October 1, 2021

Westbury Water District
PWS ID No. NY2902856
MCL Deferral for 1,4-dioxane
Quarterly Report – Third Quarter 2021

Introduction

On behalf of the Westbury Water District (WWD or District), D&B Engineers and Architects (D&B) has prepared this document in accordance with the requirements of the New York State Department of Health (NYSDOH) for public water suppliers who have been granted deferrals from maximum contaminant level (MCL) violations for 1,4-dioxane, PFOA, and/or PFOS. The District was granted an MCL deferral for 1,4-dioxane, PFOA, and PFOS in 2020. The WWD was granted a deferral because it has been proactive in its efforts to establish and implement an action plan for managing the above-referenced compounds.

The enclosed is a report describing the WWD's progress towards maintaining the highest quality of water for District customers and meeting the deadlines set forth in the deferral approval. Updated schedules for each project are contained in **Attachment A**.

Corrective Action Plan Milestones

Drexel Avenue Station – Wells 6 and 7A

The Drexel Ave Station Advanced Oxidation Process (AOP) project is currently in its design phase. Detailed design documents for the facility were submitted to the Nassau County Department of Health (NCDH) and NYSDOH for regulatory review in the third quarter of 2021. At this time, the construction of the facility is still expected to be complete in the third quarter of 2023.

Although it has been granted a deferral, the WWD was able to minimize the usage of these wells.

Well 12

The WWD State Street PFOA and PFOS treatment project is currently in the design phase. Detailed design documents for the facility were submitted to the NCDH and NYSDOH for regulatory review in the third quarter of 2021. The District will wait until the design documents are approved by the NCDH and NYSDOH before completing the public bidding process. The facility is still on schedule to be operational by the end of 2022.

Although it has been granted a deferral, the District was able to avoid usage of this well.

Wells 10 and 14

The Wells 10 and 14 AOP project is currently in its detailed design phase, which is expected to be substantially complete in the winter of 2021. The design documents must undergo review by the local and state health departments. Once this review is completed, bidding and construction can begin. The project is still on schedule, with the facility planned to be operational by the end of 2023.

Although it has been granted a deferral, the WWD was able to minimize the usage of these wells. It should be noted that only one of the two wells (Well 14) has exceeded the MCL for 1,4-dioxane.

Public Notification

In accordance with the terms of the deferral, the WWD has maintained an open line of communication with the public regarding its deferral. The deferral public notification documentation is still featured prominently on the District website, as are previous quarterly reports.

Analytical Sampling

Relevant sample results for the wells for which deferrals were granted (6, 7A, 10, 12, and 14) taken during the third quarter of 2021 are contained in the below tables. Full laboratory reports for each sample are contained in **Attachment B**.

1,4-dioxane (ppb)

Well	Date		
	July 2021	**Aug. 2021**	**Sept. 2021**
Well 6 (N-00101)	0.74	0.74	0.79
Well 7A (N-07785)	0.96	1.0	1.2
Well 10 (N-05007)	0.59	0.59	0.62
Well 14 (N-07353)	1.8	1.8	1.9

PFOA (ppt)

Well	Date
	Aug. 2021
Well 12 (N-05655)	13.5

PFOS (ppt)

Well	Date
	Aug. 2021
Well 12 (N-05655)	14.4

Conclusion

As demonstrated above, the Westbury Water District is actively working to preserve the quality of water for its customers and comply with the requirements put forth by the NYSDOH. The District looks forward to continuing to work towards completion of its treatment facilities.

Should you have any questions, please contact the District at 516-333-0427 or visit the website, www.westburywaterdistrict.com.

Very truly yours,

Board of Commissioners
Westbury Water District

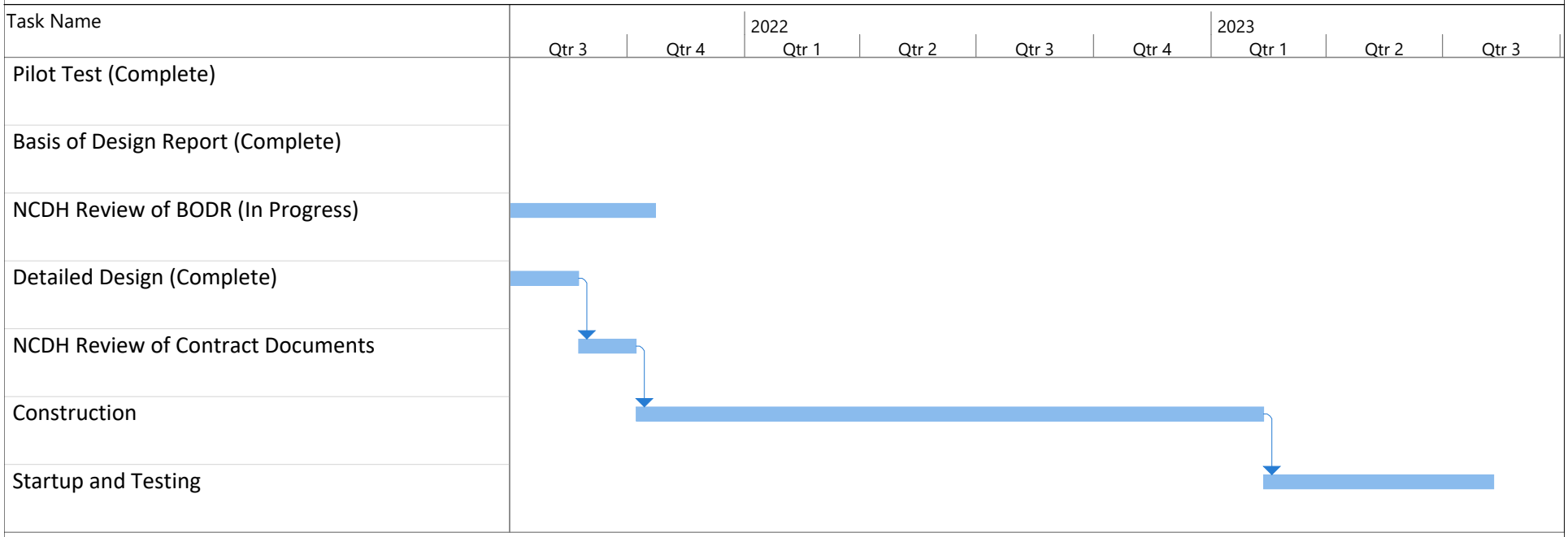
Enclosures
cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
J. Ingram (WWD)
P. Sachs (D&B)
P. Connell (D&B)

ATTACHMENT A

Project Schedules Associated with MCL Deferral

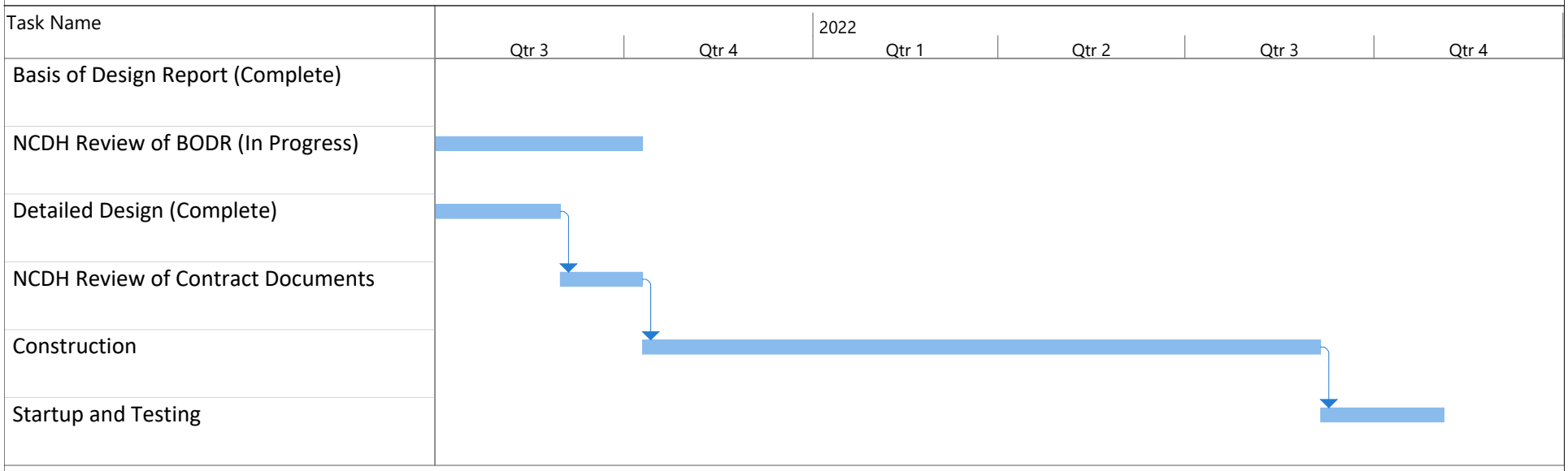
Westbury Water District
MCL Deferral
Quarterly Report

