

July 16, 2018

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

RE: Project: FE/MN 7/13
Pace Project No.: 7058185

Dear Rob King:
Enclosed are the analytical results for sample(s) received by the laboratory on July 13, 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: FE/MN 7/13

Pace Project No.: 7058185

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: FE/MN 7/13

Pace Project No.: 7058185

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7058185001	BOOTH	Drinking Water	07/13/18 10:35	07/13/18 15:20
7058185002	CONNOLLY	Drinking Water	07/13/18 10:50	07/13/18 15:20
7058185003	GALGANO	Drinking Water	07/13/18 11:00	07/13/18 15:20
7058185004	KAPPERS	Drinking Water	07/13/18 11:07	07/13/18 15:20
7058185005	MOLNARS	Drinking Water	07/13/18 11:20	07/13/18 15:20
7058185006	TUTINO	Drinking Water	07/13/18 10:20	07/13/18 15:20

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SAMPLE ANALYTE COUNT

Project: FE/MN 7/13

Pace Project No.: 7058185

Lab ID	Sample ID	Method	Analysts	Analytes Reported
7058185001	BOOTH	EPA 200.7	JMW	2
7058185002	CONNOLLY	EPA 200.7	JMW	2
7058185003	GALGANO	EPA 200.7	JMW	2
7058185004	KAPPERS	EPA 200.7	JMW	2
7058185005	MOLNARS	EPA 200.7	JMW	2
7058185006	TUTINO	EPA 200.7	JMW	2

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ANALYTICAL RESULTS

Project: FE/MN 7/13

Pace Project No.: 7058185

Sample: BOOTH **Lab ID: 7058185001** Collected: 07/13/18 10:35 Received: 07/13/18 15:20 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							
Iron	0.58	mg/L	0.020		1		07/16/18 11:49	7439-89-6	
Manganese	0.037	mg/L	0.010		1		07/16/18 11:49	7439-96-5	

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ANALYTICAL RESULTS

Project: FE/MN 7/13

Pace Project No.: 7058185

Sample: CONNOLLY		Lab ID: 7058185002		Collected: 07/13/18 10:50	Received: 07/13/18 15:20	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							
Iron	0.61	mg/L	0.020		1		07/16/18 11:53	7439-89-6	
Manganese	0.067	mg/L	0.010		1		07/16/18 11:53	7439-96-5	

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ANALYTICAL RESULTS

Project: FE/MN 7/13

Pace Project No.: 7058185

Sample: GALGANO **Lab ID: 7058185003** Collected: 07/13/18 11:00 Received: 07/13/18 15:20 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							
Iron	0.52	mg/L	0.020		1		07/16/18 11:57	7439-89-6	
Manganese	0.032	mg/L	0.010		1		07/16/18 11:57	7439-96-5	

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ANALYTICAL RESULTS

Project: FE/MN 7/13

Pace Project No.: 7058185

Sample: KAPPERS		Lab ID: 7058185004		Collected: 07/13/18 11:07	Received: 07/13/18 15:20	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								
Iron	0.57	mg/L	0.020		1		07/16/18 12:00	7439-89-6		
Manganese	0.082	mg/L	0.010		1		07/16/18 12:00	7439-96-5		

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ANALYTICAL RESULTS

Project: FE/MN 7/13

Pace Project No.: 7058185

Sample: MOLNARS		Lab ID: 7058185005		Collected: 07/13/18 11:20	Received: 07/13/18 15:20	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								
Iron	0.63	mg/L	0.020		1		07/16/18 12:01	7439-89-6		
Manganese	0.062	mg/L	0.010		1		07/16/18 12:01	7439-96-5		

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ANALYTICAL RESULTS

Project: FE/MN 7/13

Pace Project No.: 7058185

Sample: TUTINO		Lab ID: 7058185006		Collected: 07/13/18 10:20	Received: 07/13/18 15:20	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								
Iron	0.63	mg/L	0.020		1		07/16/18 12:02	7439-89-6		
Manganese	0.070	mg/L	0.010		1		07/16/18 12:02	7439-96-5		

