15 November 2023

Mr. Scott Sokolowski
Remedial Project Manager
Naval Facilities Engineering Command, Mid Atlantic
9324 Virginia Avenue, Building N-26
Norfolk, VA 23511-3095

Subject: **October 2023 Sampling Report**
Full Scale Liquid-Phase Granular Activated Carbon Treatment System
Liberty New York Water, Seamans Neck Road Water Plant
NWIRP Bethpage, New York
Contract No. N40085-16-D-2288, Task Order 5125

Dear Mr. Sokolowski,

The Full Scale Liquid-Phase Granular Activated Carbon (GAC) Treatment System is located at the Liberty New York Water (LNYW) Seamans Neck Road water treatment plant in Levittown, NY. The GAC System was installed at the effluent of the potable water treatment plant and consists of six GAC vessels operating in parallel to remove low levels of trichloroethene (TCE) from Well No. 3A and Well No. 4S. After GAC treatment, the water receives chemical injection of sodium hypochlorite and sodium tripolyphosphate before going to distribution. Startup of the Full Scale GAC Treatment System occurred on 8 January 2015. KOMAN Government Solutions, LLC (KGS) began routine operation and maintenance (O&M) activities in March 2015.

The purpose of this report is to document the sampling activities performed at the GAC Treatment System in October 2023 and present the associated analytical results.

Sampling Requirements

Nassau County Department of Health (NCDH) and the approved Sampling Plan outline the following sampling requirements at the Full Scale GAC System:

- Monthly Sampling: Principal Organic Contaminants (POC) sampling will be performed once a month at the effluent from the GAC treatment system – one sample location, plus associated quality assurance / quality control (QA/QC) samples. POCs will be analyzed via EPA Method 524.2.
- Quarterly Sampling: POC sampling will be performed at the influent to the GAC treatment system on a quarterly basis at Well No. 3A and Well No. 4S raw water – two sample locations. The monthly POC sample collected at the effluent of the GAC Treatment System (described above) will also serve as the quarterly POC GAC effluent sample. Associated QA/QC samples will also be collected. In addition, microbiological (MIC) samples will be collected on a quarterly basis. Samples will be collected from the

KOMAN Government Solutions, LLC
180 Gordon Drive, Suite 110
Exton, Pennsylvania 19341
Phone (610) 363-3000
Fax (610) 363-3001
www.komangs.com

system influent (Well No. 3A and Well No. 4S raw water) and from the effluent of each GAC vessel over a timed sequence. The sampling occurs after the wells and vessels are shut-down for a minimum of 12 hours. Samples will be analyzed via the Colilert method to determine if any *E. Coli* or Total Coliform bacteria are present.

- Annual Sampling: Annual sampling will be performed for Physical and Inorganic Constituents (IOCs) at the system influent (Well No. 3A and Well No. 4S raw water) and effluent – three sampling locations, plus associated QA/QC samples. IOCs include a specified list of metals analyzed via EPA Method 200.7.

October 2023 Sampling Summary

Monthly POC Sampling

On 5 October, monthly POC samples were collected from the GAC system influent, Well No. 3A, Well No. 4S, and the system effluent; a field duplicate and matrix spike / matrix spike duplicate (MS/MSD) from the system effluent were also collected. **Attachment 1** provides the analytical data report for POC samples collected in October 2023. **Table 1**, below, presents the trichloroethene (TCE) analytical results. TCE was not detected in the GAC effluent or GAC effluent duplicate samples. Results for TCE are in compliance with NCDH requirements.

Table 1 - *TCE Analytical Results(1) – October 2023*

Date	Well 3A Raw [N-14347 (Seaman Neck 3A Well)]	Well 4S Raw [N-09338 (Seaman Neck 4S Well)]	Effluent from GAC System [GAC-3S/4S (Seaman Neck GAC Effluent)]	Effluent from GAC System (Duplicate) [GAC-3S/4S (Seaman Neck GAC Effluent)-D]
10/05/2023	26.4	2.9	ND	ND

Notes:
(1) All concentrations reported in µg/L (ppb).
ND – Not Detected above the reporting limit (0.50 µg/L)

Please contact me at 610-400-0636 or rgregory@komangs.com with any questions or concerns regarding this report.