Wells 6 and 7A
AOP Project Schedule



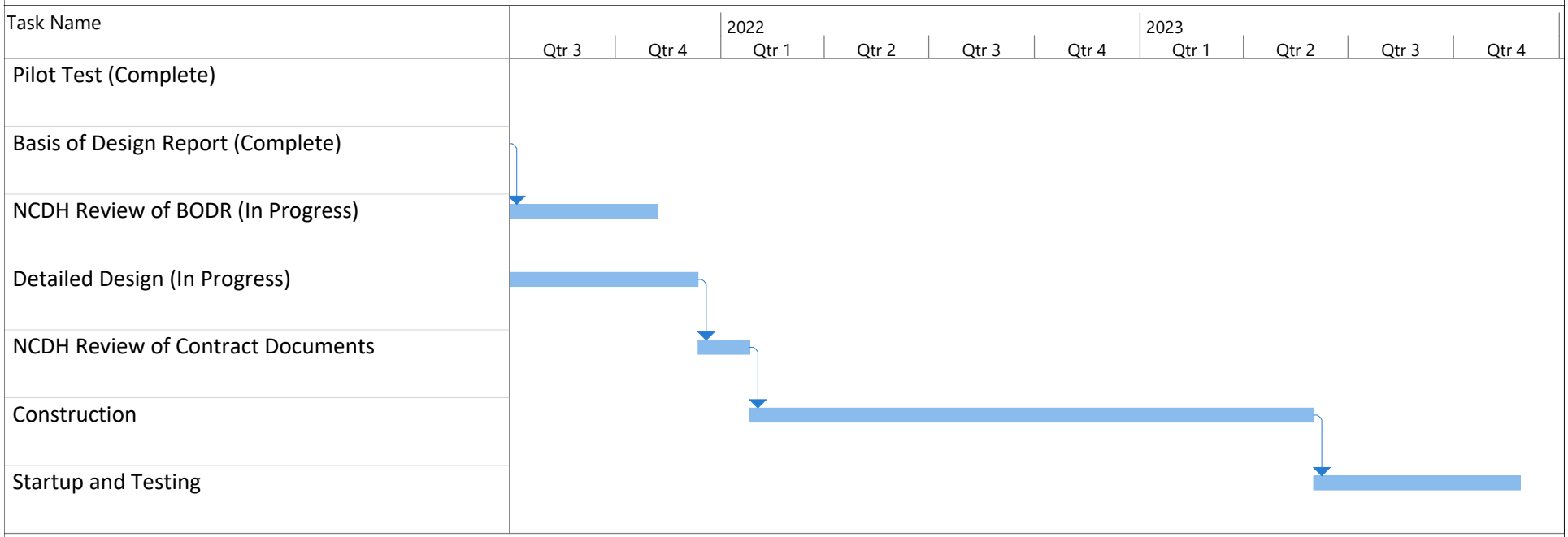
Westbury Water District
MCL Deferral
Quarterly Report

Well 12
GAC Project Schedule



Westbury Water District
MCL Deferral
Quarterly Report

Wells 10 and 14
AOP Project Schedule



ATTACHMENT B

Water Quality Data

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

July 12, 2021

Supt. John Ingram
Westbury Water & Fire Dist.
160 Drexel Ave.
Westbury, NY 11590

RE: Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

Dear Supt. Ingram:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2021. 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

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

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
Jim Van Horn, D&B Engineers
Stephen Laun, D&B Engineers and Architects
Kevin Law, D&B Engineers
Bill Merklin, D&B Engineers
Lisa Passariello, Westbury Water & Fire Dist.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

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
(631)694-3040

SAMPLE SUMMARY

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70179291001	**N-00101**	Drinking Water	07/06/21 07:30	07/06/21 10:28
70179291002	**N-07785**	Drinking Water	07/06/21 07:20	07/06/21 10:28
70179291003	**N-05007**	Drinking Water	07/06/21 09:10	07/06/21 10:28
70179291004	**N-07353**	Drinking Water	07/06/21 09:20	07/06/21 10:28
70179291005	**N-05654**	Drinking Water	07/06/21 08:05	07/06/21 10:28
70179291006	**N-08497**	Drinking Water	07/06/21 08:30	07/06/21 10:28

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70179291001	**N-00101**	EPA 522	JMD	2
70179291002	**N-07785**	EPA 522	JMD	2
70179291003	**N-05007**	EPA 522	JMD	2
70179291004	**N-07353**	EPA 522	JMD	2
70179291005	**N-05654**	EPA 522	JMD	2
70179291006	**N-08497**	EPA 522	JMD	2

PACE-MV = Pace Analytical Services - Melville

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

Sample: N-00101 **Lab ID: 70179291001** Collected: 07/06/21 07:30 Received: 07/06/21 10:28 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)	**0.74**	ug/L	0.020		1	07/09/21 08:08	07/10/21 09:36	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	07/09/21 08:08	07/10/21 09:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

Sample: N-07785 **Lab ID: 70179291002** Collected: 07/06/21 07:20 Received: 07/06/21 10:28 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)	**0.96**	ug/L	0.020		1	07/09/21 08:08	07/10/21 09:53	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	07/09/21 08:08	07/10/21 09:53		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

Sample: N-05007 **Lab ID: 70179291003** Collected: 07/06/21 09:10 Received: 07/06/21 10:28 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)	**0.59**	ug/L	0.020		1	07/09/21 08:08	07/10/21 10:10	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	07/09/21 08:08	07/10/21 10:10		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

Sample: N-07353 **Lab ID: 70179291004** Collected: 07/06/21 09:20 Received: 07/06/21 10:28 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)	**1.8**	ug/L	0.020		1	07/09/21 08:08	07/10/21 10:27	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	07/09/21 08:08	07/10/21 10:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

Sample: N-05654 **Lab ID: 70179291005** Collected: 07/06/21 08:05 Received: 07/06/21 10:28 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)	**0.58**	ug/L	0.020		1	07/09/21 08:08	07/10/21 10:44	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	07/09/21 08:08	07/10/21 10:44		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

Sample: N-08497 **Lab ID: 70179291006** Collected: 07/06/21 08:30 Received: 07/06/21 10:28 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)	**0.82**	ug/L	0.020		1	07/09/21 08:08	07/10/21 11:19	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	07/09/21 08:08	07/10/21 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

QC Batch: 216909
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70179291001, 70179291002, 70179291003, 70179291004, 70179291005, 70179291006

METHOD BLANK: 1092673 Matrix: Drinking Water
Associated Lab Samples: 70179291001, 70179291002, 70179291003, 70179291004, 70179291005, 70179291006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	07/10/21 04:11	
1,4-Dioxane-d8 (S)	%	95	70-130	07/10/21 04:11	

MATRIX SPIKE SAMPLE: 1092675

Parameter	Units	70179122002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.023	0.02	0.046	114	70-130	
1,4-Dioxane-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 1092676

Parameter	Units	70179124002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	95	92		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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

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.

WORKORDER QUALIFIERS

WO: 70179291

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun

SAMPLE QUALIFIERS

Sample: 70179291001

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE 7/6
Pace Project No.: 70179291

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179291001	**N-00101**	EPA 522	216909	EPA 522	217071
70179291002	**N-07785**	EPA 522	216909	EPA 522	217071
70179291003	**N-05007**	EPA 522	216909	EPA 522	217071
70179291004	**N-07353**	EPA 522	216909	EPA 522	217071
70179291005	**N-05654**	EPA 522	216909	EPA 522	217071
70179291006	**N-08497**	EPA 522	216909	EPA 522	217071

WO# : 70179291

70179291

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 7-6-2021

Collected By: M. PRIGNANO

Accepted By: [signature]

Cooler Temp: 17.8 °C 10:28 (B)

❑ WELL OFF LINE _____

❑ WELL RUN TO SYSTEM _____

❑ YES ❑ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Westbury Water Dist.

