

July 23, 2018

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

RE: Project: METALS/BAC 7/18
Pace Project No.: 7058722

Dear Rob King:

Enclosed are the analytical results for sample(s) received by the laboratory on July 18, 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

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CERTIFICATIONS

Project: METALS/BAC 7/18

Pace Project No.: 7058722

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

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SAMPLE SUMMARY

Project: METALS/BAC 7/18
Pace Project No.: 7058722

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7058722001	KHOSROVA 13 MADISON AVE	Drinking Water	07/18/18 10:15	07/18/18 16:00

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SAMPLE ANALYTE COUNT

Project: METALS/BAC 7/18

Pace Project No.: 7058722

Lab ID	Sample ID	Method	Analysts	Analytes Reported
7058722001	KHOSROVA 13 MADISON AVE	EPA 200.7	AKS	5
		EPA 200.8	SK2	12
		SM22 9223B Colilert	NML	2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: METALS/BAC 7/18
Pace Project No.: 7058722

Sample: KHOSROVA 13 MADISON AVE **Lab ID: 7058722001** Collected: 07/18/18 10:15 Received: 07/18/18 16:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Chlorine and pH									
Analytical Method:									
Field Residual Chlorine	0.64	mg/L			1		07/18/18 10:15		N3
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7									
Ca Hardness as CaCO ₃ (SM 2340B)	55.7	mg/L	0.50		1		07/23/18 14:12		
Iron	<0.020	mg/L	0.020		1		07/23/18 14:12	7439-89-6	
Manganese	<0.010	mg/L	0.010		1		07/23/18 14:12	7439-96-5	
Sodium	27.1	mg/L	0.20		1		07/23/18 14:12	7440-23-5	
Zinc	<0.020	mg/L	0.020		1		07/23/18 14:12	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8									
Antimony	<0.40	ug/L	0.40		1		07/23/18 13:25	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		07/23/18 13:25	7440-38-2	
Barium	0.034	mg/L	0.0020		1		07/23/18 13:25	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		07/23/18 13:25	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		07/23/18 13:25	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		07/23/18 13:25	7440-47-3	
Lead	<1.0	ug/L	1.0		1		07/23/18 13:25	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		07/23/18 13:25	7439-97-6	
Nickel	0.00055	mg/L	0.00050		1		07/23/18 13:25	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		07/23/18 13:25	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		07/23/18 13:25	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		07/23/18 13:25	7440-28-0	
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert									
Total Coliforms	Absent				1	07/18/18 18:30	07/19/18 12:30		
E.coli	Absent				1	07/18/18 18:30	07/19/18 12:30		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: METALS/BAC 7/18
Pace Project No.: 7058722

QC Batch: 76179 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET No Prep Drinking Water
Associated Lab Samples: 7058722001

METHOD BLANK: 350157 Matrix: Drinking Water
Associated Lab Samples: 7058722001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ca Hardness as CaCO3 (SM 2340B)	mg/L	<0.50	0.50	07/23/18 14:05	
Iron	mg/L	<0.020	0.020	07/23/18 14:05	
Manganese	mg/L	<0.010	0.010	07/23/18 14:05	
Sodium	mg/L	<0.20	0.20	07/23/18 14:05	
Zinc	mg/L	<0.020	0.020	07/23/18 14:05	

LABORATORY CONTROL SAMPLE: 350158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B)	mg/L		64.4			
Iron	mg/L	2	2.0	102	85-115	
Manganese	mg/L	.25	0.25	101	85-115	
Sodium	mg/L	50	51.8	104	85-115	
Zinc	mg/L	1	1.0	102	85-115	

MATRIX SPIKE SAMPLE: 350161

Parameter	Units	7057260001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B)	mg/L	<500 ug/L		77.7			
Iron	mg/L	<20.0 ug/L	2	2.6	130	70-130	
Manganese	mg/L	<10.0 ug/L	.25	0.33	132	70-130 M1	
Sodium	mg/L	<200 ug/L	50	62.6	125	70-130	
Zinc	mg/L	<20.0 ug/L	1	1.3	133	70-130 M1	

SAMPLE DUPLICATE: 350160

Parameter	Units	7057260001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ca Hardness as CaCO3 (SM 2340B)	mg/L	<500 ug/L	<0.50		20	
Iron	mg/L	<20.0 ug/L	<0.020		20	
Manganese	mg/L	<10.0 ug/L	<0.010		20	
Sodium	mg/L	<200 ug/L	<0.20		20	
Zinc	mg/L	<20.0 ug/L	<0.020		20	

