

February 07, 2014

Terri Page
Pace Analytical Charlotte
9800 Kinsey Ave. Suite 100
Huntersville, NC 28078

RE: Project: 92188445 Water Treatment Plant
Pace Project No.: 35124962

Dear Terri Page:

Enclosed are the analytical results for sample(s) received by the laboratory on February 05, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Ken Overstreet
ken.overstreet@pacelabs.com
Project Manager

Enclosures

cc: Client Services, Pace Analytical Charlotte



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 92188445 Water Treatment Plant

Pace Project No.: 35124962

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
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
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
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
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE ANALYTE COUNT

Project: 92188445 Water Treatment Plant

Pace Project No.: 35124962

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------|-----------|----------|-------------------|------------|
| 92188445002 | Balloo Pk Ct | EPA 200.8 | HEA | 14 | PASI-O |
| | | EPA 245.1 | HEA | 1 | PASI-O |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 92188445 Water Treatment Plant

Pace Project No.: 35124962

| Sample: Balloo Pk Ct | | Lab ID: 92188445002 | Collected: 02/04/14 09:20 | Received: 02/05/14 11:30 | Matrix: Water | | | |
|-----------------------------|------------------|--|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS | | Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 | | | | | | |
| Aluminum | 25.2 ug/L | | 10.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7429-90-5 | |
| Antimony | ND | ug/L | 1.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7440-36-0 | |
| Arsenic | ND | ug/L | 1.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7440-38-2 | |
| Barium | 33.0 ug/L | | 1.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7440-39-3 | |
| Beryllium | ND | ug/L | 0.10 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7440-41-7 | |
| Cadmium | ND | ug/L | 0.10 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7440-43-9 | |
| Chromium | ND | ug/L | 1.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7440-47-3 | |
| Copper | 3.1 ug/L | | 1.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7440-50-8 | |
| Lead | ND | ug/L | 1.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7439-92-1 | |
| Manganese | 4.2 ug/L | | 1.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7439-96-5 | |
| Nickel | ND | ug/L | 1.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7440-02-0 | |
| Selenium | ND | ug/L | 1.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7782-49-2 | |
| Thallium | ND | ug/L | 1.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7440-28-0 | |
| Zinc | 6.7 ug/L | | 5.0 | 1 | 02/06/14 16:49 | 02/07/14 12:05 | 7440-66-6 | |
| 245.1 Mercury | | Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 | | | | | | |
| Mercury | ND | ug/L | 0.20 | 1 | 02/06/14 13:19 | 02/07/14 11:12 | 7439-97-6 | |

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QUALITY CONTROL DATA

Project: 92188445 Water Treatment Plant

Pace Project No.: 35124962

| | | | |
|-------------------------|-------------|-----------------------|---------------|
| QC Batch: | MERP/4403 | Analysis Method: | EPA 245.1 |
| QC Batch Method: | EPA 245.1 | Analysis Description: | 245.1 Mercury |
| Associated Lab Samples: | 92188445002 | | |

METHOD BLANK: 823913 Matrix: Water
Associated Lab Samples: 92188445002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Mercury | ug/L | ND | 0.20 | 02/07/14 11:01 | |

LABORATORY CONTROL SAMPLE: 823914

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | ug/L | 2 | 1.9 | 95 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 823917 823918

| Parameter | Units | 35124732001 Result | 823917 | | 823918 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| | | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | |
| Mercury | ug/L | ND | 2 | 2 | 2.0 | 2.0 | 98 | 97 | 70-130 | 2 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 824305 824306

| Parameter | Units | 35124631001 Result | 824305 | | 824306 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| | | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | |
| Mercury | ug/L | <0.10 | 2 | 2 | 1.9 | 1.9 | 94 | 94 | 70-130 | 1 | |

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QUALITY CONTROL DATA

Project: 92188445 Water Treatment Plant

Pace Project No.: 35124962

QC Batch: MPRP/16932 Analysis Method: EPA 200.8
 QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
 Associated Lab Samples: 92188445002