Address: _____

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	Field Readings pH/Temp	Analysis	Lab No.
7-6-2021 730 AM	GW	Well-6 N-00101	RW		RO			1,4 Dioxane	
7/6/21 720 AM	GW	Well-7A N-07785	RW		RO				
7/6/21 910 AM	GW	Well-10 N-05007	RW		RO				
7/6/21 920 AM	GW	Well-14 N-07353	RW		RO				
7/6/21 805	GW	Well-11 N-05654	RW		RO				
7/6/21 830 AM	GW	Well-16 N-08497	RW		RO				

Remarks:

Sample Condition Upon Receipt

Pace Analytical®

WO#: 70179291
PM: JSA Due Date: 07/15/21
CLIENT: WWD

Client Name: Westbury WD Proj

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

Blank Present: ☐ Yes ☐ No

Type of Ice: Wet Blue None

Thermometer Used: TH091 Correction Factor: +0.0

☑ Samples on ice, cooling process has begun

Cooler Temperature(°C): 17.3 Cooler Temperature Corrected(°C): 17.3

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: KD 7/6/21

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 [F-LI-C-010] and include with SCUR/COC paperwork.

				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	☑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:	☑Yes	☐No		12.
-Includes date/time/ID, Matrix: SL WT OIL				
All containers needing preservation have been checked?	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
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	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:	☐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 sulfide?	☐Yes	☐No	☑N/A	15.
Lead Acetate Strips Lot #				
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	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

August 18, 2021

Supt. John Ingram
Westbury Water & Fire Dist.
160 Drexel Ave.
Westbury, NY 11590

RE: Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Dear Supt. Ingram:

Enclosed are the analytical results for sample(s) received by the laboratory on August 10, 2021. 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
- Pace Analytical Services - Ormond Beach

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

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
Jim Van Horn, D&B Engineers
Stephen Laun, D&B Engineers and Architects
Kevin Law, D&B Engineers
Bill Merklin, D&B Engineers
Lisa Passariello, Westbury Water & Fire Dist.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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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

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SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70183526001	**N-00101**	Drinking Water	08/10/21 07:30	08/10/21 11:32
70183526002	**N-07785**	Drinking Water	08/10/21 07:50	08/10/21 11:32
70183526003	**N-02602**	Drinking Water	08/10/21 10:45	08/10/21 11:32
70183526004	**N-05007**	Drinking Water	08/10/21 09:45	08/10/21 11:32
70183526005	**N-05654**	Drinking Water	08/10/21 08:50	08/10/21 11:32
70183526006	**N-05655**	Drinking Water	08/10/21 10:20	08/10/21 11:32
70183526007	**N-07353**	Drinking Water	08/10/21 10:05	08/10/21 11:32
70183526008	**N-08007**	Drinking Water	08/10/21 08:20	08/10/21 11:32
70183526009	**N-08497**	Drinking Water	08/10/21 10:35	08/10/21 11:32
70183526010	**N-10451**	Drinking Water	08/10/21 09:20	08/10/21 11:32
70183526011	**N-13192**	Drinking Water	08/10/21 08:35	08/10/21 11:32

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SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70183526001	**N-00101**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70183526002	**N-07785**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70183526003	**N-02602**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70183526004	**N-05007**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70183526005	**N-05654**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70183526006	**N-05655**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70183526007	**N-07353**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70183526008	**N-08007**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70183526009	**N-08497**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70183526010	**N-10451**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70183526011	**N-13192**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O