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QUALITY CONTROL DATA

Project: METALS/BAC 7/18

Pace Project No.: 7058722

QC Batch: 76117

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET No Prep Drinking Water

Associated Lab Samples: 7058722001

METHOD BLANK: 349928

Matrix: Water

Associated Lab Samples: 7058722001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.40	0.40	07/23/18 12:33	
Arsenic	ug/L	<1.0	1.0	07/23/18 12:33	
Barium	mg/L	<0.0020	0.0020	07/23/18 12:33	
Beryllium	ug/L	<0.30	0.30	07/23/18 12:33	
Cadmium	ug/L	<1.0	1.0	07/23/18 12:33	
Chromium	mg/L	<0.0070	0.0070	07/23/18 12:33	
Lead	ug/L	<1.0	1.0	07/23/18 12:33	
Mercury	ug/L	<0.20	0.20	07/23/18 12:33	
Nickel	mg/L	<0.00050	0.00050	07/23/18 12:33	
Selenium	ug/L	<2.0	2.0	07/23/18 12:33	
Silver	mg/L	<0.0010	0.0010	07/23/18 12:33	
Thallium	ug/L	<0.30	0.30	07/23/18 12:33	

LABORATORY CONTROL SAMPLE: 349929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.7	99	85-115	
Arsenic	ug/L	50	50.1	100	85-115	
Barium	mg/L	.05	0.051	102	85-115	
Beryllium	ug/L	50	49.4	99	85-115	
Cadmium	ug/L	50	49.7	99	85-115	
Chromium	mg/L	.05	0.050	101	85-115	
Lead	ug/L	50	49.5	99	85-115	
Mercury	ug/L	1.5	1.5	97	85-115	
Nickel	mg/L	.05	0.050	101	85-115	
Selenium	ug/L	50	49.6	99	85-115	
Silver	mg/L	.05	0.050	99	85-115	
Thallium	ug/L	50	52.1	104	85-115	

MATRIX SPIKE SAMPLE: 349932

Parameter	Units	7058809001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.40	10	11.1	111	70-130	
Arsenic	ug/L	<1.0	4	4.9	120	70-130	
Barium	mg/L	45.8 ug/L	.2	0.29	121	70-130	
Beryllium	ug/L	<0.30	5	6.1	121	70-130	
Cadmium	ug/L	<1.0	5	5.9	118	70-130	
Chromium	mg/L	<0.0070	.02	0.023	113	70-130	

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QUALITY CONTROL DATA

Project: METALS/BAC 7/18

Pace Project No.: 7058722

MATRIX SPIKE SAMPLE: 349932		7058809001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Lead	ug/L	<1.0	2	2.3	110	70-130	
Mercury	ug/L	<0.20	.4	0.37	87	70-130	
Nickel	mg/L	<0.50 ug/L	.05	0.056	112	70-130	
Selenium	ug/L	<2.0	1	<2.0	108	70-130	
Silver	mg/L	<1.0 ug/L	.005	0.0048	95	70-130	
Thallium	ug/L	<0.30	5	5.5	110	70-130	

MATRIX SPIKE SAMPLE: 349934		7058811001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	ug/L	<0.40	10	11.2	111	70-130	
Arsenic	ug/L	<1.0	4	4.0	98	70-130	
Barium	mg/L	67.7 ug/L	.2	0.31	121	70-130	
Beryllium	ug/L	<0.30	5	6.1	121	70-130	
Cadmium	ug/L	<1.0	5	6.1	120	70-130	
Chromium	mg/L	<0.0070	.02	0.019	95	70-130	
Lead	ug/L	<1.0	2	2.2	109	70-130	
Mercury	ug/L	<0.20	.4	0.37	91	70-130	
Nickel	mg/L	<0.50 ug/L	.05	0.047	93	70-130	
Selenium	ug/L	<2.0	1	<2.0	127	70-130	
Silver	mg/L	<1.0 ug/L	.005	0.0048	96	70-130	
Thallium	ug/L	<0.30	5	5.5	109	70-130	

SAMPLE DUPLICATE: 349931		7058809001	Dup	RPD	Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Antimony	ug/L	<0.40	<0.40		20	
Arsenic	ug/L	<1.0	<1.0		20	
Barium	mg/L	45.8 ug/L	0.046	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	<0.50 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	

