



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 24H1300

Client Name: CASH Customer
1941 Reymet Road
Richmond, VA 23237

Date Received: August 22, 2024 13:54

Date Issued: August 23, 2024 17:26

Project Number: 434 409 2801

Submitted To: [REDACTED]

Purchase Order: verbal

Client Site I.D.: [REDACTED]

Enclosed are the results of analyses for samples received by the laboratory on 08/22/2024 13:54. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

[REDACTED SIGNATURE]

[REDACTED]

Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Enthalpy Analytical.



TNI Accredited
VELAP ID 460021



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Submitted To: [REDACTED]
Client Site I.D.: [REDACTED]

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 24H1300

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Entry Point	24H1300 01	Drinking Water	08/22/2024 10 50	08/22/2024 13 54
Lake Tank	24H1300-02	Drinking Water	08/22/2024 11:20	08/22/2024 13:54
School Tank	24H1300-03	Drinking Water	08/22/2024 11:30	08/22/2024 13:54



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Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Laboratory Order ID: 24H1300

Analytical Results

Sample I.D. Entry Point Laboratory Sample ID: 24H1300-01
 Grab Date/Time: 08/22/2024 10:50
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
1,1,1,2-Tetrachloroethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,1,1-Trichloroethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,1,2,2-Tetrachloroethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,1,2-Trichloroethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,1-Dichloroethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,1-Dichloroethylene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,1-Dichloropropene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,2,3-Trichlorobenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,2,3-Trichloropropane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,2,4-Trichlorobenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,2,4-Trimethylbenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,2-Dichlorobenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,2-Dichloroethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,2-Dichloropropane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,3,5-Trimethylbenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,3-Dichlorobenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,3-Dichloropropane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
1,4-Dichlorobenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
2,2-Dichloropropane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
2-Butanone (MEK)	01	EPA524.2	<10.0 ug/L		10.0	1	08/22/24 15:34	08/22/24 15:34	TLH
2-Chlorotoluene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
4-Chlorotoluene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
4-Isopropyltoluene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Benzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Bromobenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Bromodichloromethane	01	EPA524.2	5.14 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH



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Certificate of Analysis

Final Report

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 Submitted To: [REDACTED]
 Client Site I.D.: [REDACTED]

Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Laboratory Order ID: 24H1300

Analytical Results

Sample I.D. Entry Point Laboratory Sample ID: 24H1300-01
 Grab Date/Time: 08/22/2024 10:50
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
Bromoform	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Bromomethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Carbon tetrachloride	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Chlorobenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Chloroethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Chloroform	01	EPA524.2	41.5 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Chloromethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
cis-1,2-Dichloroethylene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
cis-1,3-Dichloropropene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Dibromochloromethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Dibromomethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Dichlorodifluoromethane	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Ethylbenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Isopropylbenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Methylene chloride	01	EPA524.2	<4.00 ug/L		4.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Methyl-t-butyl ether (MTBE)	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
n-Butylbenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
n-Propylbenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
sec-Butylbenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Styrene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
tert-Butylbenzene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Tetrachloroethylene (PCE)	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Toluene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
trans-1,2-Dichloroethylene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
trans-1,3-Dichloropropene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Trichloroethylene	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH



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Final Report

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 Submitted To: [REDACTED]
 Client Site I.D.: [REDACTED]

Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Laboratory Order ID: 24H1300

Analytical Results

Sample I.D. Entry Point Laboratory Sample ID: 24H1300-01
 Grab Date/Time: 08/22/2024 10:50
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
Vinyl chloride	01	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Xylenes, Total	01	EPA524.2	<3.00 ug/L		3.00	1	08/22/24 15:34	08/22/24 15:34	TLH
Surr 1,2 Dichloroethane d4 (Surr)	01	EPA524.2	103 %		70-120		08/22/24 15:34	08/22/24 15:34	TLH
Surr 4 Bromofluorobenzene (Surr)	01	EPA524.2	98.7 %		75-120		08/22/24 15:34	08/22/24 15:34	TLH
Surr Dibromofluoromethane (Surr)	01	EPA524.2	110 %		80-119		08/22/24 15:34	08/22/24 15:34	TLH
Surr: Toluene-d8 (Surr)	01	EPA524.2	101 %		85-120		08/22/24 15:34	08/22/24 15:34	TLH



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 Submitted To: XXXXXXXXXX
 Client Site I.D.: XXXXXXXXXX

Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Laboratory Order ID: 24H1300