PACE-MV = Pace Analytical Services - Melville
PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-00101 **Lab ID: 70183526001** Collected: 08/10/21 07:30 Received: 08/10/21 11:32 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)	**0.74**	ug/L	0.020		1	08/13/21 08:52	08/13/21 20:13	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	08/13/21 08:52	08/13/21 20:13		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/17/21 14:37	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/17/21 14:37	375-85-9	
Perfluorohexanesulfonic acid	**2.4**	ng/L	1.9		1	08/12/21 12:15	08/17/21 14:37	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/17/21 14:37	375-95-1	
Perfluorooctanesulfonic acid	**4.8**	ng/L	1.9	10	1	08/12/21 12:15	08/17/21 14:37	1763-23-1	
Perfluorooctanoic acid	**3.9**	ng/L	1.9	10	1	08/12/21 12:15	08/17/21 14:37	335-67-1	
Surrogates									
13C2-PFDA (S)	119	%	70-130		1	08/12/21 12:15	08/17/21 14:37		
13C2-PFHxA (S)	113	%	70-130		1	08/12/21 12:15	08/17/21 14:37		
HFPO-DAS (S)	112	%	70-130		1	08/12/21 12:15	08/17/21 14:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-07785 **Lab ID: 70183526002** Collected: 08/10/21 07:50 Received: 08/10/21 11:32 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)	**1.0**	ug/L	0.020		1	08/13/21 08:52	08/13/21 20:48	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	08/13/21 08:52	08/13/21 20:48		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/17/21 14:52	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/17/21 14:52	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/17/21 14:52	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/17/21 14:52	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	08/12/21 12:15	08/17/21 14:52	1763-23-1	
Perfluorooctanoic acid	**2.8**	ng/L	1.9	10	1	08/12/21 12:15	08/17/21 14:52	335-67-1	
Surrogates									
13C2-PFDA (S)	114	%	70-130		1	08/12/21 12:15	08/17/21 14:52		
13C2-PFHxA (S)	111	%	70-130		1	08/12/21 12:15	08/17/21 14:52		
HFPO-DAS (S)	116	%	70-130		1	08/12/21 12:15	08/17/21 14:52		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-02602 **Lab ID: 70183526003** Collected: 08/10/21 10:45 Received: 08/10/21 11:32 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)	**<0.020**	ug/L	0.020		1	08/13/21 08:52	08/13/21 21:05	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	08/13/21 08:52	08/13/21 21:05		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 00:35	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 00:35	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 00:35	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 00:35	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/12/21 12:15	08/17/21 00:35	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	08/12/21 12:15	08/17/21 00:35	335-67-1	
Surrogates									
13C2-PFDA (S)	118	%	70-130		1	08/12/21 12:15	08/17/21 00:35		
13C2-PFHxA (S)	104	%	70-130		1	08/12/21 12:15	08/17/21 00:35		
HFPO-DAS (S)	107	%	70-130		1	08/12/21 12:15	08/17/21 00:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-05007 **Lab ID: 70183526004** Collected: 08/10/21 09:45 Received: 08/10/21 11:32 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)	**0.59**	ug/L	0.020		1	08/13/21 08:52	08/13/21 21:22	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	08/13/21 08:52	08/13/21 21:22		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/16/21 23:19	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/16/21 23:19	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/16/21 23:19	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/16/21 23:19	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/12/21 12:15	08/16/21 23:19	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	08/12/21 12:15	08/16/21 23:19	335-67-1	
Surrogates									
13C2-PFDA (S)	131	%	70-130		1	08/12/21 12:15	08/16/21 23:19		S3
13C2-PFHxA (S)	116	%	70-130		1	08/12/21 12:15	08/16/21 23:19		
HFPO-DAS (S)	135	%	70-130		1	08/12/21 12:15	08/16/21 23:19		S3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-05654 **Lab ID: 70183526005** Collected: 08/10/21 08:50 Received: 08/10/21 11:32 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)	**0.59**	ug/L	0.020		1	08/13/21 08:52	08/13/21 21:40	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	08/13/21 08:52	08/13/21 21:40		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 22:41	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 22:41	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 22:41	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 22:41	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	08/12/21 12:15	08/16/21 22:41	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	08/12/21 12:15	08/16/21 22:41	335-67-1	
Surrogates									
13C2-PFDA (S)	133	%	70-130		1	08/12/21 12:15	08/16/21 22:41		S3
13C2-PFHxA (S)	117	%	70-130		1	08/12/21 12:15	08/16/21 22:41		
HFPO-DAS (S)	138	%	70-130		1	08/12/21 12:15	08/16/21 22:41		S3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-05655 **Lab ID: 70183526006** Collected: 08/10/21 10:20 Received: 08/10/21 11:32 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)	**0.27**	ug/L	0.020		1	08/13/21 11:55	08/13/21 23:06	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	08/13/21 11:55	08/13/21 23:06		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 15:23	375-73-5	
Perfluoroheptanoic acid	**6.3**	ng/L	1.8		1	08/12/21 12:15	08/17/21 15:23	375-85-9	
Perfluorohexanesulfonic acid	**8.9**	ng/L	1.8		1	08/12/21 12:15	08/17/21 15:23	355-46-4	
Perfluorononanoic acid	**7.2**	ng/L	1.8		1	08/12/21 12:15	08/17/21 15:23	375-95-1	
Perfluorooctanesulfonic acid	**14.4**	ng/L	1.8	10	1	08/12/21 12:15	08/17/21 15:23	1763-23-1	
Perfluorooctanoic acid	**13.5**	ng/L	1.8	10	1	08/12/21 12:15	08/17/21 15:23	335-67-1	
Surrogates									
13C2-PFDA (S)	107	%	70-130		1	08/12/21 12:15	08/17/21 15:23		
13C2-PFHxA (S)	101	%	70-130		1	08/12/21 12:15	08/17/21 15:23		
HFPO-DAS (S)	102	%	70-130		1	08/12/21 12:15	08/17/21 15:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-07353 **Lab ID: 70183526007** Collected: 08/10/21 10:05 Received: 08/10/21 11:32 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)	**1.8**	ug/L	0.020		1	08/13/21 11:55	08/13/21 23:41	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	08/13/21 11:55	08/13/21 23:41		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 23:38	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 23:38	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 23:38	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 23:38	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	08/12/21 12:15	08/16/21 23:38	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	08/12/21 12:15	08/16/21 23:38	335-67-1	
Surrogates									
13C2-PFDA (S)	126	%	70-130		1	08/12/21 12:15	08/16/21 23:38		
13C2-PFHxA (S)	113	%	70-130		1	08/12/21 12:15	08/16/21 23:38		
HFPO-DAS (S)	127	%	70-130		1	08/12/21 12:15	08/16/21 23:38		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-08007 **Lab ID: 70183526008** Collected: 08/10/21 08:20 Received: 08/10/21 11:32 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)	**0.033**	ug/L	0.020		1	08/13/21 11:55	08/14/21 00:17	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	08/13/21 11:55	08/14/21 00:17		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/16/21 22:03	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/16/21 22:03	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/16/21 22:03	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/16/21 22:03	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/12/21 12:15	08/16/21 22:03	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	08/12/21 12:15	08/16/21 22:03	335-67-1	
Surrogates									
13C2-PFDA (S)	136	%	70-130		1	08/12/21 12:15	08/16/21 22:03		S3
13C2-PFHxA (S)	124	%	70-130		1	08/12/21 12:15	08/16/21 22:03		
HFPO-DAS (S)	146	%	70-130		1	08/12/21 12:15	08/16/21 22:03		S3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-08497 **Lab ID: 70183526009** Collected: 08/10/21 10:35 Received: 08/10/21 11:32 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)	**0.83**	ug/L	0.020		1	08/13/21 11:55	08/14/21 00:34	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	08/13/21 11:55	08/14/21 00:34		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 00:16	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 00:16	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 00:16	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 00:16	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/12/21 12:15	08/17/21 00:16	1763-23-1	
Perfluorooctanoic acid	**4.2**	ng/L	1.8	10	1	08/12/21 12:15	08/17/21 00:16	335-67-1	
Surrogates									
13C2-PFDA (S)	123	%	70-130		1	08/12/21 12:15	08/17/21 00:16		
13C2-PFHxA (S)	107	%	70-130		1	08/12/21 12:15	08/17/21 00:16		
HFPO-DAS (S)	119	%	70-130		1	08/12/21 12:15	08/17/21 00:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-10451 **Lab ID: 70183526010** Collected: 08/10/21 09:20 Received: 08/10/21 11:32 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)	**<0.020**	ug/L	0.020		1	08/13/21 11:55	08/14/21 00:52	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	08/13/21 11:55	08/14/21 00:52		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 23:00	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 23:00	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 23:00	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	08/12/21 12:15	08/16/21 23:00	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	08/12/21 12:15	08/16/21 23:00	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	08/12/21 12:15	08/16/21 23:00	335-67-1	
Surrogates									
13C2-PFDA (S)	138	%	70-130		1	08/12/21 12:15	08/16/21 23:00		S3
13C2-PFHxA (S)	122	%	70-130		1	08/12/21 12:15	08/16/21 23:00		
HFPO-DAS (S)	143	%	70-130		1	08/12/21 12:15	08/16/21 23:00		S3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Sample: N-13192 **Lab ID: 70183526011** Collected: 08/10/21 08:35 Received: 08/10/21 11:32 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)	**0.067**	ug/L	0.020		1	08/13/21 11:55	08/14/21 01:09	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	08/13/21 11:55	08/14/21 01:09		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 15:08	375-73-5	
Perfluoroheptanoic acid	**2.1**	ng/L	1.8		1	08/12/21 12:15	08/17/21 15:08	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 15:08	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/12/21 12:15	08/17/21 15:08	375-95-1	
Perfluorooctanesulfonic acid	**3.6**	ng/L	1.8	10	1	08/12/21 12:15	08/17/21 15:08	1763-23-1	
Perfluorooctanoic acid	**4.5**	ng/L	1.8	10	1	08/12/21 12:15	08/17/21 15:08	335-67-1	
Surrogates									
13C2-PFDA (S)	113	%	70-130		1	08/12/21 12:15	08/17/21 15:08		
13C2-PFHxA (S)	109	%	70-130		1	08/12/21 12:15	08/17/21 15:08		
HFPO-DAS (S)	111	%	70-130		1	08/12/21 12:15	08/17/21 15:08		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

QC Batch: 221720 | Analysis Method: EPA 522
QC Batch Method: EPA 522 | Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70183526001, 70183526002, 70183526003, 70183526004, 70183526005

METHOD BLANK: 1117897 Matrix: Drinking Water
Associated Lab Samples: 70183526001, 70183526002, 70183526003, 70183526004, 70183526005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	08/13/21 14:15	
1,4-Dioxane-d8 (S)	%	90	70-130	08/13/21 14:15	

LABORATORY CONTROL SAMPLE: 1117898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	0.021	105	70-130	
1,4-Dioxane-d8 (S)	%			94	70-130	

MATRIX SPIKE SAMPLE: 1117899

Parameter	Units	70183152002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.02	<0.020	65	70-130	
1,4-Dioxane-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 1117900

Parameter	Units	70183133001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.13	0.13	1	20	
1,4-Dioxane-d8 (S)	%	93	93		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

QC Batch: 221721 | Analysis Method: EPA 522
QC Batch Method: EPA 522 | Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70183526006, 70183526007, 70183526008, 70183526009, 70183526010, 70183526011

METHOD BLANK: 1117901 Matrix: Drinking Water
Associated Lab Samples: 70183526006, 70183526007, 70183526008, 70183526009, 70183526010, 70183526011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	08/13/21 22:32	
1,4-Dioxane-d8 (S)	%	91	70-130	08/13/21 22:32	

LABORATORY CONTROL SAMPLE: 1117902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.9	95	70-130	
1,4-Dioxane-d8 (S)	%			92	70-130	

MATRIX SPIKE SAMPLE: 1117903

Parameter	Units	70183526006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.27	2	2.2	94	70-130	
1,4-Dioxane-d8 (S)	%				91	70-130	

SAMPLE DUPLICATE: 1117904

Parameter	Units	70183526007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	1.8	1.8	5	20	
1,4-Dioxane-d8 (S)	%	94	94		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

QC Batch: 753363
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70183526001, 70183526002, 70183526003, 70183526004, 70183526005, 70183526006, 70183526007, 70183526008, 70183526009, 70183526010, 70183526011

METHOD BLANK: 4114812 Matrix: Water
Associated Lab Samples: 70183526001, 70183526002, 70183526003, 70183526004, 70183526005, 70183526006, 70183526007, 70183526008, 70183526009, 70183526010, 70183526011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	08/16/21 16:57	
Perfluoroheptanoic acid	ng/L	ND	2.0	08/16/21 16:57	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	08/16/21 16:57	
Perfluorononanoic acid	ng/L	ND	2.0	08/16/21 16:57	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	08/16/21 16:57	
Perfluorooctanoic acid	ng/L	ND	2.0	08/16/21 16:57	
13C2-PFDA (S)	%	117	70-130	08/16/21 16:57	
13C2-PFHxA (S)	%	115	70-130	08/16/21 16:57	
HFPO-DAS (S)	%	127	70-130	08/16/21 16:57	
NEtFOSAA-d5 (S)	%	123	70-130	08/16/21 16:57	