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QUALITY CONTROL DATA

Project: METALS/BAC 7/18

Pace Project No.: 7058722

SAMPLE DUPLICATE: 349933

Parameter	Units	7058811001 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	67.7 ug/L	0.068	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	<0.50 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	

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QUALITY CONTROL DATA

Project: METALS/BAC 7/18

Pace Project No.: 7058722

QC Batch: 75740

Analysis Method: SM22 9223B Colilert

QC Batch Method: SM22 9223B Colilert

Analysis Description: TotColDW MBIO Total Coliform

Associated Lab Samples: 7058722001

METHOD BLANK: 348320

Matrix: Drinking Water

Associated Lab Samples: 7058722001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
E.coli		Absent		07/19/18 12:30	
Total Coliforms		Absent		07/19/18 12:30	

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QUALIFIERS

Project: METALS/BAC 7/18

Pace Project No.: 7058722

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 - 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.

ANALYTE QUALIFIERS

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

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: METALS/BAC 7/18

Pace Project No.: 7058722

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7058722001	KHOSROVA 13 MADISON AVE		75896		
7058722001	KHOSROVA 13 MADISON AVE	EPA 200.7	76179		
7058722001	KHOSROVA 13 MADISON AVE	EPA 200.8	76117		
7058722001	KHOSROVA 13 MADISON AVE	SM22 9223B Colilert	75740	SM22 9223B Colilert	75779

REPORT OF LABORATORY ANALYSIS

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WO#: 7058722



NY 11747
8436

Client Info:

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

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl ₂ pH/Temp	Analysis	Lab No.
7-18-18 8:05	SW	WELL 2-1	RW	-	RO	6.76 / 13.50	BACT + POC'S	7/18/18 001
7-18-18 8:17	GW	WELL 2-2	RW	-	RO	6.64 / 13.80	BACT + POC'S	7/18/18 002
7-18-18 9:10	GW	WELL 3-1	RW	-	RO	6.63 / 14.20	BACT + POC'S	7/18/18 003
7-18-18 9:00	GW	WELL 3-2	RW	-	RO	6.38 / 13.70	BACT + POC'S	7/18/18 004
7-18-18 9:20	GW	WELL 3-3	RW	-	RO	6.41 / 13.40	BACT + POC'S	7/18/18 005
7-18-18 8:35	GW	WELL 4-1	RW	-	RO	6.54 / 13.40	BACT + POC'S	7/18/18 006
7-18-18 8:40	GW	WELL 4-2	RW	-	RO	6.40 / 13.80	BACT + POC'S	7/18/18 007
7-18-18 9:40	GW	WELL 5-1	RW	-	RO	6.43 / 14.30	BACT + POC'S	7/18/18 008
10:15	PW	KHOSROVA 13 MADISON AVE	PW	-	S	7.12	Metals, Lead + Copper	001
10:15	PW	KHOSROVA 13 MADISON AVE	PW	-	S	7.12	BACT W/CL	↓
10:30	PW	WELL 1-1	RW	-	RO	6.15 / 14.00	BACT + POC'S	
10:45	PW	WELL 1-2	RW	-	RO	6.39 / 14.60	BACT + POC'S	

**Sample Request Form
PUBLIC WATER SUPPLIER**

Date: 7-18-18

Collected By: W Booth

Accepted By: [Signature]

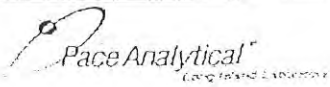
Cooler Temp: 3.8 °C

WELL OFF LINE 1-1, 1-2

WELL RUN TO SYSTEM 2-1, 2-2, 3-1, 3-2, 3-3, 4-1, 4-2, 5-1

YES NO VOC'S PRESERVED WITH HCl Back 1600

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 Condition Upon Receipt

WO#: 7058722

Client Name: Hampton Bays

PM: SWM Due Date: 08/17/18

CLIENT: HBW

Courier: Fed Ex UPS USPS Client Commercial Pace Other

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

Temperature Blank Present: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: TH091

Correction Factor: 0.0

Samples on ice, cooling process has begun

Cooler Temperature (°C): 3.8 Cooler Temperature Corrected (°C): 3.8

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil: N/A, water sample

Date and Initials of person examining contents: JK 7/18/18

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.

Table with 16 rows and 3 columns: Field Name, Yes/No/N/A checkboxes, and Comments. Includes fields like Chain of Custody Present, Sample Labels match COC, and pH paper Lot #.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.