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QUALITY CONTROL DATA

Project: FE/MN 7/13
Pace Project No.: 7058185

QC Batch: 75199 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET No Prep Drinking Water
Associated Lab Samples: 7058185001, 7058185002, 7058185003, 7058185004, 7058185005, 7058185006

METHOD BLANK: 345704 Matrix: Drinking Water
Associated Lab Samples: 7058185001, 7058185002, 7058185003, 7058185004, 7058185005, 7058185006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	mg/L	<0.020	0.020	07/16/18 11:47	
Manganese	mg/L	<0.010	0.010	07/16/18 11:47	

LABORATORY CONTROL SAMPLE: 345705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	2	2.0	98	85-115	
Manganese	mg/L	.25	0.25	98	85-115	

MATRIX SPIKE SAMPLE: 345708

Parameter	Units	7058185001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	0.58	2	2.7	105	70-130	
Manganese	mg/L	0.037	.25	0.30	106	70-130	

MATRIX SPIKE SAMPLE: 345710

Parameter	Units	7058185002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	0.61	2	2.7	105	70-130	
Manganese	mg/L	0.067	.25	0.33	107	70-130	

SAMPLE DUPLICATE: 345707

Parameter	Units	7058185001 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron	mg/L	0.58	0.58	0	20	
Manganese	mg/L	0.037	0.036	1	20	

SAMPLE DUPLICATE: 345709

Parameter	Units	7058185002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron	mg/L	0.61	0.60	2	20	
Manganese	mg/L	0.067	0.064	4	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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QUALIFIERS

Project: FE/MN 7/13

Pace Project No.: 7058185

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FE/MN 7/13

Pace Project No.: 7058185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7058185001	BOOTH	EPA 200.7	75199		
7058185002	CONNOLLY	EPA 200.7	75199		
7058185003	GALGANO	EPA 200.7	75199		
7058185004	KAPPERS	EPA 200.7	75199		
7058185005	MOLNARS	EPA 200.7	75199		
7058185006	TUTINO	EPA 200.7	75199		

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WO#: 7058185



Sample Request Form PUBLIC WATER SUPPLIER

Date: 7-13-18

Collected By: *W. B...*

Accepted By: *W. B...*

Cooler Temp: 26 °C

WELL OFF LINE

WELL RUN TO SYSTEM

YES NO VOC'S PRESERVED WITH HCl

Back 1520

Client Info:

Name or Code: HAMPTON BAYS WATER DISTRICT

Address: P.O. BOX 1013
HAMPTON BAYS, NEW YORK 11946

Phone #: (631) 728-0179

Attn:

Proj. # or (Name):

Bill To:

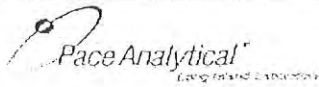
Copies To:

Sample Info:

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	

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Cl ₂	Field Readings pH/Temp	Analysis	Lab No.
10:35 7-13-18	PW	Booth	D	-	S	.99 .95	7.05 7.10	METALS (IRON, MANG)	001
10:50 7-13-18	PW	CONNOLLY	D	-	S	.97	7.15	METALS	002
11:00 7-13-18	PW	GALGANO	D	-	S	.83	7.00	METALS	003
11:07 7-13-18	PW	KAPPERS	D	-	S	.97	7.01	METALS	004
11:20 7-13-18	PW	MOUNDES	D	-	S	.94	7.13	METALS	005
10:20 7-13-18	PW	TUTINO	D	-	S	.95	7.10	METALS	004

Remarks:



Sample Condition Upon Receipt

WO#: 7058185

Client Name: H Bay

PM: SWM Due Date: 07/23/18
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): 2.6

Cooler Temperature Corrected (C): 2.6

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: 7/13/18

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 2 main columns: Checklist items and COMMENTS. Includes checkboxes for Chain of Custody, Containers, and various tests.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

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