

October 17, 2023
File No. 25222269.04

Kevin and Caroline Smith
1423 South 95th Street
West Allis, WI 53214

Subject: Sample Results Notification
1423 South 95th Street – Sump Water
WDNR Badger Lease & Auto Sales Case
BRRTS No. 02-41-305222

Dear Kevin and Caroline:

On behalf of the Wisconsin Department of Natural Resources (WDNR) through the Vapor Intrusion Zone Contract (VIZC), SCS Engineers (SCS) is providing sample results for a sump water sample, which was collected from your property by SCS on September 26, 2023. The approximate sump location is shown on the attached map (**Figure 1**). The sample was submitted to Pace Analytical of Green Bay, Wisconsin, for analysis of volatile organic compounds (VOCs).

The sample laboratory report is included as **Attachment A**. VOCs were not detected in the sample. A final report with these findings will be submitted to the WDNR and listed on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW).

Please contact Joseph Martinez of WDNR at (414) 218-6042 or joseph.martinez@wisconsin.gov if you have questions concerning the analytical results.

Sincerely,



Robert Langdon
Senior Project Manager
SCS Engineers



Jacob Krause, P.G.
Hydrogeologist
SCS Engineers

REL/AJR/JJK

cc: Joseph Martinez, WDNR
Jennifer Borski, WDNR
Nathan Kloczko, DHS

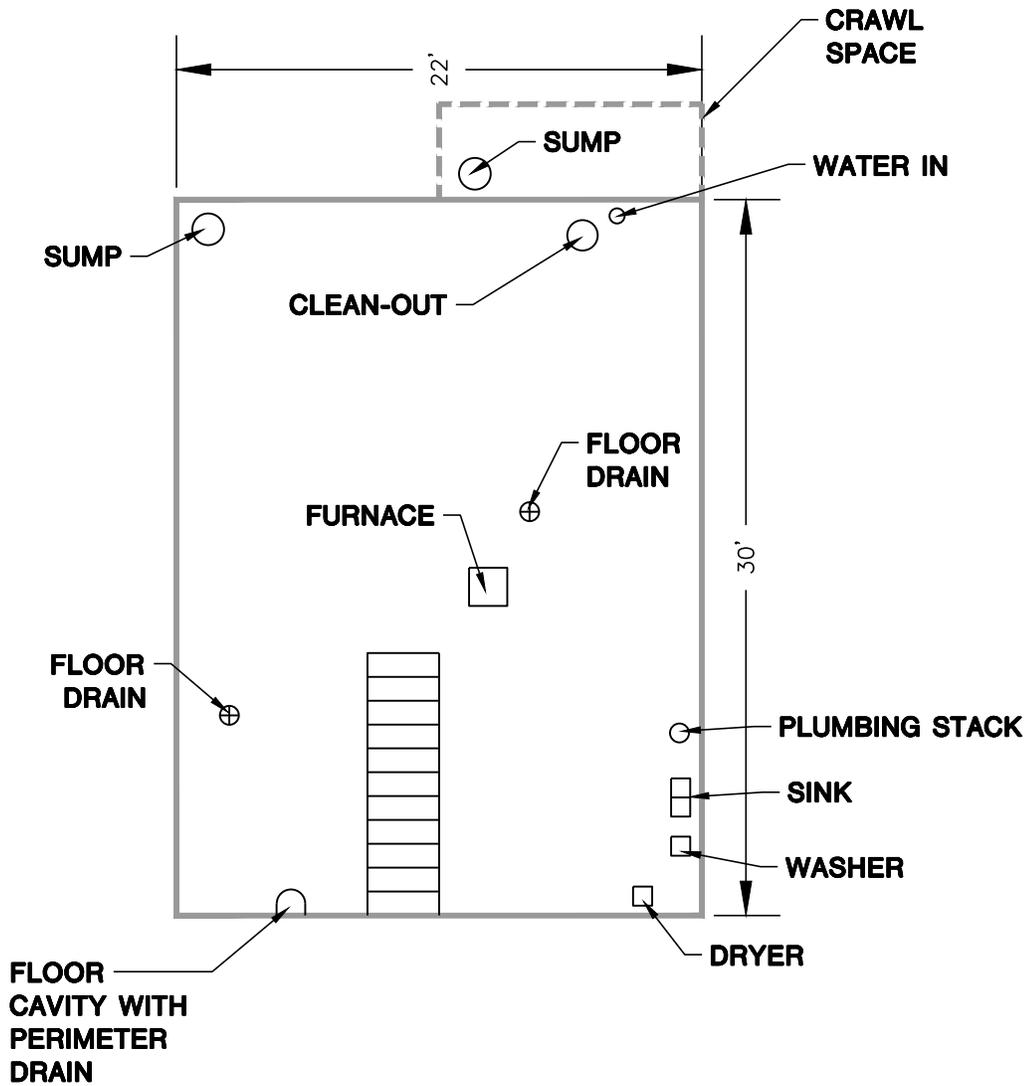
Attachments: Figure 1 - Vapor Investigation Map
Attachment A - Laboratory Report

