

July 23, 2021

Keith Gadway
Quantum Environmental
4111 Jackson Road
Ann Arbor, MI 48103

RE: Project: 14-Dx
Pace Project No.: 35647305

Dear Keith Gadway:

Enclosed are the analytical results for sample(s) received by the laboratory on July 14, 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 - Ormond Beach

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

Sincerely,



Bill White
bill.white@pacelabs.com
(386) 672-5668
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 14-Dx
Pace Project No.: 35647305

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

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

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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SAMPLE SUMMARY

Project: 14-Dx
Pace Project No.: 35647305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35647305001	3411 WAGNER WOODS CT	Water	07/12/21 00:01	07/14/21 11:05
35647305002	3466 WAGNER WOODS CT	Water	07/12/21 00:01	07/14/21 11:05
35647305003	3573 ELIZABETH	Water	07/12/21 00:01	07/14/21 11:05
35647305004	3686 ELIZABETH	Water	07/12/21 00:01	07/14/21 11:05
35647305005	3789 ELIZABETH	Water	07/12/21 00:01	07/14/21 11:05
35647305006	3965 DEXTER-ANN ARBOR	Water	07/12/21 00:01	07/14/21 11:05
35647305007	TRIP BLANK	Water	07/12/21 00:01	07/14/21 11:05
35647305008	4960 PARK	Water	07/12/21 00:01	07/14/21 11:05
35647305009	4960 PARK DUP	Water	07/12/21 00:01	07/14/21 11:05
35647305010	116 LUELLA	Water	07/12/21 00:01	07/14/21 11:05
35647305011	355 WEST DELHI	Water	07/12/21 00:01	07/14/21 11:05
35647305012	752 ROSE	Water	07/12/21 00:01	07/14/21 11:05
35647305013	828 ROSE	Water	07/12/21 00:01	07/14/21 11:05
35647305014	858 ROSE	Water	07/12/21 00:01	07/14/21 11:05
35647305015	940 ROSE	Water	07/12/21 00:01	07/14/21 11:05
35647305016	1054 NORTH WAGNER	Water	07/12/21 00:01	07/14/21 11:05
35647305017	1066 NORTH WAGNER	Water	07/12/21 00:01	07/14/21 11:05
35647305018	3210 STOWE	Water	07/12/21 00:01	07/14/21 11:05
35647305019	3424 STOWE	Water	07/12/21 00:01	07/14/21 11:05

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SAMPLE ANALYTE COUNT

Project: 14-Dx
Pace Project No.: 35647305

Lab ID	Sample ID	Method	Analysts	Analytes Reported
35647305001	3411 WAGNER WOODS CT	EPA 522	CTB	2
35647305002	3466 WAGNER WOODS CT	EPA 522	CTB	2
35647305003	3573 ELIZABETH	EPA 522	CTB	2
35647305004	3686 ELIZABETH	EPA 522	CTB	2
35647305005	3789 ELIZABETH	EPA 522	CTB	2
35647305006	3965 DEXTER-ANN ARBOR	EPA 522	CTB	2
35647305007	TRIP BLANK	EPA 522	CTB	2
35647305008	4960 PARK	EPA 522	CTB	2
35647305009	4960 PARK DUP	EPA 522	CTB	2
35647305010	116 LUELLA	EPA 522	CTB	2
35647305011	355 WEST DELHI	EPA 522	CTB	2
35647305012	752 ROSE	EPA 522	CTB	2
35647305013	828 ROSE	EPA 522	CTB	2
35647305014	858 ROSE	EPA 522	CTB	2
35647305015	940 ROSE	EPA 522	CTB	2
35647305016	1054 NORTH WAGNER	EPA 522	CTB	2
35647305017	1066 NORTH WAGNER	EPA 522	CTB	2
35647305018	3210 STOWE	EPA 522	CTB	2
35647305019	3424 STOWE	EPA 522	CTB	2

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35647305

Sample: 3411 WAGNER WOODS CT Lab ID: 35647305001 Collected: 07/12/21 00:01 Received: 07/14/21 11:05 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/22/21 22:29	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	80	%	70-130		1	07/21/21 17:08	07/22/21 22:29		

Sample: 3466 WAGNER WOODS CT Lab ID: 35647305002 Collected: 07/12/21 00:01 Received: 07/14/21 11:05 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/22/21 22:45	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	76	%	70-130		1	07/21/21 17:08	07/22/21 22:45		

Sample: 3573 ELIZABETH Lab ID: 35647305003 Collected: 07/12/21 00:01 Received: 07/14/21 11:05 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	1.8	ug/L	0.20	0.12	1	07/21/21 17:08	07/22/21 23:01	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	82	%	70-130		1	07/21/21 17:08	07/22/21 23:01		

