

March 08, 2018

Rob King
Hampton Bays Water District
P.O. Box 1013
Hampton Bays, NY 11946

RE: Project: METALS 3/7
Pace Project No.: 7044715

Dear Rob King:

Enclosed are the analytical results for sample(s) received by the laboratory on March 07, 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,



Stu Murrell
stu.murrell@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Warren Booth, Hampton Bays Water District
John Collins, H2M Group
Stella Michaels, Hampton Bays Water District
Paul Ponturo, H2M Group



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: METALS 3/7

Pace Project No.: 7044715

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: METALS 3/7

Pace Project No.: 7044715

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7044715001	57 HOMEWOOD DR.	Drinking Water	03/07/18 10:15	03/07/18 16:00

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: METALS 3/7

Pace Project No.: 7044715

Lab ID	Sample ID	Method	Analysts	Analytes Reported
7044715001	57 HOMEWOOD DR.	EPA 200.7	JMW	4
		EPA 200.8	SK2	12

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: METALS 3/7

Pace Project No.: 7044715

Sample: 57 HOMEWOOD DR. **Lab ID: 7044715001** Collected: 03/07/18 10:15 Received: 03/07/18 16:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water		Analytical Method: EPA 200.7							
Ca Hardness as CaCO ₃ (SM 2340B)	25.2	mg/L	0.50		1		03/08/18 13:01		
Iron	0.020	mg/L	0.020		1		03/08/18 13:01	7439-89-6	
Manganese	<0.010	mg/L	0.010		1		03/08/18 13:01	7439-96-5	
Sodium	32.2	mg/L	0.20		1		03/08/18 13:01	7440-23-5	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Antimony	<0.40	ug/L	0.40		1		03/08/18 12:46	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		03/08/18 12:46	7440-38-2	
Barium	0.021	mg/L	0.0020		1		03/08/18 12:46	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		03/08/18 12:46	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		03/08/18 12:46	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		03/08/18 12:46	7440-47-3	
Lead	<1.0	ug/L	1.0		1		03/08/18 12:46	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		03/08/18 12:46	7439-97-6	
Nickel	<0.00050	mg/L	0.00050		1		03/08/18 12:46	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		03/08/18 12:46	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		03/08/18 12:46	7440-22-4	M1
Thallium	<0.30	ug/L	0.30		1		03/08/18 12:46	7440-28-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: METALS 3/7
Pace Project No.: 7044715

QC Batch: 58911	Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7	Analysis Description: 200.7 MET No Prep Drinking Water
Associated Lab Samples: 7044715001	

METHOD BLANK: 270070 Matrix: Drinking Water
Associated Lab Samples: 7044715001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B)	mg/L	<0.50	0.50	03/08/18 12:59	
Iron	mg/L	<0.020	0.020	03/08/18 12:59	
Manganese	mg/L	<0.010	0.010	03/08/18 12:59	
Sodium	mg/L	<0.20	0.20	03/08/18 12:59	

LABORATORY CONTROL SAMPLE: 270071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B)	mg/L		61.4			
Iron	mg/L	2	2.0	98	85-115	
Manganese	mg/L	.25	0.24	97	85-115	
Sodium	mg/L	50	49.1	98	85-115	

MATRIX SPIKE SAMPLE: 270073

Parameter	Units	7044715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B)	mg/L	25.2		87.4			
Iron	mg/L	0.020	2	2.0	101	70-130	
Manganese	mg/L	<0.010	.25	0.25	101	70-130	
Sodium	mg/L	32.2	50	81.0	98	70-130	

MATRIX SPIKE SAMPLE: 270075

Parameter	Units	7044567001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B)	mg/L	8.4		69.7			
Iron	mg/L	<0.020	2	2.0	100	70-130	
Manganese	mg/L	<10.0 ug/L	.25	0.25	100	70-130	
Sodium	mg/L	4.4	50	53.2	98	70-130	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: METALS 3/7

Pace Project No.: 7044715

SAMPLE DUPLICATE: 270072

Parameter	Units	7044715001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B	mg/L	25.2	25.5	1	20	
Iron	mg/L	0.020	0.021	4	20	
Manganese	mg/L	<0.010	<0.010		20	
Sodium	mg/L	32.2	32.4	1	20	

