	N/A	\	Total Ammonia	APP	\
QC ~~C~~ A	1	HDPE	1 L	H2SO4 & wet ice	N/A	N/A	Misc. Inorganics	APP	\

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275

WELL NO: NAM-3	SAMPLE ID: 29093	DATE: 10/1/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.37	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.5 feet – 2.37 feet) X 0.16 gallons/foot = 1.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.4	PURGING INITIATED AT: 1241	PURGING ENDED AT: 1309	TOTAL VOLUME PURGED (gallons): 2.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1259	1.9	1.9	0.11	~~2.88~~ 2.88	6.36	26.89	563	0.08	0.73	Clear/Light Green	None
1304	0.5	2.4	0.11	~~2.88~~ 2.88	6.41	26.89	564	0.09	0.91	Clear/Light Green	None
1309	0.5	2.9	0.11	2.88	6.44	26.82	565	0.07	0.36	Clear/Light Green	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
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PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1311	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet): 3.4	TUBING MATERIAL CODE: S / HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
~~A~~ B	1	HDPE	~~500~~ 250 mL	HNO3 & wet ice	N/A	\	Metals	APP	400
~~B~~ C	1	HDPE	250 mL	H2SO4 & wet ice	N/A	\	Total Ammonia	APP	↓
~~C~~ A	1	HDPE	1 L	H2SO4 & wet ice	N/A	N/A	Misc. Inorganics	APP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275
WELL NO: NAM-4 / SAMPLE ID: 29094	DATE: 10/1/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.24	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.5 feet – 5.24 feet) X 0.16 gallons/foot = 1.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.3	PURGING INITIATED AT: 1341	PURGING ENDED AT: 1403	TOTAL VOLUME PURGED (gallons): 2.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1355	1.5	1.5	0.11	5.69	6.24	27.21	548	0.09	0.49	Clear/Tritium	None
1359	0.4	1.9	0.11	5.69	6.24	27.14	551	0.08	0.53	Clear/Tritium	None
1403	0.4	2.3	0.11	5.69	6.23	27.04	549	0.07	0.58	Clear/Tritium	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ Ronald Weeks / Sarasota County	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1405	SAMPLING ENDED AT: 1415
PUMP OR TUBING DEPTH IN WELL (feet): 6.3	TUBING MATERIAL CODE: S/HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
~~NAM-A~~ B	1	HDPE	~~500~~ mL 250	HNO3 & wet ice	N/A	\	Metals	APP	400
~~NAM-B~~ C	1	HDPE	250 mL	H2SO4 & wet ice	N/A	\	Total Ammonia	APP	\
~~NAM-C~~ A	1	HDPE	1 L	H2SO4 & wet ice	N/A	N/A	Misc. Inorganics	APP	\

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC		SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275
WELL NO: MW-20A	SAMPLE ID: 27141	DATE: 10/2/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.76	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (22.5 feet – 8.76 feet) X 0.16 gallons/foot = 2.2 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.0	PURGING INITIATED AT: 0940	PURGING ENDED AT: 1022	TOTAL VOLUME PURGED (gallons): 3.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1008	2.2	2.2	0.08	10.63	6.60	28.89	585	0.09	1.02	clear	None
1015	0.6	2.8	0.08	10.67	6.62	28.79	570	0.09	0.66	Clear	None
1022	0.6	3.4	0.08	10.69	6.62	28.76	563	0.10	0.75	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1025	SAMPLING ENDED AT: 1035
PUMP OR TUBING DEPTH IN WELL (feet): 11.0	TUBING MATERIAL CODE: S & HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	APP	300
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	|
~~AE~~ G	1	HDPE	~~500~~ 250 mL AE	HNO3 & wet ice	N/A	—	Metals – App. I	APP	|
AE ~~B~~ F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	—	Nutrients – App. I	APP	|
AE ~~A~~ H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	|

REMARKS: Slight odor in air while filling sample bottles. (Downwind of Active Face of L/F)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: MW-19A	SAMPLE ID: 27140	DATE: 10/2/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet	STATIC DEPTH TO WATER (feet): 7.83	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (22.5 feet – 7.83 feet) X 0.16 gallons/foot = 2.4 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5	PURGING INITIATED AT: 1128	PURGING ENDED AT: 1214	TOTAL VOLUME PURGED (gallons): 3.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1158	2.4	2.4	0.08	8.81	6.65	29.71	642	0.12	0.47	Clear	None
1206	0.6	3.0	0.08	8.83	6.65	29.74	655	0.11	0.98	Clear	None
1214	0.6	3.6	0.08	8.84	6.65	29.66	667	0.11	0.42	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Alison Eggleston	SAMPLING INITIATED AT: 1216	SAMPLING ENDED AT: 1223
PUMP OR TUBING DEPTH IN WELL (feet): 9.5	TUBING MATERIAL CODE: S HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	APP	300
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	
QE ~~F~~ G	1	HDPE	~~500 mL~~ 250 QE	HNO3 & wet ice	N/A	< 2	Metals – App. I	APP	
QE ~~B~~ F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	< 2	Nutrients – App. I	APP	
~~K~~ H QE	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275
WELL NO: MW-18R	SAMPLE ID: 29095	DATE: 10/2/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.48	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (18.63 feet – 9.48 feet) X 0.16 gallons/foot = 1.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5	PURGING INITIATED AT: 1259	PURGING ENDED AT: 1328	TOTAL VOLUME PURGED (gallons): 2.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1318	1.5	1.5 ~~0.08~~	0.08	10.05	6.00	30.40	612	0.08	1.12	lt sheen Clear	None
1323	0.4	1.9	0.08	10.09	6.00	30.36	615	0.07	1.26	lt sheen Clear	None
1328	0.4	2.3	0.08	10.11	6.01	30.35	613	0.07	1.15	lt sheen Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Allison Eggleston	SAMPLING INITIATED AT: 1330	SAMPLING ENDED AT: 1345
PUMP OR TUBING DEPTH IN WELL (feet): 10.5	TUBING MATERIAL CODE: S HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: (Y) (~~N~~)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	APP	300
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	|
ae F G	1	HDPE	~~500~~ mL 250 ml	HNO3 & wet ice	N/A	—	Metals – App. I	APP	|
ae ~~B~~ F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	—	Nutrients – App. I	APP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	|

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: MW-1R	SAMPLE ID: 20585	DATE: 10/3/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 3.03	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (15.7 feet – 3.03 feet) X 0.16 gallons/foot = 2.0 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0	PURGING INITIATED AT: 0900	PURGING ENDED AT: 0946	TOTAL VOLUME PURGED (gallons): 3.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0925	2.0	2.0	0.08	3.57	6.15	27.57	307	0.08	0.92	Lt Amber	None
0932	0.6	2.6	0.08	3.59	6.16	27.61	321	0.06	1.00	Lt Amber	None
0939	0.6	3.2	0.08	3.60	6.19	27.74	330	0.06	0.91	Lt Amber	None
0946	0.6	3.8	0.08	3.62	6.18	27.66	336	0.06	0.96	Lt Amber	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Ali Eggleston	SAMPLING INITIATED AT: 0948	SAMPLING ENDED AT: 0955
PUMP OR TUBING DEPTH IN WELL (feet): 4.0	TUBING MATERIAL CODE: S / HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	APP	300
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	|
~~G~~ G	1	HDPE	~~500 mL~~ 250 mL	HNO3 & wet ice	N/A	|	Metals – App. I	APP	|
~~F~~ F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	APP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	|

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC		SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275
WELL NO: MW-8A	SAMPLE ID: 21453	DATE: 10/3/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 14.70	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (22.4 feet – 14.70 feet) X 0.16 gallons/foot = 1.3 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.7	PURGING INITIATED AT: 1027	PURGING ENDED AT: 1054	TOTAL VOLUME PURGED (gallons): 2.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1044	1.3	1.3	0.08	15.27	6.22	27.48	1093	0.11	2.40	Clear	None
1049	0.4	~~0.4~~ 1.7	0.08	15.29	6.23	27.44	1103	0.10	2.58	Clear	None
1054	0.4	~~0.4~~ 2.1	0.08	15.30	6.23	27.52	1106	0.11	2.60	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ / Sarasota County OE Ronald Moore	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1115
PUMP OR TUBING DEPTH IN WELL (feet): 15.7	TUBING MATERIAL CODE: S / HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	NA	8260-vocs App. I	APP	300
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	|
OE ~~F~~ G	1	HDPE	~~500 mL~~ 250 OE	HNO3 & wet ice	N/A	|	Metals – App. I	APP	|
OE ~~G~~ F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	APP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	|

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275

WELL NO: MW-9	SAMPLE ID: 4509	DATE: 10/3/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 11.40	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (22.8 feet – 11.40 feet) X 0.16 gallons/foot = 1.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.4	PURGING INITIATED AT: 1152	PURGING ENDED AT: 1220	TOTAL VOLUME PURGED (gallons): 2.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1210	1.9	1.9	0.11	~~10.90~~ 11.90	6.56	30.24	1451	0.17	1.33	Sheen Clear	None
1215	0.5	2.4	0.11	~~10.90~~ 11.90	6.56	30.25	1459	0.14	1.53	Sheen Clear	None
1220	0.5	2.9	0.11	11.90	6.57	30.30	1487	0.11	3.86	Sheen Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Alison Eggleston	SAMPLING INITIATED AT: 1222	SAMPLING ENDED AT: 1230
PUMP OR TUBING DEPTH IN WELL (feet): 12.4	TUBING MATERIAL CODE: S / HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	APP	400
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	|
~~AE~~ F/G	1	HDPE	~~500 mL~~ 250 AE	HNO3 & wet ice	N/A	|	Metals – App. I	APP	|
~~AE~~ F/F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	APP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	|

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275

WELL NO: MW-17	SAMPLE ID: 23033	DATE: 10/4-18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 27.05	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (32.6 feet – 27.05 feet) X 0.16 gallons/foot = 0.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28.0	PURGING INITIATED AT: 0946	PURGING ENDED AT: 1016	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1004	0.9	0.9	0.05	28.0-28.5	6.37	28.26	1798	0.04	2.24	Sheen Lt Amber	None
1010	0.3	1.2	0.05	28.0-28.5	6.36	28.06	1800	0.03	4.67	Sheen Lt Amber	None
1016	0.3	1.5	0.05	28.0-28.5	6.36	28.06	1810	0.03	1.39	Sheen Lt Amber	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Egglestom~~ Ronald Moore Sarasota County	SAMPLER(S) SIGNATURE(S): R. M.	SAMPLING INITIATED AT: 1020	SAMPLING ENDED AT: 1040
PUMP OR TUBING DEPTH IN WELL (feet): 28.0	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	ESP	200
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	ESP	|
QE F/G	1	HDPE	~~500 mL~~ 250 mL	HNO3 & wet ice	N/A	|	Metals – App. I	ESP	|
QE F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	ESP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	ESP	|

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275

WELL NO: MW-16	SAMPLE ID: 23032	DATE: 10/4/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 23.80	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.3 feet – 23.80 feet) X 0.16 gallons/foot = 1.0 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.80	PURGING INITIATED AT: 1153	PURGING ENDED AT: 1225	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1213	1.0	1.0	0.05	24.3-24.8	6.32	29.17	2422	0.07	0.78	Sheen Lt. Amber	None
1219	0.3	1.3	0.05	24.3-24.8	6.33	29.22	2420	0.05	2.31	Sheen Lt. Amber	None
1225	0.3	1.6	0.05	24.3-24.8	6.33	29.20	2422	0.04	1.03	Sheen Lt. Amber	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Alison Eggleston	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT: 1240
PUMP OR TUBING DEPTH IN WELL (feet): 24.80	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	ESP	200
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	ESP	
QE G	1	HDPE	~~500 mL~~ 250 mL	HNO3 & wet ice	N/A		Metals – App. I	ESP	
QE F	1	HDPE	250 mL	H2SO4 & wet ice	N/A		Nutrients – App. I	ESP	
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	ESP	

REMARKS: Heavy Sheen

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275

WELL NO: MW-15	SAMPLE ID: 23031	DATE: 10/8/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 23.51	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.5 feet – 23.51 feet) X 0.16 gallons/foot = 1.2 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5	PURGING INITIATED AT: 0956	PURGING ENDED AT: 1032	TOTAL VOLUME PURGED (gallons): 1.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1020	1.2	1.2	0.05	~~24.5-25.0~~ 24.0-24.5	6.82	29.01	3436	0.41	3.99	Lt Amber Sheen	None
1026	0.3	1.5	0.05	~~24.5-25.0~~	6.82	29.10	3437	0.32	4.29	Lt Amber Sheen	None
1032	0.3	1.8	0.05	~~24.5-25.0~~	6.81	29.14	3435	0.34	8.26	Lt Amber Sheen	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ / Sarasota County Ronald Moore	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1035	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): 24.5	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced))	DUPLICATE: (Y) (~~N~~)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	ESP	200
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	ESP	|
QPFG	1	HDPE	~~500~~ mL 250ml	HNO3 & wet ice	N/A	|	Metals – App. I	ESP	|
QEPF	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	ESP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	ESP	|

REMARKS: Heavy sheen on water

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275

WELL NO: MW-10R	SAMPLE ID: 4510	DATE: 10/8/18

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 19.31	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.2 feet – 19.31 feet) X 0.16 gallons/foot = 1.8 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.3	PURGING INITIATED AT: 1156	PURGING ENDED AT: 1252	TOTAL VOLUME PURGED (gallons): 2.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1232	1.8	1.8	0.05	19.8-20.3	6.35	30.18	1642	0.07	0.73	Sheen Lt. Amber	None
1242	0.5	2.3	0.05	|	6.36	30.34	1644	0.06	4.76	Sheen Lt. Amber	None
~~1255~~ 1252	0.5	2.8	0.05	|	6.37	30.25	1642	0.08	0.66	Sheen Lt. Amber	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Egglesten~~ Ronald Moore / Sarasota County	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1255	SAMPLING ENDED AT: 1300
PUMP OR TUBING DEPTH IN WELL (feet): 20.3	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	ESP	200
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	ESP	|
GE~~8~~G	1	HDPE	~~500 mL~~ 250 ml	HNO3 & wet ice	N/A	|	Metals – App. I	ESP	|
GE~~8~~F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	ESP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	ESP	|

REMARKS: Heavy Sheen on water.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company:	Sarasota County
Address:	1255 T. Mabry Carlton Parkway
	Venice, FL 34292
Email:	
Phone:	Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Mr. Cesar Rodriguez
Copy To:	
Purchase Order #:	181191
Project Name:	Surface Water Central cty
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Martha.Montero@pacelabs.com,
Pace Profile #:	833 #4

Regulatory Agency	
State / Location	
	FL

Requested Analysis Filtered (Y/N): Y/N

Analyses Test: H2SO4, COD

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4 / ice	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	COD	Residual Chlorine (Y/N)
1	Pond 1 (at STW-1) 28824	WT		12/17/18	1250				1		x							1	
2	Pond 2 (at STW-2) 28825	WT		12/17/18	1325				1		x							1	
3	Field Blank	WT		12/17/18	1300				1		x							1	
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Please use Adapt

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
surface waters for Central County	Ronald Moore / Sarasota County	12/20/18	0915				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ronald Moore Ron Moore

SIGNATURE of SAMPLER: [signature] DATE Signed: 12/20/18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Form FD 9000-7: Field Parameter Data Sheet for Surface Water

SURVEY/PROJECT: Central County 2nd Semi Annual SW SAMPLERS: Ronald Moore METER # YSI-556 HACH 2100Q

STATION NUMBER	STATION DESCRIPTION	PARAMETER	DATE	TIME	TOTAL DEPTH	SAMPLE DEPTH	WATER TEMP	DO	%SAT DO	COND	SALINITY	PH	TURBIDITY
		UNIT	yy/mm/dd	hr:min	feet	feet	Celsius	mg/L	%	µS/cm	ppt	su	NTU
		STORET CODE	73672		81903	68	10	299	301	94	480	400	82078
28824	Pond 1		18/12/17	1250	1.5	0.5	16.80	3.41	–	616	–	6.05	4.03
28825	Pond 2		18/12/17	1325	1.5	0.5	20.06	6.58	–	520	–	7.64	6.85

FIELD CONDITIONS FOR STATION# _____ AT TIME_____:

CLOUD COVER (%): _____ WIND DIRECTION: _____ TIDAL STAGE: _____

PREVIOUS RAINFALL: _____ WIND SPEED (MPH/KNOTS): _____ WAVE CONDITIONS: _____

Note: This Sheet is used for recording Sample Data – Calibration information must also be documented

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

October 18, 2018

REVIEWED
By Cesar Rodriguez-Palacios at 10:14 am, Dec 05, 2018

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

RE: Project: Central Cty NAM wells
Pace Project No.: 35421436

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County

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(386)672-5668

CERTIFICATIONS

Project:	Central Cty NAM wells
Pace Project No.:	35421436

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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SAMPLE SUMMARY

Project: Central Cty NAM wells
Pace Project No.: 35421436

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35421436001	**NAM-1**	Water	10/01/18 10:02	10/02/18 15:40
35421436002	**NAM-2**	Water	10/01/18 11:58	10/02/18 15:40
35421436003	**NAM-3**	Water	10/01/18 13:11	10/02/18 15:40
35421436004	**NAM-4**	Water	10/01/18 14:05	10/02/18 15:40
35421436005	**EQ blank**	Water	10/01/18 09:15	10/02/18 15:40
35421436006	**Duplicate**	Water	10/01/18 11:58	10/02/18 15:40

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SAMPLE ANALYTE COUNT

Project: Central Cty NAM wells
Pace Project No.: 35421436

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35421436001	**NAM-1**	EPA 6010	SC1	2	PASI-O
		EPA 6020	KPP	1	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 350.1	CLL	1	PASI-O
35421436002	**NAM-2**	EPA 6010	SC1	2	PASI-O
		EPA 6020	KPP	1	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 350.1	CLL	1	PASI-O
35421436003	**NAM-3**	EPA 6010	SC1	2	PASI-O
		EPA 6020	KPP	1	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 350.1	CLL	1	PASI-O
35421436004	**NAM-4**	EPA 6010	SC1	2	PASI-O
		EPA 6020	KPP	1	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 350.1	CLL	1	PASI-O
35421436005	**EQ blank**	EPA 6010	SC1	2	PASI-O
		EPA 6020	KPP	1	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 350.1	CLL	1	PASI-O
35421436006	**Duplicate**	EPA 6010	SC1	2	PASI-O
		EPA 6020	KPP	1	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 350.1	CLL	1	PASI-O

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8 East Tower Circle
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(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

Sample: NAM-1 **Lab ID: 35421436001** Collected: 10/01/18 10:02 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.98**	Std. Units			1		10/01/18 10:02		
Field Temperature	**27.71**	deg C			1		10/01/18 10:02		
Field Specific Conductance	**903**	umhos/cm			1		10/01/18 10:02		
Oxygen, Dissolved	**0.08**	mg/L			1		10/01/18 10:02	7782-44-7	
Turbidity	**0.62**	NTU			1		10/01/18 10:02		
Water Level(NGVD)	**17.73**	feet			1		10/01/18 10:02		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**3680**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:08	7439-89-6	
Manganese	**5.9**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:08	7439-96-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic	**5.8**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:41	7440-38-2	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**514**	mg/L	5.0	5.0	1		10/03/18 14:20		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.40**	mg/L	0.050	0.035	1		10/03/18 09:37	7664-41-7	

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

Sample: NAM-2 **Lab ID: 35421436002** Collected: 10/01/18 11:58 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.86**	Std. Units			1		10/01/18 11:58		
Field Temperature	**27.99**	deg C			1		10/01/18 11:58		
Field Specific Conductance	**741**	umhos/cm			1		10/01/18 11:58		
Oxygen, Dissolved	**0.07**	mg/L			1		10/01/18 11:58	7782-44-7	
Turbidity	**0.46**	NTU			1		10/01/18 11:58		
Water Level(NGVD)	**17.36**	feet			1		10/01/18 11:58		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**3020**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:10	7439-89-6	
Manganese	**4.0 I**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:10	7439-96-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic	**11.6**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:42	7440-38-2	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**430**	mg/L	5.0	5.0	1		10/03/18 14:21		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.22**	mg/L	0.050	0.035	1		10/03/18 09:42	7664-41-7	

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ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

Sample: NAM-3 **Lab ID: 35421436003** Collected: 10/01/18 13:11 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.44**	Std. Units			1		10/01/18 13:11		
Field Temperature	**26.82**	deg C			1		10/01/18 13:11		
Field Specific Conductance	**565**	umhos/cm			1		10/01/18 13:11		
Oxygen, Dissolved	**0.07**	mg/L			1		10/01/18 13:11	7782-44-7	
Turbidity	**0.36**	NTU			1		10/01/18 13:11		
Water Level(NGVD)	**18.25**	feet			1		10/01/18 13:11		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**6440**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:13	7439-89-6	
Manganese	**8.5**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:13	7439-96-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic	**3.9**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:44	7440-38-2	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**328**	mg/L	5.0	5.0	1		10/03/18 14:21		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.29**	mg/L	0.050	0.035	1		10/03/18 09:44	7664-41-7	

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Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

Sample: NAM-4 **Lab ID: 35421436004** Collected: 10/01/18 14:05 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.23**	Std. Units			1		10/01/18 14:05		
Field Temperature	**27.04**	deg C			1		10/01/18 14:05		
Field Specific Conductance	**549**	umhos/cm			1		10/01/18 14:05		
Oxygen, Dissolved	**0.07**	mg/L			1		10/01/18 14:05	7782-44-7	
Turbidity	**0.58**	NTU			1		10/01/18 14:05		
Water Level(NGVD)	**17.42**	feet			1		10/01/18 14:05		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**3990**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:22	7439-89-6	
Manganese	**5.3**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:22	7439-96-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic	**7.6**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:45	7440-38-2	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**323**	mg/L	5.0	5.0	1		10/03/18 14:21		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.083**	mg/L	0.050	0.035	1		10/03/18 09:50	7664-41-7	

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Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

Sample: EQ blank **Lab ID: 35421436005** Collected: 10/01/18 09:15 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**9.2 U**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:25	7439-89-6	
Manganese	**0.42 U**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:25	7439-96-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:47	7440-38-2	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		10/03/18 14:21		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		10/03/18 09:52	7664-41-7	

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

Sample: Duplicate **Lab ID: 35421436006** Collected: 10/01/18 11:58 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.86**	Std. Units			1		10/01/18 11:58		
Field Temperature	**27.99**	deg C			1		10/01/18 11:58		
Field Specific Conductance	**741**	umhos/cm			1		10/01/18 11:58		
Oxygen, Dissolved	**0.07**	mg/L			1		10/01/18 11:58	7782-44-7	
Turbidity	**0.46**	NTU			1		10/01/18 11:58		
Water Level(NGVD)	**17.36**	feet			1		10/01/18 11:58		
6010 MET ICP	Analytical Method: EPA 6010	Preparation Method: EPA 3010							
Iron	**2920**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:28	7439-89-6	
Manganese	**3.8 I**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:28	7439-96-5	
6020 MET ICPMS	Analytical Method: EPA 6020	Preparation Method: EPA 3010							
Arsenic	**11.7**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:49	7440-38-2	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**426**	mg/L	5.0	5.0	1		10/03/18 14:22		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.22**	mg/L	0.050	0.035	1		10/03/18 09:53	7664-41-7	

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QUALITY CONTROL DATA

Project: Central Cty NAM wells
Pace Project No.: 35421436

QC Batch: 483216 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

METHOD BLANK: 2614848 | Matrix: Water
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	9.2 U	40.0	9.2	10/05/18 20:48	
Manganese	ug/L	0.42 U	5.0	0.42	10/05/18 20:48	

LABORATORY CONTROL SAMPLE: 2614849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2500	2600	104	80-120	
Manganese	ug/L	250	264	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614851 2614852

Parameter	Units	35422069002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	88400	2500	2500	87100	85300	-51	-123	75-125	2	20	J(M1), L
Manganese	ug/L	10.5	250	250	267	245	103	94	75-125	9	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Central Cty NAM wells
Pace Project No.: 35421436

QC Batch: 483215 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

METHOD BLANK: 2614821 | Matrix: Water
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	0.50 U	1.0	0.50	10/06/18 19:13	

LABORATORY CONTROL SAMPLE: 2614822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	50	48.0	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614823 2614824

Parameter	Units	35421363001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	9.6	50	50	60.1	64.3	101	109	75-125	7	20	

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QUALITY CONTROL DATA

Project: Central Cty NAM wells
Pace Project No.: 35421436

QC Batch: 482560 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

METHOD BLANK: 2611496 | Matrix: Water
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	10/03/18 14:18	

LABORATORY CONTROL SAMPLE: 2611497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	90-110	

SAMPLE DUPLICATE: 2611498

Parameter	Units	35421115001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	213	211	1	5	

SAMPLE DUPLICATE: 2611499

Parameter	Units	35421272002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	421	426	1	5	

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QUALITY CONTROL DATA

Project: Central Cty NAM wells
Pace Project No.: 35421436

QC Batch: 482507 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

METHOD BLANK: 2611276 | Matrix: Water
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	10/03/18 09:33	

LABORATORY CONTROL SAMPLE: 2611277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 2611279

Parameter	Units	35421436001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.40	1	1.4	95	90-110	

SAMPLE DUPLICATE: 2611278

Parameter	Units	35421436001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.40	0.40	0	20	

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QUALIFIERS

Project: Central Cty NAM wells
Pace Project No.: 35421436

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach
PASI-Tp	Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty NAM wells
Pace Project No.: 35421436

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35421436001	**NAM-1**				
35421436002	**NAM-2**				
35421436003	**NAM-3**				
35421436004	**NAM-4**				
35421436006	**Duplicate**				
35421436001	**NAM-1**	EPA 3010	483216	EPA 6010	483221
35421436002	**NAM-2**	EPA 3010	483216	EPA 6010	483221
35421436003	**NAM-3**	EPA 3010	483216	EPA 6010	483221
35421436004	**NAM-4**	EPA 3010	483216	EPA 6010	483221
35421436005	**EQ blank**	EPA 3010	483216	EPA 6010	483221
35421436006	**Duplicate**	EPA 3010	483216	EPA 6010	483221
35421436001	**NAM-1**	EPA 3010	483215	EPA 6020	483222
35421436002	**NAM-2**	EPA 3010	483215	EPA 6020	483222
35421436003	**NAM-3**	EPA 3010	483215	EPA 6020	483222
35421436004	**NAM-4**	EPA 3010	483215	EPA 6020	483222
35421436005	**EQ blank**	EPA 3010	483215	EPA 6020	483222
35421436006	**Duplicate**	EPA 3010	483215	EPA 6020	483222
35421436001	**NAM-1**	SM 2540C	482560		
35421436002	**NAM-2**	SM 2540C	482560		
35421436003	**NAM-3**	SM 2540C	482560		
35421436004	**NAM-4**	SM 2540C	482560		
35421436005	**EQ blank**	SM 2540C	482560		
35421436006	**Duplicate**	SM 2540C	482560		
35421436001	**NAM-1**	EPA 350.1	482507		
35421436002	**NAM-2**	EPA 350.1	482507		
35421436003	**NAM-3**	EPA 350.1	482507		
35421436004	**NAM-4**	EPA 350.1	482507		
35421436005	**EQ blank**	EPA 350.1	482507		
35421436006	**Duplicate**	EPA 350.1	482507		

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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

WO# : 35421436

35421436

Section A
Required Client Information:

Company:	Sarasota County
Address:	1255 T. Mabry Carlton Parkway
	Venice, FL 34292
Email:	
Phone:	941-650-9834 Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Mr. Cesar Rodriguez
Copy To:	
Purchase Order #:	180736
Project Name:	Central Cty NAM wells
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Martha.montero@pacelabs.com,
Pace Profile #:	833 L7

Regulatory Agency

State / Location
FL

Requested Analysis Filtered (Y/N)

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: Unpreserved	TDS, NOX	metal by 6010/6020 As Fe Mn HNO3	Total Ammonia-N	Residual Chlorine (Y/N)	
1	NAM-1	WT		10/1/18	1002				3										A	B	C		
2	NAM-2	WT		10/1/18	1158				3										A	B	C		
3	NAM-3	WT		10/1/18	1311				3										A	B	C		
4	NAM-4	WT		10/1/18	1405				3										A	B	C		
5	~~field blank~~ EQ	WT		10/1/18	0915				3										A	B	C		
6	Duplicate	WT		10/1/18	1158				3										A	B	C		
7																							
8																							

PLEASE USE ADA

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Sarasota Central Landfill NAM wells, profile 833 #7	Alison Eggleston	10/2/18	1400		10/2/18	1410	DC3			
		10/2/18	1540	MMCGREW/PACE	10/2/18	1540	1.3	X	~	X

PRINT Name of SAMPLER: Alison Eggleston

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35421436

Project Manager: PM: MIM **Due Date:** 10/16/18

Client: CLIENT: SARCOU

Date and Initials of person:
Examining contents: MVL
Label: 10/2/18
Deliver:
pH:

Thermometer Used: T-203 Date: 10-2-18 Time: 1540 Initials: MJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 1.3	(Visual) 0.0	(Correction Factor) 1.3	(Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ 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:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☑ N/A	
Trip Blank Present:	☐ Yes ☐ No ☑ N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

October 18, 2018

REVIEWED
By Cesar Rodriguez-Palacios at 11:43 am, Jan 08, 2019

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

RE: Project: Central City
Pace Project No.: 35421718

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County

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Ormond Beach, FL 32174
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CERTIFICATIONS

Project: Central City
Pace Project No.: 35421718

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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Ormond Beach, FL 32174
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SAMPLE SUMMARY

Project: Central City
Pace Project No.: 35421718

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35421718001	**MW-1R (20585)**	Water	10/03/18 09:48	10/03/18 17:50
35421718002	**MW-8A (21453)**	Water	10/03/18 11:00	10/03/18 17:50
35421718003	**MW-9 (4509)**	Water	10/03/18 12:22	10/03/18 17:50
35421718004	**Trip Blank 8260 #1**	Water	10/03/18 09:48	10/03/18 17:50
35421718005	**Trip Blank 8011 #1**	Water	10/03/18 09:48	10/03/18 17:50

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SAMPLE ANALYTE COUNT

Project: Central City
Pace Project No.: 35421718

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35421718001	**MW-1R (20585)**	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	FDV, KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35421718002	**MW-8A (21453)**	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	FDV, KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35421718003	**MW-9 (4509)**	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	FDV, KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35421718004	**Trip Blank 8260 #1**	EPA 8260	SK1	48	PASI-O
35421718005	**Trip Blank 8011 #1**	EPA 8011	MMB	2	PASI-O

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: MW-1R (20585) **Lab ID: 35421718001** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.18**	Std. Units			1		10/03/18 09:48		
Field Temperature	**27.66**	deg C			1		10/03/18 09:48		
Field Specific Conductance	**336**	umhos/cm			1		10/03/18 09:48		
Oxygen, Dissolved	**0.06**	mg/L			1		10/03/18 09:48	7782-44-7	
Turbidity	**0.96**	NTU			1		10/03/18 09:48		
Water Level(NGVD)	**21.40**	feet			1		10/03/18 09:48		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	10/08/18 08:58	10/09/18 01:35	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	10/08/18 08:58	10/09/18 01:35	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**37.5**	ug/L	10.0	0.84	1	10/05/18 01:39	10/05/18 21:42	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/05/18 01:39	10/05/18 21:42	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/05/18 01:39	10/05/18 21:42	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/05/18 01:39	10/05/18 21:42	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	10/05/18 01:39	10/05/18 21:42	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/05/18 01:39	10/05/18 21:42	7440-50-8	
Iron	**2380**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:42	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/05/18 01:39	10/05/18 21:42	7439-92-1	
Manganese	**70.9**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:42	7439-96-5	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	10/05/18 01:39	10/05/18 21:42	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/05/18 01:39	10/05/18 21:42	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/05/18 01:39	10/05/18 21:42	7440-22-4	
Sodium	**7.6**	mg/L	2.0	0.27	1	10/05/18 01:39	10/05/18 21:42	7440-23-5	
Vanadium	**6.4 I**	ug/L	10.0	1.0	1	10/05/18 01:39	10/05/18 21:42	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/05/18 01:39	10/05/18 21:42	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:53	7440-36-0	
Arsenic	**3.5**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:53	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 19:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/16/18 12:08	10/17/18 14:52	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/12/18 17:06	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:06	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/12/18 17:06	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/12/18 17:06	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/12/18 17:06	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:06	78-93-3	