Sample: 3686 ELIZABETH Lab ID: 35647305004 Collected: 07/12/21 00:01 Received: 07/14/21 11:05 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/22/21 23:16	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	07/21/21 17:08	07/22/21 23:16		

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35647305

Sample: 3789 ELIZABETH Lab ID: 35647305005 Collected: 07/12/21 00:01 Received: 07/14/21 11:05 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/22/21 23:32	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	07/21/21 17:08	07/22/21 23:32		

Sample: 3965 DEXTER-ANN ARBOR Lab ID: 35647305006 Collected: 07/12/21 00:01 Received: 07/14/21 11:05 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	0.81	ug/L	0.20	0.12	1	07/21/21 17:08	07/22/21 23:48	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	86	%	70-130		1	07/21/21 17:08	07/22/21 23:48		

Sample: TRIP BLANK Lab ID: 35647305007 Collected: 07/12/21 00:01 Received: 07/14/21 11:05 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 00:03	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	07/21/21 17:08	07/23/21 00:03		

Sample: 4960 PARK Lab ID: 35647305008 Collected: 07/12/21 00:01 Received: 07/14/21 11:05 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 00:19	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	07/21/21 17:08	07/23/21 00:19		

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35647305

Sample: 4960 PARK DUP									
		Lab ID: 35647305009	Collected: 07/12/21 00:01	Received: 07/14/21 11:05	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 11:19	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	71	%	70-130		1	07/21/21 17:08	07/23/21 11:19		

Sample: 116 LUELLA									
		Lab ID: 35647305010	Collected: 07/12/21 00:01	Received: 07/14/21 11:05	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 00:50	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	07/21/21 17:08	07/23/21 00:50		

Sample: 355 WEST DELHI									
		Lab ID: 35647305011	Collected: 07/12/21 00:01	Received: 07/14/21 11:05	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 01:21	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	78	%	70-130		1	07/21/21 17:08	07/23/21 01:21		

Sample: 752 ROSE									
		Lab ID: 35647305012	Collected: 07/12/21 00:01	Received: 07/14/21 11:05	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 11:35	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	75	%	70-130		1	07/21/21 17:08	07/23/21 11:35		

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35647305

Sample: 828 ROSE		Lab ID: 35647305013	Collected: 07/12/21 00:01	Received: 07/14/21 11:05	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane		Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach							
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 01:53	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	07/21/21 17:08	07/23/21 01:53		

Sample: 858 ROSE		Lab ID: 35647305014	Collected: 07/12/21 00:01	Received: 07/14/21 11:05	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane		Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach							
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 02:09	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	78	%	70-130		1	07/21/21 17:08	07/23/21 02:09		

Sample: 940 ROSE		Lab ID: 35647305015	Collected: 07/12/21 00:01	Received: 07/14/21 11:05	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane		Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach							
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 02:24	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	86	%	70-130		1	07/21/21 17:08	07/23/21 02:24		

Sample: 1054 NORTH WAGNER		Lab ID: 35647305016	Collected: 07/12/21 00:01	Received: 07/14/21 11:05	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane		Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach							
1,4-Dioxane (p-Dioxane)	0.80	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 02:40	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	07/21/21 17:08	07/23/21 02:40		

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35647305

Sample: 1066 NORTH WAGNER									
		Lab ID: 35647305017	Collected: 07/12/21 00:01		Received: 07/14/21 11:05		Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 02:56	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	80	%	70-130		1	07/21/21 17:08	07/23/21 02:56		

Sample: 3210 STOWE									
		Lab ID: 35647305018	Collected: 07/12/21 00:01		Received: 07/14/21 11:05		Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 03:12	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	07/21/21 17:08	07/23/21 03:12		

Sample: 3424 STOWE									
		Lab ID: 35647305019	Collected: 07/12/21 00:01		Received: 07/14/21 11:05		Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach									
1,4-Dioxane (p-Dioxane)	<0.12	ug/L	0.20	0.12	1	07/21/21 17:08	07/23/21 03:27	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	84	%	70-130		1	07/21/21 17:08	07/23/21 03:27		

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 14-Dx
Pace Project No.: 35647305

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.