SAMPLE DUPLICATE: 270074

Parameter	Units	7044567001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ca Hardness as CaCO ₃ (SM 2340B	mg/L	8.4	8.1	3	20	
Iron	mg/L	<0.020	<0.020		20	
Manganese	mg/L	<10.0 ug/L	<0.010		20	
Sodium	mg/L	4.4	4.3	3	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: METALS 3/7
Pace Project No.: 7044715

QC Batch: 58922 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Associated Lab Samples: 7044715001

METHOD BLANK: 270102 Matrix: Water
Associated Lab Samples: 7044715001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.40	0.40	03/08/18 12:40	
Arsenic	ug/L	<1.0	1.0	03/08/18 12:40	
Barium	mg/L	<0.0020	0.0020	03/08/18 12:40	
Beryllium	ug/L	<0.30	0.30	03/08/18 12:40	
Cadmium	ug/L	<1.0	1.0	03/08/18 12:40	
Chromium	mg/L	<0.0070	0.0070	03/08/18 12:40	
Lead	ug/L	<1.0	1.0	03/08/18 12:40	
Mercury	ug/L	<0.20	0.20	03/08/18 12:40	
Nickel	mg/L	<0.00050	0.00050	03/08/18 12:40	
Selenium	ug/L	<2.0	2.0	03/08/18 12:40	
Silver	mg/L	<0.0010	0.0010	03/08/18 12:40	
Thallium	ug/L	<0.30	0.30	03/08/18 12:40	

LABORATORY CONTROL SAMPLE: 270103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.6	101	85-115	
Arsenic	ug/L	50	50.5	101	85-115	
Barium	mg/L	.05	0.049	99	85-115	
Beryllium	ug/L	50	49.1	98	85-115	
Cadmium	ug/L	50	49.2	98	85-115	
Chromium	mg/L	.05	0.051	103	85-115	
Lead	ug/L	50	50.5	101	85-115	
Mercury	ug/L	1.5	1.5	100	85-115	
Nickel	mg/L	.05	0.049	99	85-115	
Selenium	ug/L	50	49.8	100	85-115	
Silver	mg/L	.05	0.049	98	85-115	
Thallium	ug/L	50	52.0	104	85-115	

MATRIX SPIKE SAMPLE: 270105

Parameter	Units	7044715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.40	10	9.5	95	70-130	
Arsenic	ug/L	<1.0	4	4.0	97	70-130	
Barium	mg/L	0.021	.2	0.22	98	70-130	
Beryllium	ug/L	<0.30	5	5.0	100	70-130	
Cadmium	ug/L	<1.0	5	4.9	98	70-130	
Chromium	mg/L	<0.0070	.02	0.017	84	70-130	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: METALS 3/7

Pace Project No.: 7044715

MATRIX SPIKE SAMPLE: 270105

Parameter	Units	7044715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	2	2.2	97	70-130	
Mercury	ug/L	<0.20	.4	0.43	100	70-130	
Nickel	mg/L	<0.00050	.05	0.045	91	70-130	
Selenium	ug/L	<2.0	1	<2.0	103	70-130	
Silver	mg/L	<0.0010	.005	0.0032	64	70-130	M1
Thallium	ug/L	<0.30	5	5.0	99	70-130	

MATRIX SPIKE SAMPLE: 270108

Parameter	Units	7044733003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.40	10	9.4	93	70-130	
Arsenic	ug/L	2.8	4	6.5	92	70-130	
Barium	mg/L	4.2 ug/L	.2	0.20	99	70-130	
Beryllium	ug/L	<0.30	5	5.1	101	70-130	
Cadmium	ug/L	<1.0	5	5.0	99	70-130	
Chromium	mg/L	<7.0 ug/L	.02	0.015	75	70-130	
Lead	ug/L	<1.0	2	2.0	99	70-130	
Mercury	ug/L	<0.20	.4	0.33	80	70-130	
Nickel	mg/L	<0.50 ug/L	.05	0.047	93	70-130	
Selenium	ug/L	<2.0	1	<2.0	88	70-130	
Silver	mg/L	<1.0 ug/L	.005	0.0033	65	70-130	M1
Thallium	ug/L	<0.30	5	5.1	101	70-130	