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: MW-1R (20585) **Lab ID: 35421718001** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:06	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/12/18 17:06	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/12/18 17:06	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/12/18 17:06	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/12/18 17:06	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/12/18 17:06	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:06	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/12/18 17:06	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/12/18 17:06	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:06	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/12/18 17:06	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/12/18 17:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:06	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/12/18 17:06	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/12/18 17:06	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/12/18 17:06	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:06	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/12/18 17:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/12/18 17:06	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/12/18 17:06	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/12/18 17:06	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**261**	mg/L	5.0	5.0	1		10/09/18 14:59		

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: MW-1R (20585) **Lab ID: 35421718001** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**8.7**	mg/L	5.0	2.5	1		10/15/18 02:30	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/15/18 02:30	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.55**	mg/L	0.050	0.035	1		10/04/18 14:43	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		10/04/18 17:59	14797-55-8	

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: MW-8A (21453) **Lab ID: 35421718002** Collected: 10/03/18 11:00 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.23**	Std. Units			1		10/03/18 11:00		
Field Temperature	**27.52**	deg C			1		10/03/18 11:00		
Field Specific Conductance	**1106**	umhos/cm			1		10/03/18 11:00		
Oxygen, Dissolved	**0.11**	mg/L			1		10/03/18 11:00	7782-44-7	
Turbidity	**2.60**	NTU			1		10/03/18 11:00		
Water Level(NGVD)	**20.70**	feet			1		10/03/18 11:00		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.020	0.0062	1	10/08/18 08:58	10/09/18 02:20	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	10/08/18 08:58	10/09/18 02:20	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**50.0**	ug/L	10.0	0.84	1	10/05/18 01:39	10/05/18 21:45	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/05/18 01:39	10/05/18 21:45	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/05/18 01:39	10/05/18 21:45	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/05/18 01:39	10/05/18 21:45	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	10/05/18 01:39	10/05/18 21:45	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/05/18 01:39	10/05/18 21:45	7440-50-8	
Iron	**10100**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:45	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/05/18 01:39	10/05/18 21:45	7439-92-1	
Manganese	**94.8**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:45	7439-96-5	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	10/05/18 01:39	10/05/18 21:45	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/05/18 01:39	10/05/18 21:45	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/05/18 01:39	10/05/18 21:45	7440-22-4	
Sodium	**16.9**	mg/L	2.0	0.27	1	10/05/18 01:39	10/05/18 21:45	7440-23-5	
Vanadium	**4.6 I**	ug/L	10.0	1.0	1	10/05/18 01:39	10/05/18 21:45	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/05/18 01:39	10/05/18 21:45	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:56	7440-36-0	
Arsenic	**11.4**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:56	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 19:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/16/18 12:08	10/17/18 14:58	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/12/18 17:30	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:30	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/12/18 17:30	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/12/18 17:30	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/12/18 17:30	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:30	78-93-3	

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: MW-8A (21453) **Lab ID: 35421718002** Collected: 10/03/18 11:00 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:30	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/12/18 17:30	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/12/18 17:30	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/12/18 17:30	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/12/18 17:30	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/12/18 17:30	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:30	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/12/18 17:30	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/12/18 17:30	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:30	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/12/18 17:30	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/12/18 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:30	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/12/18 17:30	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/12/18 17:30	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/12/18 17:30	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:30	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/12/18 17:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/12/18 17:30	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/12/18 17:30	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		10/12/18 17:30	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**617**	mg/L	5.0	5.0	1		10/09/18 14:59		

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: MW-8A (21453) **Lab ID: 35421718002** Collected: 10/03/18 11:00 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.2**	mg/L	5.0	2.5	1		10/15/18 06:48	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/15/18 06:48	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**11.1**	mg/L	0.050	0.035	1		10/04/18 14:44	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		10/04/18 18:02	14797-55-8	

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: MW-9 (4509) **Lab ID: 35421718003** Collected: 10/03/18 12:22 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.57**	Std. Units			1		10/03/18 12:22		
Field Temperature	**30.30**	deg C			1		10/03/18 12:22		
Field Specific Conductance	**1487**	umhos/cm			1		10/03/18 12:22		
Oxygen, Dissolved	**0.11**	mg/L			1		10/03/18 12:22	7782-44-7	
Turbidity	**3.86**	NTU			1		10/03/18 12:22		
Water Level(NGVD)	**20.68**	feet			1		10/03/18 12:22		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/08/18 08:58	10/09/18 02:49	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	10/08/18 08:58	10/09/18 02:49	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**100**	ug/L	10.0	0.84	1	10/05/18 01:39	10/05/18 21:48	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/05/18 01:39	10/05/18 21:48	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/05/18 01:39	10/05/18 21:48	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/05/18 01:39	10/05/18 21:48	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	10/05/18 01:39	10/05/18 21:48	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/05/18 01:39	10/05/18 21:48	7440-50-8	
Iron	**24700**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:48	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/05/18 01:39	10/05/18 21:48	7439-92-1	
Manganese	**38.0**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:48	7439-96-5	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	10/05/18 01:39	10/05/18 21:48	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/05/18 01:39	10/05/18 21:48	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/05/18 01:39	10/05/18 21:48	7440-22-4	
Sodium	**25.8**	mg/L	2.0	0.27	1	10/05/18 01:39	10/05/18 21:48	7440-23-5	
Vanadium	**4.1 I**	ug/L	10.0	1.0	1	10/05/18 01:39	10/05/18 21:48	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/05/18 01:39	10/05/18 21:48	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:58	7440-36-0	
Arsenic	**12.5**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:58	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 19:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/16/18 12:08	10/17/18 15:04	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/12/18 17:53	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:53	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/12/18 17:53	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/12/18 17:53	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/12/18 17:53	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:53	78-93-3	

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: MW-9 (4509) **Lab ID: 35421718003** Collected: 10/03/18 12:22 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:53	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/12/18 17:53	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/12/18 17:53	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/12/18 17:53	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/12/18 17:53	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/12/18 17:53	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:53	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/12/18 17:53	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/12/18 17:53	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:53	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/12/18 17:53	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/12/18 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/12/18 17:53	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/12/18 17:53	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/12/18 17:53	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/12/18 17:53	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/12/18 17:53	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/12/18 17:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/12/18 17:53	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/12/18 17:53	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/12/18 17:53	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**828**	mg/L	10.0	10.0	1		10/09/18 14:59		

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: MW-9 (4509) **Lab ID: 35421718003** Collected: 10/03/18 12:22 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**22.1**	mg/L	5.0	2.5	1		10/15/18 07:11	16887-00-6	
Sulfate	**8.3**	mg/L	5.0	2.5	1		10/15/18 07:11	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**9.0**	mg/L	0.050	0.035	1		10/04/18 14:56	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		10/04/18 18:03	14797-55-8	

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: Trip Blank 8260 #1 **Lab ID: 35421718004** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/14/18 19:44	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 19:44	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/14/18 19:44	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/14/18 19:44	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/14/18 19:44	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 19:44	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 19:44	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/14/18 19:44	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/14/18 19:44	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/14/18 19:44	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/14/18 19:44	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/14/18 19:44	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 19:44	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/14/18 19:44	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/14/18 19:44	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 19:44	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/14/18 19:44	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/14/18 19:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 19:44	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/14/18 19:44	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/14/18 19:44	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/14/18 19:44	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 19:44	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/14/18 19:44	1330-20-7	

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: Trip Blank 8260 #1 **Lab ID: 35421718004** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		10/14/18 19:44	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/14/18 19:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/14/18 19:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

Sample: Trip Blank 8011 #1 **Lab ID: 35421718005** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/08/18 08:58	10/09/18 03:04	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	10/08/18 08:58	10/09/18 03:04	106-93-4	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 485692 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2627727 | Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	10/17/18 14:43	

LABORATORY CONTROL SAMPLE: 2627728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2627729 2627730

Parameter	Units	35421718001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.9	2.0	96	98	75-125	3	20	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 483216 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2614848 | Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	10/05/18 20:48	
Beryllium	ug/L	1.6 U	4.0	1.6	10/05/18 20:48	
Cadmium	ug/L	0.33 U	1.0	0.33	10/05/18 20:48	
Chromium	ug/L	1.7 U	5.0	1.7	10/05/18 20:48	
Cobalt	ug/L	0.96 U	10.0	0.96	10/05/18 20:48	
Copper	ug/L	2.6 U	5.0	2.6	10/05/18 20:48	
Iron	ug/L	9.2 U	40.0	9.2	10/05/18 20:48	
Lead	ug/L	4.6 U	10.0	4.6	10/05/18 20:48	
Manganese	ug/L	0.42 U	5.0	0.42	10/05/18 20:48	
Nickel	ug/L	2.1 U	5.0	2.1	10/05/18 20:48	
Selenium	ug/L	8.5 U	15.0	8.5	10/05/18 20:48	
Silver	ug/L	1.0 U	5.0	1.0	10/05/18 20:48	
Sodium	mg/L	0.27 U	2.0	0.27	10/05/18 20:48	
Vanadium	ug/L	1.0 U	10.0	1.0	10/05/18 20:48	
Zinc	ug/L	11.0 U	20.0	11.0	10/05/18 20:48	

LABORATORY CONTROL SAMPLE: 2614849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	257	103	80-120	
Beryllium	ug/L	25	25.7	103	80-120	
Cadmium	ug/L	25	26.2	105	80-120	
Chromium	ug/L	250	260	104	80-120	
Cobalt	ug/L	250	262	105	80-120	
Copper	ug/L	250	254	102	80-120	
Iron	ug/L	2500	2600	104	80-120	
Lead	ug/L	250	259	104	80-120	
Manganese	ug/L	250	264	106	80-120	
Nickel	ug/L	250	260	104	80-120	
Selenium	ug/L	250	265	106	80-120	
Silver	ug/L	25	26.1	104	80-120	
Sodium	mg/L	12.5	12.6	101	80-120	
Vanadium	ug/L	250	259	103	80-120	
Zinc	ug/L	1250	1310	105	80-120	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614851 2614852

Parameter	Units	35422069002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	95.6	250	250	348	351	101	102	75-125	1	20	
Beryllium	ug/L	1.6 U	25	25	21.0	23.5	84	94	75-125	11	20	
Cadmium	ug/L	0.33 U	25	25	25.0	24.9	99	99	75-125	0	20	
Chromium	ug/L	1.8 I	250	250	256	245	102	97	75-125	4	20	
Cobalt	ug/L	1.8 I	250	250	261	260	104	103	75-125	0	20	
Copper	ug/L	2.6 U	250	250	259	261	104	105	75-125	1	20	
Iron	ug/L	88400	2500	2500	87100	85300	-51	-123	75-125	2	20	J(M1), L
Lead	ug/L	4.6 U	250	250	249	257	99	103	75-125	3	20	
Manganese	ug/L	10.5	250	250	267	245	103	94	75-125	9	20	
Nickel	ug/L	2.7 I	250	250	255	260	101	103	75-125	2	20	
Selenium	ug/L	8.5 U	250	250	254	255	102	102	75-125	0	20	
Silver	ug/L	1.0 U	25	25	25.5	24.7	102	99	75-125	3	20	
Sodium	mg/L	60.8	12.5	12.5	73.5	76.3	102	123	75-125	4	20	
Vanadium	ug/L	5.8 I	250	250	264	252	103	98	75-125	5	20	
Zinc	ug/L	11.0 U	1250	1250	1240	1320	98	105	75-125	6	20	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 483215 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2614821 | Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	10/06/18 19:13	
Arsenic	ug/L	0.50 U	1.0	0.50	10/06/18 19:13	
Thallium	ug/L	0.50 U	1.0	0.50	10/05/18 18:21	

LABORATORY CONTROL SAMPLE: 2614822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.5	97	80-120	
Arsenic	ug/L	50	48.0	96	80-120	
Thallium	ug/L	50	49.1	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614823 2614824

Parameter	Units	35421363001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	50.8	54.0	101	108	75-125	6	20	
Arsenic	ug/L	9.6	50	50	60.1	64.3	101	109	75-125	7	20	
Thallium	ug/L	0.50 U	50	50	51.5	51.3	103	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 485124 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2625095 | Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	10/12/18 11:11	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	10/12/18 11:11	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	10/12/18 11:11	
2-Hexanone	ug/L	5.0 U	10.0	5.0	10/12/18 11:11	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	10/12/18 11:11	
Acetone	ug/L	10.0 U	20.0	10.0	10/12/18 11:11	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	10/12/18 11:11	
Benzene	ug/L	0.10 U	1.0	0.10	10/12/18 11:11	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	10/12/18 11:11	
Bromoform	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
Bromomethane	ug/L	0.50 U	5.0	0.50	10/12/18 11:11	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	10/12/18 11:11	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	10/12/18 11:11	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
Chloroethane	ug/L	0.50 U	10.0	0.50	10/12/18 11:11	
Chloroform	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
Chloromethane	ug/L	0.62 U	1.0	0.62	10/12/18 11:11	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/12/18 11:11	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	10/12/18 11:11	
Dibromomethane	ug/L	0.50 U	2.0	0.50	10/12/18 11:11	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
Iodomethane	ug/L	0.50 U	10.0	0.50	10/12/18 11:11	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	10/12/18 11:11	
Styrene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
Toluene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/12/18 11:11	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	10/12/18 11:11	
Trichloroethene	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

METHOD BLANK: 2625095 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	10/12/18 11:11	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	10/12/18 11:11	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	10/12/18 11:11	
1,2-Dichloroethane-d4 (S)	%	93	70-130		10/12/18 11:11	
4-Bromofluorobenzene (S)	%	101	70-130		10/12/18 11:11	
Toluene-d8 (S)	%	102	70-130		10/12/18 11:11	

LABORATORY CONTROL SAMPLE: 2625096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.4	87	70-130	
1,1,1-Trichloroethane	ug/L	20	17.2	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	99	68-125	
1,1,2-Trichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethane	ug/L	20	17.6	88	70-130	
1,1-Dichloroethene	ug/L	20	18.8	94	66-133	
1,2,3-Trichloropropane	ug/L	20	19.6	98	62-127	
1,2-Dichlorobenzene	ug/L	20	19.2	96	70-130	
1,2-Dichloroethane	ug/L	20	17.3	86	70-130	
1,2-Dichloropropane	ug/L	20	18.7	93	70-130	
1,4-Dichlorobenzene	ug/L	20	18.9	95	70-130	
2-Butanone (MEK)	ug/L	40	32.1	80	47-143	
2-Hexanone	ug/L	40	38.1	95	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	36.3	91	57-132	
Acetone	ug/L	40	31.0	78	46-148	
Acrylonitrile	ug/L	200	220	110	60-143	
Benzene	ug/L	20	18.6	93	70-130	
Bromochloromethane	ug/L	20	18.5	93	70-130	
Bromodichloromethane	ug/L	20	17.0	85	70-130	
Bromoform	ug/L	20	15.6	78	49-126	
Bromomethane	ug/L	20	14.7	74	10-165	
Carbon disulfide	ug/L	20	15.5	78	60-141	
Carbon tetrachloride	ug/L	20	16.2	81	63-126	
Chlorobenzene	ug/L	20	19.7	98	70-130	
Chloroethane	ug/L	20	25.6	128	71-142	
Chloroform	ug/L	20	17.4	87	70-130	
Chloromethane	ug/L	20	11.1	56	40-140	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.6	88	70-130	
Dibromochloromethane	ug/L	20	15.6	78	62-118	
Dibromomethane	ug/L	20	18.9	95	70-130	
Ethylbenzene	ug/L	20	18.9	94	70-130	
Iodomethane	ug/L	40	13.3	33	10-164	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

LABORATORY CONTROL SAMPLE: 2625096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	18.1	90	65-136	
Styrene	ug/L	20	20.1	101	70-130	
Tetrachloroethene	ug/L	20	18.8	94	64-134	
Toluene	ug/L	20	20.0	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.3	87	68-127	
trans-1,3-Dichloropropene	ug/L	20	16.8	84	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	16.9	84	42-129	
Trichloroethene	ug/L	20	19.1	96	70-130	
Trichlorofluoromethane	ug/L	20	16.5	82	65-135	
Vinyl acetate	ug/L	20	18.6	93	60-144	
Vinyl chloride	ug/L	20	17.3	86	68-131	
Xylene (Total)	ug/L	60	58.5	98	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 2626721

Parameter	Units	35422753008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	15.2	76	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	16.2	81	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	16.5	83	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	17.9	89	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	16.7	84	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.9	90	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	16.1	81	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	16.7	84	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	15.6	77	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.0	80	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	17.4	87	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	23.0	57	47-143	
2-Hexanone	ug/L	5.0 U	40	27.2	68	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	25.3	63	57-132	
Acetone	ug/L	10.0 U	40	23.6	59	46-148	
Acrylonitrile	ug/L	5.0 U	200	128	64	60-143	
Benzene	ug/L	0.10 U	20	17.1	86	70-130	
Bromochloromethane	ug/L	0.50 U	20	17.3	86	70-130	
Bromodichloromethane	ug/L	0.27 U	20	14.6	73	70-130	
Bromoform	ug/L	0.50 U	20	13.8	69	49-126	
Bromomethane	ug/L	0.50 U	20	19.4	97	10-165	
Carbon disulfide	ug/L	5.0 U	20	12.9	64	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	16.1	80	63-126	
Chlorobenzene	ug/L	0.50 U	20	18.0	90	70-130	
Chloroethane	ug/L	0.50 U	20	25.8	129	71-142	
Chloroform	ug/L	0.50 U	20	15.5	77	70-130	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

MATRIX SPIKE SAMPLE: 2626721

Parameter	Units	35422753008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	10.6	53	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	15.6	78	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.4	67	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	13.3	67	62-118	
Dibromomethane	ug/L	0.50 U	20	17.3	87	70-130	
Ethylbenzene	ug/L	0.50 U	20	17.6	88	70-130	
Iodomethane	ug/L	0.50 U	40	2.8 I	7	10-164	J(M1)
Methylene Chloride	ug/L	2.5 U	20	16.4	82	65-136	
Styrene	ug/L	0.50 U	20	17.7	88	70-130	
Tetrachloroethene	ug/L	0.50 U	20	17.8	89	64-134	
Toluene	ug/L	0.50 U	20	18.4	91	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	16.0	80	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.1	70	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	12.9	65	42-129	
Trichloroethene	ug/L	0.50 U	20	17.8	89	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	17.9	90	65-135	
Vinyl acetate	ug/L	1.0 U	20	12.8	64	60-144	
Vinyl chloride	ug/L	0.50 U	20	17.5	88	68-131	
Xylene (Total)	ug/L	1.5 U	60	51.3	85	70-130	
1,2-Dichloroethane-d4 (S)	%				92	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2626720

Parameter	Units	35422753007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

SAMPLE DUPLICATE: 2626720

Parameter	Units	35422753007 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	96	94	2	40	
4-Bromofluorobenzene (S)	%	98	100	1	40	
Toluene-d8 (S)	%	105	103	2	40	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 485456 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35421718004

METHOD BLANK: 2626688 | Matrix: Water
Associated Lab Samples: 35421718004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	10/14/18 19:20	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	10/14/18 19:20	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
2-Hexanone	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
Acetone	ug/L	10.0 U	20.0	10.0	10/14/18 19:20	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
Benzene	ug/L	0.10 U	1.0	0.10	10/14/18 19:20	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	10/14/18 19:20	
Bromoform	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Bromomethane	ug/L	0.50 U	5.0	0.50	10/14/18 19:20	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	10/14/18 19:20	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Chloroethane	ug/L	0.50 U	10.0	0.50	10/14/18 19:20	
Chloroform	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Chloromethane	ug/L	0.62 U	1.0	0.62	10/14/18 19:20	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/14/18 19:20	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	10/14/18 19:20	
Dibromomethane	ug/L	0.50 U	2.0	0.50	10/14/18 19:20	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Iodomethane	ug/L	0.50 U	10.0	0.50	10/14/18 19:20	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	10/14/18 19:20	
Styrene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Toluene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/14/18 19:20	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
Trichloroethene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

METHOD BLANK: 2626688 Matrix: Water
Associated Lab Samples: 35421718004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	10/14/18 19:20	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	10/14/18 19:20	
1,2-Dichloroethane-d4 (S)	%	98	70-130		10/14/18 19:20	
4-Bromofluorobenzene (S)	%	103	70-130		10/14/18 19:20	
Toluene-d8 (S)	%	105	70-130		10/14/18 19:20	

LABORATORY CONTROL SAMPLE: 2626689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.2	91	70-130	
1,1,1-Trichloroethane	ug/L	20	17.5	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	68-125	
1,1,2-Trichloroethane	ug/L	20	19.9	100	70-130	
1,1-Dichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethene	ug/L	20	20.2	101	66-133	
1,2,3-Trichloropropane	ug/L	20	19.5	98	62-127	
1,2-Dichlorobenzene	ug/L	20	19.0	95	70-130	
1,2-Dichloroethane	ug/L	20	17.6	88	70-130	
1,2-Dichloropropane	ug/L	20	18.5	92	70-130	
1,4-Dichlorobenzene	ug/L	20	19.1	95	70-130	
2-Butanone (MEK)	ug/L	40	34.2	86	47-143	
2-Hexanone	ug/L	40	39.8	99	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	37.3	93	57-132	
Acetone	ug/L	40	35.5	89	46-148	
Acrylonitrile	ug/L	200	206	103	60-143	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	19.5	97	70-130	
Bromodichloromethane	ug/L	20	18.1	90	70-130	
Bromoform	ug/L	20	18.0	90	49-126	
Bromomethane	ug/L	20	19.9	100	10-165	
Carbon disulfide	ug/L	20	16.6	83	60-141	
Carbon tetrachloride	ug/L	20	18.4	92	63-126	
Chlorobenzene	ug/L	20	19.9	99	70-130	
Chloroethane	ug/L	20	31.1	156	71-142	J(L1)
Chloroform	ug/L	20	17.3	86	70-130	
Chloromethane	ug/L	20	14.7	73	40-140	
cis-1,2-Dichloroethene	ug/L	20	17.0	85	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.2	86	70-130	
Dibromochloromethane	ug/L	20	16.2	81	62-118	
Dibromomethane	ug/L	20	19.6	98	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Iodomethane	ug/L	40	9.6 I	24	10-164	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

LABORATORY CONTROL SAMPLE: 2626689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.0	95	65-136	
Styrene	ug/L	20	19.5	97	70-130	
Tetrachloroethene	ug/L	20	20.1	100	64-134	
Toluene	ug/L	20	19.5	98	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.1	86	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.3	87	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	17.0	85	42-129	
Trichloroethene	ug/L	20	19.6	98	70-130	
Trichlorofluoromethane	ug/L	20	21.3	106	65-135	
Vinyl acetate	ug/L	20	19.5	97	60-144	
Vinyl chloride	ug/L	20	22.2	111	68-131	
Xylene (Total)	ug/L	60	56.1	93	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2627261

Parameter	Units	35423873003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	10.0	50	70-130	J(M1)
1,1,1-Trichloroethane	ug/L	0.50 U	20	11.7	59	70-130	J(M1)
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	11.6	58	68-125	J(M1)
1,1,2-Trichloroethane	ug/L	0.50 U	20	12.1	60	70-130	J(M1)
1,1-Dichloroethane	ug/L	0.50 U	20	12.3	62	70-130	J(M1)
1,1-Dichloroethene	ug/L	0.50 U	20	14.0	70	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	10.8	54	62-127	J(M1)
1,2-Dichlorobenzene	ug/L	0.50 U	20	11.9	60	70-130	J(M1)
1,2-Dichloroethane	ug/L	0.50 U	20	11.6	58	70-130	J(M1)
1,2-Dichloropropane	ug/L	0.50 U	20	11.7	59	70-130	J(M1)
1,4-Dichlorobenzene	ug/L	0.50 U	20	12.0	60	70-130	J(M1)
2-Butanone (MEK)	ug/L	5.0 U	40	24.5	61	47-143	
2-Hexanone	ug/L	5.0 U	40	28.2	71	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	26.0	65	57-132	
Acetone	ug/L	10.0 U	40	27.2	68	46-148	
Acrylonitrile	ug/L	5.0 U	200	152	76	60-143	
Benzene	ug/L	0.55 I	20	12.7	61	70-130	J(M1)
Bromochloromethane	ug/L	0.50 U	20	12.9	65	70-130	J(M1)
Bromodichloromethane	ug/L	0.71	20	11.9	56	70-130	J(M1)
Bromoform	ug/L	0.50 U	20	10.1	50	49-126	
Bromomethane	ug/L	0.50 U	20	17.6	88	10-165	
Carbon disulfide	ug/L	5.0 U	20	14.4	72	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	11.9	60	63-126	J(M1)
Chlorobenzene	ug/L	0.50 U	20	12.4	62	70-130	J(M1)
Chloroethane	ug/L	0.50 U	20	15.9	80	71-142	
Chloroform	ug/L	4.6	20	16.1	57	70-130	J(M1)

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

MATRIX SPIKE SAMPLE: 2627261

Parameter	Units	35423873003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	8.9	43	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	12.2	61	70-130	J(M1)
cis-1,3-Dichloropropene	ug/L	0.25 U	20	9.9	49	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	9.6	48	62-118	J(M1)
Dibromomethane	ug/L	0.50 U	20	11.7	59	70-130	J(M1)
Ethylbenzene	ug/L	6.8	20	18.9	61	70-130	J(M1)
Iodomethane	ug/L	0.50 U	40	3.0 I	8	10-164	J(M1)
Methylene Chloride	ug/L	2.5 U	20	11.2	56	65-136	J(M1)
Styrene	ug/L	0.50 U	20	12.0	60	70-130	J(M1)
Tetrachloroethene	ug/L	0.50 U	20	12.3	62	64-134	J(M1)
Toluene	ug/L	0.50 U	20	12.3	61	70-130	J(M1)
trans-1,2-Dichloroethene	ug/L	0.50 U	20	12.0	60	68-127	J(M1)
trans-1,3-Dichloropropene	ug/L	0.25 U	20	9.6	48	65-121	J(M1)
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	11.4	57	42-129	
Trichloroethene	ug/L	0.50 U	20	20.4	102	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	12.8	64	65-135	J(M1)
Vinyl acetate	ug/L	1.0 U	20	14.1	70	60-144	
Vinyl chloride	ug/L	0.50 U	20	13.8	69	68-131	
Xylene (Total)	ug/L	1.5 U	60	35.5	59	70-130	MS
1,2-Dichloroethane-d4 (S)	%				93	70-130	
4-Bromofluorobenzene (S)	%				106	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2627260

Parameter	Units	35423873002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	25.7	24.5	5	40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

SAMPLE DUPLICATE: 2627260

Parameter	Units	35423873002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	67.6	65.2	4	40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	13.3	13.5	2	40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	257	258	0	40	
1,2-Dichloroethane-d4 (S)	%	94	91	4	40	
4-Bromofluorobenzene (S)	%	108	109	1	40	
Toluene-d8 (S)	%	107	103	4	40	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 483508 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35421718001, 35421718002, 35421718003, 35421718005

METHOD BLANK: 2616370 | Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003, 35421718005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	10/09/18 01:05	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	10/09/18 01:05	

LABORATORY CONTROL SAMPLE: 2616371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.25	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	100	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2617124 2617125

Parameter	Units	35421718001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.52	0.49	119	111	60-140	7	40	
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	.44	.44	0.49	0.41	113	95	60-140	18	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 483992 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2618765 | Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	10/09/18 14:51	

LABORATORY CONTROL SAMPLE: 2618766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	287	96	90-110	

SAMPLE DUPLICATE: 2618767

Parameter	Units	35421600001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1170	1160	1	5	

SAMPLE DUPLICATE: 2618768

Parameter	Units	35422232004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	283	285	1	5	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 485423 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2626594 | Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	10/15/18 00:33	
Sulfate	mg/L	2.5 U	5.0	2.5	10/15/18 00:33	

LABORATORY CONTROL SAMPLE: 2626595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Sulfate	mg/L	50	48.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626596 2626597

Parameter	Units	7595686009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	31.9	50	50	85.4	85.4	107	107	90-110	0	20	
Sulfate	mg/L	42.1	50	50	96.6	96.5	109	109	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 482884 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2613192 | Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	10/04/18 13:56	

LABORATORY CONTROL SAMPLE: 2613193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	99	90-110	

MATRIX SPIKE SAMPLE: 2613195

Parameter	Units	35421730014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5.7	1	6.7	93	90-110	

SAMPLE DUPLICATE: 2613194

Parameter	Units	35421730014 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	5.7	5.7	0	20	

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QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 483121 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2614071 | Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	10/04/18 16:44	

SAMPLE DUPLICATE: 2614073

Parameter	Units	35421631001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	7.1	8.5	17	20	

SAMPLE DUPLICATE: 2614075

Parameter	Units	35421692001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.45	0.44	3	20	

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QUALIFIERS

Project:	Central City
Pace Project No.:	35421718

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach
PASI-Tp	Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central City
Pace Project No.: 35421718

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35421718001	**MW-1R (20585)**				
35421718002	**MW-8A (21453)**				
35421718003	**MW-9 (4509)**				
35421718001	**MW-1R (20585)**	EPA 8011	483508	EPA 8011	483847
35421718002	**MW-8A (21453)**	EPA 8011	483508	EPA 8011	483847
35421718003	**MW-9 (4509)**	EPA 8011	483508	EPA 8011	483847
35421718005	**Trip Blank 8011 #1**	EPA 8011	483508	EPA 8011	483847
35421718001	**MW-1R (20585)**	EPA 3010	483216	EPA 6010	483221
35421718002	**MW-8A (21453)**	EPA 3010	483216	EPA 6010	483221
35421718003	**MW-9 (4509)**	EPA 3010	483216	EPA 6010	483221
35421718001	**MW-1R (20585)**	EPA 3010	483215	EPA 6020	483222
35421718002	**MW-8A (21453)**	EPA 3010	483215	EPA 6020	483222
35421718003	**MW-9 (4509)**	EPA 3010	483215	EPA 6020	483222
35421718001	**MW-1R (20585)**	EPA 7470	485692	EPA 7470	485966
35421718002	**MW-8A (21453)**	EPA 7470	485692	EPA 7470	485966
35421718003	**MW-9 (4509)**	EPA 7470	485692	EPA 7470	485966
35421718001	**MW-1R (20585)**	EPA 8260	485124		
35421718002	**MW-8A (21453)**	EPA 8260	485124		
35421718003	**MW-9 (4509)**	EPA 8260	485124		
35421718004	**Trip Blank 8260 #1**	EPA 8260	485456		
35421718001	**MW-1R (20585)**	SM 2540C	483992		
35421718002	**MW-8A (21453)**	SM 2540C	483992		
35421718003	**MW-9 (4509)**	SM 2540C	483992		
35421718001	**MW-1R (20585)**	EPA 300.0	485423		
35421718002	**MW-8A (21453)**	EPA 300.0	485423		
35421718003	**MW-9 (4509)**	EPA 300.0	485423		
35421718001	**MW-1R (20585)**	EPA 350.1	482884		
35421718002	**MW-8A (21453)**	EPA 350.1	482884		
35421718003	**MW-9 (4509)**	EPA 350.1	482884		
35421718001	**MW-1R (20585)**	EPA 353.2	483121		
35421718002	**MW-8A (21453)**	EPA 353.2	483121		
35421718003	**MW-9 (4509)**	EPA 353.2	483121		

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WO# : 35421718

35421718

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mus

Page : 1 Of 1

Section A
Required Client Information:

Company:	Sarasota County
Address:	1255 T. Mabry Carlton Parkway
	Venice, FL 34292
Email:	
Phone: 941-650-9834	Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Mr. Cesar Rodriguez
Copy To:	
Purchase Order #:	180736
Project Name:	Central Cty MW wells Appdx 1
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	martha.montero@pacelabs.com,
Pace Profile #:	833 #1

Regulatory Agency
State / Location
FL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): HCL	Unpreserved	H2SO4	HNO3	Unpreserved	Residual Chlorine (Y/N)	
	Analyses Test																	VOC by 8260	EDB and DBCP EPA 8011	NH3	metals by 6010/6020/7470 Fe,Hg,Na,Mn	TDS NO3 Cl SO4		
1	MW-1R (20585)	WT		10/3/18	0948													3	2	1	1	1		
2	MW-8A (21453)	WT		10/3/18	1100													3	2	1	1	1		
3	MW-9 (4509)	WT		10/3/18	1222													3	2	1	1	1		
4	~~MW-10R (4510)~~ AE	WT																3	2	1	1	1		
5	~~MW-15 (23031)~~ AE	WT																3	2	1	1	1		
6	~~MW-16 (23032)~~ AE	WT																3	2	1	1	1		
7	~~MW-17 (23033)~~ AE	WT																3	2	1	1	1		
8	~~MW-18R (29095)~~ AE	WT																3	2	1	1	1		
9	~~MW-19A(27140)~~ AE	WT																3	2	1	1	1		
10	~~MW-20A (27141)~~ AE	WT																3	2	1	1	1		
11	~~field blank~~ AE	WT																3	2	1	1	1		
12	~~dup #1~~ AE	WT																3	2	1	1	1		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Please use ADAPT, analyze all compounds on App 1

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Central county Monitoring wells Adapt Bottles Rcvd 9/20	Alison Eggleston	10/3/18	1345	Pace	10-3-18	1442	T23			
	Pace	10-3-18	1750	Pace	10/3/18	1750	4.8	Y	N	Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Alison Eggleston
SIGNATURE of SAMPLER:	DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company:	Sarasota County
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Section B
Required Project Information:

Report To:	Mr. Cesar Rodriguez
Copy To:	
Purchase Order #:	180736
Project Name:	Central Cty MW wells Appdx 1
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	martha.montero@pacelabs.com,
Pace Profile #:	833 #1

Regulatory Agency	
State / Location	
	FL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260 (HCL)	EDB and DBCP EPA 8011 (Unpreserved)	NH3 (H2SO4)	metals by 6010/6020/7470 Fe,Hg,Na,Mn (HNO3)	TDS NO3 Cl SO4 (Unpreserved)	Residual Chlorine (Y/N)	
13	~~MW-3 4503~~ QE	WT																	3	2	1	1	1		
14	~~MW-5 4505~~ QE	WT																	3	2	1	1	1		
15	Trip Blank 8260 #1	WT		10/3/18															2						
16	~~Trip Blank 8260 #2~~ QE	WT																	2						
17	~~Trip Blank 8260 #3~~ QE	WT																	2						
18	~~Trip Blank 8260 #4~~ QE	WT																	2						
19	Trip Blank 8011 #1	WT		10/3/18																2					
20	~~Trip Blank 8011 #2~~ QE	WT																		2					
21	~~Trip Blank 8011 #3~~ QE	WT																		2					
22	~~Trip Blank 8011 $3~~ QE	WT																		2					
23		WT																							
24		WT																							

Please use ADAPT, analyze all compounds on App 1

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Central county Monitoring wells Adapt	Alison Eggleston	10/3/18	1345	Pace	10-3-18	1442	T2.3
	Pace	10-3-18	1750	Pace	10/3/18	1750	4.5 Y N Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Alison Eggleston
SIGNATURE of SAMPLER:	DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35421718

Project Manager: PM: MIM **Due Date:** 10/17/18

Client: CLIENT: SARCOU

Date and Initials of person:
Examining contents: mrl
Label: 10/3/18
Deliver:
pH:

Thermometer Used: T-203 Date: 10/3/18 Time: 1750 Initials: mrl

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	4.8 (Visual)	0.0 (Correction Factor)	4.8 (Actual)	☒ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ 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:
Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☒ Yes ☐ No ☐ N/A	
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	1 of 2 have headspace

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

October 23, 2018

REVIEWED
By Cesar Rodriguez-Palacios at 2:52 pm, Dec 05, 2018

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

RE: Project: Central Cty MW
Pace Project No.: 35422648

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Central Cty MW
Pace Project No.: 35422648

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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SAMPLE SUMMARY

Project: Central Cty MW
Pace Project No.: 35422648

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35422648001	**MW-10R(4510)**	Water	10/08/18 12:55	10/08/18 18:16
35422648002	**MW-15(23031)**	Water	10/08/18 10:35	10/08/18 18:16
35422648003	**Trip Blank 8260 #4**	Water	10/08/18 10:35	10/08/18 18:16
35422648004	**Trip Blank 8011 #4**	Water	10/08/18 10:35	10/08/18 18:16
35422648005	**EQ Blank**	Water	10/08/18 13:35	10/08/18 18:16
35422648006	**Dup #2**	Water	10/08/18 10:35	10/08/18 18:16

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SAMPLE ANALYTE COUNT

Project: Central Cty MW
Pace Project No.: 35422648

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35422648001	**MW-10R(4510)**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	15	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35422648002	**MW-15(23031)**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	15	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35422648003	**Trip Blank 8260 #4**	EPA 8260	SK1	48	PASI-O
35422648004	**Trip Blank 8011 #4**	EPA 8011	SMH	2	PASI-O
35422648005	**EQ Blank**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	15	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35422648006	**Dup #2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	15	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	2	PASI-O
		EPA 350.1	CLL	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: Central Cty MW
Pace Project No.: 35422648

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	JWH	1	PASI-O

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: MW-10R(4510) **Lab ID: 35422648001** Collected: 10/08/18 12:55 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.37**	Std. Units			1		10/08/18 12:55		
Field Temperature	**30.25**	deg C			1		10/08/18 12:55		
Field Specific Conductance	**1642**	umhos/cm			1		10/08/18 12:55		
Oxygen, Dissolved	**0.08**	mg/L			1		10/08/18 12:55	7782-44-7	
Turbidity	**0.66**	NTU			1		10/08/18 12:55		
Water Level(NGVD)	**20.18**	feet			1		10/08/18 12:55		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	10/10/18 14:45	10/11/18 01:14	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	10/10/18 14:45	10/11/18 01:14	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**76.0**	ug/L	10.0	0.84	1	10/13/18 04:05	10/15/18 18:16	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/13/18 04:05	10/15/18 18:16	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/13/18 04:05	10/15/18 18:16	7440-43-9	
Chromium	**6.1**	ug/L	5.0	1.7	1	10/13/18 04:05	10/15/18 18:16	7440-47-3	
Cobalt	**1.7 I**	ug/L	10.0	0.96	1	10/13/18 04:05	10/15/18 18:16	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/13/18 04:05	10/15/18 18:16	7440-50-8	
Iron	**61500**	ug/L	400	92.0	10	10/13/18 04:05	10/16/18 18:04	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/13/18 04:05	10/15/18 18:16	7439-92-1	
Manganese	**29.9**	ug/L	5.0	0.42	1	10/13/18 04:05	10/15/18 18:16	7439-96-5	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	10/13/18 04:05	10/15/18 18:16	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/13/18 04:05	10/15/18 18:16	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/13/18 04:05	10/15/18 18:16	7440-22-4	
Sodium	**78.2**	mg/L	2.0	0.27	1	10/13/18 04:05	10/15/18 18:16	7440-23-5	
Vanadium	**3.7 I**	ug/L	10.0	1.0	1	10/13/18 04:05	10/15/18 18:16	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/13/18 04:05	10/15/18 18:16	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 15:55	7440-36-0	
Arsenic	**14.3**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 15:55	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 15:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/22/18 15:50	10/23/18 14:05	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/18/18 12:34	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:34	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/18/18 12:34	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/18/18 12:34	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/18/18 12:34	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:34	78-93-3	

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8 East Tower Circle
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(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: MW-10R(4510) **Lab ID: 35422648001** Collected: 10/08/18 12:55 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:34	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/18/18 12:34	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/18/18 12:34	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/18/18 12:34	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/18/18 12:34	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/18/18 12:34	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:34	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/18/18 12:34	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/18/18 12:34	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:34	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/18/18 12:34	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/18/18 12:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:34	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/18/18 12:34	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/18/18 12:34	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/18/18 12:34	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:34	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/18/18 12:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/18/18 12:34	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/18/18 12:34	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/18/18 12:34	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**828**	mg/L	10.0	10.0	1		10/11/18 14:24		

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: MW-10R(4510) **Lab ID: 35422648001** Collected: 10/08/18 12:55 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**90.2**	mg/L	25.0	12.5	5		10/17/18 22:55	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/18/18 18:50	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**7.8**	mg/L	0.050	0.035	1		10/09/18 10:34	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.11**	mg/L	0.050	0.025	1		10/09/18 09:01	14797-55-8	

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: MW-15(23031) **Lab ID: 35422648002** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.81**	Std. Units			1		10/08/18 10:35		
Field Temperature	**29.14**	deg C			1		10/08/18 10:35		
Field Specific Conductance	**3435**	umhos/cm			1		10/08/18 10:35		
Oxygen, Dissolved	**0.34**	mg/L			1		10/08/18 10:35	7782-44-7	
Turbidity	**8.26**	NTU			1		10/08/18 10:35		
Water Level(NGVD)	**20.81**	feet			1		10/08/18 10:35		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/10/18 14:45	10/11/18 01:43	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0097	0.0072	1	10/10/18 14:45	10/11/18 01:43	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**376**	ug/L	10.0	0.84	1	10/13/18 04:05	10/15/18 18:19	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/13/18 04:05	10/15/18 18:19	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/13/18 04:05	10/15/18 18:19	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/13/18 04:05	10/15/18 18:19	7440-47-3	
Cobalt	**3.8 I**	ug/L	10.0	0.96	1	10/13/18 04:05	10/15/18 18:19	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/13/18 04:05	10/15/18 18:19	7440-50-8	
Iron	**69200**	ug/L	400	92.0	10	10/13/18 04:05	10/16/18 18:06	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/13/18 04:05	10/15/18 18:19	7439-92-1	
Manganese	**646**	ug/L	5.0	0.42	1	10/13/18 04:05	10/15/18 18:19	7439-96-5	
Nickel	**5.2**	ug/L	5.0	2.1	1	10/13/18 04:05	10/15/18 18:19	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/13/18 04:05	10/15/18 18:19	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/13/18 04:05	10/15/18 18:19	7440-22-4	
Sodium	**66.6**	mg/L	2.0	0.27	1	10/13/18 04:05	10/15/18 18:19	7440-23-5	
Vanadium	**6.5 I**	ug/L	10.0	1.0	1	10/13/18 04:05	10/15/18 18:19	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/13/18 04:05	10/15/18 18:19	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 15:57	7440-36-0	
Arsenic	**73.1**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 15:57	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 15:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/22/18 15:50	10/23/18 14:16	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/18/18 12:58	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:58	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/18/18 12:58	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/18/18 12:58	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/18/18 12:58	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:58	78-93-3	

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8 East Tower Circle
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(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: MW-15(23031) **Lab ID: 35422648002** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:58	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/18/18 12:58	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/18/18 12:58	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/18/18 12:58	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/18/18 12:58	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/18/18 12:58	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:58	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/18/18 12:58	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/18/18 12:58	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:58	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/18/18 12:58	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/18/18 12:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:58	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/18/18 12:58	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/18/18 12:58	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/18/18 12:58	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:58	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/18/18 12:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/18/18 12:58	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/18/18 12:58	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/18/18 12:58	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**2160**	mg/L	20.0	20.0	1		10/11/18 14:24		

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: MW-15(23031) **Lab ID: 35422648002** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**146**	mg/L	100	50.0	20		10/17/18 23:18	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/19/18 08:53	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**29.7**	mg/L	0.75	0.52	15		10/10/18 08:37	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.082**	mg/L	0.050	0.025	1		10/09/18 08:39	14797-55-8	

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: Trip Blank 8260 #4 **Lab ID: 35422648003** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/18/18 11:46	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 11:46	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/18/18 11:46	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/18/18 11:46	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/18/18 11:46	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 11:46	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 11:46	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/18/18 11:46	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/18/18 11:46	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/18/18 11:46	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/18/18 11:46	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/18/18 11:46	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 11:46	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/18/18 11:46	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/18/18 11:46	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 11:46	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/18/18 11:46	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/18/18 11:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 11:46	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/18/18 11:46	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/18/18 11:46	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/18/18 11:46	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 11:46	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/18/18 11:46	1330-20-7	

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: Trip Blank 8260 #4 **Lab ID: 35422648003** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/18/18 11:46	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/18/18 11:46	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/18/18 11:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: Trip Blank 8011 #4 **Lab ID: 35422648004** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	10/10/18 14:45	10/11/18 01:58	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0095	0.0072	1	10/10/18 14:45	10/11/18 01:58	106-93-4	

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: EQ Blank **Lab ID: 35422648005** Collected: 10/08/18 13:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/10/18 14:45	10/11/18 02:13	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	10/10/18 14:45	10/11/18 02:13	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**0.84 U**	ug/L	10.0	0.84	1	10/13/18 04:05	10/15/18 18:22	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/13/18 04:05	10/15/18 18:22	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/13/18 04:05	10/15/18 18:22	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/13/18 04:05	10/15/18 18:22	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	10/13/18 04:05	10/15/18 18:22	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/13/18 04:05	10/15/18 18:22	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	10/13/18 04:05	10/15/18 18:22	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/13/18 04:05	10/15/18 18:22	7439-92-1	
Manganese	**0.42 U**	ug/L	5.0	0.42	1	10/13/18 04:05	10/15/18 18:22	7439-96-5	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	10/13/18 04:05	10/15/18 18:22	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/13/18 04:05	10/15/18 18:22	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/13/18 04:05	10/15/18 18:22	7440-22-4	
Sodium	**0.27 U**	mg/L	2.0	0.27	1	10/13/18 04:05	10/15/18 18:22	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	10/13/18 04:05	10/15/18 18:22	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/13/18 04:05	10/15/18 18:22	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 15:58	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 15:58	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 15:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/22/18 15:50	10/23/18 14:20	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**13.3 I**	ug/L	20.0	10.0	1		10/18/18 12:10	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:10	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/18/18 12:10	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/18/18 12:10	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/18/18 12:10	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:10	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:10	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/18/18 12:10	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/18/18 12:10	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/18/18 12:10	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/18/18 12:10	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/18/18 12:10	74-95-3	

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: EQ Blank **Lab ID: 35422648005** Collected: 10/08/18 13:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:10	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/18/18 12:10	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/18/18 12:10	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:10	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/18/18 12:10	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/18/18 12:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 12:10	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/18/18 12:10	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/18/18 12:10	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/18/18 12:10	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 12:10	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/18/18 12:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/18/18 12:10	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/18/18 12:10	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/18/18 12:10	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		10/11/18 14:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5 U**	mg/L	5.0	2.5	1		10/17/18 23:41	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/17/18 23:41	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		10/09/18 10:40	7664-41-7	

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: EQ Blank **Lab ID: 35422648005** Collected: 10/08/18 13:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		10/09/18 09:02	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: Dup #2 **Lab ID: 35422648006** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.81**	Std. Units			1		10/08/18 10:35		
Field Temperature	**29.14**	deg C			1		10/08/18 10:35		
Field Specific Conductance	**3435**	umhos/cm			1		10/08/18 10:35		
Oxygen, Dissolved	**0.34**	mg/L			1		10/08/18 10:35	7782-44-7	
Turbidity	**8.26**	NTU			1		10/08/18 10:35		
Water Level(NGVD)	**20.81**	feet			1		10/08/18 10:35		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/10/18 14:45	10/11/18 02:28	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	10/10/18 14:45	10/11/18 02:28	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**379**	ug/L	10.0	0.84	1	10/13/18 04:05	10/15/18 18:25	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/13/18 04:05	10/15/18 18:25	7440-41-7	
Cadmium	**0.55 I**	ug/L	1.0	0.33	1	10/13/18 04:05	10/15/18 18:25	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/13/18 04:05	10/15/18 18:25	7440-47-3	
Cobalt	**3.7 I**	ug/L	10.0	0.96	1	10/13/18 04:05	10/15/18 18:25	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/13/18 04:05	10/15/18 18:25	7440-50-8	
Iron	**69100**	ug/L	400	92.0	10	10/13/18 04:05	10/16/18 18:09	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/13/18 04:05	10/15/18 18:25	7439-92-1	
Manganese	**650**	ug/L	5.0	0.42	1	10/13/18 04:05	10/15/18 18:25	7439-96-5	
Nickel	**5.2**	ug/L	5.0	2.1	1	10/13/18 04:05	10/15/18 18:25	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/13/18 04:05	10/15/18 18:25	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/13/18 04:05	10/15/18 18:25	7440-22-4	
Sodium	**67.2**	mg/L	2.0	0.27	1	10/13/18 04:05	10/15/18 18:25	7440-23-5	
Vanadium	**6.8 I**	ug/L	10.0	1.0	1	10/13/18 04:05	10/15/18 18:25	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/13/18 04:05	10/15/18 18:25	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 14:34	7440-36-0	
Arsenic	**74.2**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 14:34	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/13/18 04:06	10/13/18 14:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/22/18 15:50	10/23/18 14:23	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/18/18 13:22	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 13:22	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/18/18 13:22	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/18/18 13:22	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/18/18 13:22	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 13:22	78-93-3	

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: Dup #2 **Lab ID: 35422648006** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 13:22	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/18/18 13:22	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/18/18 13:22	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/18/18 13:22	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/18/18 13:22	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/18/18 13:22	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 13:22	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/18/18 13:22	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/18/18 13:22	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 13:22	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/18/18 13:22	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/18/18 13:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/18/18 13:22	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/18/18 13:22	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/18/18 13:22	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/18/18 13:22	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/18/18 13:22	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/18/18 13:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/18/18 13:22	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/18/18 13:22	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/18/18 13:22	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**2190**	mg/L	20.0	20.0	1		10/11/18 14:26		

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ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

Sample: Dup #2 **Lab ID: 35422648006** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**144**	mg/L	100	50.0	20		10/18/18 00:52	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/19/18 09:16	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**6.0**	mg/L	0.050	0.035	1		10/10/18 08:58	7664-41-7	J(M1)
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.074**	mg/L	0.050	0.025	1		10/09/18 08:41	14797-55-8	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 487348 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

METHOD BLANK: 2636863 | Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	10/23/18 14:01	

LABORATORY CONTROL SAMPLE: 2636864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.2	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2636865 2636866

Parameter	Units	35422648001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.9	1.8	96	91	75-125	5	20	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 485334 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

METHOD BLANK: 2626111 | Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	10/15/18 17:30	
Beryllium	ug/L	1.6 U	4.0	1.6	10/15/18 17:30	
Cadmium	ug/L	0.33 U	1.0	0.33	10/15/18 17:30	
Chromium	ug/L	1.7 U	5.0	1.7	10/15/18 17:30	
Cobalt	ug/L	0.96 U	10.0	0.96	10/15/18 17:30	
Copper	ug/L	2.6 U	5.0	2.6	10/15/18 17:30	
Iron	ug/L	9.2 U	40.0	9.2	10/15/18 17:30	
Lead	ug/L	4.6 U	10.0	4.6	10/15/18 17:30	
Manganese	ug/L	0.42 U	5.0	0.42	10/15/18 17:30	
Nickel	ug/L	2.1 U	5.0	2.1	10/15/18 17:30	
Selenium	ug/L	8.5 U	15.0	8.5	10/15/18 17:30	
Silver	ug/L	1.0 U	5.0	1.0	10/15/18 17:30	
Sodium	mg/L	0.27 U	2.0	0.27	10/15/18 17:30	
Vanadium	ug/L	1.0 U	10.0	1.0	10/15/18 17:30	
Zinc	ug/L	11.0 U	20.0	11.0	10/15/18 17:30	

LABORATORY CONTROL SAMPLE: 2626112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	252	101	80-120	
Beryllium	ug/L	25	23.9	96	80-120	
Cadmium	ug/L	25	25.6	102	80-120	
Chromium	ug/L	250	249	100	80-120	
Cobalt	ug/L	250	251	100	80-120	
Copper	ug/L	250	238	95	80-120	
Iron	ug/L	2500	2530	101	80-120	
Lead	ug/L	250	253	101	80-120	
Manganese	ug/L	250	253	101	80-120	
Nickel	ug/L	250	254	101	80-120	
Selenium	ug/L	250	251	100	80-120	
Silver	ug/L	25	24.3	97	80-120	
Sodium	mg/L	12.5	12.3	99	80-120	
Vanadium	ug/L	250	246	99	80-120	
Zinc	ug/L	1250	1290	103	80-120	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626113 2626114

Parameter	Units	35422206001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	4.9 I	250	250	257	255	101	100	75-125	1	20	
Beryllium	ug/L	1.6 U	25	25	24.4	24.1	98	96	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	25.5	25.2	101	100	75-125	1	20	
Chromium	ug/L	1.7 U	250	250	250	247	100	99	75-125	1	20	
Cobalt	ug/L	0.96 U	250	250	250	248	100	99	75-125	1	20	
Copper	ug/L	2.6 U	250	250	240	237	96	95	75-125	1	20	
Iron	ug/L	9.2 U	2500	2500	2550	2540	102	101	75-125	1	20	
Lead	ug/L	4.6 U	250	250	252	250	101	100	75-125	1	20	
Manganese	ug/L	32.8	250	250	286	282	101	100	75-125	1	20	
Nickel	ug/L	2.1 U	250	250	253	248	101	99	75-125	2	20	
Selenium	ug/L	8.5 U	250	250	249	246	99	98	75-125	1	20	
Silver	ug/L	1.0 U	25	25	24.6	24.6	98	98	75-125	0	20	
Sodium	mg/L	5.5	12.5	12.5	18.2	18.0	101	100	75-125	1	20	
Vanadium	ug/L	3.0 I	250	250	254	251	100	99	75-125	1	20	
Zinc	ug/L	11.0 U	1250	1250	1270	1260	101	100	75-125	1	20	

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8 East Tower Circle
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(386)672-5668

QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 485333 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

METHOD BLANK: 2626107 | Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	10/13/18 12:29	
Arsenic	ug/L	0.50 U	1.0	0.50	10/13/18 12:29	
Thallium	ug/L	0.50 U	1.0	0.50	10/13/18 12:29	

LABORATORY CONTROL SAMPLE: 2626108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	46.6	93	80-120	
Arsenic	ug/L	50	49.1	98	80-120	
Thallium	ug/L	50	50.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626109 2626110

Parameter	Units	35422206002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	45.0	45.0	90	90	75-125	0	20	
Arsenic	ug/L	4.9	50	50	53.1	52.5	96	95	75-125	1	20	
Thallium	ug/L	0.50 U	50	50	48.5	48.8	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 486583 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35422648001, 35422648002, 35422648003, 35422648005, 35422648006

METHOD BLANK: 2632575 | Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648003, 35422648005, 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	10/18/18 11:22	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	10/18/18 11:22	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	10/18/18 11:22	
2-Hexanone	ug/L	5.0 U	10.0	5.0	10/18/18 11:22	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	10/18/18 11:22	
Acetone	ug/L	10.0 U	20.0	10.0	10/18/18 11:22	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	10/18/18 11:22	
Benzene	ug/L	0.10 U	1.0	0.10	10/18/18 11:22	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	10/18/18 11:22	
Bromoform	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
Bromomethane	ug/L	0.50 U	5.0	0.50	10/18/18 11:22	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	10/18/18 11:22	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	10/18/18 11:22	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
Chloroethane	ug/L	0.50 U	10.0	0.50	10/18/18 11:22	
Chloroform	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
Chloromethane	ug/L	0.62 U	1.0	0.62	10/18/18 11:22	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/18/18 11:22	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	10/18/18 11:22	
Dibromomethane	ug/L	0.50 U	2.0	0.50	10/18/18 11:22	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
Iodomethane	ug/L	0.50 U	10.0	0.50	10/18/18 11:22	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	10/18/18 11:22	
Styrene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
Toluene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/18/18 11:22	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	10/18/18 11:22	
Trichloroethene	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

METHOD BLANK: 2632575 Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648003, 35422648005, 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	10/18/18 11:22	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	10/18/18 11:22	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	10/18/18 11:22	
1,2-Dichloroethane-d4 (S)	%	93	70-130		10/18/18 11:22	
4-Bromofluorobenzene (S)	%	102	70-130		10/18/18 11:22	
Toluene-d8 (S)	%	104	70-130		10/18/18 11:22	

LABORATORY CONTROL SAMPLE: 2632576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,1-Trichloroethane	ug/L	20	17.8	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	68-125	
1,1,2-Trichloroethane	ug/L	20	21.5	108	70-130	
1,1-Dichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethene	ug/L	20	19.6	98	66-133	
1,2,3-Trichloropropane	ug/L	20	22.0	110	62-127	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	18.6	93	70-130	
1,2-Dichloropropane	ug/L	20	19.6	98	70-130	
1,4-Dichlorobenzene	ug/L	20	19.9	100	70-130	
2-Butanone (MEK)	ug/L	40	41.6	104	47-143	
2-Hexanone	ug/L	40	45.9	115	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	43.4	109	57-132	
Acetone	ug/L	40	43.9	110	46-148	
Acrylonitrile	ug/L	200	221	110	60-143	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	19.2	96	70-130	
Bromodichloromethane	ug/L	20	18.9	94	70-130	
Bromoform	ug/L	20	17.6	88	49-126	
Bromomethane	ug/L	20	17.4	87	10-165	
Carbon disulfide	ug/L	20	21.5	108	60-141	
Carbon tetrachloride	ug/L	20	18.1	91	63-126	
Chlorobenzene	ug/L	20	20.4	102	70-130	
Chloroethane	ug/L	20	30.7	153	71-142	J(L1)
Chloroform	ug/L	20	18.2	91	70-130	
Chloromethane	ug/L	20	14.7	73	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
Dibromochloromethane	ug/L	20	16.9	84	62-118	
Dibromomethane	ug/L	20	20.6	103	70-130	
Ethylbenzene	ug/L	20	19.6	98	70-130	
Iodomethane	ug/L	40	33.7	84	10-164	

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(386)672-5668

QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

LABORATORY CONTROL SAMPLE: 2632576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	20.2	101	65-136	
Styrene	ug/L	20	20.9	105	70-130	
Tetrachloroethene	ug/L	20	20.6	103	64-134	
Toluene	ug/L	20	20.2	101	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.6	88	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.8	89	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	18.9	94	42-129	
Trichloroethene	ug/L	20	20.0	100	70-130	
Trichlorofluoromethane	ug/L	20	20.1	101	65-135	
Vinyl acetate	ug/L	20	22.4	112	60-144	
Vinyl chloride	ug/L	20	21.5	108	68-131	
Xylene (Total)	ug/L	60	60.5	101	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 2635334

Parameter	Units	35424362003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	18.5	92	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.8	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	21.5	107	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.1	86	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.2	86	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	20.8	104	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.6	93	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.3	91	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	19.4	97	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	19.3	97	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	36.2	91	47-143	
2-Hexanone	ug/L	5.0 U	40	37.9	95	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	37.9	95	57-132	
Acetone	ug/L	10.0 U	40	29.5	74	46-148	
Acrylonitrile	ug/L	5.0 U	200	167	84	60-143	
Benzene	ug/L	0.10 U	20	19.7	98	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.6	93	70-130	
Bromodichloromethane	ug/L	0.27 U	20	18.6	93	70-130	
Bromoform	ug/L	0.50 U	20	16.4	82	49-126	
Bromomethane	ug/L	0.50 U	20	11.1	56	10-165	
Carbon disulfide	ug/L	5.0 U	20	17.4	87	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	18.9	95	63-126	
Chlorobenzene	ug/L	0.50 U	20	19.4	97	70-130	
Chloroethane	ug/L	0.50 U	20	24.8	124	71-142	
Chloroform	ug/L	0.50 U	20	18.6	93	70-130	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

MATRIX SPIKE SAMPLE: 2635334

Parameter	Units	35424362003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	13.2	66	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	18.5	93	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	16.0	80	70-130	
Dibromochloromethane	ug/L	0.26 U	20	16.0	80	62-118	
Dibromomethane	ug/L	0.50 U	20	18.3	92	70-130	
Ethylbenzene	ug/L	0.50 U	20	19.4	97	70-130	
Iodomethane	ug/L	0.50 U	40	17.4	43	10-164	
Methylene Chloride	ug/L	2.5 U	20	15.5	77	65-136	
Styrene	ug/L	0.50 U	20	18.7	93	70-130	
Tetrachloroethene	ug/L	0.50 U	20	18.7	94	64-134	
Toluene	ug/L	0.50 U	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	15.1	76	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	17.3	87	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	14.8	74	42-129	
Trichloroethene	ug/L	0.50 U	20	19.0	95	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	19.3	97	65-135	
Vinyl acetate	ug/L	1.0 U	20	17.7	89	60-144	
Vinyl chloride	ug/L	0.50 U	20	19.9	100	68-131	
Xylene (Total)	ug/L	1.5 U	60	59.4	99	70-130	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 2635333

Parameter	Units	35424362002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

SAMPLE DUPLICATE: 2635333

Parameter	Units	35424362002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.536 I	0.55 I		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	95	93	3	40	
4-Bromofluorobenzene (S)	%	97	95	2	40	
Toluene-d8 (S)	%	103	101	2	40	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 484325 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35422648001, 35422648002, 35422648004, 35422648005, 35422648006

METHOD BLANK: 2620386 | Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648004, 35422648005, 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	10/10/18 23:00	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	10/10/18 23:00	

LABORATORY CONTROL SAMPLE: 2620387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.27	109	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.27	109	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2620471 2620472

Parameter	Units	35422733002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L		.44	.44	0.48	0.46	109	105	60-140	4	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.49	0.48	111	110	60-140	1	40	

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REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 484721 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

METHOD BLANK: 2622442 | Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	10/11/18 14:15	

LABORATORY CONTROL SAMPLE: 2622443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	295	98	90-110	

SAMPLE DUPLICATE: 2622444

Parameter	Units	35421419013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	920	930	1	5	

SAMPLE DUPLICATE: 2622445

Parameter	Units	35422660005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	970	976	1	5	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 486114 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

METHOD BLANK: 2630284 | Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	10/17/18 15:30	
Sulfate	mg/L	2.5 U	5.0	2.5	10/17/18 15:30	

LABORATORY CONTROL SAMPLE: 2630285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2630604 2630605

Parameter	Units	35424145005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	54.0	50	50	111	110	113	113	90-110	0	20	J(M1), L
Sulfate	mg/L	22.2	50	50	76.2	75.7	108	107	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2630606 2630607

Parameter	Units	35422648005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.5 U	50	50	49.8	50.2	96	97	90-110	1	20	
Sulfate	mg/L	2.5 U	50	50	49.4	49.7	99	99	90-110	1	20	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 486528 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35422648001, 35422648002, 35422648006

METHOD BLANK: 2632448 | Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfate	mg/L	2.5 U	5.0	2.5	10/18/18 13:45	

LABORATORY CONTROL SAMPLE: 2632449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	50	48.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2632450 2632451

Parameter	Units	35422823001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	142	100	100	254	258	112	116	90-110	2	20	J(M1), L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2632452 2632453

Parameter	Units	35424147006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	168	250	250	437	438	107	108	90-110	0	20	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 483936 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35422648001, 35422648005

METHOD BLANK: 2618599 | Matrix: Water
Associated Lab Samples: 35422648001, 35422648005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	10/09/18 10:20	

LABORATORY CONTROL SAMPLE: 2618600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	105	90-110	

MATRIX SPIKE SAMPLE: 2618602

Parameter	Units	35422669001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	6.0	1	6.9	91	90-110	