BATCH QUALIFIERS

Batch: 747697

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 14-Dx
Pace Project No.: 35647305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35647305001	3411 WAGNER WOODS CT	EPA 522	747214	EPA 522	747697
35647305002	3466 WAGNER WOODS CT	EPA 522	747214	EPA 522	747697
35647305003	3573 ELIZABETH	EPA 522	747214	EPA 522	747697
35647305004	3686 ELIZABETH	EPA 522	747214	EPA 522	747697
35647305005	3789 ELIZABETH	EPA 522	747214	EPA 522	747697
35647305006	3965 DEXTER-ANN ARBOR	EPA 522	747214	EPA 522	747697
35647305007	TRIP BLANK	EPA 522	747214	EPA 522	747697
35647305008	4960 PARK	EPA 522	747214	EPA 522	747697
35647305009	4960 PARK DUP	EPA 522	747214	EPA 522	747697
35647305010	116 LUELLA	EPA 522	747214	EPA 522	747697
35647305011	355 WEST DELHI	EPA 522	747214	EPA 522	747697
35647305012	752 ROSE	EPA 522	747214	EPA 522	747697
35647305013	828 ROSE	EPA 522	747214	EPA 522	747697
35647305014	858 ROSE	EPA 522	747214	EPA 522	747697
35647305015	940 ROSE	EPA 522	747214	EPA 522	747697
35647305016	1054 NORTH WAGNER	EPA 522	747214	EPA 522	747697
35647305017	1066 NORTH WAGNER	EPA 522	747214	EPA 522	747697
35647305018	3210 STOWE	EPA 522	747214	EPA 522	747697
35647305019	3424 STOWE	EPA 522	747214	EPA 522	747697

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W0# : 35647305



35647305

CHAIN-OF-CUSTODY / Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately,
 and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

Section C

Page : 1 Of 2

Required Project Information:
 Report To: Keith Gadway
 Copy To:
 Purchase Order #: 14-Dx
 Project Name: lisa.harvey@pacelabs.com
 Project #: 16042

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager:
 Pace Profile #: 16042

Regulatory Agency:
 State / Location: MI

ITEM #	MATRIX	CODE	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
						START	END									
1	Drinking Water	DW	3411 WAGNER WOODS CT	34	G			7/16/10	1600	7/16/10	12:00	Keith Gadway	7/16/10	12:00	ES pacelabs	
2	Water	WT	3466 WAGNER WOODS CT													
3	Waste Water	WW	3573 ELIZABETH													
4	Product	P	3686 ELIZABETH													
5	Soil/Solid	SL	3789 ELIZABETH													
6	Oil	OL	3965 DEXTER-ANN ARBOR													
7	Wipe	WP	TRIP BLANK													
8	Air	AR														
9	Other	OT														
10	Tissue	TS														
11																
12																

Requested Analysis Filtered (Y/N)

Analyses Test: 522,1,4-dioxane +

Preservatives: Other Sodium Bisulfate +, Melanol, Na2S2O3, NaOH, HCl, HNO3, H2SO4, Unpreserved

OF CONTAINERS

SAMPLE TEMP AT COLLECTION

RELINQUISHED BY / AFFILIATION: Keith Gadway

DATE: 7/16/10

TIME: 12:00

ACCEPTED BY / AFFILIATION: Keith Gadway

DATE: 7/16/10

TIME: 12:00

SAMPLE CONDITIONS: ES pacelabs

TEMP in C

Received on

Sealed

Cooler

Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

Section A

Required Client Information:

Company: Quantum Environmental
 Address: 4111 Jackson Road
 Ann Arbor, MI 48103
 Email: kgadway@quantumentvironmental.com
 Phone: (734) 930-2600 Fax:
 Requested Due Date:

Section B

Required Project Information:

Report To: Keith Gadway
 Copy To:
 Purchase Order #:
 Project Name: 14-DX
 Project #: 16042

Section C

Invoice Information:

Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: isa.harvey@pacelabs.com
 Pace Profile #: 16042
 State / Location: MI
 Regulatory Agency:

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	PRESERVATIVES	ANALYSES TEST	DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
			START	END													
1	4960 PARK	DW	7/13/21		G	3	Unpreserved	X	7/13/21	1600	7/13/21	1200	Mike Prochaska	7/13/21	1200	Intact	
2	4960 PARK DUP	WT					Na2S2O3	X									Sealed
3	116 LUELLA	Waste Water					HCl										Cooler
4	355 WEST DELHI	Water					HNO3										Custody
5	752 ROSE	Product					H2SO4										Ice
6	828 ROSE	Soil/Solid					Unpreserved										Received on
7	858 ROSE	Oil					522,1,4-dioxane	X									Temp in C
8	940 ROSE	Wipe															
9	1054 NORTH WAGNER	Air															
10	1066 NORTH WAGNER	Other															
11	3210 STOWE	Tissue															
12	3424 STOWE																