Sincerely,
KOMAN Government Solutions, LLC

Robert Gregory, P.G.
Project Manager

Cc: W. Provoncha – Nassau County
M. Alarcon – Nassau County

C. Johnson – Nassau County
R. Castle – Nassau County
J. Pelton – NYSDEC
K. Granzen – NYSDEC
M. Travis - NYSDEC
C. Shukis – NAVFAC
V. Varricchio – NWIRP Bethpage Facilities Management
R. Kern – LNYW
N. Niola – LNYW
J. Palmer - LNYW
D. Brayack – Tetra Tech
R. Moore – Tetra Tech
R. Hoffmaster – KGS
P. Schauble – KGS

ATTACHMENT 1

POC ANALYTICAL RESULTS FOR OCTOBER 2023

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

October 16, 2023

Robert G. Gregory
KOMAN Government Services, LLC
180 Gordon Dr.
Suite 110
Exton, PA 19341

RE: Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Dear Robert Gregory:

Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

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

Sincerely,

Kimberley Mack

Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Ericka Seiler, KOMAN Government Services, LLC

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70273049001	**GAC-3S/4S SEAMAN NECK EFFLUENT**	Drinking Water	10/05/23 11:00	10/05/23 13:25
70273049002	**GAC-3S/4S-D SEAMAN NECK EFFL**	Drinking Water	10/05/23 11:05	10/05/23 13:25
70273049003	**WELL 3A N-14347 INFLUENT**	Drinking Water	10/05/23 10:40	10/05/23 13:25
70273049004	**WELL 4 N-09338 INFLUENT**	Drinking Water	10/05/23 10:50	10/05/23 13:25

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575 Broad Hollow Road
Melville, NY 11747
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SAMPLE ANALYTE COUNT

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70273049001	**GAC-3S/4S SEAMAN NECK EFFLUENT**	EPA 524.2	KGG	62
70273049002	**GAC-3S/4S-D SEAMAN NECK EFFL**	EPA 524.2	KGG	62
70273049003	**WELL 3A N-14347 INFLUENT**	EPA 522	IMH	2
		EPA 524.2	KGG	62
70273049004	**WELL 4 N-09338 INFLUENT**	EPA 522	IMH	2
		EPA 524.2	KGG	62