SAMPLE DUPLICATE: 2618601

Parameter	Units	35422669001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	6.0	6.0	1	20	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 484297 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35422648006

METHOD BLANK: 2620267 | Matrix: Water
Associated Lab Samples: 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	10/10/18 08:54	

LABORATORY CONTROL SAMPLE: 2620268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 2620270

Parameter	Units	35422648006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	6.0	1	6.9	87	90-110	J(M1)

SAMPLE DUPLICATE: 2620269

Parameter	Units	35422648006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	6.0	6.0	0	20	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 484300
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35422648002

METHOD BLANK: 2620275
Matrix: Water
Associated Lab Samples: 35422648002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	10/10/18 08:00	

LABORATORY CONTROL SAMPLE: 2620276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	99	90-110	

MATRIX SPIKE SAMPLE: 2620278

Parameter	Units	35422973001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.059	1	1.1	99	90-110	

SAMPLE DUPLICATE: 2620277

Parameter	Units	35422973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.059	0.058	2	20	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 483945
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35422648002, 35422648006

METHOD BLANK: 2618623
Matrix: Water
Associated Lab Samples: 35422648002, 35422648006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	10/09/18 08:02	

SAMPLE DUPLICATE: 2618625

Parameter	Units	7595891001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.63	0.60	5	20	

SAMPLE DUPLICATE: 2618627

Parameter	Units	35422660004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.074	0.077	5	20	

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QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 483946 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35422648001, 35422648005

METHOD BLANK: 2618629 | Matrix: Water
Associated Lab Samples: 35422648001, 35422648005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	10/09/18 08:48	

SAMPLE DUPLICATE: 2618631

Parameter	Units	35422597001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.041 I	0.045 I		20	

SAMPLE DUPLICATE: 2618633

Parameter	Units	35422660005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Central Cty MW
Pace Project No.: 35422648

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach
PASI-Tp	Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty MW
Pace Project No.: 35422648

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35422648001	**MW-10R(4510)**				
35422648002	**MW-15(23031)**				
35422648006	**Dup #2**				
35422648001	**MW-10R(4510)**	EPA 8011	484325	EPA 8011	484568
35422648002	**MW-15(23031)**	EPA 8011	484325	EPA 8011	484568
35422648004	**Trip Blank 8011 #4**	EPA 8011	484325	EPA 8011	484568
35422648005	**EQ Blank**	EPA 8011	484325	EPA 8011	484568
35422648006	**Dup #2**	EPA 8011	484325	EPA 8011	484568
35422648001	**MW-10R(4510)**	EPA 3010	485334	EPA 6010	485337
35422648002	**MW-15(23031)**	EPA 3010	485334	EPA 6010	485337
35422648005	**EQ Blank**	EPA 3010	485334	EPA 6010	485337
35422648006	**Dup #2**	EPA 3010	485334	EPA 6010	485337
35422648001	**MW-10R(4510)**	EPA 3010	485333	EPA 6020	485336
35422648002	**MW-15(23031)**	EPA 3010	485333	EPA 6020	485336
35422648005	**EQ Blank**	EPA 3010	485333	EPA 6020	485336
35422648006	**Dup #2**	EPA 3010	485333	EPA 6020	485336
35422648001	**MW-10R(4510)**	EPA 7470	487348	EPA 7470	487496
35422648002	**MW-15(23031)**	EPA 7470	487348	EPA 7470	487496
35422648005	**EQ Blank**	EPA 7470	487348	EPA 7470	487496
35422648006	**Dup #2**	EPA 7470	487348	EPA 7470	487496
35422648001	**MW-10R(4510)**	EPA 8260	486583		
35422648002	**MW-15(23031)**	EPA 8260	486583		
35422648003	**Trip Blank 8260 #4**	EPA 8260	486583		
35422648005	**EQ Blank**	EPA 8260	486583		
35422648006	**Dup #2**	EPA 8260	486583		
35422648001	**MW-10R(4510)**	SM 2540C	484721		
35422648002	**MW-15(23031)**	SM 2540C	484721		
35422648005	**EQ Blank**	SM 2540C	484721		
35422648006	**Dup #2**	SM 2540C	484721		
35422648001	**MW-10R(4510)**	EPA 300.0	486114		
35422648001	**MW-10R(4510)**	EPA 300.0	486528		
35422648002	**MW-15(23031)**	EPA 300.0	486114		
35422648002	**MW-15(23031)**	EPA 300.0	486528		
35422648005	**EQ Blank**	EPA 300.0	486114		
35422648006	**Dup #2**	EPA 300.0	486114		
35422648006	**Dup #2**	EPA 300.0	486528		
35422648001	**MW-10R(4510)**	EPA 350.1	483936		
35422648002	**MW-15(23031)**	EPA 350.1	484300		
35422648005	**EQ Blank**	EPA 350.1	483936		
35422648006	**Dup #2**	EPA 350.1	484297		

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(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty MW
Pace Project No.: 35422648

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35422648001	**MW-10R(4510)**	EPA 353.2	483946		
35422648002	**MW-15(23031)**	EPA 353.2	483945		
35422648005	**EQ Blank**	EPA 353.2	483946		
35422648006	**Dup #2**	EPA 353.2	483945		

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CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

WO# : 35422648

35422648

Section A
Required Client Information:

Company:	Sarasota County
Address:	1255 T. Mabry Carlton Parkway
	Venice, FL 34292
Email:	
Phone: 941-650-9834	Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Mr. Cesar Rodriguez
Copy To:	
Purchase Order #:	180736
Project Name:	Central Cty MW wells Appdx 1
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	martha.montero@pacelabs.com,
Pace Profile #:	833 #1

Regulatory Agency	
State / Location	
	FL

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOC by 8260 (HCL)	EDB and DBCP EPA 8011 (Unpreserved)	NH3 (H2SO4)	metals by 6010/6020/7470 Fe,Hg,Na,Mn (HNO3)	TDS NO3 Cl SO4 (Unpreserved)	Residual Chlorine (Y/N)	
1	~~MW-1R (20585)~~ QE	WT																	3	2	1	1	1			Please use ADAPT, analyze all compounds on App 1
2	~~MW-8A (21453)~~ QE	WT																	3	2	1	1	1			
3	~~MW-9 (4509)~~ QE	WT																	3	2	1	1	1			
4	MW-10R (4510)	WT		10/8/18	1255														3	2	1	1	1			
5	MW-15 (23031)	WT		10/8/18	1035														3	2	1	1	1			
6	~~MW-16 (23032)~~ QE	WT																	3	2	1	1	1			
7	~~MW-17 (23033)~~ QE	WT																	3	2	1	1	1			
8	~~MW-18R (29095)~~ QE	WT																	3	2	1	1	1			
9	~~MW-19A(27140)~~ QE	WT																	3	2	1	1	1			
10	~~MW-20A (27141)~~ QE	WT																	3	2	1	1	1			
11	EQ ~~field~~ blank SUB	WT		10/8/18	1335														3	2	1	1	1			
12	dup ~~#1~~ #2	WT		10/8/18	1035														3	2	1	1	1			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Central county Monitoring wells Adapt	Alison Eggleston	10/8/18	1432	Pace	10-8-18	1432	1.3			
	Pace	10-8-18	1816	Pace	10/8/18	1816	1.3	Y	N	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Alison Eggleston				
SIGNATURE of SAMPLER:	DATE Signed:				

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Sarasota County	Report To:	Mr. Cesar Rodriguez	Attention:	
Address:	1255 T. Mabry Carlton Parkway	Copy To:		Company Name:	
Venice, FL 34292				Address:	
Email:		Purchase Order #:	180736	Pace Quote:	
Phone: 941-650-9834	Fax:	Project Name:	Central Cty MW wells Appdx 1	Pace Project Manager:	martha.montero@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	833 #1

Regulatory Agency	
State / Location	
FL	

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260 (HCL)	EDB and DBCP EPA 8011 (Unpreserved)	NH3 (H2SO4)	metals by 6010/6020/7470 Fe,Hg,Na,Mn (HNO3)	TDS NO3 Cl SO4 (Unpreserved)	Residual Chlorine (Y/N)	
13	~~MW-3 4503~~ OF	WT																	3	2	1	1	1			Please use ADAPT, analyze all compounds on App 1
14	~~MW-5 4505~~ OF	WT																	3	2	1	1	1			
15	~~Trip Blank 8260 #1~~ OF	WT																	2							
16	~~Trip Blank 8260 #2~~ OF	WT																	2							
17	~~Trip Blank 8260 #3~~ OF	WT																	2							
18	Trip Blank 8260 #4	WT		10/8/18															2							
19	~~Trip Blank 8011 #1~~ OF	WT																		2						
20	~~Trip Blank 8011 #2~~ OF	WT																		2						
21	~~Trip Blank 8011 #3~~ OF	WT																		2						
22	Trip Blank 8011 ~~#3~~ #4	WT		10/8/18																2						
23		WT																								
24		WT																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Central county Monitoring wells Adapt	Alison Eggleston	10/8/18	1432	[illegible] Pace	10-8-18	1432	T23			
	[illegible] Pace	10-8-18	1816	[illegible] Pace	10/8/18	1816	1.3	Y	N	Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Alison Eggleston
SIGNATURE of SAMPLER:	DATE Signed:

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO# : 35422648
PM: MIM Due Date: 10/22/18
CLIENT: SARCOU

Date and Initials of person:
Examining contents: MVL
Label: 10/8/18
Deliver:
pH:

Thermometer Used: T-203 Date: 10/8/18 Time: 1820 Initials: MVL

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 1.3 **(Visual)** 0.0 **(Correction Factor)** 1.3 **(Actual)** ☒ Samples on ice, cooling process has begun
Cooler #2 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ 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:
Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☒ Yes ☐ No ☐ N/A	Preservative:____ Lot #/Trace #:____ Date:____ Time:____ Initials:____
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted: ____ Date/Time: ____

Comments/ Resolution (use back for additional comments): ____

Project Manager Review: ____ Date: ____

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

REVIEWED
By Cesar Rodriguez-Palacios at 4:08 pm, Dec 03, 2018

October 18, 2018

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

RE: Project: Central Cty
Pace Project No.: 35421363

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Central Cty
Pace Project No.: 35421363

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Central Cty
Pace Project No.: 35421363

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35421363001	**MW-18R (29095)**	Water	10/02/18 13:30	10/02/18 15:40
35421363002	**MW-19A (27140)**	Water	10/02/18 12:16	10/02/18 15:40
35421363003	**MW-20A (27141)**	Water	10/02/18 10:25	10/02/18 15:40
35421363004	**Equip Blank #1**	Water	10/02/18 09:20	10/02/18 15:40
35421363005	**dup #1**	Water	10/02/18 13:30	10/02/18 15:40
35421363006	**Trip Blank 8260 #3**	Water	10/02/18 09:20	10/02/18 15:40
35421363007	**Trip Blank 8011 #3**	Water	10/02/18 09:20	10/02/18 15:40

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SAMPLE ANALYTE COUNT

Project: Central Cty
Pace Project No.: 35421363

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35421363001	**MW-18R (29095)**	EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	FDV, KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35421363002	**MW-19A (27140)**	EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	FDV, KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35421363003	**MW-20A (27141)**	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	FDV, KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35421363004	**Equip Blank #1**	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	15	PASI-O
		EPA 6020	FDV, KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35421363005	**dup #1**	EPA 8011	MMB	2	PASI-O

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SAMPLE ANALYTE COUNT

Project: Central Cty
Pace Project No.: 35421363

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	SC1	15	PASI-O
		EPA 6020	FDV, KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35421363006	**Trip Blank 8260 #3**	EPA 8260	BTN	48	PASI-O
35421363007	**Trip Blank 8011 #3**	EPA 8011	MMB	2	PASI-O

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(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: MW-18R (29095) **Lab ID: 35421363001** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.01**	Std. Units			1		10/02/18 13:30		
Field Temperature	**30.35**	deg C			1		10/02/18 13:30		
Field Specific Conductance	**613**	umhos/cm			1		10/02/18 13:30		
Oxygen, Dissolved	**0.07**	mg/L			1		10/02/18 13:30	7782-44-7	
Turbidity	**1.15**	NTU			1		10/02/18 13:30		
Water Level(NGVD)	**18.85**	feet			1		10/02/18 13:30		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/04/18 01:32	10/04/18 16:43	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	10/04/18 01:32	10/04/18 16:43	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**22.8**	ug/L	10.0	0.84	1	10/05/18 01:39	10/05/18 20:53	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/05/18 01:39	10/05/18 20:53	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/05/18 01:39	10/05/18 20:53	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/05/18 01:39	10/05/18 20:53	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	10/05/18 01:39	10/05/18 20:53	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/05/18 01:39	10/05/18 20:53	7440-50-8	
Iron	**7060**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 20:53	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/05/18 01:39	10/05/18 20:53	7439-92-1	
Manganese	**19.3**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 20:53	7439-96-5	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	10/05/18 01:39	10/05/18 20:53	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/05/18 01:39	10/05/18 20:53	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/05/18 01:39	10/05/18 20:53	7440-22-4	
Sodium	**4.6**	mg/L	2.0	0.27	1	10/05/18 01:39	10/05/18 20:53	7440-23-5	
Vanadium	**4.3 I**	ug/L	10.0	1.0	1	10/05/18 01:39	10/05/18 20:53	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/05/18 01:39	10/05/18 20:53	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:15	7440-36-0	
Arsenic	**9.6**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:15	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/08/18 13:24	10/09/18 17:26	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/09/18 13:31	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:31	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/09/18 13:31	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/09/18 13:31	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/09/18 13:31	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:31	78-93-3	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: MW-18R (29095) **Lab ID: 35421363001** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:31	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/09/18 13:31	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 13:31	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/09/18 13:31	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/09/18 13:31	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/09/18 13:31	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:31	110-57-6	J(L1)
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 13:31	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 13:31	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:31	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 13:31	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/09/18 13:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:31	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/09/18 13:31	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/09/18 13:31	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/09/18 13:31	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:31	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/09/18 13:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/09/18 13:31	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/09/18 13:31	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/09/18 13:31	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**325**	mg/L	5.0	5.0	1		10/03/18 14:26		

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: MW-18R (29095) **Lab ID: 35421363001** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.8 I**	mg/L	5.0	2.5	1		10/10/18 20:21	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/10/18 20:21	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.8**	mg/L	0.050	0.035	1		10/03/18 09:20	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		10/03/18 19:06	14797-55-8	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: MW-19A (27140) **Lab ID: 35421363002** Collected: 10/02/18 12:16 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.65**	Std. Units			1		10/02/18 12:16		
Field Temperature	**29.66**	deg C			1		10/02/18 12:16		
Field Specific Conductance	**667**	umhos/cm			1		10/02/18 12:16		
Oxygen, Dissolved	**0.11**	mg/L			1		10/02/18 12:16	7782-44-7	
Turbidity	**0.42**	NTU			1		10/02/18 12:16		
Water Level(NGVD)	**19.69**	feet			1		10/02/18 12:16		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/04/18 01:32	10/04/18 16:59	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	10/04/18 01:32	10/04/18 16:59	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**72.3**	ug/L	10.0	0.84	1	10/05/18 01:39	10/05/18 20:56	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/05/18 01:39	10/05/18 20:56	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/05/18 01:39	10/05/18 20:56	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/05/18 01:39	10/05/18 20:56	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	10/05/18 01:39	10/05/18 20:56	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/05/18 01:39	10/05/18 20:56	7440-50-8	
Iron	**226**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 20:56	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/05/18 01:39	10/05/18 20:56	7439-92-1	
Manganese	**2.4 I**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 20:56	7439-96-5	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	10/05/18 01:39	10/05/18 20:56	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/05/18 01:39	10/05/18 20:56	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/05/18 01:39	10/05/18 20:56	7440-22-4	
Sodium	**5.9**	mg/L	2.0	0.27	1	10/05/18 01:39	10/05/18 20:56	7440-23-5	
Vanadium	**3.5 I**	ug/L	10.0	1.0	1	10/05/18 01:39	10/05/18 20:56	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/05/18 01:39	10/05/18 20:56	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:20	7440-36-0	
Arsenic	**4.2**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:20	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/08/18 13:24	10/09/18 17:28	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/09/18 14:20	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 14:20	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/09/18 14:20	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/09/18 14:20	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/09/18 14:20	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 14:20	78-93-3	

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(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: MW-19A (27140) **Lab ID: 35421363002** Collected: 10/02/18 12:16 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 14:20	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/09/18 14:20	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 14:20	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/09/18 14:20	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/09/18 14:20	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/09/18 14:20	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 14:20	110-57-6	J(L1)
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 14:20	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 14:20	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 14:20	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 14:20	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/09/18 14:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 14:20	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/09/18 14:20	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/09/18 14:20	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/09/18 14:20	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 14:20	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/09/18 14:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/09/18 14:20	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/09/18 14:20	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/09/18 14:20	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**373**	mg/L	5.0	5.0	1		10/03/18 14:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: MW-19A (27140) **Lab ID: 35421363002** Collected: 10/02/18 12:16 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.8**	mg/L	5.0	2.5	1		10/10/18 18:24	16887-00-6	
Sulfate	**17.9**	mg/L	5.0	2.5	1		10/10/18 18:24	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.38**	mg/L	0.050	0.035	1		10/03/18 09:22	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		10/03/18 19:07	14797-55-8	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: MW-20A (27141) **Lab ID: 35421363003** Collected: 10/02/18 10:25 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.62**	Std. Units			1		10/02/18 10:25		
Field Temperature	**28.76**	deg C			1		10/02/18 10:25		
Field Specific Conductance	**563**	umhos/cm			1		10/02/18 10:25		
Oxygen, Dissolved	**0.10**	mg/L			1		10/02/18 10:25	7782-44-7	
Turbidity	**0.75**	NTU			1		10/02/18 10:25		
Water Level(NGVD)	**18.62**	feet			1		10/02/18 10:25		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/08/18 08:58	10/08/18 20:24	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	10/08/18 08:58	10/08/18 20:24	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**33.5**	ug/L	10.0	0.84	1	10/05/18 01:39	10/05/18 20:59	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/05/18 01:39	10/05/18 20:59	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/05/18 01:39	10/05/18 20:59	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/05/18 01:39	10/05/18 20:59	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	10/05/18 01:39	10/05/18 20:59	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/05/18 01:39	10/05/18 20:59	7440-50-8	
Iron	**3450**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 20:59	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/05/18 01:39	10/05/18 20:59	7439-92-1	
Manganese	**7.4**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 20:59	7439-96-5	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	10/05/18 01:39	10/05/18 20:59	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/05/18 01:39	10/05/18 20:59	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/05/18 01:39	10/05/18 20:59	7440-22-4	
Sodium	**2.7**	mg/L	2.0	0.27	1	10/05/18 01:39	10/05/18 20:59	7440-23-5	
Vanadium	**3.3 I**	ug/L	10.0	1.0	1	10/05/18 01:39	10/05/18 20:59	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/05/18 01:39	10/05/18 20:59	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:22	7440-36-0	
Arsenic	**9.0**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:22	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:36	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/08/18 13:24	10/09/18 17:30	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/09/18 15:09	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:09	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/09/18 15:09	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/09/18 15:09	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/09/18 15:09	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:09	78-93-3	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: MW-20A (27141) **Lab ID: 35421363003** Collected: 10/02/18 10:25 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:09	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/09/18 15:09	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 15:09	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/09/18 15:09	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/09/18 15:09	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/09/18 15:09	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:09	110-57-6	J(L1)
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 15:09	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 15:09	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:09	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 15:09	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/09/18 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:09	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/09/18 15:09	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/09/18 15:09	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/09/18 15:09	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:09	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/09/18 15:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/09/18 15:09	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		10/09/18 15:09	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		10/09/18 15:09	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**309**	mg/L	5.0	5.0	1		10/03/18 14:26		

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: MW-20A (27141) **Lab ID: 35421363003** Collected: 10/02/18 10:25 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5 U**	mg/L	5.0	2.5	1		10/10/18 18:05	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/10/18 18:05	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.42**	mg/L	0.050	0.035	1		10/03/18 09:28	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		10/03/18 19:09	14797-55-8	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: Equip Blank #1 **Lab ID: 35421363004** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.020	0.0062	1	10/08/18 08:58	10/08/18 20:39	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	10/08/18 08:58	10/08/18 20:39	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**0.84 U**	ug/L	10.0	0.84	1	10/05/18 01:39	10/05/18 21:02	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/05/18 01:39	10/05/18 21:02	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/05/18 01:39	10/05/18 21:02	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/05/18 01:39	10/05/18 21:02	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	10/05/18 01:39	10/05/18 21:02	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/05/18 01:39	10/05/18 21:02	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:02	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/05/18 01:39	10/05/18 21:02	7439-92-1	
Manganese	**0.42 U**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:02	7439-96-5	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	10/05/18 01:39	10/05/18 21:02	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/05/18 01:39	10/05/18 21:02	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/05/18 01:39	10/05/18 21:02	7440-22-4	
Sodium	**0.27 U**	mg/L	2.0	0.27	1	10/05/18 01:39	10/05/18 21:02	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	10/05/18 01:39	10/05/18 21:02	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/05/18 01:39	10/05/18 21:02	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:25	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:25	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/11/18 18:52	10/15/18 15:05	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**12.4 I**	ug/L	20.0	10.0	1		10/09/18 12:42	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 12:42	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/09/18 12:42	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/09/18 12:42	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/09/18 12:42	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 12:42	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 12:42	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/09/18 12:42	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 12:42	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/09/18 12:42	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/09/18 12:42	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/09/18 12:42	74-95-3	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: Equip Blank #1 **Lab ID: 35421363004** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 12:42	110-57-6	J(L1)
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 12:42	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 12:42	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 12:42	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 12:42	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/09/18 12:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 12:42	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/09/18 12:42	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/09/18 12:42	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/09/18 12:42	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 12:42	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/09/18 12:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/09/18 12:42	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/09/18 12:42	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/09/18 12:42	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		10/04/18 14:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5 U**	mg/L	5.0	2.5	1		10/10/18 20:41	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/10/18 20:41	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		10/03/18 09:29	7664-41-7	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: Equip Blank #1 **Lab ID: 35421363004** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		10/03/18 10:01	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: dup #1 **Lab ID: 35421363005** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.01**	Std. Units			1		10/02/18 13:30		
Field Temperature	**30.35**	deg C			1		10/02/18 13:30		
Field Specific Conductance	**613**	umhos/cm			1		10/02/18 13:30		
Oxygen, Dissolved	**0.07**	mg/L			1		10/02/18 13:30	7782-44-7	
Turbidity	**1.15**	NTU			1		10/02/18 13:30		
Water Level(NGVD)	**18.85**	feet			1		10/02/18 13:30		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	10/08/18 08:58	10/08/18 20:54	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	10/08/18 08:58	10/08/18 20:54	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**22.7**	ug/L	10.0	0.84	1	10/05/18 01:39	10/05/18 21:05	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/05/18 01:39	10/05/18 21:05	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/05/18 01:39	10/05/18 21:05	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	10/05/18 01:39	10/05/18 21:05	7440-47-3	
Cobalt	**1.4 I**	ug/L	10.0	0.96	1	10/05/18 01:39	10/05/18 21:05	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/05/18 01:39	10/05/18 21:05	7440-50-8	
Iron	**7430**	ug/L	40.0	9.2	1	10/05/18 01:39	10/05/18 21:05	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/05/18 01:39	10/05/18 21:05	7439-92-1	
Manganese	**18.9**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:05	7439-96-5	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	10/05/18 01:39	10/05/18 21:05	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/05/18 01:39	10/05/18 21:05	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/05/18 01:39	10/05/18 21:05	7440-22-4	
Sodium	**4.6**	mg/L	2.0	0.27	1	10/05/18 01:39	10/05/18 21:05	7440-23-5	
Vanadium	**4.2 I**	ug/L	10.0	1.0	1	10/05/18 01:39	10/05/18 21:05	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/05/18 01:39	10/05/18 21:05	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:51	7440-36-0	
Arsenic	**9.9**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 19:51	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 18:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/11/18 18:52	10/15/18 15:11	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/09/18 15:34	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:34	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/09/18 15:34	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/09/18 15:34	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/09/18 15:34	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:34	78-93-3	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: dup #1 **Lab ID: 35421363005** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:34	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/09/18 15:34	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 15:34	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/09/18 15:34	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/09/18 15:34	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/09/18 15:34	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:34	110-57-6	J(L1)
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 15:34	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 15:34	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:34	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 15:34	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/09/18 15:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 15:34	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/09/18 15:34	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/09/18 15:34	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/09/18 15:34	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 15:34	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/09/18 15:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/09/18 15:34	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		10/09/18 15:34	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/09/18 15:34	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**341**	mg/L	5.0	5.0	1		10/04/18 14:52		

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: dup #1 **Lab ID: 35421363005** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.8 I**	mg/L	5.0	2.5	1		10/10/18 18:44	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/10/18 18:44	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**5.0**	mg/L	0.050	0.035	1		10/03/18 09:31	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		10/03/18 19:10	14797-55-8	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: Trip Blank 8260 #3 **Lab ID: 35421363006** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/09/18 13:06	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:06	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/09/18 13:06	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/09/18 13:06	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/09/18 13:06	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:06	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:06	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/09/18 13:06	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 13:06	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/09/18 13:06	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/09/18 13:06	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/09/18 13:06	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:06	110-57-6	J(L1)
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 13:06	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/09/18 13:06	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:06	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/09/18 13:06	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/09/18 13:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/09/18 13:06	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/09/18 13:06	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/09/18 13:06	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/09/18 13:06	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/09/18 13:06	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/09/18 13:06	1330-20-7	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: Trip Blank 8260 #3 **Lab ID: 35421363006** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/09/18 13:06	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		10/09/18 13:06	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/09/18 13:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

Sample: Trip Blank 8011 #3 **Lab ID: 35421363007** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/08/18 08:58	10/08/18 21:24	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	10/08/18 08:58	10/08/18 21:24	106-93-4	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 483723 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35421363001, 35421363002, 35421363003

METHOD BLANK: 2617311 | Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	10/09/18 16:56	

LABORATORY CONTROL SAMPLE: 2617312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2617313 2617314

Parameter	Units	35419216001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.1	2.1	104	104	75-125	0	20	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 484941 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 35421363004, 35421363005

METHOD BLANK: 2623974 | Matrix: Water
Associated Lab Samples: 35421363004, 35421363005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	10/15/18 15:01	

LABORATORY CONTROL SAMPLE: 2623975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2623976 2623977

Parameter	Units	35421363004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.8	2.0	90	100	75-125	10	20	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 483216 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

METHOD BLANK: 2614848 | Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

Parameter	Units	Blank Result		Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84	U	10.0	0.84	10/05/18 20:48	
Beryllium	ug/L	1.6	U	4.0	1.6	10/05/18 20:48	
Cadmium	ug/L	0.33	U	1.0	0.33	10/05/18 20:48	
Chromium	ug/L	1.7	U	5.0	1.7	10/05/18 20:48	
Cobalt	ug/L	0.96	U	10.0	0.96	10/05/18 20:48	
Copper	ug/L	2.6	U	5.0	2.6	10/05/18 20:48	
Iron	ug/L	9.2	U	40.0	9.2	10/05/18 20:48	
Lead	ug/L	4.6	U	10.0	4.6	10/05/18 20:48	
Manganese	ug/L	0.42	U	5.0	0.42	10/05/18 20:48	
Nickel	ug/L	2.1	U	5.0	2.1	10/05/18 20:48	
Selenium	ug/L	8.5	U	15.0	8.5	10/05/18 20:48	
Silver	ug/L	1.0	U	5.0	1.0	10/05/18 20:48	
Sodium	mg/L	0.27	U	2.0	0.27	10/05/18 20:48	
Vanadium	ug/L	1.0	U	10.0	1.0	10/05/18 20:48	
Zinc	ug/L	11.0	U	20.0	11.0	10/05/18 20:48	

LABORATORY CONTROL SAMPLE: 2614849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	257	103	80-120	
Beryllium	ug/L	25	25.7	103	80-120	
Cadmium	ug/L	25	26.2	105	80-120	
Chromium	ug/L	250	260	104	80-120	
Cobalt	ug/L	250	262	105	80-120	
Copper	ug/L	250	254	102	80-120	
Iron	ug/L	2500	2600	104	80-120	
Lead	ug/L	250	259	104	80-120	
Manganese	ug/L	250	264	106	80-120	
Nickel	ug/L	250	260	104	80-120	
Selenium	ug/L	250	265	106	80-120	
Silver	ug/L	25	26.1	104	80-120	
Sodium	mg/L	12.5	12.6	101	80-120	
Vanadium	ug/L	250	259	103	80-120	
Zinc	ug/L	1250	1310	105	80-120	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614851 2614852

Parameter	Units	35422069002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	95.6	250	250	348	351	101	102	75-125	1	20	
Beryllium	ug/L	1.6 U	25	25	21.0	23.5	84	94	75-125	11	20	
Cadmium	ug/L	0.33 U	25	25	25.0	24.9	99	99	75-125	0	20	
Chromium	ug/L	1.8 I	250	250	256	245	102	97	75-125	4	20	
Cobalt	ug/L	1.8 I	250	250	261	260	104	103	75-125	0	20	
Copper	ug/L	2.6 U	250	250	259	261	104	105	75-125	1	20	
Iron	ug/L	88400	2500	2500	87100	85300	-51	-123	75-125	2	20	J(M1), L
Lead	ug/L	4.6 U	250	250	249	257	99	103	75-125	3	20	
Manganese	ug/L	10.5	250	250	267	245	103	94	75-125	9	20	
Nickel	ug/L	2.7 I	250	250	255	260	101	103	75-125	2	20	
Selenium	ug/L	8.5 U	250	250	254	255	102	102	75-125	0	20	
Silver	ug/L	1.0 U	25	25	25.5	24.7	102	99	75-125	3	20	
Sodium	mg/L	60.8	12.5	12.5	73.5	76.3	102	123	75-125	4	20	
Vanadium	ug/L	5.8 I	250	250	264	252	103	98	75-125	5	20	
Zinc	ug/L	11.0 U	1250	1250	1240	1320	98	105	75-125	6	20	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 483215 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

METHOD BLANK: 2614821 | Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	10/06/18 19:13	
Arsenic	ug/L	0.50 U	1.0	0.50	10/06/18 19:13	
Thallium	ug/L	0.50 U	1.0	0.50	10/05/18 18:21	

LABORATORY CONTROL SAMPLE: 2614822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.5	97	80-120	
Arsenic	ug/L	50	48.0	96	80-120	
Thallium	ug/L	50	49.1	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614823 2614824

Parameter	Units	35421363001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	50.8	54.0	101	108	75-125	6	20	
Arsenic	ug/L	9.6	50	50	60.1	64.3	101	109	75-125	7	20	
Thallium	ug/L	0.50 U	50	50	51.5	51.3	103	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 484082 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005, 35421363006

METHOD BLANK: 2619036 | Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005, 35421363006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	10/09/18 11:31	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	10/09/18 11:31	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	10/09/18 11:31	
2-Hexanone	ug/L	5.0 U	10.0	5.0	10/09/18 11:31	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	10/09/18 11:31	
Acetone	ug/L	10.0 U	20.0	10.0	10/09/18 11:31	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	10/09/18 11:31	
Benzene	ug/L	0.10 U	1.0	0.10	10/09/18 11:31	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	10/09/18 11:31	
Bromoform	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
Bromomethane	ug/L	0.50 U	5.0	0.50	10/09/18 11:31	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	10/09/18 11:31	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	10/09/18 11:31	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
Chloroethane	ug/L	0.50 U	10.0	0.50	10/09/18 11:31	
Chloroform	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
Chloromethane	ug/L	0.62 U	1.0	0.62	10/09/18 11:31	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/09/18 11:31	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	10/09/18 11:31	
Dibromomethane	ug/L	0.50 U	2.0	0.50	10/09/18 11:31	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
Iodomethane	ug/L	0.50 U	10.0	0.50	10/09/18 11:31	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	10/09/18 11:31	
Styrene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
Toluene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/09/18 11:31	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	10/09/18 11:31	
Trichloroethene	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