LABORATORY CONTROL SAMPLE: 4114813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	7.4	105	70-130	
Perfluoroheptanoic acid	ng/L	8	9.8	122	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.2	99	70-130	
Perfluorononanoic acid	ng/L	8	9.8	123	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.9	106	70-130	
Perfluorooctanoic acid	ng/L	8	8.8	110	70-130	
13C2-PFDA (S)	%			123	70-130	
13C2-PFHxA (S)	%			118	70-130	
HFPO-DAS (S)	%			121	70-130	
NEtFOSAA-d5 (S)	%			128	70-130	

LABORATORY CONTROL SAMPLE: 4114814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.9J	106	50-150	
Perfluoroheptanoic acid	ng/L	2	2.2	108	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.9J	104	50-150	
Perfluorononanoic acid	ng/L	2	2.1	106	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.1	114	50-150	
Perfluorooctanoic acid	ng/L	2	2.1	105	50-150	
13C2-PFDA (S)	%			120	70-130	
13C2-PFHxA (S)	%			120	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

LABORATORY CONTROL SAMPLE: 4114814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
HFPO-DAS (S)	%			118	70-130	
NEtFOSAA-d5 (S)	%			115	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114815 4114816

Parameter	Units	35654049001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Perfluorobutanesulfonic acid	ng/L	0.0012J ug/L	137	134	144	137	104	101	70-130	5	30	
Perfluoroheptanoic acid	ng/L	0.00099U ug/L	155	152	170	165	110	108	70-130	3	30	
Perfluorohexanesulfonic acid	ng/L	0.0012J ug/L	141	138	157	150	110	107	70-130	5	30	
Perfluorononanoic acid	ng/L	0.0019U ug/L	155	152	176	169	114	112	70-130	4	30	
Perfluorooctanesulfonic acid	ng/L	0.0012U ug/L	143	140	156	144	108	102	70-130	8	30	
Perfluorooctanoic acid	ng/L	0.00086U ug/L	155	152	167	161	108	106	70-130	4	30	
13C2-PFDA (S)	%						122	117	70-130			
13C2-PFHxA (S)	%						116	113	70-130			
HFPO-DAS (S)	%						118	113	70-130			
NEtFOSAA-d5 (S)	%						112	112	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

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

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 8/10
Pace Project No.: 70183526

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70183526001	**N-00101**	EPA 522	221720	EPA 522	221789
70183526002	**N-07785**	EPA 522	221720	EPA 522	221789
70183526003	**N-02602**	EPA 522	221720	EPA 522	221789
70183526004	**N-05007**	EPA 522	221720	EPA 522	221789
70183526005	**N-05654**	EPA 522	221720	EPA 522	221789
70183526006	**N-05655**	EPA 522	221721	EPA 522	221817
70183526007	**N-07353**	EPA 522	221721	EPA 522	221817
70183526008	**N-08007**	EPA 522	221721	EPA 522	221817
70183526009	**N-08497**	EPA 522	221721	EPA 522	221817
70183526010	**N-10451**	EPA 522	221721	EPA 522	221817
70183526011	**N-13192**	EPA 522	221721	EPA 522	221817
70183526001	**N-00101**	EPA 537.1	753363	EPA 537.1	754249
70183526002	**N-07785**	EPA 537.1	753363	EPA 537.1	754249
70183526003	**N-02602**	EPA 537.1	753363	EPA 537.1	754249
70183526004	**N-05007**	EPA 537.1	753363	EPA 537.1	754249
70183526005	**N-05654**	EPA 537.1	753363	EPA 537.1	754249
70183526006	**N-05655**	EPA 537.1	753363	EPA 537.1	754249
70183526007	**N-07353**	EPA 537.1	753363	EPA 537.1	754249
70183526008	**N-08007**	EPA 537.1	753363	EPA 537.1	754249
70183526009	**N-08497**	EPA 537.1	753363	EPA 537.1	754249
70183526010	**N-10451**	EPA 537.1	753363	EPA 537.1	754249
70183526011	**N-13192**	EPA 537.1	753363	EPA 537.1	754249

WO# : 70183526

70183526

Sample Request Form

PUBLIC WATER SUPPLIER

8/10/21

Date: 8-10-2021 (W)

Collected By: M. PRIGNANO 11:32

Accepted By:

Cooler Temp: 2.6 °C

❑ WELL OFF LINE _____

❑ WELL RUN TO SYSTEM _____

❑ YES ❑ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Westbury Water Dist.

Address: _____

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	Field Readings pH/Temp	Analysis	Lab No.
8-10-2021 750 AM	GW	well-6 N-00101	RW		RO			1,4 Dioxane PFOA/PFOS	
8/10/21 750 AM	GW	well-7a N-07785	RW		RO				
8/10/21 1045 AM	GW	well-9 N-02602	RW		RO				
8/10/21 945 AM	GW	well-10 N-05007	RW		RO				
8/10/21 850 AM	GW	well-11 N-05654	RW		RO				
8/10/21 1020 AM	GW	well-12 N-5655	RW		S				
8/10/21 1005	GW	well-14 N-07353	RW		RO				
8/10/21 850 AM	GW	well-15 N-08007	RW		RO				
8/10/21 1035 AM	GW	well-16 N-08497	RW		RO				
8/10/21 920 AM	GW	well-17 N-10451	RW		RO				
8/10/21 835 AM	GW	well-18 N-13192	RW		RO				

Remarks:

Sample Condition Upon Re

Pace Analytical®

WO#: 70183526

PM: JSA Due Date: 08/19/21
CLIENT: WWD

Client Name: Westbury WD

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): 2.6 Cooler Temperature Corrected(°C): 2.6

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: ~~Wet~~ Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: CH 8/10/21

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				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	☑ 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:	☑ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL WT OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
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 #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
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	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

September 13, 2021

Supt. John Ingram
Westbury Water & Fire Dist.
160 Drexel Ave.
Westbury, NY 11590

RE: Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Dear Supt. Ingram:

Enclosed are the analytical results for sample(s) received by the laboratory on September 07, 2021. 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

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

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
Jim Van Horn, D&B Engineers
Stephen Laun, D&B Engineers and Architects
Kevin Law, D&B Engineers
Bill Merklin, D&B Engineers
Lisa Passariello, Westbury Water & Fire Dist.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE SUMMARY

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70186464001	**N-00101**	Drinking Water	09/07/21 07:30	09/07/21 10:11
70186464002	**N-07785**	Drinking Water	09/07/21 07:40	09/07/21 10:11
70186464003	**N-05007**	Drinking Water	09/07/21 09:20	09/07/21 10:11
70186464004	**N-05654**	Drinking Water	09/07/21 08:20	09/07/21 10:11
70186464005	**N-07353**	Drinking Water	09/07/21 09:30	09/07/21 10:11
70186464006	**N-08497**	Drinking Water	09/07/21 08:50	09/07/21 10:11

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE ANALYTE COUNT

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70186464001	**N-00101**	EPA 522	JMD	2
		EPA 524.2	KGG	62
70186464002	**N-07785**	EPA 522	JMD	2
70186464003	**N-05007**	EPA 522	JMD	2
		EPA 524.2	KGG	62
70186464004	**N-05654**	EPA 522	JMD	2
		EPA 524.2	KGG	62
70186464005	**N-07353**	EPA 522	JMD	2
		EPA 524.2	KGG	62
70186464006	**N-08497**	EPA 522	JMD	2