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Sample: GAC-3S/4S SEAMAN NECK EFFLUENT **Lab ID: 70273049001** Collected: 10/05/23 11:00 Received: 10/05/23 13:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Benzene	**<0.50**	ug/L	0.50	5	1		10/13/23 14:18	71-43-2	
Bromobenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	108-86-1	
Bromochloromethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	0.50	80	1		10/13/23 14:18	75-27-4	
Bromoform	**<0.50**	ug/L	0.50	80	1		10/13/23 14:18	75-25-2	
Bromomethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	0.50	5	1		10/13/23 14:18	56-23-5	
Chlorobenzene	**<0.50**	ug/L	0.50	100	1		10/13/23 14:18	108-90-7	
Chlorodifluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	75-45-6	N3
Chloroethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	75-00-3	
Chloroform	**<0.50**	ug/L	0.50	80	1		10/13/23 14:18	67-66-3	
Chloromethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	106-43-4	
Dibromochloromethane	**<0.50**	ug/L	0.50	80	1		10/13/23 14:18	124-48-1	
Dibromomethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	0.50	600	1		10/13/23 14:18	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	0.50	75	1		10/13/23 14:18	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	75-71-8	
1,1-Dichloroethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	0.50	5	1		10/13/23 14:18	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/L	0.50	7	1		10/13/23 14:18	75-35-4	
cis-1,2-Dichloroethene	**<0.50**	ug/L	0.50	70	1		10/13/23 14:18	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	0.50	100	1		10/13/23 14:18	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	0.50	5	1		10/13/23 14:18	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	0.50	700	1		10/13/23 14:18	100-41-4	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	0.50		1		10/13/23 14:18	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	99-87-6	
Methylene Chloride	**<0.50**	ug/L	0.50	5	1		10/13/23 14:18	75-09-2	
Methyl-tert-butyl ether	**<0.50**	ug/L	0.50		1		10/13/23 14:18	1634-04-4	
n-Propylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	103-65-1	
Styrene	**<0.50**	ug/L	0.50	100	1		10/13/23 14:18	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Sample: GAC-3S/4S SEAMAN NECK EFFLUENT **Lab ID: 70273049001** Collected: 10/05/23 11:00 Received: 10/05/23 13:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Tetrachloroethene	**<0.50**	ug/L	0.50	5	1		10/13/23 14:18	127-18-4	
Toluene	**<0.50**	ug/L	0.50	1000	1		10/13/23 14:18	108-88-3	
Total Trihalomethanes (Calc.)	**<0.50**	ug/L	0.50	80	1		10/13/23 14:18		
1,2,3-Trichlorobenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	0.50	70	1		10/13/23 14:18	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	0.50	200	1		10/13/23 14:18	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	0.50	5	1		10/13/23 14:18	79-00-5	
Trichloroethene	**<0.50**	ug/L	0.50	5	1		10/13/23 14:18	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.50**	ug/L	0.50		1		10/13/23 14:18	76-13-1	N3
1,2,4-Trimethylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	108-67-8	
Vinyl chloride	**<0.50**	ug/L	0.50	2	1		10/13/23 14:18	75-01-4	
m&p-Xylene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	179601-23-1	
o-Xylene	**<0.50**	ug/L	0.50		1		10/13/23 14:18	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	89	%	70-130		1		10/13/23 14:18	2199-69-1	
4-Bromofluorobenzene (S)	90	%	70-130		1		10/13/23 14:18	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Sample: GAC-3S/4S-D SEAMAN NECK EFFL **Lab ID: 70273049002** Collected: 10/05/23 11:05 Received: 10/05/23 13:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Benzene	**<0.50**	ug/L	0.50	5	1		10/13/23 14:42	71-43-2	
Bromobenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	108-86-1	
Bromochloromethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	0.50	80	1		10/13/23 14:42	75-27-4	
Bromoform	**<0.50**	ug/L	0.50	80	1		10/13/23 14:42	75-25-2	
Bromomethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	0.50	5	1		10/13/23 14:42	56-23-5	
Chlorobenzene	**<0.50**	ug/L	0.50	100	1		10/13/23 14:42	108-90-7	
Chlorodifluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	75-45-6	N3
Chloroethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	75-00-3	
Chloroform	**<0.50**	ug/L	0.50	80	1		10/13/23 14:42	67-66-3	
Chloromethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	106-43-4	
Dibromochloromethane	**<0.50**	ug/L	0.50	80	1		10/13/23 14:42	124-48-1	
Dibromomethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	0.50	600	1		10/13/23 14:42	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	0.50	75	1		10/13/23 14:42	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	75-71-8	
1,1-Dichloroethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	0.50	5	1		10/13/23 14:42	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/L	0.50	7	1		10/13/23 14:42	75-35-4	
cis-1,2-Dichloroethene	**<0.50**	ug/L	0.50	70	1		10/13/23 14:42	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	0.50	100	1		10/13/23 14:42	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	0.50	5	1		10/13/23 14:42	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	0.50	700	1		10/13/23 14:42	100-41-4	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	0.50		1		10/13/23 14:42	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	99-87-6	
Methylene Chloride	**<0.50**	ug/L	0.50	5	1		10/13/23 14:42	75-09-2	
Methyl-tert-butyl ether	**<0.50**	ug/L	0.50		1		10/13/23 14:42	1634-04-4	
n-Propylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	103-65-1	
Styrene	**<0.50**	ug/L	0.50	100	1		10/13/23 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Sample: GAC-3S/4S-D SEAMAN NECK EFFL **Lab ID: 70273049002** Collected: 10/05/23 11:05 Received: 10/05/23 13:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
	Pace Analytical Services - Melville								
Tetrachloroethene	**<0.50**	ug/L	0.50	5	1		10/13/23 14:42	127-18-4	
Toluene	**<0.50**	ug/L	0.50	1000	1		10/13/23 14:42	108-88-3	
Total Trihalomethanes (Calc.)	**<0.50**	ug/L	0.50	80	1		10/13/23 14:42		
1,2,3-Trichlorobenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	0.50	70	1		10/13/23 14:42	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	0.50	200	1		10/13/23 14:42	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	0.50	5	1		10/13/23 14:42	79-00-5	
Trichloroethene	**<0.50**	ug/L	0.50	5	1		10/13/23 14:42	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.50**	ug/L	0.50		1		10/13/23 14:42	76-13-1	N3
1,2,4-Trimethylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	108-67-8	
Vinyl chloride	**<0.50**	ug/L	0.50	2	1		10/13/23 14:42	75-01-4	
m&p-Xylene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	179601-23-1	
o-Xylene	**<0.50**	ug/L	0.50		1		10/13/23 14:42	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		10/13/23 14:42	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130		1		10/13/23 14:42	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Sample: WELL 3A N-14347 INFLUENT **Lab ID: 70273049003** Collected: 10/05/23 10:40 Received: 10/05/23 13:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**2.4**	ug/L	0.020		1	10/06/23 20:47	10/09/23 16:30	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	10/06/23 20:47	10/09/23 16:30		