METHOD BLANK: 2619036 Matrix: Water

Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005, 35421363006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	10/09/18 11:31	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	10/09/18 11:31	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	10/09/18 11:31	
1,2-Dichloroethane-d4 (S)	%	101	70-130		10/09/18 11:31	
4-Bromofluorobenzene (S)	%	96	70-130		10/09/18 11:31	
Toluene-d8 (S)	%	101	70-130		10/09/18 11:31	

LABORATORY CONTROL SAMPLE: 2619037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.4	97	70-130	
1,1,1-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	24.6	123	68-125	
1,1,2-Trichloroethane	ug/L	20	22.8	114	70-130	
1,1-Dichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethene	ug/L	20	18.1	91	66-133	
1,2,3-Trichloropropane	ug/L	20	22.4	112	62-127	
1,2-Dichlorobenzene	ug/L	20	22.6	113	70-130	
1,2-Dichloroethane	ug/L	20	19.5	98	70-130	
1,2-Dichloropropane	ug/L	20	22.6	113	70-130	
1,4-Dichlorobenzene	ug/L	20	22.3	111	70-130	
2-Butanone (MEK)	ug/L	40	43.2	108	47-143	
2-Hexanone	ug/L	40	39.1	98	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	40.7	102	57-132	
Acetone	ug/L	40	40.8	102	46-148	
Acrylonitrile	ug/L	200	239	119	60-143	
Benzene	ug/L	20	21.3	106	70-130	
Bromochloromethane	ug/L	20	20.2	101	70-130	
Bromodichloromethane	ug/L	20	22.0	110	70-130	
Bromoform	ug/L	20	18.3	91	49-126	
Bromomethane	ug/L	20	20.0	100	10-165	
Carbon disulfide	ug/L	20	17.5	87	60-141	
Carbon tetrachloride	ug/L	20	16.7	84	63-126	
Chlorobenzene	ug/L	20	21.9	110	70-130	
Chloroethane	ug/L	20	19.5	97	71-142	
Chloroform	ug/L	20	21.5	108	70-130	
Chloromethane	ug/L	20	18.2	91	40-140	
cis-1,2-Dichloroethene	ug/L	20	20.9	105	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.1	100	70-130	
Dibromochloromethane	ug/L	20	18.4	92	62-118	
Dibromomethane	ug/L	20	20.9	105	70-130	
Ethylbenzene	ug/L	20	21.9	109	70-130	
Iodomethane	ug/L	40	30.6	77	10-164	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

LABORATORY CONTROL SAMPLE: 2619037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	21.1	105	65-136	
Styrene	ug/L	20	20.0	100	70-130	
Tetrachloroethene	ug/L	20	21.6	108	64-134	
Toluene	ug/L	20	22.0	110	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.7	99	68-127	
trans-1,3-Dichloropropene	ug/L	20	20.5	103	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	26.4	132	42-129	J(L1)
Trichloroethene	ug/L	20	20.0	100	70-130	
Trichlorofluoromethane	ug/L	20	18.1	90	65-135	
Vinyl acetate	ug/L	20	19.3	97	60-144	
Vinyl chloride	ug/L	20	18.9	94	68-131	
Xylene (Total)	ug/L	60	65.2	109	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 2619039

Parameter	Units	35421363002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	17.9	90	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	19.3	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.5	92	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	20.3	102	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	18.2	91	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.0	85	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	19.3	96	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.9	95	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.6	83	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	19.0	95	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	19.0	95	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	36.4	91	47-143	
2-Hexanone	ug/L	5.0 U	40	35.3	88	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	35.2	88	57-132	
Acetone	ug/L	10.0 U	40	34.8	87	46-148	
Acrylonitrile	ug/L	5.0 U	200	199	100	60-143	
Benzene	ug/L	0.10 U	20	18.5	93	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.4	97	70-130	
Bromodichloromethane	ug/L	0.27 U	20	18.0	90	70-130	
Bromoform	ug/L	0.50 U	20	15.8	79	49-126	
Bromomethane	ug/L	0.50 U	20	13.4	67	10-165	
Carbon disulfide	ug/L	5.0 U	20	16.2	81	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	15.7	78	63-126	
Chlorobenzene	ug/L	0.50 U	20	20.1	101	70-130	
Chloroethane	ug/L	0.50 U	20	18.8	94	71-142	
Chloroform	ug/L	0.50 U	20	19.2	96	70-130	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

MATRIX SPIKE SAMPLE: 2619039

Parameter	Units	35421363002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	22.6	113	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	18.4	92	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	16.5	83	70-130	
Dibromochloromethane	ug/L	0.26 U	20	15.8	79	62-118	
Dibromomethane	ug/L	0.50 U	20	20.3	101	70-130	
Ethylbenzene	ug/L	0.50 U	20	19.7	98	70-130	
Iodomethane	ug/L	0.50 U	40	26.0	65	10-164	
Methylene Chloride	ug/L	2.5 U	20	16.1	81	65-136	
Styrene	ug/L	0.50 U	20	18.0	90	70-130	
Tetrachloroethene	ug/L	0.50 U	20	21.2	106	64-134	
Toluene	ug/L	0.50 U	20	20.2	101	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.5	87	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	17.3	86	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	18.4	92	42-129	
Trichloroethene	ug/L	0.50 U	20	19.3	96	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	20.9	105	65-135	
Vinyl acetate	ug/L	1.0 U	20	15.7	79	60-144	
Vinyl chloride	ug/L	0.50 U	20	21.3	107	68-131	
Xylene (Total)	ug/L	1.5 U	60	59.1	98	70-130	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				112	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2619038

Parameter	Units	35421363001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

SAMPLE DUPLICATE: 2619038

Parameter	Units	35421363001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	106	108	2	40	
4-Bromofluorobenzene (S)	%	96	96	1	40	
Toluene-d8 (S)	%	101	103	2	40	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482647 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35421363001, 35421363002

METHOD BLANK: 2611787 | Matrix: Water
Associated Lab Samples: 35421363001, 35421363002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	10/04/18 10:46	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	10/04/18 10:46	

LABORATORY CONTROL SAMPLE: 2611788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.24	96	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.24	95	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2613001 2613002

Parameter	Units	35421425005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L		.25	.25	0.30	0.30	122	120	60-140	2	40	
1,2-Dibromoethane (EDB)	ug/L	0.0071 U	.25	.25	0.30	0.29	122	116	60-140	4	40	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 483507 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35421363003, 35421363004, 35421363005, 35421363007

METHOD BLANK: 2616367 | Matrix: Water
Associated Lab Samples: 35421363003, 35421363004, 35421363005, 35421363007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	10/08/18 18:41	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	10/08/18 18:41	

LABORATORY CONTROL SAMPLE: 2616368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.24	94	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.24	94	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2617122 2617123

Parameter	Units	35422305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.42	0.40	97	91	60-140	7	40	
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	.44	.44	0.38	0.35	87	81	60-140	8	40	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482560 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35421363001, 35421363002, 35421363003

METHOD BLANK: 2611496 | Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	10/03/18 14:18	

LABORATORY CONTROL SAMPLE: 2611497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	90-110	

SAMPLE DUPLICATE: 2611498

Parameter	Units	35421115001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	213	211	1	5	

SAMPLE DUPLICATE: 2611499

Parameter	Units	35421272002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	421	426	1	5	

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482928
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35421363004, 35421363005

METHOD BLANK: 2613325
Matrix: Water
Associated Lab Samples: 35421363004, 35421363005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	10/04/18 14:38	

LABORATORY CONTROL SAMPLE: 2613326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	90-110	

SAMPLE DUPLICATE: 2613327

Parameter	Units	35421382001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	596	594	0	5	

SAMPLE DUPLICATE: 2613328

Parameter	Units	35421382011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	565	569	1	5	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 484577 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

METHOD BLANK: 2621440 | Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	10/10/18 15:10	
Sulfate	mg/L	2.5 U	5.0	2.5	10/10/18 15:10	

LABORATORY CONTROL SAMPLE: 2621441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2621442 2621443

Parameter	Units	35421982001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	29.6	50	50	80.5	81.2	102	103	90-110	1	20	
Sulfate	mg/L	24.5	50	50	75.7	76.5	102	104	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2621444 2621445

Parameter	Units	35421982008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.6	50	50	76.2	76.2	105	105	90-110	0	20	
Sulfate	mg/L	8.7	50	50	61.2	61.3	105	105	90-110	0	20	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482506 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

METHOD BLANK: 2611271 | Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	10/03/18 08:38	

LABORATORY CONTROL SAMPLE: 2611272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 2611274

Parameter	Units	35421065001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	25.9	5.1	30.2	85	90-110	J(M1)

SAMPLE DUPLICATE: 2611273

Parameter	Units	35421065001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	25.9	25.8	0	20	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482517
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35421363004

METHOD BLANK: 2611329
Matrix: Water
Associated Lab Samples: 35421363004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	10/03/18 09:24	

SAMPLE DUPLICATE: 2611331

Parameter	Units	35421436005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 2611333

Parameter	Units	35421548001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482771 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363005

METHOD BLANK: 2612541 | Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	10/03/18 18:58	

SAMPLE DUPLICATE: 2612543

Parameter	Units	35421326001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.8	1.8	2	20	

SAMPLE DUPLICATE: 2612545

Parameter	Units	35421393002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Central Cty
Pace Project No.: 35421363

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach
PASI-Tp	Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(HS)	Estimated Value. Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty
Pace Project No.: 35421363

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35421363001	**MW-18R (29095)**				
35421363002	**MW-19A (27140)**				
35421363003	**MW-20A (27141)**				
35421363005	**dup #1**				
35421363001	**MW-18R (29095)**	EPA 8011	482647	EPA 8011	482872
35421363002	**MW-19A (27140)**	EPA 8011	482647	EPA 8011	482872
35421363003	**MW-20A (27141)**	EPA 8011	483507	EPA 8011	483846
35421363004	**Equip Blank #1**	EPA 8011	483507	EPA 8011	483846
35421363005	**dup #1**	EPA 8011	483507	EPA 8011	483846
35421363007	**Trip Blank 8011 #3**	EPA 8011	483507	EPA 8011	483846
35421363001	**MW-18R (29095)**	EPA 3010	483216	EPA 6010	483221
35421363002	**MW-19A (27140)**	EPA 3010	483216	EPA 6010	483221
35421363003	**MW-20A (27141)**	EPA 3010	483216	EPA 6010	483221
35421363004	**Equip Blank #1**	EPA 3010	483216	EPA 6010	483221
35421363005	**dup #1**	EPA 3010	483216	EPA 6010	483221
35421363001	**MW-18R (29095)**	EPA 3010	483215	EPA 6020	483222
35421363002	**MW-19A (27140)**	EPA 3010	483215	EPA 6020	483222
35421363003	**MW-20A (27141)**	EPA 3010	483215	EPA 6020	483222
35421363004	**Equip Blank #1**	EPA 3010	483215	EPA 6020	483222
35421363005	**dup #1**	EPA 3010	483215	EPA 6020	483222
35421363001	**MW-18R (29095)**	EPA 7470	483723	EPA 7470	483871
35421363002	**MW-19A (27140)**	EPA 7470	483723	EPA 7470	483871
35421363003	**MW-20A (27141)**	EPA 7470	483723	EPA 7470	483871
35421363004	**Equip Blank #1**	EPA 7470	484941	EPA 7470	485090
35421363005	**dup #1**	EPA 7470	484941	EPA 7470	485090
35421363001	**MW-18R (29095)**	EPA 8260	484082		
35421363002	**MW-19A (27140)**	EPA 8260	484082		
35421363003	**MW-20A (27141)**	EPA 8260	484082		
35421363004	**Equip Blank #1**	EPA 8260	484082		
35421363005	**dup #1**	EPA 8260	484082		
35421363006	**Trip Blank 8260 #3**	EPA 8260	484082		
35421363001	**MW-18R (29095)**	SM 2540C	482560		
35421363002	**MW-19A (27140)**	SM 2540C	482560		
35421363003	**MW-20A (27141)**	SM 2540C	482560		
35421363004	**Equip Blank #1**	SM 2540C	482928		
35421363005	**dup #1**	SM 2540C	482928		
35421363001	**MW-18R (29095)**	EPA 300.0	484577		
35421363002	**MW-19A (27140)**	EPA 300.0	484577		
35421363003	**MW-20A (27141)**	EPA 300.0	484577		
35421363004	**Equip Blank #1**	EPA 300.0	484577		
35421363005	**dup #1**	EPA 300.0	484577		
35421363001	**MW-18R (29095)**	EPA 350.1	482506		
35421363002	**MW-19A (27140)**	EPA 350.1	482506		

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty
Pace Project No.: 35421363

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35421363003	**MW-20A (27141)**	EPA 350.1	482506		
35421363004	**Equip Blank #1**	EPA 350.1	482506		
35421363005	**dup #1**	EPA 350.1	482506		
35421363001	**MW-18R (29095)**	EPA 353.2	482771		
35421363002	**MW-19A (27140)**	EPA 353.2	482771		
35421363003	**MW-20A (27141)**	EPA 353.2	482771		
35421363004	**Equip Blank #1**	EPA 353.2	482517		
35421363005	**dup #1**	EPA 353.2	482771		

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WO# : 35421363

35421363

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company:	Sarasota County
Address:	1255 T. Mabry Carlton Parkway
	Venice, FL 34292
Email:	
Phone:	941-650-9834
Fax:	
Requested Due Date:	

Required Project Information:

Report To:	Mr. Cesar Rodriguez
Copy To:	
Purchase Order #:	180736
Project Name:	Central Cty MW wells Appdx 1
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	martha.montero@pacelabs.com,
Pace Profile #:	833 #1

Regulatory Agency
State / Location
FL

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Requested Analysis Filtered (Y/N): HCL	Unpreserved	H2SO4	HNO3	Unpreserved	Residual Chlorine (Y/N)	
																		Y/N	VOC by 8260	EDB and DBCP EPA 8011	NH3	metals by 6010/6020/7470 Fe,Hg,Na,Mn	TDS NO3 Cl SO4		
1	~~MW-1R (20585)~~ GE	WT																	3	2	1	1	1		Please use ADAPT, analyze all compounds on App 1
2	~~MW-8A (21453)~~ GE	WT																	3	2	1	1	1		
3	~~MW-9 (4509)~~ GE	WT																	3	2	1	1	1		
4	~~MW-10R (4510)~~ GE	WT																	3	2	1	1	1		
5	~~MW-15 (23031)~~ GE	WT																	3	2	1	1	1		
6	~~MW-16 (23032)~~ GE	WT																	3	2	1	1	1		
7	~~MW-17 (23033)~~ GE	WT																	3	2	1	1	1		
8	MW-18R (29095)	WT		10/2/18	1330														3	2	1	1	1		
9	MW-19A(27140)	WT		10/2/18	1216														3	2	1	1	1		
10	MW-20A (27141)	WT		10/2/18	1025														3	2	1	1	1		
11	~~field blank~~ Equip #1	WT		10/2/18	0920														3	2	1	1	1		
12	dup #1	WT		10/2/18	1330														3	2	1	1	1		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Central county Monitoring wells Appdx				Alison Eggleston / Sarasota Co	9/20/18	1500				
	Alison Eggleston	10/2/18	1400		10/2/18	1400	TR3			
		10/2/18	1540	KINCHEN PACE	10-2-18	1540	0.3	Y	~	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alison Eggleston

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company:	Sarasota County
Address:	1255 T. Mabry Carlton Parkway
	Venice, FL 34292
Email:	
Phone:	941-650-9834 Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Mr. Cesar Rodriguez
Copy To:	
Purchase Order #:	180736
Project Name:	Central Cty MW wells Appdx 1
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	martha.montero@pacelabs.com,
Pace Profile #:	833 #1

Regulatory Agency	
State / Location	
	FL

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: HCL	Unpreserved	H2SO4	HNO3	Unpreserved	Residual Chlorine (Y/N)	
																		VOC by 8260	EDB and DBCP EPA 8011	NH3	metals by 6010/6020/7470 Fe,Hg,Na,Mn	TDS NO3 Cl SO4		
13	~~MW-3 4503~~ AE	WT																3	2	1	1	1		Please use ADAPT, analyze all compounds on App 1
14	~~MW-5 4505~~ AE	WT																3	2	1	1	1		
15	~~Trip Blank 8260 #1~~ AE	WT																2						
16	~~Trip Blank 8260 #2~~ AE	WT																2						
17	Trip Blank 8260 #3	WT		10/2/18														2						
18	~~Trip Blank 8260 #4~~ AE	WT																2						
19	~~Trip Blank 8011 #1~~ AE	WT																	2					
20	~~Trip Blank 8011 #2~~ AE	WT																	2					
21	Trip Blank 8011 #3	WT		10/2/18															2					
22	~~Trip Blank 8011 $3~~ AE	WT																	2					
23		WT																						
24		WT																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Central county Monitoring wells Adapt				Alison Eggleston	9/28/18	1500				
	Alison Eggleston	10/2/18	1400	[illegible]	10/2/18	1410	TRC3			
	[illegible]	10/2/18	1540	[illegible] PACE	10218	1540	03	Y	~	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Alison Eggleston				
SIGNATURE of SAMPLER:	DATE Signed:				

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35421363

Project Manager: PM: MIM **Due Date:** 10/16/18

Client: CLIENT: SARCOU

Date and Initials of person:
Examining contents: 10/2/18 NMT
Label:
Deliver:
pH:

Thermometer Used: T-203 Date: 10-2-18 Time: 1540 Initials: NMT

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 0.3 **(Visual)** 0.0 **(Correction Factor)** 0.3 **(Actual)** ☑ Samples on ice, cooling process has begun

Cooler #2 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #3 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #4 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #5 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #6 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ 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:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☐ Yes ☑ No ☐ N/A	No sampler signature
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Preservation Information: Preservative:____ Lot #/Trace #:____ Date:____ Time:____ Initials:____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	
Headspace in VOA Vials? (>6mm):	☑ Yes ☐ No ☐ N/A	2 of 2 vials for Trip Blank (8260)
Trip Blank Present:	☑ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted: ____ Date/Time: ____

Comments/ Resolution (use back for additional comments): ____

Project Manager Review: ____ Date: ____

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

October 18, 2018

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

REVIEWED
By Cesar Rodriguez-Palacios at 3:31 pm, Dec 03, 2018

RE: Project: Central Cty
Pace Project No.: 35422069

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County

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CERTIFICATIONS

Project:	Central Cty
Pace Project No.:	35422069

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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SAMPLE SUMMARY

Project: Central Cty
Pace Project No.: 35422069

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35422069001	**MW-16 (23032)**	Water	10/04/18 12:30	10/04/18 16:10
35422069002	**MW-17 (23033)**	Water	10/04/18 10:20	10/04/18 16:10
35422069003	**Trip Blank #1**	Water	10/04/18 10:20	10/04/18 16:10
35422069004	**Trip Blank #2**	Water	10/04/18 10:20	10/04/18 16:10

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SAMPLE ANALYTE COUNT

Project: Central Cty
Pace Project No.: 35422069

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35422069001	**MW-16 (23032)**	EPA 8011	MMB	2	PASI-O
		EPA 6010	JWP, SC1	15	PASI-O
		EPA 6020	FDV, KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35422069002	**MW-17 (23033)**	EPA 8011	MMB	2	PASI-O
		EPA 6010	JWP, SC1	15	PASI-O
		EPA 6020	FDV, KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	2	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35422069003	**Trip Blank #1**	EPA 8260	SK1	48	PASI-O
35422069004	**Trip Blank #2**	EPA 8011	MMB	2	PASI-O

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

Sample: MW-16 (23032) **Lab ID: 35422069001** Collected: 10/04/18 12:30 Received: 10/04/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.33**	Std. Units			1		10/04/18 12:30		
Field Temperature	**29.20**	deg C			1		10/04/18 12:30		
Field Specific Conductance	**2422**	umhos/cm			1		10/04/18 12:30		
Oxygen, Dissolved	**0.04**	mg/L			1		10/04/18 12:30	7782-44-7	
Turbidity	**1.03**	NTU			1		10/04/18 12:30		
Water Level(NGVD)	**19.93**	feet			1		10/04/18 12:30		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/08/18 08:58	10/09/18 03:19	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	10/08/18 08:58	10/09/18 03:19	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**96.2**	ug/L	10.0	0.84	1	10/05/18 01:39	10/05/18 21:56	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/05/18 01:39	10/05/18 21:56	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/05/18 01:39	10/05/18 21:56	7440-43-9	
Chromium	**3.0 I**	ug/L	5.0	1.7	1	10/05/18 01:39	10/05/18 21:56	7440-47-3	
Cobalt	**2.2 I**	ug/L	10.0	0.96	1	10/05/18 01:39	10/05/18 21:56	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/05/18 01:39	10/05/18 21:56	7440-50-8	
Iron	**61800**	ug/L	800	184	20	10/05/18 01:39	10/08/18 11:14	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/05/18 01:39	10/05/18 21:56	7439-92-1	
Manganese	**58.7**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:56	7439-96-5	
Nickel	**2.7 I**	ug/L	5.0	2.1	1	10/05/18 01:39	10/05/18 21:56	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/05/18 01:39	10/05/18 21:56	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/05/18 01:39	10/05/18 21:56	7440-22-4	
Sodium	**152**	mg/L	2.0	0.27	1	10/05/18 01:39	10/05/18 21:56	7440-23-5	
Vanadium	**8.5 I**	ug/L	10.0	1.0	1	10/05/18 01:39	10/05/18 21:56	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/05/18 01:39	10/05/18 21:56	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 20:01	7440-36-0	
Arsenic	**55.7**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 20:01	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 19:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/16/18 12:08	10/17/18 20:12	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/15/18 00:29	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:29	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/15/18 00:29	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/15/18 00:29	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/15/18 00:29	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:29	78-93-3	

REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

Sample: MW-16 (23032) **Lab ID: 35422069001** Collected: 10/04/18 12:30 Received: 10/04/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:29	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/15/18 00:29	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/15/18 00:29	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/15/18 00:29	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/15/18 00:29	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/15/18 00:29	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:29	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/15/18 00:29	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/15/18 00:29	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:29	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/15/18 00:29	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/15/18 00:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:29	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/15/18 00:29	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/15/18 00:29	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/15/18 00:29	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:29	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/15/18 00:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/15/18 00:29	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/15/18 00:29	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/15/18 00:29	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**1240**	mg/L	10.0	10.0	1		10/10/18 15:24		

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

Sample: MW-16 (23032) **Lab ID: 35422069001** Collected: 10/04/18 12:30 Received: 10/04/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**128**	mg/L	25.0	12.5	5		10/15/18 13:13	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/16/18 05:44	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**38.5**	mg/L	0.25	0.17	5		10/06/18 13:31	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.091**	mg/L	0.050	0.025	1		10/05/18 18:16	14797-55-8	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

Sample: MW-17 (23033) **Lab ID: 35422069002** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.36**	Std. Units			1		10/04/18 10:20		
Field Temperature	**28.06**	deg C			1		10/04/18 10:20		
Field Specific Conductance	**1810**	umhos/cm			1		10/04/18 10:20		
Oxygen, Dissolved	**0.03**	mg/L			1		10/04/18 10:20	7782-44-7	
Turbidity	**1.39**	NTU			1		10/04/18 10:20		
Water Level(NGVD)	**19.10**	feet			1		10/04/18 10:20		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	10/08/18 08:58	10/09/18 03:33	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	10/08/18 08:58	10/09/18 03:33	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**95.6**	ug/L	10.0	0.84	1	10/05/18 01:39	10/05/18 21:59	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	10/05/18 01:39	10/05/18 21:59	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	10/05/18 01:39	10/05/18 21:59	7440-43-9	
Chromium	**1.8 I**	ug/L	5.0	1.7	1	10/05/18 01:39	10/05/18 21:59	7440-47-3	
Cobalt	**1.8 I**	ug/L	10.0	0.96	1	10/05/18 01:39	10/05/18 21:59	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	10/05/18 01:39	10/05/18 21:59	7440-50-8	
Iron	**88400**	ug/L	800	184	20	10/05/18 01:39	10/08/18 11:18	7439-89-6	J(M1)
Lead	**4.6 U**	ug/L	10.0	4.6	1	10/05/18 01:39	10/05/18 21:59	7439-92-1	
Manganese	**10.5**	ug/L	5.0	0.42	1	10/05/18 01:39	10/05/18 21:59	7439-96-5	
Nickel	**2.7 I**	ug/L	5.0	2.1	1	10/05/18 01:39	10/05/18 21:59	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	10/05/18 01:39	10/05/18 21:59	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	10/05/18 01:39	10/05/18 21:59	7440-22-4	
Sodium	**60.8**	mg/L	2.0	0.27	1	10/05/18 01:39	10/05/18 21:59	7440-23-5	
Vanadium	**5.8 I**	ug/L	10.0	1.0	1	10/05/18 01:39	10/05/18 21:59	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	10/05/18 01:39	10/05/18 21:59	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 20:03	7440-36-0	
Arsenic	**73.0**	ug/L	1.0	0.50	1	10/05/18 01:37	10/06/18 20:03	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	10/05/18 01:37	10/05/18 19:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	10/16/18 12:08	10/17/18 20:14	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/15/18 00:53	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:53	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/15/18 00:53	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/15/18 00:53	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/15/18 00:53	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:53	78-93-3	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

Sample: MW-17 (23033) **Lab ID: 35422069002** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:53	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/15/18 00:53	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/15/18 00:53	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/15/18 00:53	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/15/18 00:53	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/15/18 00:53	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:53	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/15/18 00:53	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/15/18 00:53	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:53	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/15/18 00:53	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/15/18 00:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/15/18 00:53	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/15/18 00:53	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/15/18 00:53	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/15/18 00:53	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/15/18 00:53	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/15/18 00:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/15/18 00:53	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/15/18 00:53	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/15/18 00:53	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**936**	mg/L	10.0	10.0	1		10/10/18 15:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

Sample: MW-17 (23033) **Lab ID: 35422069002** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**84.5**	mg/L	5.0	2.5	1		10/16/18 06:06	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		10/16/18 06:06	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**34.6**	mg/L	0.25	0.17	5		10/06/18 13:33	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.066**	mg/L	0.050	0.025	1		10/05/18 18:18	14797-55-8	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

Sample: Trip Blank #1 **Lab ID: 35422069003** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		10/14/18 20:07	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 20:07	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		10/14/18 20:07	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		10/14/18 20:07	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		10/14/18 20:07	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 20:07	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 20:07	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		10/14/18 20:07	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		10/14/18 20:07	75-00-3	J(L1)
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		10/14/18 20:07	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		10/14/18 20:07	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		10/14/18 20:07	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 20:07	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/14/18 20:07	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		10/14/18 20:07	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 20:07	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		10/14/18 20:07	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		10/14/18 20:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		10/14/18 20:07	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		10/14/18 20:07	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		10/14/18 20:07	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		10/14/18 20:07	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		10/14/18 20:07	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		10/14/18 20:07	1330-20-7	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

Sample: Trip Blank #1 **Lab ID: 35422069003** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/14/18 20:07	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/14/18 20:07	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/14/18 20:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

Sample: Trip Blank #2 **Lab ID: 35422069004** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	10/08/18 08:58	10/09/18 03:49	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	10/08/18 08:58	10/09/18 03:49	106-93-4	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 485692
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2627727
Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	10/17/18 14:43	

LABORATORY CONTROL SAMPLE: 2627728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2627729 2627730

Parameter	Units	35421718001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.9	2.0	96	98	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 483216 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2614848 | Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	10/05/18 20:48	
Beryllium	ug/L	1.6 U	4.0	1.6	10/05/18 20:48	
Cadmium	ug/L	0.33 U	1.0	0.33	10/05/18 20:48	
Chromium	ug/L	1.7 U	5.0	1.7	10/05/18 20:48	
Cobalt	ug/L	0.96 U	10.0	0.96	10/05/18 20:48	
Copper	ug/L	2.6 U	5.0	2.6	10/05/18 20:48	
Iron	ug/L	9.2 U	40.0	9.2	10/05/18 20:48	
Lead	ug/L	4.6 U	10.0	4.6	10/05/18 20:48	
Manganese	ug/L	0.42 U	5.0	0.42	10/05/18 20:48	
Nickel	ug/L	2.1 U	5.0	2.1	10/05/18 20:48	
Selenium	ug/L	8.5 U	15.0	8.5	10/05/18 20:48	
Silver	ug/L	1.0 U	5.0	1.0	10/05/18 20:48	
Sodium	mg/L	0.27 U	2.0	0.27	10/05/18 20:48	
Vanadium	ug/L	1.0 U	10.0	1.0	10/05/18 20:48	
Zinc	ug/L	11.0 U	20.0	11.0	10/05/18 20:48	

LABORATORY CONTROL SAMPLE: 2614849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	257	103	80-120	
Beryllium	ug/L	25	25.7	103	80-120	
Cadmium	ug/L	25	26.2	105	80-120	
Chromium	ug/L	250	260	104	80-120	
Cobalt	ug/L	250	262	105	80-120	
Copper	ug/L	250	254	102	80-120	
Iron	ug/L	2500	2600	104	80-120	
Lead	ug/L	250	259	104	80-120	
Manganese	ug/L	250	264	106	80-120	
Nickel	ug/L	250	260	104	80-120	
Selenium	ug/L	250	265	106	80-120	
Silver	ug/L	25	26.1	104	80-120	
Sodium	mg/L	12.5	12.6	101	80-120	
Vanadium	ug/L	250	259	103	80-120	
Zinc	ug/L	1250	1310	105	80-120	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614851 2614852

Parameter	Units	35422069002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	95.6	250	250	348	351	101	102	75-125	1	20	
Beryllium	ug/L	1.6 U	25	25	21.0	23.5	84	94	75-125	11	20	
Cadmium	ug/L	0.33 U	25	25	25.0	24.9	99	99	75-125	0	20	
Chromium	ug/L	1.8 I	250	250	256	245	102	97	75-125	4	20	
Cobalt	ug/L	1.8 I	250	250	261	260	104	103	75-125	0	20	
Copper	ug/L	2.6 U	250	250	259	261	104	105	75-125	1	20	
Iron	ug/L	88400	2500	2500	87100	85300	-51	-123	75-125	2	20	J(M1), L
Lead	ug/L	4.6 U	250	250	249	257	99	103	75-125	3	20	
Manganese	ug/L	10.5	250	250	267	245	103	94	75-125	9	20	
Nickel	ug/L	2.7 I	250	250	255	260	101	103	75-125	2	20	
Selenium	ug/L	8.5 U	250	250	254	255	102	102	75-125	0	20	
Silver	ug/L	1.0 U	25	25	25.5	24.7	102	99	75-125	3	20	
Sodium	mg/L	60.8	12.5	12.5	73.5	76.3	102	123	75-125	4	20	
Vanadium	ug/L	5.8 I	250	250	264	252	103	98	75-125	5	20	
Zinc	ug/L	11.0 U	1250	1250	1240	1320	98	105	75-125	6	20	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 483215 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2614821 | Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	10/06/18 19:13	
Arsenic	ug/L	0.50 U	1.0	0.50	10/06/18 19:13	
Thallium	ug/L	0.50 U	1.0	0.50	10/05/18 18:21	

LABORATORY CONTROL SAMPLE: 2614822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.5	97	80-120	
Arsenic	ug/L	50	48.0	96	80-120	
Thallium	ug/L	50	49.1	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614823 2614824

Parameter	Units	35421363001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	50.8	54.0	101	108	75-125	6	20	
Arsenic	ug/L	9.6	50	50	60.1	64.3	101	109	75-125	7	20	
Thallium	ug/L	0.50 U	50	50	51.5	51.3	103	103	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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(386)672-5668

QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 485456 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35422069001, 35422069002, 35422069003