I:\25222269.00\25222269.04 Badger Lease & Auto\Correspondence\Notification Letters\1423\231017_Smith_Sump Water Results.docx



S 95TH St.

BASEMENT LEVEL



SCALE: 1" = 8'

CLIENT	 WISCONSIN DEPARTMENT OF NATURAL RESOURCES	SITE	1423 S 95th STREET RESIDENCE	VAPOR INVESTIGATION MAP
	PROJECT NO. 25222269.04		DRAWN BY: SB	
DRAWN: 09/12/2023	CHECKED BY: REL	FIGURE		
REVISD:	APPROVED BY: REL, 10/17/23	1		



October 03, 2023

Rob Langdon
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25222269.04
Pace Project No.: 40268692

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,

A handwritten signature in black ink that reads "Dan Milewsky".

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 25222269.04

Pace Project No.: 40268692

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 25222269.04
Pace Project No.: 40268692

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40268692001	1423 SUMP	Water	09/26/23 11:30	09/27/23 09:10

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SAMPLE ANALYTE COUNT

Project: 25222269.04
Pace Project No.: 40268692

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40268692001	1423 SUMP	EPA 8260	CXJ	63	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25222269.04

Pace Project No.: 40268692

Sample: 1423 SUMP Lab ID: 40268692001 Collected: 09/26/23 11:30 Received: 09/27/23 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/29/23 03:21	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/29/23 03:21	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		09/29/23 03:21	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/29/23 03:21	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		09/29/23 03:21	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/29/23 03:21	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/29/23 03:21	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/29/23 03:21	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/29/23 03:21	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/29/23 03:21	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/29/23 03:21	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/29/23 03:21	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		09/29/23 03:21	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/29/23 03:21	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/29/23 03:21	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/29/23 03:21	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/29/23 03:21	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/29/23 03:21	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/29/23 03:21	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/29/23 03:21	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/29/23 03:21	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/29/23 03:21	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/29/23 03:21	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/29/23 03:21	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/29/23 03:21	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/29/23 03:21	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/29/23 03:21	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		09/29/23 03:21	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/29/23 03:21	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/29/23 03:21	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/29/23 03:21	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		09/29/23 03:21	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/29/23 03:21	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		09/29/23 03:21	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		09/29/23 03:21	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/29/23 03:21	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/29/23 03:21	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/29/23 03:21	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/29/23 03:21	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/29/23 03:21	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/29/23 03:21	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/29/23 03:21	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		09/29/23 03:21	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/29/23 03:21	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/29/23 03:21	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25222269.04