PACE-MV = Pace Analytical Services - Melville

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Sample: N-00101 **Lab ID: 70186464001** Collected: 09/07/21 07:30 Received: 09/07/21 10:11 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)	**0.79**	ug/L	0.020		1	09/10/21 11:46	09/10/21 23:54	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	101	%	70-130		1	09/10/21 11:46	09/10/21 23:54		
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Benzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	71-43-2	
Bromobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	108-86-1	
Bromochloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	75-27-4	
Bromoform	**<0.50**	ug/L	0.50		1		09/12/21 18:07	75-25-2	
Bromomethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	0.50		1		09/12/21 18:07	56-23-5	
Chlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	108-90-7	
Chlorodifluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	75-45-6	N3
Chloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	75-00-3	
Chloroform	**<0.50**	ug/L	0.50		1		09/12/21 18:07	67-66-3	
Chloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	106-43-4	
Dibromochloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	124-48-1	
Dibromomethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	75-71-8	
1,1-Dichloroethane	**1.5**	ug/L	0.50		1		09/12/21 18:07	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	107-06-2	
1,1-Dichloroethene	**0.71**	ug/L	0.50		1		09/12/21 18:07	75-35-4	
cis-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	100-41-4	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	0.50		1		09/12/21 18:07	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	99-87-6	
Methylene Chloride	**<0.50**	ug/L	0.50		1		09/12/21 18:07	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Sample: N-00101 **Lab ID: 70186464001** Collected: 09/07/21 07:30 Received: 09/07/21 10:11 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								
Methyl-tert-butyl ether	**<0.50**	ug/L	0.50		1		09/12/21 18:07	1634-04-4	L2
n-Propylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	103-65-1	
Styrene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	79-34-5	
Tetrachloroethene	**0.58**	ug/L	0.50		1		09/12/21 18:07	127-18-4	
Toluene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	108-88-3	
Total Trihalomethanes (Calc.)	**<0.50**	ug/L	0.50		1		09/12/21 18:07		
1,2,3-Trichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	79-00-5	
Trichloroethene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	75-69-4	L1
1,2,3-Trichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:07	76-13-1	N3
1,2,4-Trimethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	108-67-8	
Vinyl chloride	**<0.50**	ug/L	0.50		1		09/12/21 18:07	75-01-4	
m&p-Xylene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	179601-23-1	
o-Xylene	**<0.50**	ug/L	0.50		1		09/12/21 18:07	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	87	%	70-130		1		09/12/21 18:07	2199-69-1	
4-Bromofluorobenzene (S)	83	%	70-130		1		09/12/21 18:07	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Sample: N-07785 **Lab ID: 70186464002** Collected: 09/07/21 07:40 Received: 09/07/21 10:11 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)	**1.2**	ug/L	0.020		1	09/10/21 11:46	09/11/21 00:28	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	103	%	70-130		1	09/10/21 11:46	09/11/21 00:28		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Sample: N-05007 **Lab ID: 70186464003** Collected: 09/07/21 09:20 Received: 09/07/21 10:11 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)	**0.62**	ug/L	0.020		1	09/10/21 11:46	09/11/21 00:45	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	100	%	70-130		1	09/10/21 11:46	09/11/21 00:45		
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Benzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	71-43-2	
Bromobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	108-86-1	
Bromochloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	75-27-4	
Bromoform	**<0.50**	ug/L	0.50		1		09/12/21 18:33	75-25-2	
Bromomethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	0.50		1		09/12/21 18:33	56-23-5	
Chlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	108-90-7	
Chlorodifluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	75-45-6	N3
Chloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	75-00-3	
Chloroform	**<0.50**	ug/L	0.50		1		09/12/21 18:33	67-66-3	
Chloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	106-43-4	
Dibromochloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	124-48-1	
Dibromomethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	75-71-8	
1,1-Dichloroethane	**0.92**	ug/L	0.50		1		09/12/21 18:33	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	107-06-2	
1,1-Dichloroethene	**1.0**	ug/L	0.50		1		09/12/21 18:33	75-35-4	
cis-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	100-41-4	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	0.50		1		09/12/21 18:33	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	99-87-6	
Methylene Chloride	**<0.50**	ug/L	0.50		1		09/12/21 18:33	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Sample: N-05007 **Lab ID: 70186464003** Collected: 09/07/21 09:20 Received: 09/07/21 10:11 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								
Methyl-tert-butyl ether	**<0.50**	ug/L	0.50		1		09/12/21 18:33	1634-04-4	L2
n-Propylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	103-65-1	
Styrene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	79-34-5	
Tetrachloroethene	**2.9**	ug/L	0.50		1		09/12/21 18:33	127-18-4	
Toluene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	108-88-3	
Total Trihalomethanes (Calc.)	**<0.50**	ug/L	0.50		1		09/12/21 18:33		
1,2,3-Trichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	79-00-5	
Trichloroethene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	75-69-4	L1
1,2,3-Trichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:33	76-13-1	N3
1,2,4-Trimethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	108-67-8	
Vinyl chloride	**<0.50**	ug/L	0.50		1		09/12/21 18:33	75-01-4	
m&p-Xylene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	179601-23-1	
o-Xylene	**<0.50**	ug/L	0.50		1		09/12/21 18:33	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	78	%	70-130		1		09/12/21 18:33	2199-69-1	
4-Bromofluorobenzene (S)	78	%	70-130		1		09/12/21 18:33	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Sample: N-05654 **Lab ID: 70186464004** Collected: 09/07/21 08:20 Received: 09/07/21 10:11 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)	**0.64**	ug/L	0.020		1	09/10/21 11:46	09/11/21 01:01	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	09/10/21 11:46	09/11/21 01:01		
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Benzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	71-43-2	
Bromobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	108-86-1	
Bromochloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	75-27-4	
Bromoform	**<0.50**	ug/L	0.50		1		09/12/21 18:58	75-25-2	
Bromomethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	0.50		1		09/12/21 18:58	56-23-5	
Chlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	108-90-7	
Chlorodifluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	75-45-6	N3
Chloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	75-00-3	
Chloroform	**<0.50**	ug/L	0.50		1		09/12/21 18:58	67-66-3	
Chloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	106-43-4	
Dibromochloromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	124-48-1	
Dibromomethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	75-71-8	
1,1-Dichloroethane	**0.87**	ug/L	0.50		1		09/12/21 18:58	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	107-06-2	
1,1-Dichloroethene	**0.63**	ug/L	0.50		1		09/12/21 18:58	75-35-4	
cis-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	100-41-4	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	0.50		1		09/12/21 18:58	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	99-87-6	
Methylene Chloride	**<0.50**	ug/L	0.50		1		09/12/21 18:58	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Sample: N-05654 **Lab ID: 70186464004** Collected: 09/07/21 08:20 Received: 09/07/21 10:11 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								
Methyl-tert-butyl ether	**<0.50**	ug/L	0.50		1		09/12/21 18:58	1634-04-4	L2
n-Propylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	103-65-1	
Styrene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	127-18-4	
Toluene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	108-88-3	
Total Trihalomethanes (Calc.)	**<0.50**	ug/L	0.50		1		09/12/21 18:58		
1,2,3-Trichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	79-00-5	
Trichloroethene	**0.62**	ug/L	0.50		1		09/12/21 18:58	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	75-69-4	L1
1,2,3-Trichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.50**	ug/L	0.50		1		09/12/21 18:58	76-13-1	N3
1,2,4-Trimethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	108-67-8	
Vinyl chloride	**<0.50**	ug/L	0.50		1		09/12/21 18:58	75-01-4	
m&p-Xylene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	179601-23-1	
o-Xylene	**<0.50**	ug/L	0.50		1		09/12/21 18:58	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	80	%	70-130		1		09/12/21 18:58	2199-69-1	
4-Bromofluorobenzene (S)	81	%	70-130		1		09/12/21 18:58	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Sample: N-07353 **Lab ID: 70186464005** Collected: 09/07/21 09:30 Received: 09/07/21 10:11 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)	**1.9**	ug/L	0.020		1	09/10/21 11:46	09/11/21 01:18	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	09/10/21 11:46	09/11/21 01:18		
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Benzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	71-43-2	
Bromobenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	108-86-1	
Bromochloromethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	75-27-4	
Bromoform	**<0.50**	ug/L	0.50		1		09/12/21 19:24	75-25-2	
Bromomethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	0.50		1		09/12/21 19:24	56-23-5	
Chlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	108-90-7	
Chlorodifluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	75-45-6	N3
Chloroethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	75-00-3	
Chloroform	**<0.50**	ug/L	0.50		1		09/12/21 19:24	67-66-3	
Chloromethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	106-43-4	
Dibromochloromethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	124-48-1	
Dibromomethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	75-71-8	
1,1-Dichloroethane	**3.7**	ug/L	0.50		1		09/12/21 19:24	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	107-06-2	
1,1-Dichloroethene	**1.3**	ug/L	0.50		1		09/12/21 19:24	75-35-4	
cis-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	100-41-4	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	0.50		1		09/12/21 19:24	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	99-87-6	
Methylene Chloride	**<0.50**	ug/L	0.50		1		09/12/21 19:24	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Sample: N-07353 **Lab ID: 70186464005** Collected: 09/07/21 09:30 Received: 09/07/21 10:11 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								
Methyl-tert-butyl ether	**<0.50**	ug/L	0.50		1		09/12/21 19:24	1634-04-4	L2
n-Propylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	103-65-1	
Styrene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	127-18-4	
Toluene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	108-88-3	
Total Trihalomethanes (Calc.)	**<0.50**	ug/L	0.50		1		09/12/21 19:24		
1,2,3-Trichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	120-82-1	
1,1,1-Trichloroethane	**0.72**	ug/L	0.50		1		09/12/21 19:24	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	79-00-5	
Trichloroethene	**1.1**	ug/L	0.50		1		09/12/21 19:24	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	75-69-4	L1
1,2,3-Trichloropropane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.50**	ug/L	0.50		1		09/12/21 19:24	76-13-1	N3
1,2,4-Trimethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	108-67-8	
Vinyl chloride	**<0.50**	ug/L	0.50		1		09/12/21 19:24	75-01-4	
m&p-Xylene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	179601-23-1	
o-Xylene	**<0.50**	ug/L	0.50		1		09/12/21 19:24	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	84	%	70-130		1		09/12/21 19:24	2199-69-1	
4-Bromofluorobenzene (S)	82	%	70-130		1		09/12/21 19:24	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Sample: N-08497 **Lab ID: 70186464006** Collected: 09/07/21 08:50 Received: 09/07/21 10:11 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)	**0.88**	ug/L	0.020		1	09/10/21 11:46	09/11/21 01:35	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	100	%	70-130		1	09/10/21 11:46	09/11/21 01:35		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