METHOD BLANK: 2626688 | Matrix: Water
Associated Lab Samples: 35422069001, 35422069002, 35422069003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	10/14/18 19:20	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	10/14/18 19:20	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
2-Hexanone	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
Acetone	ug/L	10.0 U	20.0	10.0	10/14/18 19:20	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
Benzene	ug/L	0.10 U	1.0	0.10	10/14/18 19:20	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	10/14/18 19:20	
Bromoform	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Bromomethane	ug/L	0.50 U	5.0	0.50	10/14/18 19:20	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	10/14/18 19:20	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Chloroethane	ug/L	0.50 U	10.0	0.50	10/14/18 19:20	
Chloroform	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Chloromethane	ug/L	0.62 U	1.0	0.62	10/14/18 19:20	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/14/18 19:20	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	10/14/18 19:20	
Dibromomethane	ug/L	0.50 U	2.0	0.50	10/14/18 19:20	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Iodomethane	ug/L	0.50 U	10.0	0.50	10/14/18 19:20	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	10/14/18 19:20	
Styrene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Toluene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/14/18 19:20	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	10/14/18 19:20	
Trichloroethene	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

METHOD BLANK: 2626688 Matrix: Water
Associated Lab Samples: 35422069001, 35422069002, 35422069003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	10/14/18 19:20	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	10/14/18 19:20	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	10/14/18 19:20	
1,2-Dichloroethane-d4 (S)	%	98	70-130		10/14/18 19:20	
4-Bromofluorobenzene (S)	%	103	70-130		10/14/18 19:20	
Toluene-d8 (S)	%	105	70-130		10/14/18 19:20	

LABORATORY CONTROL SAMPLE: 2626689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.2	91	70-130	
1,1,1-Trichloroethane	ug/L	20	17.5	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	68-125	
1,1,2-Trichloroethane	ug/L	20	19.9	100	70-130	
1,1-Dichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethene	ug/L	20	20.2	101	66-133	
1,2,3-Trichloropropane	ug/L	20	19.5	98	62-127	
1,2-Dichlorobenzene	ug/L	20	19.0	95	70-130	
1,2-Dichloroethane	ug/L	20	17.6	88	70-130	
1,2-Dichloropropane	ug/L	20	18.5	92	70-130	
1,4-Dichlorobenzene	ug/L	20	19.1	95	70-130	
2-Butanone (MEK)	ug/L	40	34.2	86	47-143	
2-Hexanone	ug/L	40	39.8	99	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	37.3	93	57-132	
Acetone	ug/L	40	35.5	89	46-148	
Acrylonitrile	ug/L	200	206	103	60-143	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	19.5	97	70-130	
Bromodichloromethane	ug/L	20	18.1	90	70-130	
Bromoform	ug/L	20	18.0	90	49-126	
Bromomethane	ug/L	20	19.9	100	10-165	
Carbon disulfide	ug/L	20	16.6	83	60-141	
Carbon tetrachloride	ug/L	20	18.4	92	63-126	
Chlorobenzene	ug/L	20	19.9	99	70-130	
Chloroethane	ug/L	20	31.1	156	71-142	J(L1)
Chloroform	ug/L	20	17.3	86	70-130	
Chloromethane	ug/L	20	14.7	73	40-140	
cis-1,2-Dichloroethene	ug/L	20	17.0	85	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.2	86	70-130	
Dibromochloromethane	ug/L	20	16.2	81	62-118	
Dibromomethane	ug/L	20	19.6	98	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Iodomethane	ug/L	40	9.6 I	24	10-164	

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(386)672-5668

QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

LABORATORY CONTROL SAMPLE: 2626689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.0	95	65-136	
Styrene	ug/L	20	19.5	97	70-130	
Tetrachloroethene	ug/L	20	20.1	100	64-134	
Toluene	ug/L	20	19.5	98	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.1	86	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.3	87	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	17.0	85	42-129	
Trichloroethene	ug/L	20	19.6	98	70-130	
Trichlorofluoromethane	ug/L	20	21.3	106	65-135	
Vinyl acetate	ug/L	20	19.5	97	60-144	
Vinyl chloride	ug/L	20	22.2	111	68-131	
Xylene (Total)	ug/L	60	56.1	93	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2627261

Parameter	Units	35423873003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	10.0	50	70-130	J(M1)
1,1,1-Trichloroethane	ug/L	0.50 U	20	11.7	59	70-130	J(M1)
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	11.6	58	68-125	J(M1)
1,1,2-Trichloroethane	ug/L	0.50 U	20	12.1	60	70-130	J(M1)
1,1-Dichloroethane	ug/L	0.50 U	20	12.3	62	70-130	J(M1)
1,1-Dichloroethene	ug/L	0.50 U	20	14.0	70	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	10.8	54	62-127	J(M1)
1,2-Dichlorobenzene	ug/L	0.50 U	20	11.9	60	70-130	J(M1)
1,2-Dichloroethane	ug/L	0.50 U	20	11.6	58	70-130	J(M1)
1,2-Dichloropropane	ug/L	0.50 U	20	11.7	59	70-130	J(M1)
1,4-Dichlorobenzene	ug/L	0.50 U	20	12.0	60	70-130	J(M1)
2-Butanone (MEK)	ug/L	5.0 U	40	24.5	61	47-143	
2-Hexanone	ug/L	5.0 U	40	28.2	71	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	26.0	65	57-132	
Acetone	ug/L	10.0 U	40	27.2	68	46-148	
Acrylonitrile	ug/L	5.0 U	200	152	76	60-143	
Benzene	ug/L	0.55 I	20	12.7	61	70-130	J(M1)
Bromochloromethane	ug/L	0.50 U	20	12.9	65	70-130	J(M1)
Bromodichloromethane	ug/L	0.71	20	11.9	56	70-130	J(M1)
Bromoform	ug/L	0.50 U	20	10.1	50	49-126	
Bromomethane	ug/L	0.50 U	20	17.6	88	10-165	
Carbon disulfide	ug/L	5.0 U	20	14.4	72	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	11.9	60	63-126	J(M1)
Chlorobenzene	ug/L	0.50 U	20	12.4	62	70-130	J(M1)
Chloroethane	ug/L	0.50 U	20	15.9	80	71-142	
Chloroform	ug/L	4.6	20	16.1	57	70-130	J(M1)

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

MATRIX SPIKE SAMPLE: 2627261

Parameter	Units	35423873003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	8.9	43	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	12.2	61	70-130	J(M1)
cis-1,3-Dichloropropene	ug/L	0.25 U	20	9.9	49	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	9.6	48	62-118	J(M1)
Dibromomethane	ug/L	0.50 U	20	11.7	59	70-130	J(M1)
Ethylbenzene	ug/L	6.8	20	18.9	61	70-130	J(M1)
Iodomethane	ug/L	0.50 U	40	3.0 I	8	10-164	J(M1)
Methylene Chloride	ug/L	2.5 U	20	11.2	56	65-136	J(M1)
Styrene	ug/L	0.50 U	20	12.0	60	70-130	J(M1)
Tetrachloroethene	ug/L	0.50 U	20	12.3	62	64-134	J(M1)
Toluene	ug/L	0.50 U	20	12.3	61	70-130	J(M1)
trans-1,2-Dichloroethene	ug/L	0.50 U	20	12.0	60	68-127	J(M1)
trans-1,3-Dichloropropene	ug/L	0.25 U	20	9.6	48	65-121	J(M1)
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	11.4	57	42-129	
Trichloroethene	ug/L	0.50 U	20	20.4	102	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	12.8	64	65-135	J(M1)
Vinyl acetate	ug/L	1.0 U	20	14.1	70	60-144	
Vinyl chloride	ug/L	0.50 U	20	13.8	69	68-131	
Xylene (Total)	ug/L	1.5 U	60	35.5	59	70-130	MS
1,2-Dichloroethane-d4 (S)	%				93	70-130	
4-Bromofluorobenzene (S)	%				106	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2627260

Parameter	Units	35423873002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	25.7	24.5	5	40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

SAMPLE DUPLICATE: 2627260

Parameter	Units	35423873002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	67.6	65.2	4	40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	13.3	13.5	2	40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	257	258	0	40	
1,2-Dichloroethane-d4 (S)	%	94	91	4	40	
4-Bromofluorobenzene (S)	%	108	109	1	40	
Toluene-d8 (S)	%	107	103	4	40	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 483508 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35422069001, 35422069002, 35422069004

METHOD BLANK: 2616370 | Matrix: Water
Associated Lab Samples: 35422069001, 35422069002, 35422069004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	10/09/18 01:05	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	10/09/18 01:05	

LABORATORY CONTROL SAMPLE: 2616371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.25	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	100	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2617124 2617125

Parameter	Units	35421718001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.52	0.49	119	111	60-140	7	40	
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	.44	.44	0.49	0.41	113	95	60-140	18	40	

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 484395
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2620559
Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	10/10/18 15:18	

LABORATORY CONTROL SAMPLE: 2620560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	90-110	

SAMPLE DUPLICATE: 2620561

Parameter	Units	35422044003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	213	0	5	

SAMPLE DUPLICATE: 2620562

Parameter	Units	35421419009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	628	624	1	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 485475 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2626742 | Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	10/15/18 09:54	
Sulfate	mg/L	2.5 U	5.0	2.5	10/15/18 09:54	

LABORATORY CONTROL SAMPLE: 2626743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.0	96	90-110	
Sulfate	mg/L	50	48.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626744 2626745

Parameter	Units	35421884001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	99.1	50	50	149	153	99	108	90-110	3	20	L
Sulfate	mg/L	9.9	50	50	52.7	56.7	86	93	90-110	7	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626746 2626747

Parameter	Units	35422125003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.8	50	50	51.4	52.4	91	93	90-110	2	20	
Sulfate	mg/L	2.5 U	50	50	47.0	48.0	89	91	90-110	2	20	J(M1)

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 483534 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2616606 | Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	10/06/18 12:08	

LABORATORY CONTROL SAMPLE: 2616607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	106	90-110	

MATRIX SPIKE SAMPLE: 2616609

Parameter	Units	35422361001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	1	1.5	147	90-110	J(M1)

SAMPLE DUPLICATE: 2616608

Parameter	Units	35422361001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.40		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 483473
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2616081
Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	10/05/18 17:59	

SAMPLE DUPLICATE: 2616083

Parameter	Units	35421998001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	2.0	2.1	9	20	

SAMPLE DUPLICATE: 2616085

Parameter	Units	35422095001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	2.8	2.7	2	20	

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project:	Central Cty
Pace Project No.:	35422069

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach
PASI-Tp	Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty
Pace Project No.: 35422069

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35422069001	**MW-16 (23032)**				
35422069002	**MW-17 (23033)**				
35422069001	**MW-16 (23032)**	EPA 8011	483508	EPA 8011	483847
35422069002	**MW-17 (23033)**	EPA 8011	483508	EPA 8011	483847
35422069004	**Trip Blank #2**	EPA 8011	483508	EPA 8011	483847
35422069001	**MW-16 (23032)**	EPA 3010	483216	EPA 6010	483221
35422069002	**MW-17 (23033)**	EPA 3010	483216	EPA 6010	483221
35422069001	**MW-16 (23032)**	EPA 3010	483215	EPA 6020	483222
35422069002	**MW-17 (23033)**	EPA 3010	483215	EPA 6020	483222
35422069001	**MW-16 (23032)**	EPA 7470	485692	EPA 7470	485966
35422069002	**MW-17 (23033)**	EPA 7470	485692	EPA 7470	485966
35422069001	**MW-16 (23032)**	EPA 8260	485456		
35422069002	**MW-17 (23033)**	EPA 8260	485456		
35422069003	**Trip Blank #1**	EPA 8260	485456		
35422069001	**MW-16 (23032)**	SM 2540C	484395		
35422069002	**MW-17 (23033)**	SM 2540C	484395		
35422069001	**MW-16 (23032)**	EPA 300.0	485475		
35422069002	**MW-17 (23033)**	EPA 300.0	485475		
35422069001	**MW-16 (23032)**	EPA 350.1	483534		
35422069002	**MW-17 (23033)**	EPA 350.1	483534		
35422069001	**MW-16 (23032)**	EPA 353.2	483473		
35422069002	**MW-17 (23033)**	EPA 353.2	483473		

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CHAIN-OF-CUSTODY / Analytical Reques

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fiel

WO# : 35422069

35422069

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Sarasota County	Report To:	Mr. Cesar Rodriguez	Attention:	
Address:	1255 T. Mabry Carlton Parkway	Copy To:		Company Name:	
Venice, FL 34292				Address:	
Email:		Purchase Order #:	180736	Pace Quote:	
Phone:	941-650-9834 Fax:	Project Name:	Central Cty MW wells Appdx 1	Pace Project Manager:	martha.montero@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	833 #1

Regulatory Agency

State / Location: FL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): VOC by 8260	EDB and DBCP EPA 8011	NH3	metals by 6010/6020/7470 Fe,Hg,Na,Mn	TDS NO3 Cl SO4	Residual Chlorine (Y/N)	
1	~~MW-1R (20585)~~	WT																3	2	1	1	1		Please use ADAPT, analyze all compounds on App 1
2	~~MW-8A (21453)~~	WT																3	2	1	1	1		
3	~~MW-9 (4509)~~	WT																3	2	1	1	1		
4	~~MW-10R (4510)~~	WT																3	2	1	1	1		
5	~~MW-15 (23031)~~	WT																3	2	1	1	1		
6	MW-16 (23032)	WT		10/4/18	1230													3	2	1	1	1		
7	MW-17 (23033)	WT		10/4/18	1020													3	2	1	1	1		
8	~~MW-18R (29095)~~	WT																3	2	1	1	1		
9	~~MW-19A(27140)~~	WT																3	2	1	1	1		
10	~~MW-20A (27141)~~	WT																3	2	1	1	1		
11	~~field blank~~	WT																3	2	1	1	1		
12	~~dup #1~~	WT																3	2	1	1	1		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Central county Monitoring wells Adapt		10/4/18	1415	Pace	10/4/18	1430	TW3			
		10/4/18	1610	Pace	10/4/18	1610	2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alison Eggleston

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Sarasota County	Report To:	Mr. Cesar Rodriguez	Attention:	
Address:	1255 T. Mabry Carlton Parkway	Copy To:		Company Name:	
Venice, FL 34292				Address:	
Email:		Purchase Order #:	180736	Pace Quote:	
Phone:	941-650-9834 Fax:	Project Name:	Central Cty MW wells Appdx 1	Pace Project Manager:	martha.montero@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	833 #1

Regulatory Agency	
State / Location	FL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOC by 8260 (HCL)	EDB and DBCP EPA 8011 (Unpreserved)	NH3 (H2SO4)	metals by 6010/6020/7470 Fe,Hg,Na,Mn (HNO3)	TDS NO3 Cl SO4 (Unpreserved)	Residual Chlorine (Y/N)	
13	~~MW-3 4503~~ OE	WT																	3	2	1	1	1			Please use ADAPT, analyze all compounds on App 1
14	~~MW-5 4505~~ OE	WT																	3	2	1	1	1			
15	~~Trip Blank 8260 #1~~ OE	WT		10/4/18 OE															2							
16	Trip Blank 8260 #2	WT		10/4/18															2							
17	~~Trip Blank 8260 #3~~ OE	WT																	2							
18	~~Trip Blank 8260 #4~~ OE	WT																	2							
19	~~Trip Blank 8011 #1~~ OE	WT																		2						
20	Trip Blank 8011 #2	WT		10/4/18																2						
21	~~Trip Blank 8011 #3~~ OE	WT																		2						
22	~~Trip Blank 8011 $3~~ OE	WT																		2						
23		WT																								
24		WT																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Central county Monitoring wells Adapt	[signature]	10/4/18	1415	[signature]	10/4/18	1430	TBD			
	[signature]	10/4/18	1610	[signature]	10/4/18	1610	2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Alison Eggleston				
SIGNATURE of SAMPLER:	DATE Signed:				

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35422069

Project Manager: PM: MIM Due Date: 10/18/18

Client: CLIENT: SARCOU

Date and Initials of person:
Examining contents: CMG
Label: 10/4/18
Deliver:
pH: CMG

Thermometer Used: T-203 Date: 10/4/18 Time: 1610 Initials: MVL

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	2.1 (Visual)	0.0 (Correction Factor)	2.1 (Actual)	☒ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ 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:

Chain of Custody Present	☑ Yes	☐ No	☐ N/A	
Chain of Custody Filled Out	☑ Yes	☐ No	☐ N/A	
Relinquished Signature & Sampler Name COC	☐ Yes	☑ No	☐ N/A	No Sampler Name
Samples Arrived within Hold Time	☑ Yes	☐ No	☐ N/A	
Rush TAT requested on COC	☐ Yes	☑ No	☐ N/A	
Sufficient Volume	☑ Yes	☐ No	☐ N/A	
Correct Containers Used	☑ Yes	☐ No	☐ N/A	
Containers Intact	☑ Yes	☐ No	☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes	☐ No	☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes	☐ No	☐ N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes	☐ No	☐ N/A	
Headspace in VOA Vials? (>6mm):	☑ Yes	☐ No	☐ N/A	2/2 Trip Blank vials
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 14, 2018

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

REVIEWED
By Cesar Rodriguez-Palacios at 1:24 pm, Jan 08, 2019

RE: Project: Surface Central County Solid W
Pace Project No.: 35427487

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 31, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County

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Ormond Beach, FL 32174
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CERTIFICATIONS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Surface Central County Solid W
Pace Project No.: 35427487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35427487001	**(28824) Pond -1**	Water	10/31/18 10:15	10/31/18 14:40
35427487002	**(28825) Pond -2**	Water	10/31/18 09:10	10/31/18 14:40
35427487003	**Duplicate**	Water	10/31/18 10:15	10/31/18 14:40
35427487004	**Field Blank**	Water	10/31/18 09:00	10/31/18 14:40
35427487005	**8260 Trip Blank**	Water	10/31/18 09:00	10/31/18 14:40
35427487006	**8011 Trip Blank**	Water	10/31/18 09:00	10/31/18 14:40

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Surface Central County Solid W
Pace Project No.: 35427487

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35427487001	**(28824) Pond -1**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	10	PASI-O
		EPA 6020	FDV, KPP	8	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		SM 2540D	LF	1	PASI-Tp
		EPA 1631E	CLG	1	PASI-Tp
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	SEW	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	SEW	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35427487002	**(28825) Pond -2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	10	PASI-O
		EPA 6020	FDV, KPP	8	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		SM 2540D	LF	1	PASI-Tp
		EPA 1631E	CLG	1	PASI-Tp
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	SEW	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	SEW	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35427487003	**Duplicate**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	10	PASI-O
		EPA 6020	FDV	8	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Surface Central County Solid W
Pace Project No.: 35427487

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540D	LF	1	PASI-Tp
		EPA 1631E	CLG	1	PASI-Tp
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	SEW	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	SEW	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35427487004	**Field Blank**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	10	PASI-O
		EPA 6020	FDV	8	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		SM 2540D	LF	1	PASI-Tp
		EPA 1631E	CLG	1	PASI-Tp
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	SEW	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	SEW	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35427487005	**8260 Trip Blank**	EPA 8260	SK1	48	PASI-O
35427487006	**8011 Trip Blank**	EPA 8011	SMH	2	PASI-O

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ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: (28824) Pond -1 **Lab ID: 35427487001** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.01**	Std. Units			1		10/31/18 10:15		
Field Temperature	**21.35**	deg C			1		10/31/18 10:15		
Field Specific Conductance	**282**	umhos/cm			1		10/31/18 10:15		
Oxygen, Dissolved	**2.81**	mg/L			1		10/31/18 10:15	7782-44-7	
Turbidity	**2.22**	NTU			1		10/31/18 10:15		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/05/18 09:57	11/06/18 08:11	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/05/18 09:57	11/06/18 08:11	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**5.5 U**	ug/L	15.0	5.5	1	11/06/18 01:22	11/06/18 17:14	7440-36-0	
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/06/18 01:22	11/06/18 17:14	7440-38-2	
Barium	**17.3**	ug/L	10.0	0.84	1	11/06/18 01:22	11/06/18 17:14	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/06/18 01:22	11/06/18 17:14	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/06/18 01:22	11/06/18 17:14	7440-48-4	
Iron	**137**	ug/L	40.0	9.2	1	11/06/18 01:22	11/06/18 17:14	7439-89-6	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/06/18 01:22	11/06/18 17:14	7440-02-0	
Sodium	**6.1**	mg/L	2.0	0.27	1	11/06/18 01:22	11/06/18 17:14	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**138**	mg/L		0.51	1	11/06/18 01:22	11/06/18 17:14		
Vanadium	**1.8 I**	ug/L	10.0	1.0	1	11/06/18 01:22	11/06/18 17:14	7440-62-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Beryllium	**0.050 U**	ug/L	0.10	0.050	1	11/06/18 01:18	11/06/18 10:59	7440-41-7	
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/06/18 01:18	11/06/18 07:16	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/06/18 01:18	11/06/18 07:16	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/06/18 01:18	11/06/18 07:16	7439-92-1	
Selenium	**0.50 U**	ug/L	1.0	0.50	1	11/06/18 01:18	11/06/18 10:59	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/06/18 01:18	11/06/18 07:16	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/06/18 01:18	11/06/18 07:16	7440-28-0	
Zinc	**2.5 U**	ug/L	5.0	2.5	1	11/10/18 01:20	11/10/18 15:35	7440-66-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/09/18 05:18	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:18	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/09/18 05:18	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/09/18 05:18	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/09/18 05:18	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:18	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:18	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/09/18 05:18	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/18 05:18	75-00-3	

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8 East Tower Circle
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(386)672-5668

ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: (28824) Pond -1 **Lab ID: 35427487001** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/09/18 05:18	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/09/18 05:18	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/09/18 05:18	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:18	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/18 05:18	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/18 05:18	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:18	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/18 05:18	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/09/18 05:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:18	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/09/18 05:18	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/09/18 05:18	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/09/18 05:18	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:18	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/09/18 05:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/09/18 05:18	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/09/18 05:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/09/18 05:18	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**194**	mg/L	5.0	5.0	1		11/02/18 15:00		
2540D Total Susp. Solids Tampa	Analytical Method: SM 2540D								
Total Suspended Solids	**7.0**	mg/L	5.0	5.0	1		11/06/18 10:30		
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.458 I**	ng/L	0.50	0.25	1	11/05/18 14:15	11/06/18 13:23	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: (28824) Pond -1 **Lab ID: 35427487001** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**2.0 U**	mg/L	2.0	2.0	1	11/01/18 11:05	11/06/18 17:22		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**2.2 U**	ug/L	5.0	2.2	1	11/01/18 10:20	11/06/18 16:30		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.74**	mg/L	0.50	0.086	1		11/13/18 16:06		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/03/18 11:18	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.74**	mg/L	0.50	0.086	1	11/12/18 10:17	11/13/18 09:59	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.033 U**	mg/L	0.050	0.033	1		11/01/18 07:52		
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/01/18 07:52	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.050 U**	mg/L	0.10	0.050	1	11/12/18 10:17	11/13/18 09:59	7723-14-0	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**11.8**	mg/L	1.0	0.50	1		11/08/18 01:51	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.020 U**	mg/L	0.020	0.020	1		11/13/18 12:00		

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ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: (28825) Pond -2 **Lab ID: 35427487002** Collected: 10/31/18 09:10 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**7.38**	Std. Units			1		10/31/18 09:10		
Field Temperature	**22.93**	deg C			1		10/31/18 09:10		
Field Specific Conductance	**290**	umhos/cm			1		10/31/18 09:10		
Oxygen, Dissolved	**3.58**	mg/L			1		10/31/18 09:10	7782-44-7	
Turbidity	**5.74**	NTU			1		10/31/18 09:10		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/05/18 09:57	11/06/18 08:26	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/05/18 09:57	11/06/18 08:26	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**5.5 U**	ug/L	15.0	5.5	1	11/06/18 01:22	11/06/18 17:26	7440-36-0	
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/06/18 01:22	11/06/18 17:26	7440-38-2	
Barium	**17.1**	ug/L	10.0	0.84	1	11/06/18 01:22	11/06/18 17:26	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/06/18 01:22	11/06/18 17:26	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/06/18 01:22	11/06/18 17:26	7440-48-4	
Iron	**146**	ug/L	40.0	9.2	1	11/06/18 01:22	11/06/18 17:26	7439-89-6	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/06/18 01:22	11/06/18 17:26	7440-02-0	
Sodium	**7.8**	mg/L	2.0	0.27	1	11/06/18 01:22	11/06/18 17:26	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**134**	mg/L		0.51	1	11/06/18 01:22	11/06/18 17:26		
Vanadium	**6.1 I**	ug/L	10.0	1.0	1	11/06/18 01:22	11/06/18 17:26	7440-62-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Beryllium	**0.050 U**	ug/L	0.10	0.050	1	11/06/18 01:18	11/06/18 11:00	7440-41-7	
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/06/18 01:18	11/06/18 07:18	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/06/18 01:18	11/06/18 07:18	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/06/18 01:18	11/06/18 07:18	7439-92-1	
Selenium	**0.77 I**	ug/L	1.0	0.50	1	11/06/18 01:18	11/06/18 11:00	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/06/18 01:18	11/06/18 07:18	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/06/18 01:18	11/06/18 07:18	7440-28-0	
Zinc	**5.9**	ug/L	5.0	2.5	1	11/10/18 01:20	11/10/18 15:37	7440-66-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/09/18 05:43	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:43	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/09/18 05:43	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/09/18 05:43	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/09/18 05:43	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:43	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:43	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/09/18 05:43	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/18 05:43	75-00-3	

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ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: (28825) Pond -2 **Lab ID: 35427487002** Collected: 10/31/18 09:10 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/09/18 05:43	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/09/18 05:43	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/09/18 05:43	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:43	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/18 05:43	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/18 05:43	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:43	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/18 05:43	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/09/18 05:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 05:43	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/09/18 05:43	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/09/18 05:43	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/09/18 05:43	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 05:43	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/09/18 05:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/09/18 05:43	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/09/18 05:43	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/09/18 05:43	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**211**	mg/L	5.0	5.0	1		11/02/18 15:01		
2540D Total Susp. Solids Tampa	Analytical Method: SM 2540D								
Total Suspended Solids	**9.0**	mg/L	5.0	5.0	1		11/06/18 10:30		
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.76**	ng/L	0.50	0.25	1	11/05/18 14:15	11/06/18 13:28	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: (28825) Pond -2 **Lab ID: 35427487002** Collected: 10/31/18 09:10 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**2.0 U**	mg/L	2.0	2.0	1	11/01/18 11:05	11/06/18 17:22		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**17.3**	ug/L	6.8	3.0	1	11/01/18 10:20	11/06/18 16:32		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.82**	mg/L	0.50	0.086	1		11/13/18 16:06		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/03/18 11:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.82**	mg/L	0.50	0.086	1	11/12/18 10:17	11/13/18 10:00	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.033 U**	mg/L	0.050	0.033	1		11/01/18 07:50		
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/01/18 07:50	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.050 U**	mg/L	0.10	0.050	1	11/12/18 10:17	11/13/18 10:00	7723-14-0	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**12.1**	mg/L	1.0	0.50	1		11/08/18 02:03	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.020 U**	mg/L	0.020	0.020	1		11/13/18 12:00		

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ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: Duplicate **Lab ID: 35427487003** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.01**	Std. Units			1		10/31/18 10:15		
Field Temperature	**21.35**	deg C			1		10/31/18 10:15		
Field Specific Conductance	**282**	umhos/cm			1		10/31/18 10:15		
Oxygen, Dissolved	**2.81**	mg/L			1		10/31/18 10:15	7782-44-7	
Turbidity	**2.22**	NTU			1		10/31/18 10:15		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/05/18 09:57	11/06/18 08:42	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/05/18 09:57	11/06/18 08:42	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**5.5 U**	ug/L	15.0	5.5	1	11/02/18 01:33	11/05/18 10:51	7440-36-0	
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/02/18 01:33	11/05/18 10:51	7440-38-2	
Barium	**19.5**	ug/L	10.0	0.84	1	11/02/18 01:33	11/05/18 10:51	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/02/18 01:33	11/05/18 10:51	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/02/18 01:33	11/05/18 10:51	7440-48-4	
Iron	**301**	ug/L	40.0	9.2	1	11/02/18 01:33	11/05/18 10:51	7439-89-6	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/02/18 01:33	11/05/18 10:51	7440-02-0	
Sodium	**6.5**	mg/L	2.0	0.27	1	11/02/18 01:33	11/05/18 10:51	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**144**	mg/L		0.51	1	11/02/18 01:33	11/05/18 10:51		
Vanadium	**2.4 I**	ug/L	10.0	1.0	1	11/02/18 01:33	11/05/18 10:51	7440-62-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Beryllium	**0.050 U**	ug/L	0.10	0.050	1	11/02/18 01:31	11/02/18 11:19	7440-41-7	
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/02/18 01:31	11/02/18 11:19	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/02/18 01:31	11/02/18 11:19	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/02/18 01:31	11/02/18 11:19	7439-92-1	
Selenium	**0.50 U**	ug/L	1.0	0.50	1	11/02/18 01:31	11/02/18 11:19	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/02/18 01:31	11/02/18 11:19	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/02/18 01:31	11/02/18 11:19	7440-28-0	
Zinc	**3.3 I**	ug/L	5.0	2.5	1	11/02/18 01:31	11/02/18 11:19	7440-66-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/09/18 06:07	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:07	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/09/18 06:07	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/09/18 06:07	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/09/18 06:07	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:07	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:07	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/09/18 06:07	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/18 06:07	75-00-3	

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(386)672-5668

ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: Duplicate **Lab ID: 35427487003** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/09/18 06:07	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/09/18 06:07	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/09/18 06:07	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:07	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/18 06:07	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/18 06:07	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:07	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/18 06:07	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/09/18 06:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:07	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/09/18 06:07	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/09/18 06:07	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/09/18 06:07	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:07	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/09/18 06:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/09/18 06:07	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/09/18 06:07	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/09/18 06:07	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**181**	mg/L	5.0	5.0	1		11/05/18 14:00		
2540D Total Susp. Solids Tampa	Analytical Method: SM 2540D								
Total Suspended Solids	**16.0**	mg/L	5.0	5.0	1		11/06/18 10:31		
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.70**	ng/L	0.50	0.25	1	11/05/18 14:15	11/06/18 13:33	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
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ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: Duplicate **Lab ID: 35427487003** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**2.0 U**	mg/L	2.0	2.0	1	11/01/18 11:06	11/06/18 17:23		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**2.5 I**	ug/L	5.0	2.2	1	11/01/18 11:20	11/06/18 16:34		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.79**	mg/L	0.50	0.086	1		11/13/18 16:06		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/03/18 11:22	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.79**	mg/L	0.50	0.086	1	11/12/18 10:17	11/13/18 10:04	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.033 U**	mg/L	0.050	0.033	1		11/01/18 07:54		
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/01/18 07:54	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.050 U**	mg/L	0.10	0.050	1	11/12/18 10:17	11/13/18 10:04	7723-14-0	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**12.0**	mg/L	1.0	0.50	1		11/08/18 02:15	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.020 U**	mg/L	0.020	0.020	1		11/13/18 12:00		