Pace Project No.: 40268692

Sample: 1423 SUMP Lab ID: 40268692001 Collected: 09/26/23 11:30 Received: 09/27/23 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/29/23 03:21	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/29/23 03:21	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/29/23 03:21	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/29/23 03:21	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/29/23 03:21	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/29/23 03:21	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/29/23 03:21	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		09/29/23 03:21	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		09/29/23 03:21	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/29/23 03:21	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		09/29/23 03:21	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/29/23 03:21	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/29/23 03:21	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/29/23 03:21	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		09/29/23 03:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		09/29/23 03:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		09/29/23 03:21	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		09/29/23 03:21	2037-26-5	

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QUALITY CONTROL DATA

Project: 25222269.04

Pace Project No.: 40268692

QC Batch: 456110

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40268692001

METHOD BLANK: 2619360

Matrix: Water

Associated Lab Samples: 40268692001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	09/28/23 17:13	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	09/28/23 17:13	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	09/28/23 17:13	
1,1,2-Trichloroethane	ug/L	<0.34	1.0	09/28/23 17:13	
1,1-Dichloroethane	ug/L	<0.30	1.0	09/28/23 17:13	
1,1-Dichloroethene	ug/L	<0.58	1.0	09/28/23 17:13	
1,1-Dichloropropene	ug/L	<0.41	1.0	09/28/23 17:13	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	09/28/23 17:13	
1,2,3-Trichloropropane	ug/L	<0.56	1.0	09/28/23 17:13	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	09/28/23 17:13	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	09/28/23 17:13	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	09/28/23 17:13	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	09/28/23 17:13	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	09/28/23 17:13	
1,2-Dichloroethane	ug/L	<0.29	1.0	09/28/23 17:13	
1,2-Dichloropropane	ug/L	<0.45	1.0	09/28/23 17:13	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	09/28/23 17:13	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	09/28/23 17:13	
1,3-Dichloropropane	ug/L	<0.30	1.0	09/28/23 17:13	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	09/28/23 17:13	
2,2-Dichloropropane	ug/L	<0.42	1.0	09/28/23 17:13	
2-Chlorotoluene	ug/L	<0.89	5.0	09/28/23 17:13	
4-Chlorotoluene	ug/L	<0.89	5.0	09/28/23 17:13	
Benzene	ug/L	<0.30	1.0	09/28/23 17:13	
Bromobenzene	ug/L	<0.36	1.0	09/28/23 17:13	
Bromochloromethane	ug/L	<0.36	1.0	09/28/23 17:13	
Bromodichloromethane	ug/L	<0.42	1.0	09/28/23 17:13	
Bromoform	ug/L	<0.43	1.0	09/28/23 17:13	
Bromomethane	ug/L	<1.2	5.0	09/28/23 17:13	
Carbon tetrachloride	ug/L	<0.37	1.0	09/28/23 17:13	
Chlorobenzene	ug/L	<0.86	1.0	09/28/23 17:13	
Chloroethane	ug/L	<1.4	5.0	09/28/23 17:13	
Chloroform	ug/L	<0.50	5.0	09/28/23 17:13	
Chloromethane	ug/L	<1.6	5.0	09/28/23 17:13	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	09/28/23 17:13	
cis-1,3-Dichloropropene	ug/L	<0.24	1.0	09/28/23 17:13	
Dibromochloromethane	ug/L	<2.6	5.0	09/28/23 17:13	
Dibromomethane	ug/L	<0.99	5.0	09/28/23 17:13	
Dichlorodifluoromethane	ug/L	<0.46	5.0	09/28/23 17:13	
Diisopropyl ether	ug/L	<1.1	5.0	09/28/23 17:13	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25222269.04