QC Batch: 225182
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70186464001, 70186464003, 70186464004, 70186464005

METHOD BLANK: 1135430 Matrix: Water
Associated Lab Samples: 70186464001, 70186464003, 70186464004, 70186464005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	09/12/21 13:15	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	09/12/21 13:15	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	09/12/21 13:15	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	09/12/21 13:15	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	09/12/21 13:15	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	09/12/21 13:15	
1,1-Dichloroethene	ug/L	<0.50	0.50	09/12/21 13:15	
1,1-Dichloropropene	ug/L	<0.50	0.50	09/12/21 13:15	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	09/12/21 13:15	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	09/12/21 13:15	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	09/12/21 13:15	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	09/12/21 13:15	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	09/12/21 13:15	
1,2-Dichloroethane	ug/L	<0.50	0.50	09/12/21 13:15	
1,2-Dichloropropane	ug/L	<0.50	0.50	09/12/21 13:15	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	09/12/21 13:15	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	09/12/21 13:15	
1,3-Dichloropropane	ug/L	<0.50	0.50	09/12/21 13:15	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	09/12/21 13:15	
2,2-Dichloropropane	ug/L	<0.50	0.50	09/12/21 13:15	
2-Chlorotoluene	ug/L	<0.50	0.50	09/12/21 13:15	
4-Chlorotoluene	ug/L	<0.50	0.50	09/12/21 13:15	
Benzene	ug/L	<0.50	0.50	09/12/21 13:15	
Bromobenzene	ug/L	<0.50	0.50	09/12/21 13:15	
Bromochloromethane	ug/L	<0.50	0.50	09/12/21 13:15	
Bromodichloromethane	ug/L	<0.50	0.50	09/12/21 13:15	
Bromoform	ug/L	<0.50	0.50	09/12/21 13:15	
Bromomethane	ug/L	<0.50	0.50	09/12/21 13:15	
Carbon tetrachloride	ug/L	<0.50	0.50	09/12/21 13:15	
Chlorobenzene	ug/L	<0.50	0.50	09/12/21 13:15	
Chlorodifluoromethane	ug/L	<0.50	0.50	09/12/21 13:15	N3
Chloroethane	ug/L	<0.50	0.50	09/12/21 13:15	
Chloroform	ug/L	<0.50	0.50	09/12/21 13:15	
Chloromethane	ug/L	<0.50	0.50	09/12/21 13:15	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	09/12/21 13:15	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	09/12/21 13:15	
Dibromochloromethane	ug/L	<0.50	0.50	09/12/21 13:15	
Dibromomethane	ug/L	<0.50	0.50	09/12/21 13:15	
Dichlorodifluoromethane	ug/L	<0.50	0.50	09/12/21 13:15	
Ethylbenzene	ug/L	<0.50	0.50	09/12/21 13:15	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

METHOD BLANK: 1135430 Matrix: Water
Associated Lab Samples: 70186464001, 70186464003, 70186464004, 70186464005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	09/12/21 13:15	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	09/12/21 13:15	
m&p-Xylene	ug/L	<0.50	0.50	09/12/21 13:15	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	09/12/21 13:15	
Methylene Chloride	ug/L	<0.50	0.50	09/12/21 13:15	
n-Butylbenzene	ug/L	<0.50	0.50	09/12/21 13:15	
n-Propylbenzene	ug/L	<0.50	0.50	09/12/21 13:15	
o-Xylene	ug/L	<0.50	0.50	09/12/21 13:15	
p-Isopropyltoluene	ug/L	<0.50	0.50	09/12/21 13:15	
sec-Butylbenzene	ug/L	<0.50	0.50	09/12/21 13:15	
Styrene	ug/L	<0.50	0.50	09/12/21 13:15	
tert-Butylbenzene	ug/L	<0.50	0.50	09/12/21 13:15	
Tetrachloroethene	ug/L	<0.50	0.50	09/12/21 13:15	
Toluene	ug/L	<0.50	0.50	09/12/21 13:15	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	09/12/21 13:15	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	09/12/21 13:15	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	09/12/21 13:15	
Trichloroethene	ug/L	<0.50	0.50	09/12/21 13:15	
Trichlorofluoromethane	ug/L	<0.50	0.50	09/12/21 13:15	
Vinyl chloride	ug/L	<0.50	0.50	09/12/21 13:15	
1,2-Dichlorobenzene-d4 (S)	%	86	70-130	09/12/21 13:15	
4-Bromofluorobenzene (S)	%	84	70-130	09/12/21 13:15	

LABORATORY CONTROL SAMPLE: 1135431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	7.8	78	70-130	
1,1,1-Trichloroethane	ug/L	10	8.3	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	8.1	81	70-130	
1,1,2-Trichloroethane	ug/L	10	7.5	75	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	11.5	115	70-130	N3
1,1-Dichloroethane	ug/L	10	7.7	77	70-130	
1,1-Dichloroethene	ug/L	10	7.2	72	70-130	
1,1-Dichloropropene	ug/L	10	8.0	80	70-130	
1,2,3-Trichlorobenzene	ug/L	10	7.5	75	70-130	
1,2,3-Trichloropropane	ug/L	10	8.6	86	70-130	
1,2,4-Trichlorobenzene	ug/L	10	7.3	73	70-130	
1,2,4-Trimethylbenzene	ug/L	10	8.7	87	70-130	
1,2-Dichlorobenzene	ug/L	10	8.5	85	70-130	
1,2-Dichloroethane	ug/L	10	8.5	85	70-130	
1,2-Dichloropropane	ug/L	10	7.2	72	70-130	
1,3,5-Trimethylbenzene	ug/L	10	8.2	82	70-130	
1,3-Dichlorobenzene	ug/L	10	8.4	84	70-130	
1,3-Dichloropropane	ug/L	10	7.7	77	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