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ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: Field Blank **Lab ID: 35427487004** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/05/18 09:57	11/06/18 08:56	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0097	0.0072	1	11/05/18 09:57	11/06/18 08:56	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**5.5 U**	ug/L	15.0	5.5	1	11/02/18 01:33	11/05/18 10:54	7440-36-0	
Arsenic	**7.1 U**	ug/L	10.0	7.1	1	11/02/18 01:33	11/05/18 10:54	7440-38-2	
Barium	**0.84 U**	ug/L	10.0	0.84	1	11/02/18 01:33	11/05/18 10:54	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/02/18 01:33	11/05/18 10:54	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/02/18 01:33	11/05/18 10:54	7440-48-4	
Iron	**9.2 U**	ug/L	40.0	9.2	1	11/02/18 01:33	11/05/18 10:54	7439-89-6	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/02/18 01:33	11/05/18 10:54	7440-02-0	
Sodium	**0.27 U**	mg/L	2.0	0.27	1	11/02/18 01:33	11/05/18 10:54	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**0.51 U**	mg/L		0.51	1	11/02/18 01:33	11/05/18 10:54		
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/02/18 01:33	11/05/18 10:54	7440-62-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Beryllium	**0.050 U**	ug/L	0.10	0.050	1	11/02/18 01:31	11/02/18 11:21	7440-41-7	
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/02/18 01:31	11/02/18 11:21	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/02/18 01:31	11/02/18 11:21	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/02/18 01:31	11/02/18 11:21	7439-92-1	
Selenium	**0.50 U**	ug/L	1.0	0.50	1	11/02/18 01:31	11/02/18 11:21	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/02/18 01:31	11/02/18 11:21	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/02/18 01:31	11/02/18 11:21	7440-28-0	
Zinc	**2.5 U**	ug/L	5.0	2.5	1	11/02/18 01:31	11/02/18 11:21	7440-66-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/09/18 06:32	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:32	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/09/18 06:32	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/09/18 06:32	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/09/18 06:32	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:32	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:32	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/09/18 06:32	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/18 06:32	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/09/18 06:32	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/09/18 06:32	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/09/18 06:32	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:32	110-57-6	

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: Field Blank **Lab ID: 35427487004** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/18 06:32	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/18 06:32	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:32	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/18 06:32	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/09/18 06:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:32	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/09/18 06:32	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/09/18 06:32	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/09/18 06:32	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:32	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/09/18 06:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/09/18 06:32	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/09/18 06:32	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/09/18 06:32	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		11/05/18 14:01		
2540D Total Susp. Solids Tampa	Analytical Method: SM 2540D								
Total Suspended Solids	**5.0 U**	mg/L	5.0	5.0	1		11/06/18 10:31		
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.25 U**	ng/L	0.50	0.25	1	11/05/18 14:15	11/06/18 11:53	7439-97-6	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**2.0 U**	mg/L	2.0	2.0	1	11/01/18 11:07	11/06/18 17:23		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**2.2 U**	ug/L	5.0	2.2	1	11/01/18 12:44	11/06/18 16:38		

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(386)672-5668

ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: Field Blank **Lab ID: 35427487004** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.086 U**	mg/L	0.50	0.086	1		11/13/18 16:06		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/03/18 11:24	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.086 U**	mg/L	0.50	0.086	1	11/12/18 10:17	11/13/18 10:05	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.033 U**	mg/L	0.050	0.033	1		11/01/18 07:46		
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/01/18 07:46	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.050 U**	mg/L	0.10	0.050	1	11/12/18 10:17	11/13/18 10:05	7723-14-0	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.50 U**	mg/L	1.0	0.50	1		11/08/18 02:26	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.020 U**	mg/L	0.020	0.020	1		11/13/18 12:00		

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ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: 8260 Trip Blank **Lab ID: 35427487005** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/09/18 06:57	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:57	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/09/18 06:57	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/09/18 06:57	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/09/18 06:57	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:57	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:57	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/09/18 06:57	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/18 06:57	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/09/18 06:57	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/09/18 06:57	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/09/18 06:57	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:57	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/18 06:57	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/09/18 06:57	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:57	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/09/18 06:57	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/09/18 06:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/09/18 06:57	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/09/18 06:57	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/09/18 06:57	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/09/18 06:57	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/09/18 06:57	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/09/18 06:57	1330-20-7	

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ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: 8260 Trip Blank **Lab ID: 35427487005** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/09/18 06:57	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/09/18 06:57	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/09/18 06:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

Sample: 8011 Trip Blank **Lab ID: 35427487006** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/05/18 09:57	11/06/18 09:26	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/05/18 09:57	11/06/18 09:26	106-93-4	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490396 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35427487003, 35427487004

METHOD BLANK: 2652412 | Matrix: Water
Associated Lab Samples: 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	5.5 U	15.0	5.5	11/05/18 09:46	
Arsenic	ug/L	7.1 U	10.0	7.1	11/05/18 09:46	
Barium	ug/L	0.84 U	10.0	0.84	11/05/18 09:46	
Chromium	ug/L	1.7 U	5.0	1.7	11/05/18 09:46	
Cobalt	ug/L	0.96 U	10.0	0.96	11/05/18 09:46	
Iron	ug/L	9.2 U	40.0	9.2	11/05/18 09:46	
Nickel	ug/L	2.1 U	5.0	2.1	11/05/18 09:46	
Sodium	mg/L	0.27 U	2.0	0.27	11/05/18 09:46	
Tot Hardness asCaCO3 (SM 2340B	mg/L	0.51 U		0.51	11/05/18 09:46	
Vanadium	ug/L	1.0 U	10.0	1.0	11/05/18 09:46	

LABORATORY CONTROL SAMPLE: 2652413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	277	111	80-120	
Arsenic	ug/L	250	265	106	80-120	
Barium	ug/L	250	272	109	80-120	
Chromium	ug/L	250	274	110	80-120	
Cobalt	ug/L	250	273	109	80-120	
Iron	ug/L	2500	2710	108	80-120	
Nickel	ug/L	250	277	111	80-120	
Sodium	mg/L	12.5	13.6	109	80-120	
Tot Hardness asCaCO3 (SM 2340B	mg/L	82.7	88.8	107	80-120	
Vanadium	ug/L	250	271	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2652414 2652415

Parameter	Units	35426564001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	5.5 U	250	250	289	289	115	114	75-125	0	20	
Arsenic	ug/L	7.1 U	250	250	282	283	111	111	75-125	0	20	
Barium	ug/L	23.1	250	250	296	300	109	111	75-125	1	20	
Chromium	ug/L	1.7 U	250	250	274	276	110	111	75-125	1	20	
Cobalt	ug/L	0.96 U	250	250	274	277	110	111	75-125	1	20	
Iron	ug/L	737	2500	2500	3450	3500	108	111	75-125	2	20	
Nickel	ug/L	2.1 U	250	250	277	280	110	111	75-125	1	20	
Sodium	mg/L	161000 ug/L	12.5	12.5	173	174	101	107	75-125	0	20	

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(386)672-5668

QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2652414 2652415

Parameter	Units	35426564001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tot Hardness asCaCO3 (SM 2340B	mg/L	526000	82.7	82.7	617	621	111	115	75-125	1	20	
Vanadium	ug/L	1.0 U	250	250	278	281	111	112	75-125	1	20	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491203 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 35427487001, 35427487002

METHOD BLANK: 2656424 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	5.5 U	15.0	5.5	11/06/18 17:09	
Arsenic	ug/L	7.1 U	10.0	7.1	11/06/18 17:09	
Barium	ug/L	0.84 U	10.0	0.84	11/06/18 17:09	
Chromium	ug/L	1.7 U	5.0	1.7	11/06/18 17:09	
Cobalt	ug/L	0.96 U	10.0	0.96	11/06/18 17:09	
Iron	ug/L	9.2 U	40.0	9.2	11/06/18 17:09	
Nickel	ug/L	2.1 U	5.0	2.1	11/06/18 17:09	
Sodium	mg/L	0.27 U	2.0	0.27	11/06/18 17:09	
Tot Hardness asCaCO3 (SM 2340B	mg/L	0.51 U		0.51	11/06/18 17:09	
Vanadium	ug/L	1.0 U	10.0	1.0	11/06/18 17:09	

LABORATORY CONTROL SAMPLE: 2656425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	269	108	80-120	
Arsenic	ug/L	250	258	103	80-120	
Barium	ug/L	250	264	106	80-120	
Chromium	ug/L	250	264	106	80-120	
Cobalt	ug/L	250	268	107	80-120	
Iron	ug/L	2500	2640	105	80-120	
Nickel	ug/L	250	267	107	80-120	
Sodium	mg/L	12.5	13.1	105	80-120	
Tot Hardness asCaCO3 (SM 2340B	mg/L	82.7	87.0	105	80-120	
Vanadium	ug/L	250	264	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2656426 2656427

Parameter	Units	35427487001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	5.5 U	250	250	270	265	107	106	75-125	2	20	
Arsenic	ug/L	7.1 U	250	250	261	261	101	101	75-125	0	20	
Barium	ug/L	17.3	250	250	283	281	106	105	75-125	1	20	
Chromium	ug/L	1.7 U	250	250	267	264	107	106	75-125	1	20	
Cobalt	ug/L	0.96 U	250	250	272	271	109	108	75-125	1	20	
Iron	ug/L	137	2500	2500	2860	2870	109	109	75-125	0	20	
Nickel	ug/L	2.1 U	250	250	270	267	108	107	75-125	1	20	
Sodium	mg/L	6.1	12.5	12.5	19.7	19.7	109	109	75-125	0	20	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2656426 2656427

Parameter	Units	35427487001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tot Hardness asCaCO3 (SM 2340B	mg/L	138	82.7	82.7	228	225	108	105	75-125	1	20	
Vanadium	ug/L	1.8 I	250	250	269	267	107	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490395 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35427487003, 35427487004

METHOD BLANK: 2652408 | Matrix: Water
Associated Lab Samples: 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Beryllium	ug/L	0.050 U	0.10	0.050	11/03/18 11:50	
Cadmium	ug/L	0.050 U	0.10	0.050	11/03/18 11:50	
Copper	ug/L	0.93 U	1.0	0.93	11/03/18 11:50	
Lead	ug/L	0.50 U	1.0	0.50	11/03/18 11:50	
Selenium	ug/L	0.50 U	1.0	0.50	11/03/18 11:50	
Silver	ug/L	0.050 U	0.10	0.050	11/02/18 11:39	
Thallium	ug/L	0.50 U	1.0	0.50	11/03/18 11:50	
Zinc	ug/L	2.5 U	5.0	2.5	11/03/18 11:50	

LABORATORY CONTROL SAMPLE: 2652409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	5	5.1	103	80-120	
Cadmium	ug/L	5	4.9	98	80-120	
Copper	ug/L	50	48.6	97	80-120	
Lead	ug/L	50	50.5	101	80-120	
Selenium	ug/L	50	48.5	97	80-120	
Silver	ug/L	5	5.0	101	80-120	
Thallium	ug/L	50	50.6	101	80-120	
Zinc	ug/L	250	241	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2652410 2652411

Parameter	Units	35427207002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	ug/L	0.050 U	5	5	8.9	8.0	179	160	75-125	11	20	J(IS), J(M1)
Cadmium	ug/L	0.050 U	5	5	4.8	4.8	95	95	75-125	0	20	
Copper	ug/L	0.93 U	50	50	47.1	47.0	94	94	75-125	0	20	
Lead	ug/L	0.50 U	50	50	49.9	49.3	100	99	75-125	1	20	
Selenium	ug/L	0.78 I	50	50	47.6	47.1	94	93	75-125	1	20	
Silver	ug/L	0.050 U	5	5	5.0	4.9	100	99	75-125	1	20	
Thallium	ug/L	0.50 U	50	50	50.4	50.1	100	100	75-125	1	20	
Zinc	ug/L	2.5 U	250	250	235	233	93	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491202 | Analysis Method: EPA 6020
QC Batch Method: EPA 3010 | Analysis Description: 6020 MET
Associated Lab Samples: 35427487001, 35427487002

METHOD BLANK: 2656420 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Beryllium	ug/L	0.050 U	0.10	0.050	11/06/18 10:52	
Cadmium	ug/L	0.050 U	0.10	0.050	11/06/18 07:12	
Copper	ug/L	0.93 U	1.0	0.93	11/06/18 07:12	
Lead	ug/L	0.50 U	1.0	0.50	11/06/18 07:12	
Selenium	ug/L	0.50 U	1.0	0.50	11/06/18 10:52	
Silver	ug/L	0.050 U	0.10	0.050	11/06/18 07:12	
Thallium	ug/L	0.50 U	1.0	0.50	11/06/18 07:12	

LABORATORY CONTROL SAMPLE: 2656421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	5	4.4	88	80-120	
Cadmium	ug/L	5	4.9	98	80-120	
Copper	ug/L	50	48.4	97	80-120	
Lead	ug/L	50	49.6	99	80-120	
Selenium	ug/L	50	49.0	98	80-120	
Silver	ug/L	5	4.9	98	80-120	
Thallium	ug/L	50	48.7	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2656422 2656423

Parameter	Units	35427487002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	ug/L	0.050 U	5	5	5.0	4.6	99	91	75-125	9	20	
Cadmium	ug/L	0.050 U	5	5	4.9	4.9	97	98	75-125	1	20	
Copper	ug/L	0.93 U	50	50	47.6	47.0	95	94	75-125	1	20	
Lead	ug/L	0.50 U	50	50	48.8	48.2	97	96	75-125	1	20	
Selenium	ug/L	0.77 I	50	50	49.9	49.3	98	97	75-125	1	20	
Silver	ug/L	0.050 U	5	5	4.9	4.9	97	97	75-125	0	20	
Thallium	ug/L	0.50 U	50	50	47.7	47.4	95	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 492684
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Associated Lab Samples: 35427487001, 35427487002

METHOD BLANK: 2664853
Matrix: Water
Associated Lab Samples: 35427487001, 35427487002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Zinc	ug/L	2.5 U	5.0	2.5	11/10/18 15:28	

LABORATORY CONTROL SAMPLE: 2664854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Zinc	ug/L	250	260	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2664855 2664856

Parameter	Units	35421419011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Zinc	ug/L	4.1 I	250	250	244	249	96	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 492338 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004, 35427487005

METHOD BLANK: 2662565 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004, 35427487005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/09/18 00:24	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/09/18 00:24	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/09/18 00:24	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/09/18 00:24	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/09/18 00:24	
Acetone	ug/L	10.0 U	20.0	10.0	11/09/18 00:24	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/09/18 00:24	
Benzene	ug/L	0.10 U	1.0	0.10	11/09/18 00:24	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/09/18 00:24	
Bromoform	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/09/18 00:24	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/09/18 00:24	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/09/18 00:24	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/09/18 00:24	
Chloroform	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/09/18 00:24	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/09/18 00:24	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/09/18 00:24	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/09/18 00:24	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/09/18 00:24	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/09/18 00:24	
Styrene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
Toluene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/09/18 00:24	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/09/18 00:24	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

METHOD BLANK: 2662565 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004, 35427487005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/09/18 00:24	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/09/18 00:24	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	11/09/18 00:24	
1,2-Dichloroethane-d4 (S)	%	100	70-130		11/09/18 00:24	
4-Bromofluorobenzene (S)	%	107	70-130		11/09/18 00:24	
Toluene-d8 (S)	%	101	70-130		11/09/18 00:24	

LABORATORY CONTROL SAMPLE: 2662566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,1-Trichloroethane	ug/L	20	19.2	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	16.0	80	68-125	
1,1,2-Trichloroethane	ug/L	20	17.8	89	70-130	
1,1-Dichloroethane	ug/L	20	19.0	95	70-130	
1,1-Dichloroethene	ug/L	20	19.9	99	66-133	
1,2,3-Trichloropropane	ug/L	20	17.0	85	62-127	
1,2-Dichlorobenzene	ug/L	20	17.9	89	70-130	
1,2-Dichloroethane	ug/L	20	16.8	84	70-130	
1,2-Dichloropropane	ug/L	20	18.2	91	70-130	
1,4-Dichlorobenzene	ug/L	20	18.0	90	70-130	
2-Butanone (MEK)	ug/L	40	33.6	84	47-143	
2-Hexanone	ug/L	40	29.7	74	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	30.1	75	57-132	
Acetone	ug/L	40	30.9	77	46-148	
Acrylonitrile	ug/L	200	180	90	60-143	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	18.4	92	70-130	
Bromodichloromethane	ug/L	20	17.7	89	70-130	
Bromoform	ug/L	20	16.4	82	49-126	
Bromomethane	ug/L	20	29.5	147	10-165	
Carbon disulfide	ug/L	20	18.9	95	60-141	
Carbon tetrachloride	ug/L	20	19.6	98	63-126	
Chlorobenzene	ug/L	20	18.6	93	70-130	
Chloroethane	ug/L	20	20.3	101	71-142	
Chloroform	ug/L	20	18.8	94	70-130	
Chloromethane	ug/L	20	20.4	102	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Dibromochloromethane	ug/L	20	18.3	92	62-118	
Dibromomethane	ug/L	20	18.4	92	70-130	
Ethylbenzene	ug/L	20	18.8	94	70-130	
Iodomethane	ug/L	40	37.5	94	10-164	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

LABORATORY CONTROL SAMPLE: 2662566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	18.6	93	65-136	
Styrene	ug/L	20	18.8	94	70-130	
Tetrachloroethene	ug/L	20	18.6	93	64-134	
Toluene	ug/L	20	19.3	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	94	68-127	
trans-1,3-Dichloropropene	ug/L	20	18.2	91	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	15.7	78	42-129	
Trichloroethene	ug/L	20	18.8	94	70-130	
Trichlorofluoromethane	ug/L	20	20.7	104	65-135	
Vinyl acetate	ug/L	20	19.0	95	60-144	
Vinyl chloride	ug/L	20	21.8	109	68-131	
Xylene (Total)	ug/L	60	57.1	95	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2663970

Parameter	Units	35427331002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	17.8	89	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	19.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	16.5	82	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	17.6	88	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	18.5	91	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	20.1	101	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	14.5	73	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	17.0	85	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	15.9	79	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	17.0	85	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	17.0	84	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	36.9	92	47-143	
2-Hexanone	ug/L	5.0 U	40	38.4	96	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	36.0	90	57-132	
Acetone	ug/L	10.0 U	40	36.8	92	46-148	
Acrylonitrile	ug/L	5.0 U	200	189	94	60-143	
Benzene	ug/L	0.58 I	20	18.8	91	70-130	
Bromochloromethane	ug/L	0.50 U	20	17.4	87	70-130	
Bromodichloromethane	ug/L	0.27 U	20	16.0	80	70-130	
Bromoform	ug/L	0.50 U	20	14.7	74	49-126	
Bromomethane	ug/L	0.50 U	20	14.6	73	10-165	
Carbon disulfide	ug/L	5.0 U	20	20.0	100	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	18.7	93	63-126	
Chlorobenzene	ug/L	1.2	20	19.0	89	70-130	
Chloroethane	ug/L	0.50 U	20	20.0	100	71-142	
Chloroform	ug/L	0.50 U	20	17.9	89	70-130	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

MATRIX SPIKE SAMPLE: 2663970

Parameter	Units	35427331002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	20.0	100	40-140	
cis-1,2-Dichloroethene	ug/L	1.8	20	19.0	86	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	16.2	81	70-130	
Dibromochloromethane	ug/L	0.26 U	20	16.8	84	62-118	
Dibromomethane	ug/L	0.50 U	20	17.6	88	70-130	
Ethylbenzene	ug/L	0.50 U	20	19.9	99	70-130	
Iodomethane	ug/L	0.50 U	40	9.4 I	23	10-164	
Methylene Chloride	ug/L	2.5 U	20	15.7	79	65-136	
Styrene	ug/L	0.50 U	20	17.6	88	70-130	
Tetrachloroethene	ug/L	0.50 U	20	18.2	91	64-134	
Toluene	ug/L	0.50 U	20	18.8	94	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.1	91	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	16.3	82	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	11.7	59	42-129	
Trichloroethene	ug/L	0.50 U	20	18.4	92	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	22.3	112	65-135	
Vinyl acetate	ug/L	1.0 U	20	16.8	84	60-144	
Vinyl chloride	ug/L	0.50 U	20	22.0	110	68-131	
Xylene (Total)	ug/L	1.0 U	60	57.4	96	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2663969

Parameter	Units	35427331001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

SAMPLE DUPLICATE: 2663969

Parameter	Units	35427331001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	99	100	0	40	
4-Bromofluorobenzene (S)	%	105	106	1	40	
Toluene-d8 (S)	%	103	99	4	40	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490951 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004, 35427487006

METHOD BLANK: 2655279 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004, 35427487006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/06/18 04:59	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/06/18 04:59	

LABORATORY CONTROL SAMPLE: 2655280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.19	78	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.20	79	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2655281 2655282

Parameter	Units	35428033001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.36	0.38	83	86	60-140	3	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.39	0.40	89	90	60-140	2	40	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490532 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35427487001, 35427487002

METHOD BLANK: 2652975 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/02/18 14:52	

LABORATORY CONTROL SAMPLE: 2652976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	293	98	90-110	

SAMPLE DUPLICATE: 2652977

Parameter	Units	35426872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	345	349	1	5	

SAMPLE DUPLICATE: 2652978

Parameter	Units	35427352001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	358	362	1	5	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490955 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35427487003, 35427487004

METHOD BLANK: 2655294 | Matrix: Water
Associated Lab Samples: 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/05/18 13:58	

LABORATORY CONTROL SAMPLE: 2655295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	90-110	

SAMPLE DUPLICATE: 2655296

Parameter	Units	35427487003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	181	178	2	5	

SAMPLE DUPLICATE: 2655297

Parameter	Units	35427576003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	33000	33900	3	5	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491303 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Susp. Solids Tampa
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2656831 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0	5.0	11/06/18 10:30	

LABORATORY CONTROL SAMPLE: 2656832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	96.0	96	90-110	

SAMPLE DUPLICATE: 2656833

Parameter	Units	35427471003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	100	84.0	17	5	J(D6)

SAMPLE DUPLICATE: 2656872

Parameter	Units	35427580002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	5.0 U		5	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491111 | Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E | Analysis Description: 1631E Mercury,Low Level
Associated Lab Samples: 35427487004

METHOD BLANK: 2655878 | Matrix: Water
Associated Lab Samples: 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	11/06/18 11:23	

METHOD BLANK: 2655879 | Matrix: Water
Associated Lab Samples: 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	11/06/18 11:28	

METHOD BLANK: 2655880 | Matrix: Water
Associated Lab Samples: 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	11/06/18 11:33	

LABORATORY CONTROL SAMPLE: 2655881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	5.62	112	77-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2655890 2655891

Parameter	Units	35427877001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	14.1	20	20	35.0	33.3	105	96	71-125	5	24	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491112 | Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E | Analysis Description: 1631E Mercury,Low Level
Associated Lab Samples: 35427487001, 35427487002, 35427487003

METHOD BLANK: 2655883 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	11/06/18 12:53	

METHOD BLANK: 2655884 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	11/06/18 12:58	

METHOD BLANK: 2655885 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	11/06/18 13:03	

LABORATORY CONTROL SAMPLE: 2655886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	5.62	112	77-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2655893 2655894

Parameter	Units	35427309002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	0.739	1	1	1.80	1.51	106	77	71-125	18	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2655895 2655896

Parameter	Units	35427487001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	0.458 I	1	1	1.45	1.27	99	81	71-125	13	24	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490165 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2650746 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0	2.0	11/06/18 17:13	

LABORATORY CONTROL SAMPLE: 2650748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	199	186	94	85-115	

SAMPLE DUPLICATE: 2650749

Parameter	Units	35427392001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0 U		20	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490145 | Analysis Method: SM10200
QC Batch Method: SM10200 | Analysis Description: Chlorophyll & Pheophytin
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2650671 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorophyll a	ug/L	2.2 U	5.0	2.2	11/06/18 16:06	

LABORATORY CONTROL SAMPLE: 2650672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorophyll a	ug/L	10	10.9	109	85-115	

SAMPLE DUPLICATE: 2650673

Parameter	Units	35427342001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorophyll a	ug/L	35.6 mg/m3	37.2	4	40	

SAMPLE DUPLICATE: 2650674

Parameter	Units	35427487003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorophyll a	ug/L	2.5 I	2.2 U		40	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490748 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2654462 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/03/18 10:36	

LABORATORY CONTROL SAMPLE: 2654463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	105	90-110	

MATRIX SPIKE SAMPLE: 2654465

Parameter	Units	35428067007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	44.5	10.2	54.2	96	90-110	

SAMPLE DUPLICATE: 2654464

Parameter	Units	35428067007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	44.5	44.5	0	20	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 492856 | Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 | Analysis Description: 351.2 TKN
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2665521 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	0.086	11/13/18 09:47	

LABORATORY CONTROL SAMPLE: 2665522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	18.4	92	90-110	

MATRIX SPIKE SAMPLE: 2665524

Parameter	Units	35427413001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	20	18.4	92	90-110	

MATRIX SPIKE SAMPLE: 2665526

Parameter	Units	35427487002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.82	20	20.0	96	90-110	

SAMPLE DUPLICATE: 2665523

Parameter	Units	35427413001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.11 I		20	

SAMPLE DUPLICATE: 2665525

Parameter	Units	35427487002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.82	0.98	18	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490113 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2650570 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/01/18 07:29	
Nitrogen, NO2 plus NO3	mg/L	0.033 U	0.050	0.033	11/01/18 07:29	

LABORATORY CONTROL SAMPLE: 2650571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 2650573

Parameter	Units	35427434003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.2	2	4.1	92	90-110	

MATRIX SPIKE SAMPLE: 2650575

Parameter	Units	35427487004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.033 U	2	2.1	103	90-110	

SAMPLE DUPLICATE: 2650572

Parameter	Units	35427434003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.76	0.73	5	20	
Nitrogen, NO2 plus NO3	mg/L	2.2	2.2	2	20	

SAMPLE DUPLICATE: 2650574

Parameter	Units	35427487004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	
Nitrogen, NO2 plus NO3	mg/L	0.033 U	0.033 U		20	

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 492858 | Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4 | Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2665530 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.10	0.050	11/13/18 10:18	

LABORATORY CONTROL SAMPLE: 2665531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	3.6	90	90-110	

MATRIX SPIKE SAMPLE: 2665533

Parameter	Units	35427413001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	1.6	4	5.5	98	80-120	

MATRIX SPIKE SAMPLE: 2665535

Parameter	Units	35427487002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	4	3.9	96	80-120	

SAMPLE DUPLICATE: 2665532

Parameter	Units	35427413001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	1.6	1.6	2	20	

SAMPLE DUPLICATE: 2665534

Parameter	Units	35427487002 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.050 U		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491710 | Analysis Method: SM 5310B
QC Batch Method: SM 5310B | Analysis Description: 5310B TOC
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2658906 | Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	11/07/18 22:52	

LABORATORY CONTROL SAMPLE: 2658907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	19.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2658908 2658909

Parameter	Units	35428666003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	11.8	20	20	30.9	29.8	95	90	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2658910 2658911

Parameter	Units	92405448001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.9	20	20	21.9	22.1	95	96	80-120	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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(386)672-5668

QUALIFIERS

Project: Surface Central County Solid W
Pace Project No.: 35427487

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach
PASI-Tp	Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(D6)	Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(IS)	Estimated Value. The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Surface Central County Solid W
Pace Project No.: 35427487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35427487001	**(28824) Pond -1**				
35427487002	**(28825) Pond -2**				
35427487003	**Duplicate**				
35427487001	**(28824) Pond -1**	EPA 8011	490951	EPA 8011	491089
35427487002	**(28825) Pond -2**	EPA 8011	490951	EPA 8011	491089
35427487003	**Duplicate**	EPA 8011	490951	EPA 8011	491089
35427487004	**Field Blank**	EPA 8011	490951	EPA 8011	491089
35427487006	**8011 Trip Blank**	EPA 8011	490951	EPA 8011	491089
35427487001	**(28824) Pond -1**	EPA 3010	491203	EPA 6010	491222
35427487002	**(28825) Pond -2**	EPA 3010	491203	EPA 6010	491222
35427487003	**Duplicate**	EPA 3010	490396	EPA 6010	490414
35427487004	**Field Blank**	EPA 3010	490396	EPA 6010	490414
35427487001	**(28824) Pond -1**	EPA 3010	491202	EPA 6020	491221
35427487001	**(28824) Pond -1**	EPA 3010	492684	EPA 6020	492703
35427487002	**(28825) Pond -2**	EPA 3010	491202	EPA 6020	491221
35427487002	**(28825) Pond -2**	EPA 3010	492684	EPA 6020	492703
35427487003	**Duplicate**	EPA 3010	490395	EPA 6020	490415
35427487004	**Field Blank**	EPA 3010	490395	EPA 6020	490415
35427487001	**(28824) Pond -1**	EPA 8260	492338		
35427487002	**(28825) Pond -2**	EPA 8260	492338		
35427487003	**Duplicate**	EPA 8260	492338		
35427487004	**Field Blank**	EPA 8260	492338		
35427487005	**8260 Trip Blank**	EPA 8260	492338		
35427487001	**(28824) Pond -1**	SM 2540C	490532		
35427487002	**(28825) Pond -2**	SM 2540C	490532		
35427487003	**Duplicate**	SM 2540C	490955		
35427487004	**Field Blank**	SM 2540C	490955		
35427487001	**(28824) Pond -1**	SM 2540D	491303		
35427487002	**(28825) Pond -2**	SM 2540D	491303		
35427487003	**Duplicate**	SM 2540D	491303		
35427487004	**Field Blank**	SM 2540D	491303		
35427487001	**(28824) Pond -1**	EPA 1631E	491112	EPA 1631E	491498
35427487002	**(28825) Pond -2**	EPA 1631E	491112	EPA 1631E	491498
35427487003	**Duplicate**	EPA 1631E	491112	EPA 1631E	491498
35427487004	**Field Blank**	EPA 1631E	491111	EPA 1631E	491497
35427487001	**(28824) Pond -1**	SM 5210B	490165	SM 5210B	491522
35427487002	**(28825) Pond -2**	SM 5210B	490165	SM 5210B	491522
35427487003	**Duplicate**	SM 5210B	490165	SM 5210B	491522
35427487004	**Field Blank**	SM 5210B	490165	SM 5210B	491522
35427487001	**(28824) Pond -1**	SM10200	490145	SM10200	491379
35427487002	**(28825) Pond -2**	SM10200	490145	SM10200	491379

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Surface Central County Solid W
Pace Project No.: 35427487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35427487003	**Duplicate**	SM10200	490145	SM10200	491379
35427487004	**Field Blank**	SM10200	490145	SM10200	491379
35427487001	**(28824) Pond -1**	TKN+NOx Calculation	493388		
35427487002	**(28825) Pond -2**	TKN+NOx Calculation	493388		
35427487003	**Duplicate**	TKN+NOx Calculation	493388		
35427487004	**Field Blank**	TKN+NOx Calculation	493388		
35427487001	**(28824) Pond -1**	EPA 350.1	490748		
35427487002	**(28825) Pond -2**	EPA 350.1	490748		
35427487003	**Duplicate**	EPA 350.1	490748		
35427487004	**Field Blank**	EPA 350.1	490748		
35427487001	**(28824) Pond -1**	EPA 351.2	492856	EPA 351.2	493133
35427487002	**(28825) Pond -2**	EPA 351.2	492856	EPA 351.2	493133
35427487003	**Duplicate**	EPA 351.2	492856	EPA 351.2	493133
35427487004	**Field Blank**	EPA 351.2	492856	EPA 351.2	493133
35427487001	**(28824) Pond -1**	EPA 353.2	490113		
35427487002	**(28825) Pond -2**	EPA 353.2	490113		
35427487003	**Duplicate**	EPA 353.2	490113		
35427487004	**Field Blank**	EPA 353.2	490113		
35427487001	**(28824) Pond -1**	EPA 365.4	492858	EPA 365.4	493135
35427487002	**(28825) Pond -2**	EPA 365.4	492858	EPA 365.4	493135
35427487003	**Duplicate**	EPA 365.4	492858	EPA 365.4	493135
35427487004	**Field Blank**	EPA 365.4	492858	EPA 365.4	493135
35427487001	**(28824) Pond -1**	SM 5310B	491710		
35427487002	**(28825) Pond -2**	SM 5310B	491710		
35427487003	**Duplicate**	SM 5310B	491710		
35427487004	**Field Blank**	SM 5310B	491710		
35427487001	**(28824) Pond -1**	FLDEP SOP 10/03/83	493107		
35427487002	**(28825) Pond -2**	FLDEP SOP 10/03/83	493107		
35427487003	**Duplicate**	FLDEP SOP 10/03/83	493107		
35427487004	**Field Blank**	FLDEP SOP 10/03/83	493107		

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CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must