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Benzene	**<0.50**	ug/L	0.50	5	1		10/13/23 15:05	71-43-2	
Bromobenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	108-86-1	
Bromochloromethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	0.50	80	1		10/13/23 15:05	75-27-4	
Bromoform	**<0.50**	ug/L	0.50	80	1		10/13/23 15:05	75-25-2	
Bromomethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	0.50	5	1		10/13/23 15:05	56-23-5	
Chlorobenzene	**<0.50**	ug/L	0.50	100	1		10/13/23 15:05	108-90-7	
Chlorodifluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	75-45-6	N3
Chloroethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	75-00-3	
Chloroform	**<0.50**	ug/L	0.50	80	1		10/13/23 15:05	67-66-3	
Chloromethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	106-43-4	
Dibromochloromethane	**<0.50**	ug/L	0.50	80	1		10/13/23 15:05	124-48-1	
Dibromomethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	0.50	600	1		10/13/23 15:05	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	0.50	75	1		10/13/23 15:05	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	75-71-8	
1,1-Dichloroethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	0.50	5	1		10/13/23 15:05	107-06-2	
1,1-Dichloroethene	**0.79**	ug/L	0.50	7	1		10/13/23 15:05	75-35-4	
cis-1,2-Dichloroethene	**<0.50**	ug/L	0.50	70	1		10/13/23 15:05	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	0.50	100	1		10/13/23 15:05	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	0.50	5	1		10/13/23 15:05	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	0.50	700	1		10/13/23 15:05	100-41-4	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	0.50		1		10/13/23 15:05	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Sample: WELL 3A N-14347 INFLUENT **Lab ID: 70273049003** Collected: 10/05/23 10:40 Received: 10/05/23 13:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Methylene Chloride	**<0.50**	ug/L	0.50	5	1		10/13/23 15:05	75-09-2	
Methyl-tert-butyl ether	**<0.50**	ug/L	0.50		1		10/13/23 15:05	1634-04-4	
n-Propylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	103-65-1	
Styrene	**<0.50**	ug/L	0.50	100	1		10/13/23 15:05	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	0.50	5	1		10/13/23 15:05	127-18-4	
Toluene	**<0.50**	ug/L	0.50	1000	1		10/13/23 15:05	108-88-3	
Total Trihalomethanes (Calc.)	**<0.50**	ug/L	0.50	80	1		10/13/23 15:05		
1,2,3-Trichlorobenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	0.50	70	1		10/13/23 15:05	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	0.50	200	1		10/13/23 15:05	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	0.50	5	1		10/13/23 15:05	79-00-5	
Trichloroethene	**26.4**	ug/L	0.50	5	1		10/13/23 15:05	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 15:05	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1.2**	ug/L	0.50		1		10/13/23 15:05	76-13-1	N3
1,2,4-Trimethylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	108-67-8	
Vinyl chloride	**<0.50**	ug/L	0.50	2	1		10/13/23 15:05	75-01-4	
m&p-Xylene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	179601-23-1	
o-Xylene	**<0.50**	ug/L	0.50		1		10/13/23 15:05	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	95	%	70-130		1		10/13/23 15:05	2199-69-1	
4-Bromofluorobenzene (S)	89	%	70-130		1		10/13/23 15:05	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Sample: WELL 4 N-09338 INFLUENT **Lab ID: 70273049004** Collected: 10/05/23 10:50 Received: 10/05/23 13:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**2.1**	ug/L	0.020		1	10/06/23 20:47	10/09/23 16:48	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	102	%	70-130		1	10/06/23 20:47	10/09/23 16:48		
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Benzene	**<0.50**	ug/L	0.50	5	1		10/13/23 15:27	71-43-2	
Bromobenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	108-86-1	
Bromochloromethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	0.50	80	1		10/13/23 15:27	75-27-4	
Bromoform	**<0.50**	ug/L	0.50	80	1		10/13/23 15:27	75-25-2	
Bromomethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	0.50	5	1		10/13/23 15:27	56-23-5	
Chlorobenzene	**<0.50**	ug/L	0.50	100	1		10/13/23 15:27	108-90-7	
Chlorodifluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	75-45-6	N3
Chloroethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	75-00-3	
Chloroform	**<0.50**	ug/L	0.50	80	1		10/13/23 15:27	67-66-3	
Chloromethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	106-43-4	
Dibromochloromethane	**<0.50**	ug/L	0.50	80	1		10/13/23 15:27	124-48-1	
Dibromomethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	0.50	600	1		10/13/23 15:27	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	0.50	75	1		10/13/23 15:27	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	75-71-8	
1,1-Dichloroethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	0.50	5	1		10/13/23 15:27	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/L	0.50	7	1		10/13/23 15:27	75-35-4	
cis-1,2-Dichloroethene	**<0.50**	ug/L	0.50	70	1		10/13/23 15:27	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	0.50	100	1		10/13/23 15:27	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	0.50	5	1		10/13/23 15:27	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	0.50	700	1		10/13/23 15:27	100-41-4	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	0.50		1		10/13/23 15:27	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Sample: WELL 4 N-09338 INFLUENT **Lab ID: 70273049004** Collected: 10/05/23 10:50 Received: 10/05/23 13:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Methylene Chloride	**<0.50**	ug/L	0.50	5	1		10/13/23 15:27	75-09-2	
Methyl-tert-butyl ether	**<0.50**	ug/L	0.50		1		10/13/23 15:27	1634-04-4	
n-Propylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	103-65-1	
Styrene	**<0.50**	ug/L	0.50	100	1		10/13/23 15:27	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	0.50	5	1		10/13/23 15:27	127-18-4	
Toluene	**<0.50**	ug/L	0.50	1000	1		10/13/23 15:27	108-88-3	
Total Trihalomethanes (Calc.)	**<0.50**	ug/L	0.50	80	1		10/13/23 15:27		
1,2,3-Trichlorobenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	0.50	70	1		10/13/23 15:27	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	0.50	200	1		10/13/23 15:27	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	0.50	5	1		10/13/23 15:27	79-00-5	
Trichloroethene	**2.9**	ug/L	0.50	5	1		10/13/23 15:27	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.50**	ug/L	0.50		1		10/13/23 15:27	76-13-1	N3
1,2,4-Trimethylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	108-67-8	
Vinyl chloride	**<0.50**	ug/L	0.50	2	1		10/13/23 15:27	75-01-4	
m&p-Xylene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	179601-23-1	
o-Xylene	**<0.50**	ug/L	0.50		1		10/13/23 15:27	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	90	%	70-130		1		10/13/23 15:27	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		10/13/23 15:27	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