LABORATORY CONTROL SAMPLE: 1135431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	8.3	83	70-130	
2,2-Dichloropropane	ug/L	10	8.2	82	70-130	
2-Chlorotoluene	ug/L	10	7.8	78	70-130	
4-Chlorotoluene	ug/L	10	7.2	72	70-130	
Benzene	ug/L	10	7.5	75	70-130	
Bromobenzene	ug/L	10	8.3	83	70-130	
Bromochloromethane	ug/L	10	8.2	82	70-130	
Bromodichloromethane	ug/L	10	7.7	77	70-130	
Bromoform	ug/L	10	8.4	84	70-130	
Bromomethane	ug/L	10	10	100	70-130	
Carbon tetrachloride	ug/L	10	9.2	92	70-130	
Chlorobenzene	ug/L	10	7.7	77	70-130	
Chlorodifluoromethane	ug/L	10	9.4	94	70-130	N3
Chloroethane	ug/L	10	11.0	110	70-130	
Chloroform	ug/L	10	8.2	82	70-130	
Chloromethane	ug/L	10	11.7	117	70-130	
cis-1,2-Dichloroethene	ug/L	10	7.1	71	70-130	
cis-1,3-Dichloropropene	ug/L	10	7.4	74	70-130	
Dibromochloromethane	ug/L	10	7.9	79	70-130	
Dibromomethane	ug/L	10	7.9	79	70-130	
Dichlorodifluoromethane	ug/L	10	11.8	118	70-130	
Ethylbenzene	ug/L	10	7.6	76	70-130	
Hexachloro-1,3-butadiene	ug/L	10	8.7	87	70-130	
Isopropylbenzene (Cumene)	ug/L	10	8.0	80	70-130	
m&p-Xylene	ug/L	20	15.0	75	70-130	
Methyl-tert-butyl ether	ug/L	10	6.1	61	70-130	L2
Methylene Chloride	ug/L	10	7.0	70	70-130	
n-Butylbenzene	ug/L	10	8.6	86	70-130	
n-Propylbenzene	ug/L	10	8.1	81	70-130	
o-Xylene	ug/L	10	7.8	78	70-130	
p-Isopropyltoluene	ug/L	10	8.4	84	70-130	
sec-Butylbenzene	ug/L	10	8.3	83	70-130	
Styrene	ug/L	10	7.7	77	70-130	
tert-Butylbenzene	ug/L	10	8.0	80	70-130	
Tetrachloroethene	ug/L	10	8.4	84	70-130	
Toluene	ug/L	10	7.4	74	70-130	
Total Trihalomethanes (Calc.)	ug/L		32.2			
trans-1,2-Dichloroethene	ug/L	10	7.4	74	70-130	
trans-1,3-Dichloropropene	ug/L	10	7.2	72	70-130	
Trichloroethene	ug/L	10	7.2	72	70-130	
Trichlorofluoromethane	ug/L	10	13.6	136	70-130	L1
Vinyl chloride	ug/L	10	11.1	111	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

SAMPLE DUPLICATE: 1135465

Parameter	Units	70186894002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,1-Trichloroethane	ug/L	0.98	0.92	7	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	<0.50		20	N3
1,1-Dichloroethane	ug/L	1.2	1.2	3	20	
1,1-Dichloroethene	ug/L	<0.50	<0.50		20	
1,1-Dichloropropene	ug/L	<0.50	<0.50		20	
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,3-Trichloropropane	ug/L	<0.50	<0.50		20	
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,2-Dichloroethane	ug/L	<0.50	<0.50		20	
1,2-Dichloropropane	ug/L	<0.50	<0.50		20	
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,3-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,3-Dichloropropane	ug/L	<0.50	<0.50		20	
1,4-Dichlorobenzene	ug/L	<0.50	<0.50		20	
2,2-Dichloropropane	ug/L	<0.50	<0.50		20	
2-Chlorotoluene	ug/L	<0.50	<0.50		20	
4-Chlorotoluene	ug/L	<0.50	<0.50		20	
Benzene	ug/L	<0.50	<0.50		20	
Bromobenzene	ug/L	<0.50	<0.50		20	
Bromochloromethane	ug/L	<0.50	<0.50		20	
Bromodichloromethane	ug/L	<0.50	<0.50		20	
Bromoform	ug/L	<0.50	<0.50		20	
Bromomethane	ug/L	<0.50	<0.50		20	
Carbon tetrachloride	ug/L	<0.50	<0.50		20	
Chlorobenzene	ug/L	<0.50	<0.50		20	
Chlorodifluoromethane	ug/L	<0.50	<0.50		20	N3
Chloroethane	ug/L	<0.50	<0.50		20	
Chloroform	ug/L	<0.50	<0.50		20	
Chloromethane	ug/L	<0.50	<0.50		20	
cis-1,2-Dichloroethene	ug/L	<0.50	<0.50		20	
cis-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Dibromochloromethane	ug/L	<0.50	<0.50		20	
Dibromomethane	ug/L	<0.50	<0.50		20	
Dichlorodifluoromethane	ug/L	<0.50	<0.50		20	
Ethylbenzene	ug/L	<0.50	<0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	<0.50	<0.50		20	
n-Butylbenzene	ug/L	<0.50	<0.50		20	
n-Propylbenzene	ug/L	<0.50	<0.50		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

SAMPLE DUPLICATE: 1135465

Parameter	Units	70186894002 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	<0.50	<0.50		20	
p-Isopropyltoluene	ug/L	<0.50	<0.50		20	
sec-Butylbenzene	ug/L	<0.50	<0.50		20	
Styrene	ug/L	<0.50	<0.50		20	
tert-Butylbenzene	ug/L	<0.50	<0.50		20	
Tetrachloroethene	ug/L	<0.50	<0.50		20	
Toluene	ug/L	<0.50	<0.50		20	
Total Trihalomethanes (Calc.)	ug/L	<0.50	<0.50		20	
trans-1,2-Dichloroethene	ug/L	<0.50	<0.50		20	
trans-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Trichloroethene	ug/L	<0.50	<0.50		20	
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	75	78		20	
4-Bromofluorobenzene (S)	%	84	84		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

QC Batch: 225025
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70186464001, 70186464002, 70186464003, 70186464004, 70186464005, 70186464006

METHOD BLANK: 1134484 Matrix: Drinking Water
Associated Lab Samples: 70186464001, 70186464002, 70186464003, 70186464004, 70186464005, 70186464006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	09/10/21 22:12	
1,4-Dioxane-d8 (S)	%	101	70-130	09/10/21 22:12	

LABORATORY CONTROL SAMPLE: 1134485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	4.1	102	70-130	E
1,4-Dioxane-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1134486

Parameter	Units	70186409003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2.9	4	7.0	101	70-130	E
1,4-Dioxane-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1134487

Parameter	Units	70186464001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.79	0.78	0	20	
1,4-Dioxane-d8 (S)	%	101	104		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

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.

WORKORDER QUALIFIERS

WO: 70186464

[1] 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.

SAMPLE QUALIFIERS

Sample: 70186464001

[1] 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.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
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
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: POC/1,4 DIOXANE - 9/7
Pace Project No.: 70186464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70186464001	**N-00101**	EPA 522	225025	EPA 522	225116
70186464002	**N-07785**	EPA 522	225025	EPA 522	225116
70186464003	**N-05007**	EPA 522	225025	EPA 522	225116
70186464004	**N-05654**	EPA 522	225025	EPA 522	225116
70186464005	**N-07353**	EPA 522	225025	EPA 522	225116
70186464006	**N-08497**	EPA 522	225025	EPA 522	225116
70186464001	**N-00101**	EPA 524.2	225182		
70186464003	**N-05007**	EPA 524.2	225182		
70186464004	**N-05654**	EPA 524.2	225182		
70186464005	**N-07353**	EPA 524.2	225182		

WO# : 70186464

70186464

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 9-7-2021

Collected By: M. Pritchard

Accepted By: [signature]

Cooler Temp: 11.3 °C (W) 10:11

❑ WELL OFF LINE _____

❑ WELL RUN TO SYSTEM _____

❑ YES ❑ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Westbury Water Dist.

Address: _____

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	Field Readings pH/Temp	Analysis	Lab No.
9-7-2021 905 AM	PW	420030 7-11 Powells Lane	D		RO	.84		M.C	
9/7/21 940 AM	PW	420040 Town N. Hempstead Brush Hollow Rd	D		RO	.77			
9/7/21 750 AM	PW	420090 W.W.D. 1160 Drexel Ave.	D		RO	.90			
9/7/21 955 AM	PW	420060 W.F.D. HQ 355 Maple Ave	D		RO	1.60			
9/7/21 830 AM	PW	420120 McDonalds Old Country Rd.	D		RO	.84			
9/7/21 730 AM	GW	well-4 N-00101	RW		RO			1.4 Dioxane / POC	001
9/7/21 740 AM	GW	well-7a N-07785	RW		RO			1.4 Dioxane	002
9/7/21 920 AM	GW	well-10 N-05007	RW		RO			1.4 Dioxane / POC	003
9/7/21 820 AM	GW	well [redacted] N-05654	RW		RO			1.4 Dioxane / POC	004
9/7/21 930 AM	GW	well-14 N-07353	RW		RO			1.4 Dioxane / POC	005
9/7/21 850 AM	GW	well-16 N-07497	RW		RO			1.4. Dioxane	006

Remarks: Week (1)

Sample Condition Upon Receipt

Pace Analytical®

WO#: 70186464
PM: JSA Due Date: 09/16/21
CLIENT: WWD

Client Name: Westbury Proje

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): 11.3 Cooler Temperature Corrected(°C): 11.3

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☐ No

Type of Ice: Wet Blue None

☒ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: CM 9/17/21

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				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	☑ 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:	☑ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL WT OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
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).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
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	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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