METHOD BLANK: 824399 Matrix: Water
 Associated Lab Samples: 92188445002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Aluminum | ug/L | ND | 10.0 | 02/07/14 11:58 | |
| Antimony | ug/L | ND | 1.0 | 02/07/14 11:58 | |
| Arsenic | ug/L | ND | 1.0 | 02/07/14 11:58 | |
| Barium | ug/L | ND | 1.0 | 02/07/14 11:58 | |
| Beryllium | ug/L | ND | 0.10 | 02/07/14 11:58 | |
| Cadmium | ug/L | ND | 0.10 | 02/07/14 11:58 | |
| Chromium | ug/L | ND | 1.0 | 02/07/14 11:58 | |
| Copper | ug/L | ND | 1.0 | 02/07/14 11:58 | |
| Lead | ug/L | ND | 1.0 | 02/07/14 11:58 | |
| Manganese | ug/L | ND | 1.0 | 02/07/14 11:58 | |
| Nickel | ug/L | ND | 1.0 | 02/07/14 11:58 | |
| Selenium | ug/L | ND | 1.0 | 02/07/14 11:58 | |
| Thallium | ug/L | ND | 1.0 | 02/07/14 11:58 | |
| Zinc | ug/L | ND | 5.0 | 02/07/14 11:58 | |

LABORATORY CONTROL SAMPLE: 824400

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Aluminum | ug/L | 500 | 493 | 99 | 85-115 | |
| Antimony | ug/L | 50 | 47.1 | 94 | 85-115 | |
| Arsenic | ug/L | 50 | 50.2 | 100 | 85-115 | |
| Barium | ug/L | 50 | 47.3 | 95 | 85-115 | |
| Beryllium | ug/L | 5 | 5.0 | 101 | 85-115 | |
| Cadmium | ug/L | 5 | 4.8 | 96 | 85-115 | |
| Chromium | ug/L | 50 | 49.0 | 98 | 85-115 | |
| Copper | ug/L | 50 | 51.0 | 102 | 85-115 | |
| Lead | ug/L | 50 | 49.5 | 99 | 85-115 | |
| Manganese | ug/L | 50 | 49.1 | 98 | 85-115 | |
| Nickel | ug/L | 50 | 50.4 | 101 | 85-115 | |
| Selenium | ug/L | 50 | 51.1 | 102 | 85-115 | |
| Thallium | ug/L | 50 | 48.0 | 96 | 85-115 | |
| Zinc | ug/L | 250 | 251 | 100 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 824401 824402

| Parameter | Units | 35124930001 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Qual |
|-----------|-------|-------------|----------------|-------------|-----------|------------|----------|-----------|--------|--------------|-----|------|
| | | Result | MS Spike Conc. | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | |
| Aluminum | ug/L | 42.6 | 500 | 500 | 501 | 515 | 92 | 94 | 70-130 | 3 | | |
| Antimony | ug/L | 0.50U | 50 | 50 | 46.8 | 46.8 | 93 | 93 | 70-130 | .06 | | |
| Arsenic | ug/L | 1.4 | 50 | 50 | 48.9 | 49.3 | 95 | 96 | 70-130 | .9 | | |

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QUALITY CONTROL DATA

Project: 92188445 Water Treatment Plant

Pace Project No.: 35124962

| Parameter | Units | 35124930001 | | 824401 | | 824402 | | % Rec | % Rec | % Rec | Limits | RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-------|--------|-------|--------|-----|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | | | | | | |
| Barium | ug/L | 31.9 | 50 | 50 | 80.0 | 81.4 | 96 | 99 | 70-130 | 2 | | | |
| Beryllium | ug/L | 0.050U | 5 | 5 | 5.5 | 5.7 | 110 | 113 | 70-130 | 3 | | | |
| Cadmium | ug/L | 0.050U | 5 | 5 | 4.6 | 4.6 | 93 | 91 | 70-130 | 2 | | | |
| Chromium | ug/L | 1.2 | 50 | 50 | 47.9 | 48.9 | 93 | 96 | 70-130 | 2 | | | |
| Copper | ug/L | 0.50U | 50 | 50 | 44.5 | 44.7 | 89 | 89 | 70-130 | .4 | | | |
| Lead | ug/L | 0.50U | 50 | 50 | 45.7 | 46.1 | 91 | 92 | 70-130 | .8 | | | |
| Manganese | ug/L | 73.1 | 50 | 50 | 120 | 123 | 95 | 101 | 70-130 | 2 | | | |
| Nickel | ug/L | 1.2 | 50 | 50 | 46.5 | 47.7 | 91 | 93 | 70-130 | 2 | | | |
| Selenium | ug/L | 0.50U | 50 | 50 | 47.0 | 47.5 | 93 | 94 | 70-130 | 1 | | | |
| Thallium | ug/L | 0.50U | 50 | 50 | 51.2 | 51.1 | 102 | 102 | 70-130 | .3 | | | |
| Zinc | ug/L | 9.8 | 250 | 250 | 226 | 226 | 86 | 87 | 70-130 | .3 | | | |