QC Batch: 323825
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273049001, 70273049002, 70273049003, 70273049004

METHOD BLANK: 1653401 Matrix: Water
Associated Lab Samples: 70273049001, 70273049002, 70273049003, 70273049004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	10/13/23 09:58	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	10/13/23 09:58	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	10/13/23 09:58	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	10/13/23 09:58	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	10/13/23 09:58	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	10/13/23 09:58	
1,1-Dichloroethene	ug/L	<0.50	0.50	10/13/23 09:58	
1,1-Dichloropropene	ug/L	<0.50	0.50	10/13/23 09:58	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	10/13/23 09:58	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	10/13/23 09:58	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	10/13/23 09:58	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	10/13/23 09:58	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	10/13/23 09:58	
1,2-Dichloroethane	ug/L	<0.50	0.50	10/13/23 09:58	
1,2-Dichloropropane	ug/L	<0.50	0.50	10/13/23 09:58	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	10/13/23 09:58	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	10/13/23 09:58	
1,3-Dichloropropane	ug/L	<0.50	0.50	10/13/23 09:58	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	10/13/23 09:58	
2,2-Dichloropropane	ug/L	<0.50	0.50	10/13/23 09:58	
2-Chlorotoluene	ug/L	<0.50	0.50	10/13/23 09:58	
4-Chlorotoluene	ug/L	<0.50	0.50	10/13/23 09:58	
Benzene	ug/L	<0.50	0.50	10/13/23 09:58	
Bromobenzene	ug/L	<0.50	0.50	10/13/23 09:58	
Bromochloromethane	ug/L	<0.50	0.50	10/13/23 09:58	
Bromodichloromethane	ug/L	<0.50	0.50	10/13/23 09:58	
Bromoform	ug/L	<0.50	0.50	10/13/23 09:58	
Bromomethane	ug/L	<0.50	0.50	10/13/23 09:58	
Carbon tetrachloride	ug/L	<0.50	0.50	10/13/23 09:58	
Chlorobenzene	ug/L	<0.50	0.50	10/13/23 09:58	
Chlorodifluoromethane	ug/L	<0.50	0.50	10/13/23 09:58	N3
Chloroethane	ug/L	<0.50	0.50	10/13/23 09:58	
Chloroform	ug/L	<0.50	0.50	10/13/23 09:58	
Chloromethane	ug/L	<0.50	0.50	10/13/23 09:58	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	10/13/23 09:58	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	10/13/23 09:58	
Dibromochloromethane	ug/L	<0.50	0.50	10/13/23 09:58	
Dibromomethane	ug/L	<0.50	0.50	10/13/23 09:58	
Dichlorodifluoromethane	ug/L	<0.50	0.50	10/13/23 09:58	
Ethylbenzene	ug/L	<0.50	0.50	10/13/23 09:58	