Pace Project No.: 40268692

METHOD BLANK: 2619360

Matrix: Water

Associated Lab Samples: 40268692001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	09/28/23 17:13	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	09/28/23 17:13	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	09/28/23 17:13	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	09/28/23 17:13	
Methylene Chloride	ug/L	<0.32	5.0	09/28/23 17:13	
n-Butylbenzene	ug/L	<0.86	1.0	09/28/23 17:13	
n-Propylbenzene	ug/L	<0.35	1.0	09/28/23 17:13	
Naphthalene	ug/L	<1.9	5.0	09/28/23 17:13	
p-Isopropyltoluene	ug/L	<1.0	5.0	09/28/23 17:13	
sec-Butylbenzene	ug/L	<0.42	1.0	09/28/23 17:13	
Styrene	ug/L	<0.36	1.0	09/28/23 17:13	
tert-Butylbenzene	ug/L	<0.59	1.0	09/28/23 17:13	
Tetrachloroethene	ug/L	<0.41	1.0	09/28/23 17:13	
Toluene	ug/L	<0.29	1.0	09/28/23 17:13	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	09/28/23 17:13	
trans-1,3-Dichloropropene	ug/L	<0.27	1.0	09/28/23 17:13	
Trichloroethene	ug/L	<0.32	1.0	09/28/23 17:13	
Trichlorofluoromethane	ug/L	<0.42	1.0	09/28/23 17:13	
Vinyl chloride	ug/L	<0.17	1.0	09/28/23 17:13	
Xylene (Total)	ug/L	<1.0	3.0	09/28/23 17:13	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	09/28/23 17:13	
4-Bromofluorobenzene (S)	%	103	70-130	09/28/23 17:13	
Toluene-d8 (S)	%	98	70-130	09/28/23 17:13	

LABORATORY CONTROL SAMPLE: 2619361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	103	70-132	
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	70-130	
1,1,2-Trichloroethane	ug/L	50	50.0	100	70-130	
1,1-Dichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethene	ug/L	50	52.9	106	73-140	
1,2,4-Trichlorobenzene	ug/L	50	42.8	86	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.5	89	58-130	
1,2-Dibromoethane (EDB)	ug/L	50	47.0	94	70-130	
1,2-Dichlorobenzene	ug/L	50	50.9	102	70-130	
1,2-Dichloroethane	ug/L	50	50.0	100	70-130	
1,2-Dichloropropane	ug/L	50	51.3	103	77-127	
1,3-Dichlorobenzene	ug/L	50	47.8	96	70-130	
1,4-Dichlorobenzene	ug/L	50	49.8	100	70-130	
Benzene	ug/L	50	51.9	104	70-130	
Bromodichloromethane	ug/L	50	50.7	101	70-130	
Bromoform	ug/L	50	51.7	103	70-130	
Bromomethane	ug/L	50	38.9	78	22-141	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 25222269.04

Pace Project No.: 40268692

LABORATORY CONTROL SAMPLE: 2619361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	55.5	111	70-135	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	48.8	98	59-141	
Chloroform	ug/L	50	50.7	101	80-124	
Chloromethane	ug/L	50	46.3	93	29-150	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.5	97	70-130	
Dibromochloromethane	ug/L	50	50.0	100	70-130	
Dichlorodifluoromethane	ug/L	50	34.7	69	10-147	
Ethylbenzene	ug/L	50	52.6	105	80-125	
Isopropylbenzene (Cumene)	ug/L	50	53.7	107	70-130	
Methyl-tert-butyl ether	ug/L	50	47.7	95	64-131	
Methylene Chloride	ug/L	50	52.0	104	70-137	
Styrene	ug/L	50	59.4	119	70-130	
Tetrachloroethene	ug/L	50	50.0	100	70-130	
Toluene	ug/L	50	50.4	101	80-120	
trans-1,2-Dichloroethene	ug/L	50	48.6	97	70-131	
trans-1,3-Dichloropropene	ug/L	50	48.0	96	70-130	
Trichloroethene	ug/L	50	51.1	102	70-130	
Trichlorofluoromethane	ug/L	50	50.7	101	69-141	
Vinyl chloride	ug/L	50	41.5	83	51-145	
Xylene (Total)	ug/L	150	165	110	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2619399 2619400