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 92188445 Water Treatment Plant

Pace Project No.: 35124962

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 92188445 Water Treatment Plant

Pace Project No.: 35124962

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---------------|------------------|------------------------|-----------------|--------------------------|-------------------------|
| 92188445002 | Balloo Pk Ct | EPA 200.8 | MPRP/16932 | EPA 200.8 | ICPM/6845 |
| 92188445002 | Balloo Pk Ct | EPA 245.1 | MERP/4403 | EPA 245.1 | MERC/4401 |

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WO#: 35124962



Chain of Custody



Workorder: 92188445 Workorder Name: Water Treatment Plant Owner Received Date: 2/4/2014 Results Requested By: 2/12/2014

Terri Page
Pace Analytical Services, Inc.
9800 Kinsey Ave., Suite 100
Huntersville, NC 28078
Phone (704)875-9092
Fax (704)875-9091

| Report To | | Subcontract ID | | Requested Analysis | | | |
|--|--------------|--|-------------------|--|-----------------|----------------------|----------------|
| Pace Analytical Ormond Beach 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668 | | Pace Analytical Ormond Beach 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668 | | Beryllium + Aluminum + Chromium + Manganese + Nickel/Copper + Zinc/Arsenic + Selenium + Cadmium + Anthromy + Barium + Mercury/Lead + Thallium + | | | |
| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers | LAB USE ONLY |
| 1 | BALLOO PK CT | PS | 2/4/2014 09:20 | 92188445002 | Water | 1 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| Transfers | | Released By | Date/Time | Received By | Date/Time | Comments | |
| 1 | | | | J. Platt | 2/5/14 11:30 | RUST! 3 day turn | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| Cooler Temperature on Receipt | | 0.2 °C | Custody Seal | Y or N | Received on Ice | Y pr N | Samples Intact |
| | | | | | | | Y or N |

Sample Condition Upon Receipt Form (SCUR) Table Number: _____

Client Name: PACCHA Project # 35124962

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking # 7978 1690 2331

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

Date and Initials of person examining contents: JP 2/5/14

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T-119 Type of Ice: Wet Blue None

Cooler Temperature: 0.7 (Visual) 0.5 (Correction Factor) 0.2 (Actual)

(Temp should be above freezing to 5°C. If below 0°C, then was sample frozen?)

Yes No

Receipt of samples satisfactory: Yes No

Rush TAT requested on COC:

If yes, then all conditions below were met: If no, then mark box & describe issue (use comments area if necessary):

| | |
|--|--|
| Chain of Custody Present | <input type="checkbox"/> |
| Chain of Custody Filled Out | <input type="checkbox"/> |
| Relinquished Signature & Sampler Name COC | <input type="checkbox"/> |
| Samples Arrived within Hold Time | <input type="checkbox"/> |
| Sufficient Volume | <input type="checkbox"/> |
| Correct Containers Used | <input type="checkbox"/> |
| Containers Intact | <input type="checkbox"/> |
| Sample Labels match COC (sample IDs & date/time of collection) | <input type="checkbox"/> |
| | No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/> |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input type="checkbox"/> |
| No Headspace in VOA Vials (>6mm): | <input type="checkbox"/> |

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

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

Project Manager Review: _____

JP

Date: 2-5-14

| Finished Product Information Only | |
|---|---|
| F.P. Sample ID: _____ | Size & Qty of Bottles Received |
| Production Code: _____ | _____ x 5 Gal |
| Date/Time Opened: _____ | _____ x 2.5 Gal |
| Number of Unopened Bottles Remaining: _____ | _____ x 1 Gal |
| | _____ x 1 Liter |
| | _____ x 500 mL |
| | _____ x 250 mL |
| | _____ x Other: _____ |
| Extra Sample in Shed: Yes No | |