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

METHOD BLANK: 1653401 Matrix: Water
Associated Lab Samples: 70273049001, 70273049002, 70273049003, 70273049004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	10/13/23 09:58	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	10/13/23 09:58	
m&p-Xylene	ug/L	<0.50	0.50	10/13/23 09:58	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	10/13/23 09:58	
Methylene Chloride	ug/L	<0.50	0.50	10/13/23 09:58	
n-Butylbenzene	ug/L	<0.50	0.50	10/13/23 09:58	
n-Propylbenzene	ug/L	<0.50	0.50	10/13/23 09:58	
o-Xylene	ug/L	<0.50	0.50	10/13/23 09:58	
p-Isopropyltoluene	ug/L	<0.50	0.50	10/13/23 09:58	
sec-Butylbenzene	ug/L	<0.50	0.50	10/13/23 09:58	
Styrene	ug/L	<0.50	0.50	10/13/23 09:58	
tert-Butylbenzene	ug/L	<0.50	0.50	10/13/23 09:58	
Tetrachloroethene	ug/L	<0.50	0.50	10/13/23 09:58	
Toluene	ug/L	<0.50	0.50	10/13/23 09:58	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	10/13/23 09:58	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	10/13/23 09:58	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	10/13/23 09:58	
Trichloroethene	ug/L	<0.50	0.50	10/13/23 09:58	
Trichlorofluoromethane	ug/L	<0.50	0.50	10/13/23 09:58	
Vinyl chloride	ug/L	<0.50	0.50	10/13/23 09:58	
1,2-Dichlorobenzene-d4 (S)	%	87	70-130	10/13/23 09:58	
4-Bromofluorobenzene (S)	%	90	70-130	10/13/23 09:58	