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40268566004	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	53.1	54.2	106	108	70-132	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	51.2	51.2	102	102	70-131	0	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	51.9	53.3	104	107	70-130	3	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	50.2	52.3	100	105	70-131	4	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	52.1	53.9	104	108	69-146	3	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	44.5	45.3	89	91	70-130	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	47.9	47.4	96	95	56-130	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	49.7	49.5	99	99	70-130	0	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	53.5	54.2	107	108	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	49.7	54.6	99	109	70-130	9	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	53.8	51.5	108	103	77-129	4	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50.2	51.0	100	102	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	52.3	51.8	105	104	70-130	1	20		
Benzene	ug/L	<0.30	50	50	53.9	53.8	108	108	70-130	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25222269.04

Pace Project No.: 40268692

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2619399 2619400													
Parameter	Units	40268566004		MS	MSD	2619399		2619400		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Bromodichloromethane	ug/L	<0.42	50	50	52.7	52.3	105	105	70-130	1	20		
Bromoform	ug/L	<0.43	50	50	53.2	56.3	106	113	70-130	6	20		
Bromomethane	ug/L	<1.2	50	50	43.9	45.1	88	90	12-159	3	26		
Carbon tetrachloride	ug/L	<0.37	50	50	57.4	59.0	115	118	70-135	3	20		
Chlorobenzene	ug/L	<0.86	50	50	54.0	54.3	108	109	70-130	1	20		
Chloroethane	ug/L	<1.4	50	50	49.7	47.6	99	95	56-143	4	20		
Chloroform	ug/L	<0.50	50	50	51.3	52.3	103	105	80-126	2	20		
Chloromethane	ug/L	<1.6	50	50	45.2	45.7	90	91	22-156	1	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	50.1	51.7	100	103	70-130	3	20		
cis-1,3-Dichloropropene	ug/L	<0.24	50	50	50.9	50.2	102	100	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	51.0	51.6	102	103	70-130	1	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	35.0	35.3	70	71	10-147	1	20		
Ethylbenzene	ug/L	<0.33	50	50	54.5	55.3	109	111	80-126	1	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	55.7	55.1	111	110	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	48.4	49.0	97	98	64-136	1	20		
Methylene Chloride	ug/L	<0.32	50	50	53.9	52.5	108	105	70-137	3	20		
Styrene	ug/L	<0.36	50	50	59.6	60.4	119	121	70-133	1	20		
Tetrachloroethene	ug/L	<0.41	50	50	51.9	51.8	104	104	70-131	0	20		
Toluene	ug/L	<0.29	50	50	52.3	52.3	105	105	80-121	0	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	50.7	52.3	101	105	70-135	3	20		
trans-1,3-Dichloropropene	ug/L	<0.27	50	50	51.5	51.2	103	102	70-130	1	20		
Trichloroethene	ug/L	<0.32	50	50	54.1	54.5	108	109	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	51.5	52.0	103	104	67-142	1	20		
Vinyl chloride	ug/L	<0.17	50	50	42.0	43.0	84	86	45-147	2	20		
Xylene (Total)	ug/L	<1.0	150	150	171	170	114	113	70-130	0	20		
1,2-Dichlorobenzene-d4 (S)	%						101	102	70-130				
4-Bromofluorobenzene (S)	%						101	102	70-130				
Toluene-d8 (S)	%						100	99	70-130				

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QUALIFIERS

Project: 25222269.04

Pace Project No.: 40268692

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

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 at or above the adjusted LOD.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25222269.04
Pace Project No.: 40268692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40268692001	1423 SUMP	EPA 8260	456110		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: SCS Engineering

WO#: **40268692**

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 134 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr. 4.0 / ICorr. 4.0

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 9/27/23 / Initials: NK
 Labeled By Initials: EL

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample log in