WO# : 35427487

35427487

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Sarasota County	Report To:	Mr. Cesar Rodriguez	Attention:	
Address:	1255 T. Mabry Carlton Parkway	Copy To:		Company Name:	
Venice, FL 34292				Address:	
Email:		Purchase Order #:	181191	Pace Quote:	
Phone:	Fax:	Project Name:	Surface Central County Solid Waste	Pace Project Manager:	martha.montero@pacelabs.com
Requested Due Date:		Project #:		Pace Profile #:	765 L5

Regulatory Agency	
State / Location	
	FL

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): 8260 App 1 (HCL)	EDB 8011 (Unpreserved)	TOC (total organic carbon) (HCL)	NH3, T-Nitrogen, T-Phos (H2SO4)	Metals 6010/6020, Tot Hard (HNO3)	BOD 5-day (Unpreserved)	TDS/TSS nitrate (Unpreserved)	Chlorophyll A (Unpreserved)	LL Hg (Unpreserved)	LL Hg Blank Water (Unpreserved)			Residual Chlorine (Y/N)	
1	~~Southwest Pond SW_1~~ (28824) Pond-1	WT		10/31/18	1015			13										3	2	2	1	1	1	1	1	1					Please use Adapt, Please include all compounds of Appendix one
2	~~Northeast Pond SW-2~~ (28825) Pond-2	WT		10/31/18	0910			13										3	2	2	1	1	1	1	1	1					
3	Duplicate	WT		10/31/18	1015			13										3	2	2	1	1	1	1	1	1					
4	Field blank	WT		10/31/18	0900			13										3	2	2	1	1	1	1	1	1					
5	Hg Blank water	WT		10/31/18	0900			1																			1				
6	8260 Trip Blank	WT		10/31/18				2										2													
7	8011 Trip Blank	WT		10/31/18				2											2												
8																															
9																															
10																															
11																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
surface water kits: Southwest Pond SW_1; Northeast Pond SW-2; Field blank	Ronald Moore / Sarasota County	10/31/18	1115		10/31/18	1240	T23			
		10/31/18	1440		10/31/18	1440	6.8	X	~	X

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Ronald Moore	~~Alison Eggleston~~	
SIGNATURE of SAMPLER:		DATE Signed:	10/31/18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35427487

Project Manager: PM: MIM **Due Date:** 11/14/18

Client: CLIENT: SARCOU

Date and Initials of person:
Examining contents: 10/31/18
Label:
Deliver:
pH:

Thermometer Used: T-203 Date: 10/31/18 Time: 1440 Initials: MZ

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 0.8	(Visual) 0.0	(Correction Factor) 0.8	(Actual)	☒ Samples on ice, cooling process has begun
Cooler #2 Temp.°C 24.3	(Visual) 0.0	(Correction Factor) 24.3	(Actual) LL HG	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ 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) LL HG

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

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

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☑ N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☑ N/A	
Headspace in VOA Vials? (>6mm):	☑ Yes ☐ No ☐ N/A	8260 Trip Blanks 1/2 have head space
Trip Blank Present:	☐ Yes ☐ No ☑ N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments): did Not Recieve Sample #5

Project Manager Review: Date:

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY ASSURED 1/3/19

December 26, 2018

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

RE: Project: Surface Water Central cty
Pace Project No.: 35438297

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County

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Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Surface Water Central cty
Pace Project No.: 35438297

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Surface Water Central cty
Pace Project No.: 35438297

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35438297001	**Pond 1 RE (at STW-1) 28824**	Water	12/17/18 12:50	12/20/18 14:00
35438297002	**Pond 2 RE (at STW-2) 28825**	Water	12/17/18 13:25	12/20/18 14:00
35438297003	**Field Blank 121718**	Water	12/17/18 13:00	12/20/18 14:00

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Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Surface Water Central cty
Pace Project No.: 35438297

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35438297001	**Pond 1 RE (at STW-1) 28824**	EPA 410.4	FGF	1	PASI-O
35438297002	**Pond 2 RE (at STW-2) 28825**	EPA 410.4	FGF	1	PASI-O
35438297003	**Field Blank 121718**	EPA 410.4	FGF	1	PASI-O

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(386)672-5668

ANALYTICAL RESULTS

Project: Surface Water Central cty
Pace Project No.: 35438297

Sample: Pond 1 RE (at STW-1) 28824 **Lab ID: 35438297001** Collected: 12/17/18 12:50 Received: 12/20/18 14:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**60.3**	mg/L	20.0	12.5	1	12/24/18 09:32	12/24/18 15:56		

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ANALYTICAL RESULTS

Project: Surface Water Central cty
Pace Project No.: 35438297

Sample: Pond 2 RE (at STW-2) 28825 **Lab ID: 35438297002** Collected: 12/17/18 13:25 Received: 12/20/18 14:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**65.0**	mg/L	20.0	12.5	1	12/24/18 09:32	12/24/18 15:56		

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ANALYTICAL RESULTS

Project: Surface Water Central cty
Pace Project No.: 35438297

Sample: Field Blank 121718 **Lab ID: 35438297003** Collected: 12/17/18 13:00 Received: 12/20/18 14:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**12.5 U**	mg/L	20.0	12.5	1	12/24/18 09:32	12/24/18 15:56		

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Surface Water Central cty
Pace Project No.: 35438297

QC Batch: 503616 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 35438297001, 35438297002, 35438297003

METHOD BLANK: 2721969 Matrix: Water
Associated Lab Samples: 35438297001, 35438297002, 35438297003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	12.5 U	20.0	12.5	12/24/18 15:56	

LABORATORY CONTROL SAMPLE: 2721970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	494	498	101	90-110	

MATRIX SPIKE SAMPLE: 2721972

Parameter	Units	35438288001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	11400	7410	18400	94	90-110	

MATRIX SPIKE SAMPLE: 2721974

Parameter	Units	35438067004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	303	4940	5060	96	90-110	

SAMPLE DUPLICATE: 2721971

Parameter	Units	35438288001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	11400	11500	1	20	

SAMPLE DUPLICATE: 2721973

Parameter	Units	35438067004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	303	318	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Surface Water Central cty
Pace Project No.: 35438297

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Surface Water Central cty
Pace Project No.: 35438297

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35438297001	**Pond 1 RE (at STW-1) 28824**	EPA 410.4	503616	EPA 410.4	503747
35438297002	**Pond 2 RE (at STW-2) 28825**	EPA 410.4	503616	EPA 410.4	503747
35438297003	**Field Blank 121718**	EPA 410.4	503616	EPA 410.4	503747

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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request I

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields m

WO# : 35438297

35438297

Section A - Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Sarasota County	Report To:	Mr. Cesar Rodriguez	Attention:	
Address:	1255 T. Mabry Carlton Parkway	Copy To:		Company Name:	
Venice, FL 34292				Address:	
Email:		Purchase Order #:	181191	Pace Quote:	
Phone:	Fax:	Project Name:	Surface Water Central cty	Pace Project Manager:	Martha.Montero@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	833 #4

Regulatory Agency	
State / Location	FL

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4 / ice	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N) H2SO4	COD	Residual Chlorine (Y/N)	
1	Pond 1 (at STW-1) 28824	WT		12/17/18	1250				1		x								1			
2	Pond 2 (at STW-2) 28825	WT		12/17/18	1325				1		x								1			
3	Field Blank	WT		12/17/18	1300				1		x								1			
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Please use Adapt

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
surface waters for Central County	Ronald Moore / Sarasota County	12/20/18	0915	H. BOGUES / PACE	12/20/18	1129	T202			
	H. BOGUES / PACE	12/20/18	1400	[illegible] / PACE	12/20/18	1400	1.3	Y	N	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Ronald Moore	Ron Moore	
SIGNATURE of SAMPLER:	[signature]	DATE Signed:	12/20/18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO# : 35438297

Project Manager: PM: MIM **Due Date:** 01/07/19

Client: CLIENT: SARCOU

Date and Initials of person:
Examining contents: DS
Label:
Deliver: 12/20/18
pH:

Thermometer Used: T-202 Date: 12-20-18 Time: 1400 Initials: LJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 1.3 **(Visual)** 0.0 **(Correction Factor)** 1.3 **(Actual)** ☑ Samples on ice, cooling process has begun

Cooler #2 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #3 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #4 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #5 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #6 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ 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:
Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☑Yes ☐ No ☐N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑Yes ☐ No ☐N/A	Preservative:_____ Lot #/Trace #:_____ Date:_____ Time:_____ Initials:_____
Headspace in VOA Vials? (>6mm):	☐Yes ☐ No ☑N/A	
Trip Blank Present:	☐Yes ☐ No ☑N/A	

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____

DEP-SOP-001/01
FT 1100 Field Measurement of Hydrogen Ion Activity (pH)

Form FD 9000-7: Field Parameter Data Sheet for Surface Water

SURVEY/PROJECT: Central County 3rd Semi Annual SW SAMPLERS: Ronald Moore METER # YSI-556 HACH 2100Q

STATION NUMBER	STATION DESCRIPTION	PARAMETER	DATE	TIME	TOTAL DEPTH	SAMPLE DEPTH	WATER TEMP	DO	%SAT DO	COND	SALINITY	PH	TURBIDITY
		UNIT	yy/mm/dd	hr:min	feet	feet	Celsius	mg/L	%	µS/cm	ppt	su	NTU
		STORET CODE	73672		81903	68	10	299	301	94	480	400	82078
28824	Pond 1		18/12/17	1250	1.5	0.5	16.80	3.41	–	616	–	6.05	4.03
28825	Pond 2		18/12/17	1325	1.5	0.5	20.06	6.58	–	520	–	7.64	6.85

FIELD CONDITIONS FOR STATION# _____ AT TIME _____:

CLOUD COVER (%): _____ WIND DIRECTION: _____ TIDAL STAGE: _____

PREVIOUS RAINFALL: _____ WIND SPEED (MPH/KNOTS): _____ WAVE CONDITIONS: _____

Note: This Sheet is used for recording Sample Data -- Calibration information must also be documented

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: NAM-1	SAMPLE ID: 29091	DATE: 10/1/18

TOC: 19.87

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.14	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.5 feet – 2.14 feet) X 0.16 gallons/foot = 2.0 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.2	PURGING INITIATED AT: 0931	PURGING ENDED AT: 1000	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0950	2.0	2.0	0.11	2.73	6.98	27.79	900	0.09	0.52	Clear	None
0955	0.5	2.5	0.11	2.73	6.98	27.73	902	0.08	0.55	Clear/Lt Stain	None
1000	0.5	3.0	0.11	2.73	6.98	27.71	903	0.08	0.62	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Alison Eggleston	SAMPLING INITIATED AT: 1002	SAMPLING ENDED AT: 1007
PUMP OR TUBING DEPTH IN WELL (feet): 3.2	TUBING MATERIAL CODE: S / HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
0E1B	1	HDPE	250 mL 500 mL	HNO3 & wet ice	N/A	<2	Metals	APP	400
0E1C	1	HDPE	250 mL	H2SO4 & wet ice	N/A	<2	Total Ammonia	APP	↓
0E1A	1	HDPE	1 L	H2SO4 & wet ice	N/A	N/A	Misc. Inorganics	APP	↓

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: NAM-2	SAMPLE ID: 29092	DATE: 10/1/18

TOC: 20.02

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.66	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.5 feet – 2.66 feet) X 0.16 gallons/foot = 1.91 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.7	PURGING INITIATED AT: 1128	PURGING ENDED AT: 1156	TOTAL VOLUME PURGED (gallons): 2.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (~~circle units~~) ~~µmhos/cm~~ or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1146	1.9	1.9	0.11	2.78	6.85	27.89	745	0.09	0.31	Clear/Lt Flow	None
1151	0.5	2.4	0.11	2.78	6.85	27.89	742	0.08	0.22	Clear/Lt Flow	None
1156	0.5	2.9	0.11	2.78	6.86	27.99	741	0.07	0.46	Clear/Lt Flow	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Alison Eggleston	SAMPLING INITIATED AT: 1158	SAMPLING ENDED AT: 1205
PUMP OR TUBING DEPTH IN WELL (feet): 3.7	TUBING MATERIAL CODE: 5/ HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: (Y) (~~N~~)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
QC ~~A~~ B	1	HDPE	~~500 mL~~ 250 mL	HNO3 & wet ice	N/A	\	Metals	APP	400
QC ~~B~~ C	1	HDPE	250 mL	H2SO4 & wet ice	N/A		Total Ammonia	APP	\
QC ~~C~~ A	1	HDPE	1 L	H2SO4 & wet ice	N/A	N/A	Misc. Inorganics	APP	\

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: NAM-3	SAMPLE ID: 29093	DATE: 10/1/18

TOC: 20.62

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.37	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.5 feet – 2.37 feet) X 0.16 gallons/foot = 1.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.4	PURGING INITIATED AT: 1241	PURGING ENDED AT: 1309	TOTAL VOLUME PURGED (gallons): 2.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1259	1.9	1.9	0.11	2.88	6.36	26.89	563	0.08	0.73	Clear/Light Brown	None
1304	0.5	2.4	0.11	2.88	6.41	26.89	564	0.09	0.91	Clear/Light Brown	None
1309	0.5	2.9	0.11	2.88	6.44	26.82	565	0.07	0.36	Clear/Light Brown	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1311	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet): 3.4	TUBING MATERIAL CODE: S / HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
NAM-3-B	1	HDPE	~~500~~ 250 mL	HNO3 & wet ice	N/A		Metals	APP	400
NAM-3-C	1	HDPE	250 mL	H2SO4 & wet ice	N/A		Total Ammonia	APP	
NAM-3-A	1	HDPE	1 L	H2SO4 & wet ice	N/A	N/A	Misc. Inorganics	APP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: NAM-4	SAMPLE ID: 29094	DATE: 10/1/18

TOC: 22.66

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.24	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.5 feet – 5.24 feet) X 0.16 gallons/foot = 1.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.3	PURGING INITIATED AT: 1341	PURGING ENDED AT: 1403	TOTAL VOLUME PURGED (gallons): 2.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1355	1.5	1.5	0.11	5.69	6.24	27.21	548	0.09	0.49	Clear/Yellow	None
1359	0.4	1.9	0.11	5.69	6.24	27.14	551	0.08	0.53	Clear/Yellow	None
1403	0.4	2.3	0.11	5.69	6.23	27.04	549	0.07	0.58	Clear/Yellow	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1405	SAMPLING ENDED AT: 1415
PUMP OR TUBING DEPTH IN WELL (feet): 6.3	TUBING MATERIAL CODE: S/HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
B	1	HDPE	500 mL 250	HNO3 & wet ice	N/A		Metals	APP	400
C	1	HDPE	250 mL	H2SO4 & wet ice	N/A		Total Ammonia	APP	
A	1	HDPE	1 L	H2SO4 & wet ice	N/A	N/A	Misc. Inorganics	APP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: MW-20A	SAMPLE ID: 27141	DATE: 10/2/18

TOC: 27.38

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.76	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (22.5 feet – 8.76 feet) X 0.16 gallons/foot = 2.2 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.0	PURGING INITIATED AT: 0940	PURGING ENDED AT: 1022	TOTAL VOLUME PURGED (gallons): 3.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1008	2.2	2.2	0.08	10.63	6.60	28.89	585	0.09	1.02	clear	none
1015	0.6	2.8	0.08	10.67	6.62	28.79	570	0.09	0.66	Clear	None
1022	0.6	3.4	0.08	10.69	6.62	28.76	563	0.10	0.75	Clear	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1025	SAMPLING ENDED AT: 1035
PUMP OR TUBING DEPTH IN WELL (feet): 11.0	TUBING MATERIAL CODE: S & HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	APP	300
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	
AE F G	1	HDPE	~~500 mL~~ 250 mL AE	HNO3 & wet ice	N/A	—	Metals – App. I	APP	
AE B F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	—	Nutrients – App. I	APP	
AE H AH	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	

REMARKS: Slight odor in air while filling sample bottles. (Downwind of Active Face of L/F)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275

WELL NO: MW-19A	SAMPLE ID: 27140	DATE: 10/2/18

TOC: 27.52 NGVD 19.69

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet	STATIC DEPTH TO WATER (feet): 7.83	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (22.5 feet – 7.83 feet) X 0.16 gallons/foot = 2.4 gallons 3.5

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5	PURGING INITIATED AT: 1128	PURGING ENDED AT: 1214	TOTAL VOLUME PURGED (gallons): 3.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1158	2.4	2.4	0.08	8.81	6.65	29.71	642	0.12	0.47	Clear	None
1206	0.6	3.0	0.08	8.83	6.65	29.74	655	0.11	0.98	Clear	None
1214	0.6	3.6	0.08	8.84	6.65	29.66	667	0.11	0.42	Clear	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Alison Eggleston	SAMPLING INITIATED AT: 1216	SAMPLING ENDED AT: 1223
PUMP OR TUBING DEPTH IN WELL (feet): 9.5	TUBING MATERIAL CODE: S HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	APP	300
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	
~~AF~~ FG	1	HDPE	~~500 mL~~ 250 mL	HNO3 & wet ice	N/A	< 2	Metals – App. I	APP	
~~AF~~ BF	1	HDPE	250 mL	H2SO4 & wet ice	N/A	< 2	Nutrients – App. I	APP	
~~AF~~ H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: MW-18R	SAMPLE ID: 29095	DATE: 10/2/18

TOC: 28.33

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.48	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (18.63 feet – 9.48 feet) X 0.16 gallons/foot = 1.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5	PURGING INITIATED AT: 1259	PURGING ENDED AT: 1328	TOTAL VOLUME PURGED (gallons): 2.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1318	1.5	1.5 ~~0.08~~	0.08	10.05	6.00	30.40	612	0.08	1.12	lt sheen Clear	None
1323	0.4	1.9	0.08	10.09	6.00	30.36	615	0.07	1.26	lt sheen clear	None
1328	0.4	2.3	0.08	10.11	6.01	30.35	613	0.07	1.15	lt sheen clear	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Alison Eggleston	SAMPLING INITIATED AT: 1330	SAMPLING ENDED AT: 1345
PUMP OR TUBING DEPTH IN WELL (feet): 10.5	TUBING MATERIAL CODE: S HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: (Y) (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	APP	300
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	|
~~F~~ G	1	HDPE	~~500 mL~~ 250 ml	HNO3 & wet ice	N/A	—	Metals – App. I	APP	|
~~G~~ F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	—	Nutrients – App. I	APP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	|

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275

WELL NO: MW-1R	SAMPLE ID: 20585	DATE: 10/3/18

TOC: 24.428

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 3.03	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (15.7 feet – 3.03 feet) X 0.16 gallons/foot = 2.0 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0	PURGING INITIATED AT: 0900	PURGING ENDED AT: 0946	TOTAL VOLUME PURGED (gallons): 3.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0925	2.0	2.0	0.08	3.57	6.15	27.57	307	0.08	0.92	Lt Amber	None
0932	0.6	2.6	0.08	3.59	6.16	27.61	321	0.06	1.00	Lt Amber	None
0939	0.6	3.2	0.08	3.60	6.19	27.74	330	0.06	0.91	Lt Amber	None
0946	0.6	3.8	0.08	3.62	6.18	27.66	336	0.06	0.96	Lt Amber	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0948	SAMPLING ENDED AT: 0955
PUMP OR TUBING DEPTH IN WELL (feet): 4.0	TUBING MATERIAL CODE: LS / HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	APP	300
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	|
aqFG	1	HDPE	~~500 mL~~ 250 mL	HNO3 & wet ice	N/A	|	Metals – App. I	APP	|
aqF	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	APP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	|

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: MW-8A	SAMPLE ID: 21453	DATE: 10/3/18

TOC: 35.40

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 14.70	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (22.4 feet – 14.70 feet) X 0.16 gallons/foot = 1.3 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.7	PURGING INITIATED AT: 1027	PURGING ENDED AT: 1054	TOTAL VOLUME PURGED (gallons): 2.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1044	1.3	1.3	0.08	15.27	6.22	27.48	1093	0.11	2.40	Clear	None
1049	0.4	~~0.4~~ 1.7	0.08	15.29	6.23	27.44	1103	0.10	2.58	Clear	None
1054	0.4	~~0.4~~ 2.1	0.08	15.30	6.23	27.52	1106	0.11	2.60	Clear	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ Sarasota County DE Ronald Moore	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1115
PUMP OR TUBING DEPTH IN WELL (feet): 15.7	TUBING MATERIAL CODE: S / HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	NA	8260-vocs App. I	APP	300
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	|
DE PG	1	HDPE	~~500 mL~~ 250 mL	HNO3 & wet ice	N/A	|	Metals – App. I	APP	|
DE PF	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	APP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	|

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: MW-9	SAMPLE ID: 4509	DATE: 10/3/18

TOC : 32.08

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 11.40	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (22.8 feet – 11.40 feet) X 0.16 gallons/foot = 1.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.4	PURGING INITIATED AT: 1152	PURGING ENDED AT: 1220	TOTAL VOLUME PURGED (gallons): 2.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1210	1.9	1.9	0.11	~~10.90~~ 11.90	6.56	30.24	1451	0.17	1.33	Clear Sheen	None
1215	0.5	2.4	0.11	~~10.90~~ 11.90	6.56	30.25	1459	0.14	1.53	Clear Sheen	None
1220	0.5	2.9	0.11	11.90	6.57	30.30	1487	0.11	3.86	Clear Sheen	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Alison Eggleston	SAMPLING INITIATED AT: 1222	SAMPLING ENDED AT: 1230
PUMP OR TUBING DEPTH IN WELL (feet): 12.4	TUBING MATERIAL CODE: S / HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	APP	400
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	APP	|
~~D~~ G	1	HDPE	~~500 mL~~ 250 ml	HNO3 & wet ice	N/A	|	Metals – App. I	APP	|
~~E~~ F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	APP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	APP	|

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: MW-17	SAMPLE ID: 23033	DATE: 10/4-18

TOC: 46.15

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 27.05	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (32.6 feet – 27.05 feet) X 0.16 gallons/foot = 0.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28.0	PURGING INITIATED AT: 0946	PURGING ENDED AT: 1016	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1004	0.9	0.9	0.05	28.0-28.5	6.37	28.26	1790	0.04	2.24	Sheen Lt Amber	None
1010	0.3	1.2	0.05	28.0-28.5	6.36	28.06	1800	0.03	4.67	Sheen Lt Amber	None
1016	0.3	1.5	0.05	28.0-28.5	6.36	28.06	1810	0.03	1.39	Sheen Lt Amber	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston/~~ Ronald Moore Sarasota County	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1020	SAMPLING ENDED AT: 1040
PUMP OR TUBING DEPTH IN WELL (feet): 28.0	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	ESP	200
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	ESP	|
QF G	1	HDPE	~~500 mL~~ 250 mL	HNO3 & wet ice	N/A	|	Metals – App. I	ESP	|
QF F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	ESP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	ESP	|

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275
WELL NO: MW-16	SAMPLE ID: 23032	DATE: 10/4/18

TOC: 43.93

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 23.80	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.3 feet – 23.80 feet) X 0.16 gallons/foot = 1.0 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.80	PURGING INITIATED AT: 1153	PURGING ENDED AT: 1225	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1213	1.0	1.0	0.05	24.3-24.8	6.32	29.17	2422	0.07	0.78	Sheen w. Amber	None
1219	0.3	1.3	0.05	24.3-24.8	6.33	29.22	2420	0.05	2.31	Sheen w. Amber	None
1225	0.3	1.6	0.05	24.3-24.8	6.33	29.20	2422	0.04	1.03	Sheen w. Amber	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Allson Eggleston / Sarasota County	SAMPLER(S) SIGNATURE(S): Allson Eggleston	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT: 1240
PUMP OR TUBING DEPTH IN WELL (feet): 24.80	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	ESP	200
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	ESP	
QA 1G	1	HDPE	~~500 mL~~ 250 QA	HNO3 & wet ice	N/A		Metals – App. I	ESP	
QA 1F	1	HDPE	250 mL	H2SO4 & wet ice	N/A		Nutrients – App. I	ESP	
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	ESP	

REMARKS: Heavy Sheen

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275
WELL NO: MW-15	SAMPLE ID: 23031	DATE: 10/8/18

TOC: 44.32

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 23.51	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.5 feet – 23.51 feet) X 0.16 gallons/foot = 1.2 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5	PURGING INITIATED AT: 0956	PURGING ENDED AT: 1032	TOTAL VOLUME PURGED (gallons): 1.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1020	1.2	1.2	0.05	~~24.5-25.0~~ 24.5	6.82	29.01	3436	0.41	3.99	Lt sheen Amber	None
1026	0.3	1.5	0.05	~~24.5-25.0~~ 24.5	6.82	29.10	3437	0.32	4.29	Lt sheen Amber	None
1032	0.3	1.8	0.05	~~24.5-25.0~~ 24.5	6.81	29.14	3435	0.34	8.26	Lt sheen Amber	None
		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~Allison Eggleston~~ / Sarasota County Ronald Moore	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1035	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): 24.5	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced))	DUPLICATE: (Y) (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	ESP	200
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	ESP	|
OE#G	1	HDPE	~~500 mL~~ 250 mL	HNO3 & wet ice	N/A	|	Metals – App. I	ESP	|
OE#F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	ESP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	ESP	|

REMARKS: Heavy sheen on water

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: CCSWDC	SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275	
WELL NO: MW-10R	SAMPLE ID: 4510	DATE: 10/2/18

TOC: 39.49

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 19.31	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.2 feet – 19.31 feet) X 0.16 gallons/foot = 1.8 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.3	PURGING INITIATED AT: 1156	PURGING ENDED AT: 1252	TOTAL VOLUME PURGED (gallons): 2.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1232	1.8	1.8	0.05	19.8-20.3	6.35	30.18	1642	0.07	0.73	Sheen Lt. Amber	None
1242	0.5	2.3	0.05	1	6.36	30.34	1644	0.06	4.76	Sheen Lt. Amber	None
~~1245~~ 1252	0.5	2.8	0.05	1	6.37	30.25	1642	0.08	0.66	Sheen Lt. Amber	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~Aileen Eggleston~~ / Sarasota County	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1255	SAMPLING ENDED AT: 1300
PUMP OR TUBING DEPTH IN WELL (feet): 20.3	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
A, B, C	3	CG	40 mL	HCl & wet ice	N/A	N/A	8260-vocs App. I	ESP	200
D, E	2	CG	40 mL	Wet ice	N/A	N/A	8011-EDB App. I	ESP	|
~~OP~~ G	1	HDPE	~~500 mL~~ 250 cc	HNO3 & wet ice	N/A	|	Metals – App. I	ESP	|
~~OP~~ F	1	HDPE	250 mL	H2SO4 & wet ice	N/A	|	Nutrients – App. I	ESP	|
H	1	HDPE	1 L	Wet ice	N/A	N/A	Misc. Inorg. App. I	ESP	|

REMARKS: Heavy sheen on water.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

BENCHMARK
EnviroAnalytical Inc.

NELAC Certification #E84167

ANALYTICAL TEST REPORT
THESE RESULTS MEET NELAC STANDARDS

Submission Number : 18101395

Sarasota County Utilities Oper
1255 T. Mabry Carlton Pkwy
Venice, FL 34293

Project Name : CENTRAL COUNTY SW
Date Received : 10/31/2018
Time Received : 1520

Cesar Rodriguez

Submission Number: 18101395
Sample Number: 001
Sample Description: Pond-1
Sample Date: 10/31/2018
Sample Time: 1015
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
FECAL COLIFORM	60 BV	#/100 ML	10	10	SM9222D	10/31/2018 16:09	KD

Submission Number: 18101395
Sample Number: 002
Sample Description: Pond-2
Sample Date: 10/31/2018
Sample Time: 0910
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
FECAL COLIFORM	300 V	#/100 ML	10	10	SM9222D	10/31/2018 16:09	KD

Submission Number: 18101395
Sample Number: 003
Sample Description: Field Blank
Sample Date: 10/31/2018
Sample Time: 0900
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
FECAL COLIFORM	100 BV	#/100 ML	10	10	SM9222D	10/31/2018 16:09	KD

Submission Number: 18101395
Sample Number: 004
Sample Description: Duplicate
Sample Date: 10/31/2018
Sample Time: 1015
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
FECAL COLIFORM	130 BV	#/100 ML	10	10	SM9222D	10/31/2018 16:09	KD

1711 12th Street East * Palmetto, FL 34221 * Phone (941) 723-9986 * Fax (941) 723-6061

BENCHMARK
EnviroAnalytical Inc.

NELAC Certification #E84167

11/02/2018

Dale D. Dixon / Laboratory Director — Date

Tülay Tanrisever / Kara Peterson - QC/QA Officers

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.
B = Results based upon colony counts outside the ideal range.
H = Value based on field kit determination. Results may not be accurate.
I = Reported value is between the laboratory MDL and the PQL.
J1 = Estimated value. Surrogate recovery limits exceeded.
J2 = Estimated value. No quality control criteria exists for component.
J3 = Estimated value. Quality control criteria for precision or accuracy not met.
J4 = Estimated value. Sample matrix interference suspected.
J5 = Estimated value. Data questionable due to improper lab or field protocols.
K = Off-scale low. Value is known to be < the value reported.
L = Off-scale high. Value is known to be > the value reported.
N = Presumptive evidence of presence of material.
O = Sampled, but analysis lost or not performed.
Q = Sample held beyond accepted hold time.
T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.
U = Analyte analyzed but not detected at the value indicated.
V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate and Spike values are within control limits. Reported data are usable.
Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.
Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.
! = Data deviate from historically established concentration ranges.
? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
* = Not reported due to interference.
Oil & Grease - If client does not send sufficient sample quantity for spike evaluation surface water samples are supplied by the laboratory.

NOTES:

MBAS calculated as LAS; molecular weight = 340.
PQL = 4xMDL.
ND = Not detected at or above the adjusted reporting limit.
X = Value exceeds MCL.
G1 = Accuracy standard does not meet method control limits, but does meet lab control limits that are in agreement with USEPA generated data. USEPA letter available upon request.

COMMENTS:

For questions or comments regarding these results, please contact us at (941) 723-9986.

Results relate only to the samples.

1711 12th Street East * Palmetto, FL 34221 * Phone (941) 723-9986 * Fax (941) 723-6061

Benchmark EnviroAnalytical, Inc.
1711 Twelfth Street East
Palmetto, FL 34221
(941) 723-9986
(941) 723-6061 fax
www.Benchmarkea.com

Client: **Sarasota County Environmental Services**
Resource Management
1255 T. Mabry Carlton Parkway
Venice, FL 34292
(941) 650-9834
(941) 650-1112
(941) 480-3558 fax

Project Name: Central County Surface water
Purchase Order Number: 180708

Laboratory Submission #: 18101395

Station ID:	Sample Matrix[2]	Sample Type[1]	**Analysis Requested:**			Laboratory Sample #
			Fecal coliform			
			Preservative: Sodium Thiosulfate			
~~SW Pond- SW-1~~ Pond-1 (28824)	surface	Grab	Date & Time: 10/31/18 1015			1
~~NE Pond -SW-2~~ Pond-2 (28825)	surface	Grab	Date & Time: 10/31/18 0910			2
Field Blank	surface	Grab	Date & Time: 10/31/18 0900			3
Duplicate	surface	Grab	Date & Time: 10/31/18 1015			4
			Date & Time:			
			Date & Time:			
			Date & Time:			

1 "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2 "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).
3 "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
4 **Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 4°C (39.2°F).**
Under "Preservative," list any preservatives that were added to the sample container.

Laboratory Sample Acceptability: pH <2 : ☑
BEAS Temperature:
BEA Temperature: 2.8°C

Instructions:
1. Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
3. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

1	Collector – Relinquished by: Ronald L. Moore	Date: 10/31/18	Time: 1115	Received By: Rudy Owen	Date: 10/31/18	Time: 1335
2	Relinquished by: Rudy Owen	Date: 10/31/18	Time:	Received By:	Date: 10/31/18	Time: 1520
3	Relinquished by:	Date:	Time	Received By:	Date:	Time