LABORATORY CONTROL SAMPLE: 1653402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.3	93	70-130	
1,1,1-Trichloroethane	ug/L	10	10.1	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.7	97	70-130	
1,1,2-Trichloroethane	ug/L	10	9.5	95	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	11.8	118	70-130	N3
1,1-Dichloroethane	ug/L	10	9.2	92	70-130	
1,1-Dichloroethene	ug/L	10	8.0	80	70-130	
1,1-Dichloropropene	ug/L	10	9.2	92	70-130	
1,2,3-Trichlorobenzene	ug/L	10	10.2	102	70-130	
1,2,3-Trichloropropane	ug/L	10	10.5	105	70-130	
1,2,4-Trichlorobenzene	ug/L	10	10.1	101	70-130	
1,2,4-Trimethylbenzene	ug/L	10	9.9	99	70-130	
1,2-Dichlorobenzene	ug/L	10	10.4	104	70-130	
1,2-Dichloroethane	ug/L	10	10.8	108	70-130	
1,2-Dichloropropane	ug/L	10	9.4	94	70-130	
1,3,5-Trimethylbenzene	ug/L	10	9.4	94	70-130	
1,3-Dichlorobenzene	ug/L	10	10.4	104	70-130	
1,3-Dichloropropane	ug/L	10	9.8	98	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

LABORATORY CONTROL SAMPLE: 1653402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	9.9	99	70-130	
2,2-Dichloropropane	ug/L	10	10.2	102	70-130	
2-Chlorotoluene	ug/L	10	9.7	97	70-130	
4-Chlorotoluene	ug/L	10	10.7	107	70-130	
Benzene	ug/L	10	9.4	94	70-130	
Bromobenzene	ug/L	10	10.2	102	70-130	
Bromochloromethane	ug/L	10	8.6	86	70-130	
Bromodichloromethane	ug/L	10	9.8	98	70-130	
Bromoform	ug/L	10	9.9	99	70-130	
Bromomethane	ug/L	10	8.7	87	70-130	
Carbon tetrachloride	ug/L	10	9.2	92	70-130	
Chlorobenzene	ug/L	10	9.4	94	70-130	
Chlorodifluoromethane	ug/L	10	8.3	83	70-130	N3
Chloroethane	ug/L	10	8.8	88	70-130	
Chloroform	ug/L	10	10.2	102	70-130	
Chloromethane	ug/L	10	9.8	98	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.0	90	70-130	
cis-1,3-Dichloropropene	ug/L	10	9.7	97	70-130	
Dibromochloromethane	ug/L	10	10	100	70-130	
Dibromomethane	ug/L	10	9.6	96	70-130	
Dichlorodifluoromethane	ug/L	10	8.5	85	70-130	
Ethylbenzene	ug/L	10	8.8	88	70-130	
Hexachloro-1,3-butadiene	ug/L	10	10.9	109	70-130	
Isopropylbenzene (Cumene)	ug/L	10	9.0	90	70-130	
m&p-Xylene	ug/L	20	19.8	99	70-130	
Methyl-tert-butyl ether	ug/L	10	8.4	84	70-130	
Methylene Chloride	ug/L	10	9.7	97	70-130	
n-Butylbenzene	ug/L	10	10.1	101	70-130	
n-Propylbenzene	ug/L	10	9.5	95	70-130	
o-Xylene	ug/L	10	10.4	104	70-130	
p-Isopropyltoluene	ug/L	10	9.3	93	70-130	
sec-Butylbenzene	ug/L	10	9.7	97	70-130	
Styrene	ug/L	10	10	100	70-130	
tert-Butylbenzene	ug/L	10	9.4	94	70-130	
Tetrachloroethene	ug/L	10	9.3	93	70-130	
Toluene	ug/L	10	9.2	92	70-130	
Total Trihalomethanes (Calc.)	ug/L		39.9			
trans-1,2-Dichloroethene	ug/L	10	9.4	94	70-130	
trans-1,3-Dichloropropene	ug/L	10	10	100	70-130	
Trichloroethene	ug/L	10	8.6	86	70-130	
Trichlorofluoromethane	ug/L	10	9.5	95	70-130	
Vinyl chloride	ug/L	10	9.3	93	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