SAMPLE DUPLICATE: 270104

Parameter	Units	7044715001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	<0.40	<0.40		20	
Arsenic	ug/L	<1.0	<1.0		20	
Barium	mg/L	0.021	0.021	0	20	
Beryllium	ug/L	<0.30	<0.30		20	
Cadmium	ug/L	<1.0	<1.0		20	
Chromium	mg/L	<0.0070	<0.0070		20	
Lead	ug/L	<1.0	<1.0		20	
Mercury	ug/L	<0.20	<0.20		20	
Nickel	mg/L	<0.00050	<0.00050		20	
Selenium	ug/L	<2.0	<2.0		20	
Silver	mg/L	<0.0010	<0.0010		20	
Thallium	ug/L	<0.30	<0.30		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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: METALS 3/7

Pace Project No.: 7044715

SAMPLE DUPLICATE: 270107

Parameter	Units	7044733003 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	<0.40	<0.40		20	
Arsenic	ug/L	2.8	2.8	1	20	
Barium	mg/L	4.2 ug/L	0.0043	2	20	
Beryllium	ug/L	<0.30	<0.30		20	
Cadmium	ug/L	<1.0	<1.0		20	
Chromium	mg/L	<7.0 ug/L	<0.0070		20	
Lead	ug/L	<1.0	<1.0		20	
Mercury	ug/L	<0.20	<0.20		20	
Nickel	mg/L	<0.50 ug/L	<0.00050		20	
Selenium	ug/L	<2.0	<2.0		20	
Silver	mg/L	<1.0 ug/L	<0.0010		20	
Thallium	ug/L	<0.30	<0.30		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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: METALS 3/7

Pace Project No.: 7044715

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

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

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.

SAMPLE QUALIFIERS

Sample: 7044715001

[1] ABBIE DERMODY

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: METALS 3/7

Pace Project No.: 7044715

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7044715001	57 HOMEWOOD DR.	EPA 200.7	58911		
7044715001	57 HOMEWOOD DR.	EPA 200.8	58922		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Sample Request Form PUBLIC WATER SUPPLIER

WELL OFF LINE

WELL RUN TO SYSTEM

YES NO VOC'S PRESERVED WITH HCl

Back 1600

Date: 3-7-18

Collected By: K. Turner

Accepted By: [Signature]

Cooler Temp: 3.1 °C

747

WO#: 7044715



Call 704-471-735

Name or Code: HAMPTON BAYS WATER DISTRICT
 Address: PO BOX 1013
HAMPTON BAYS, NEW YORK 11946
(631) 728-0179

Phone #: _____
 Attn: _____
 Proj. # or (Name): _____
 Bill To: _____
 Copies To: _____

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl ₂	pH/Temp	Analysis	Lab No.
<u>8:10AM</u> <u>3-7-18</u>	<u>PW</u>	<u>#3</u>	<u>D</u>	<u>-</u>	<u>RO</u>	<u>.40</u>	<u>7.02</u>	<u>I.O.C.</u>	<u>20.7°C</u>
<u>10:00AM</u> <u>3-7-18</u>	<u>PW</u>	<u>#8</u>	<u>D</u>	<u>-</u>	<u>RO</u>	<u>.88</u>	<u>7.08</u>	<u>IOC</u>	<u>12.5°C</u>
<u>10:15AM</u> <u>3-7-18</u>	<u>PW</u>	<u>ABBIE DERWOOD</u> <u>57 Homewood DR</u>	<u>D</u>	<u>-</u>	<u>S</u>	<u>.43</u>	<u>7.28</u>	<u>METERS</u>	<u>001</u>

Remarks:



Sample Condition Upon Receipt

Client Name: HBW

Proj **WO#: 7044715**
 PM: SWM Due Date: 03/15/18
 CLIENT: HBW

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____
 Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Thermometer Used: TH091 Correction Factor: 0.0

Cooler Temperature (°C): 3.1 Cooler Temperature Corrected (°C): 3.1

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: EO 3/7/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL			
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>110613865</u>			
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis			
	Initial when completed:	Lot # of added preservative:	Date/Time preservative added
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
KI starch test strips Lot #			
Residual chlorine strips Lot #	Positive for Res. Chlorine? Y N		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____