RELINQUISHED BY / AFFILIATION: Mike Prochaska
 DATE: 7/13/21
 TIME: 1200

ACCEPTED BY / AFFILIATION: Mike Prochaska
 DATE: 7/13/21
 TIME: 1200

SAMPLER NAME AND SIGNATURE: MIKE PROCHASKA
 PRINT Name of SAMPLER: MIKE PROCHASKA
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 7/13/21



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

WO#: 35647305

SECUR)

Project #
Project Manager:
Client:

PM: WBW Due Date: 07/23/21
CLIENT: QUANTUMENV

Date and Initials of person:
Examining contents:
Label:
Deliver: JCS
pH:

Thermometer Used: T-337 Date: 7-14-21 Time: 1107 Initials: JG1

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C <u>4.2</u> (Visual) <u>70.4</u> (Correction Factor) <u>4.6</u> (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #2 Temp. °C <u>5.1</u> (Visual) <u>I</u> (Correction Factor) <u>5.5</u> (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #3 Temp. °C <u>7.7</u> (Visual) <u>I</u> (Correction Factor) <u>8.1</u> (Actual) <small>SMAII RED</small>	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Other _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 7747 4384 2948

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Ice: Wet Blue Dry None NOT ICE

Packing Material: Bubble Wrap Bubble Bags None Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): cooler 3 of 3 out even bubble wrap/bags
ampired ice in shell red cooler

Project Manager Review: _____ Date: _____

Pace Container Order #831521

Please Return
This Copy
With COC

Addresses	Ship To :	Return To:
Order By :		
Company <u>Quantum Environmental</u>	Company <u>Quantum Environmental</u>	Company <u>Pace Analytical Ormond Beach</u>
Contact <u>Gadway, Keith</u>	Contact <u>Gadway, Keith</u>	Contact <u>Harvey, Lisa</u>
Email <u>kgadway@quantumenvironmental.com</u>	Email <u>kgadway@quantumenvironmental.com</u>	Email <u>lisa.harvey@pacelabs.com</u>
Address <u>4111 Jackson Road</u>	Address <u>4111 Jackson Road</u>	Address <u>8 East Tower Circle</u>
Address 2 _____	Address 2 _____	Address 2 _____
City <u>Ann Arbor</u>	City <u>Ann Arbor</u>	City <u>Ormond Beach</u>
State <u>MI</u> Zip <u>48103</u>	State <u>MI</u> Zip <u>48103</u>	State <u>FL</u> Zip <u>32174</u>
Phone <u>(734) 930-2600</u>	Phone <u>(734) 930-2600</u>	Phone <u>(386) 672-5668</u>

Info				
Project Name <u>14-Dx</u>	Due Date <u>06/25/2021</u>	Profile <u>16042</u>	Quote _____	
Project Manager <u>Harvey, Lisa</u>	Return Date _____	Carrier <u>FedEx Ground</u>	Location <u>MI</u>	

Trip Blanks <input checked="" type="checkbox"/> Include Trip Blanks	Bottle Labels <input type="checkbox"/> Blank <input checked="" type="checkbox"/> Pre-Printed No Sample IDs <input type="checkbox"/> Pre-Printed With Sample IDs	Bottles <input type="checkbox"/> Boxed Cases <input checked="" type="checkbox"/> Individually Wrapped <input type="checkbox"/> Grouped By Sample ID/Matrix
Return Shipping Labels <input type="checkbox"/> No Shipper <input type="checkbox"/> With Shipper	Misc <input checked="" type="checkbox"/> Sampling Instructions <input type="checkbox"/> Custody Seal <input type="checkbox"/> Temp. Blanks <input checked="" type="checkbox"/> Coolers _____ <input type="checkbox"/> Syringes _____	
COC Options <input type="checkbox"/> Number of Blanks _____ <input checked="" type="checkbox"/> Pre-Printed _____	<input checked="" type="checkbox"/> Extra Bubble Wrap <input type="checkbox"/> Short Hold/Rush Stickers <input type="checkbox"/> DI Water <input type="text" value="Liter(s)"/> <input type="checkbox"/> USDA Regulated Soils	

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
20	WT	522 1,4-dioxane	1-1L Amber Glass, Sodium sulfite & Na bisulfate	20	0		

Hazard Shipping Placard In Place : NO

- *Sample receiving hours are Mon-Fri 8:00am-6:00pm and Sat 10:00am-6:00pm unless special arrangements are made with your project manager.
- *Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
- *Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.
- *Payment term are net 30 days.
- *Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	<u>6/25/21</u>
Prepared By:	<u>PJ</u>
Verified By:	
Tracking Num:	

Sample	CLIENT USE (Optional):
	Date Rec'd: _____
	Received By: _____
	Verified By: _____

Internal
make sure there is extra room so that client can add a lot of ice to ship samples back to lab