QC Batch: 323049
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273049003, 70273049004

METHOD BLANK: 1649113 Matrix: Drinking Water
Associated Lab Samples: 70273049003, 70273049004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	10/10/23 15:56	
1,4-Dioxane-d8 (S)	%	98	70-130	10/10/23 15:56	

LABORATORY CONTROL SAMPLE: 1649114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	0.021	104	70-130	
1,4-Dioxane-d8 (S)	%			70	70-130	

MATRIX SPIKE SAMPLE: 1649115

Parameter	Units	70272868001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	15.2	0.02	17.0	9340	70-130	M1
1,4-Dioxane-d8 (S)	%				80	70-130	

SAMPLE DUPLICATE: 1649116

Parameter	Units	70272868002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		30	
1,4-Dioxane-d8 (S)	%	78	70		30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NYAW-MERRICK OPS FACILITY 10/5
Pace Project No.: 70273049

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70273049003	**WELL 3A N-14347 INFLUENT**	EPA 522	323049	EPA 522	323074
70273049004	**WELL 4 N-09338 INFLUENT**	EPA 522	323049	EPA 522	323074
70273049001	**GAC-3S/4S SEAMAN NECK EFFLUENT**	EPA 524.2	323825		
70273049002	**GAC-3S/4S-D SEAMAN NECK EFFL**	EPA 524.2	323825		
70273049003	**WELL 3A N-14347 INFLUENT**	EPA 524.2	323825		
70273049004	**WELL 4 N-09338 INFLUENT**	EPA 524.2	323825		

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical

Page: of

Section A Required Client Information:

Company:	KOMAN Government Solutions, LLC
Address:	180 Gordon Dr., Suite 110
	Exton, PA
Email To:	sroy@komangs.com
Phone: 610-400-0622	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Stephane Roy
Copy To:	NCDOH
Purchase Order No.:	
Project Name:	NYAW-MERRICK OPS FACILITY
Project Number:	02607-004

Section C Invoice Information:

Attention:	Accounts Payable
Company Name:	KOMAN Government Solutions, LL
Address:	accountspayable@komangs.com
Pace Quote Reference:	00016758
Pace Project Manager:	Stuart Murrell
Pace Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER [✓] | DRINKING WATER

UST | RCRA | OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

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

WO# : 70273049

70273049

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	POC (VOCs by 524.2)	1,4-dioxane (522)	Residual C	Pace Project No./ Lab I.D.
																		Requested Analysis Filtered (Y/N)	N	N		MS/MSD
1	GAC-3S/4S (Seaman Neck GAC Effluent)	DW	G			10.5.23	11:00		6				X						X			
2	GAC-3S/4S (Seaman Neck GAC Effluent)-D	DW	G			10.5.23	11:05		2				X						X			
3	Well 3A N-14347 (Influent)	DW	G			10.5.23	10:40		1						X					X		
4	Well 4 N-09338 (Influent)	DW	G			10.5.23	10:30		1						X					X		
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
MS/MSD collected at GAC-3S/4S (Seaman Neck GAC Effluent)	Randall E. Hoffmaster	10.5.2023			10/6/23	13:25	13.4 W
					10/6/23	13:25	1

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Randy Hoffmaster

SIGNATURE of SAMPLER: Randy Hoffmaster

DATE Signed (MM/DD/YY): 10.05.2023

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Client Name: KGS

Project #

WO#: 70273049
PM: KMM Due Date: 10/16/23
CLIENT: KGS

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: TH198 Correction Factor: +0.3 ☑ Samples on ice, cooling process has begun
Cooler Temperature(°C): 13.4 Cooler Temperature Corrected(°C): 13.7 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AS 10/5/23

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☐Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No		12.
	Matrix:	SL	(W) OIL OTHER	

Date and Initials of person checking preservation: AS

All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
pH paper Lot #				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
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:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

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