Analytical Results

Sample I.D. Lake Tank Laboratory Sample ID: 24H1300-02
 Grab Date/Time: 08/22/2024 11:20
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
1,1,1,2-Tetrachloroethane	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,1,1-Trichloroethane	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,1,2,2-Tetrachloroethane	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,1,2-Trichloroethane	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,1-Dichloroethane	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,1-Dichloroethylene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,1-Dichloropropene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,2,3-Trichlorobenzene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,2,3-Trichloropropane	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,2,4-Trichlorobenzene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,2,4-Trimethylbenzene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,2-Dichlorobenzene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,2-Dichloroethane	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,2-Dichloropropane	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,3,5-Trimethylbenzene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,3-Dichlorobenzene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,3-Dichloropropane	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
1,4-Dichlorobenzene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
2,2-Dichloropropane	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
2-Butanone (MEK)	02	EPA524.2	<10.0 ug/L	10.0	1	08/22/24 15:56	08/22/24 15:56	TLH	
2-Chlorotoluene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
4-Chlorotoluene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
4-Isopropyltoluene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
Benzene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
Bromobenzene	02	EPA524.2	<1.00 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	
Bromodichloromethane	02	EPA524.2	7.41 ug/L	1.00	1	08/22/24 15:56	08/22/24 15:56	TLH	



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Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Laboratory Order ID: 24H1300

Analytical Results

Sample I.D. Lake Tank Laboratory Sample ID: 24H1300-02
 Grab Date/Time: 08/22/2024 11:20
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
Bromoform	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Bromomethane	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Carbon tetrachloride	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Chlorobenzene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Chloroethane	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Chloroform	02	EPA524.2	72.6 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Chloromethane	02	EPA524.2	2.38 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
cis-1,2-Dichloroethylene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
cis-1,3-Dichloropropene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Dibromochloromethane	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Dibromomethane	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Dichlorodifluoromethane	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Ethylbenzene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Isopropylbenzene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Methylene chloride	02	EPA524.2	<4.00 ug/L		4.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Methyl-t-butyl ether (MTBE)	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
n-Butylbenzene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
n-Propylbenzene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
sec-Butylbenzene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Styrene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
tert-Butylbenzene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Tetrachloroethylene (PCE)	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Toluene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
trans-1,2-Dichloroethylene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
trans-1,3-Dichloropropene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Trichloroethylene	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH



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Laboratory Order ID: 24H1300

Analytical Results

Sample I.D. Lake Tank Laboratory Sample ID: 24H1300-02
 Grab Date/Time: 08/22/2024 11:20
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
Vinyl chloride	02	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Xylenes, Total	02	EPA524.2	<3.00 ug/L		3.00	1	08/22/24 15:56	08/22/24 15:56	TLH
Surr 1,2 Dichloroethane d4 (Surr)	02	EPA524.2	107 %		70-120		08/22/24 15:56	08/22/24 15:56	TLH
Surr 4 Bromofluorobenzene (Surr)	02	EPA524.2	98.4 %		75-120		08/22/24 15:56	08/22/24 15:56	TLH
Surr Dibromofluoromethane (Surr)	02	EPA524.2	108 %		80-119		08/22/24 15:56	08/22/24 15:56	TLH
Surr: Toluene-d8 (Surr)	02	EPA524.2	100 %		85-120		08/22/24 15:56	08/22/24 15:56	TLH



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Certificate of Analysis

Final Report

Client Name: CASH Customer
1941 Reymet Road

Date Issued: August 23, 2024 17:26
Project Number: 434 409 2801
Purchase Order: verbal

Richmond VA, 23237

Submitted To: [REDACTED]

Client Site I.D.: [REDACTED]

Laboratory Order ID: 24H1300

Analytical Results

Sample I.D. School Tank

Laboratory Sample ID: 24H1300-03

Grab Date/Time: 08/22/2024 11:30

Field Residual Cl:

Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
1,1,1,2-Tetrachloroethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,1,1-Trichloroethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,1,2,2-Tetrachloroethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,1,2-Trichloroethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,1-Dichloroethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,1-Dichloroethylene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,1-Dichloropropene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,2,3-Trichlorobenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,2,3-Trichloropropane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,2,4-Trichlorobenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,2,4-Trimethylbenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,2-Dichlorobenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,2-Dichloroethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,2-Dichloropropane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,3,5-Trimethylbenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,3-Dichlorobenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,3-Dichloropropane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
1,4-Dichlorobenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
2,2-Dichloropropane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
2-Butanone (MEK)	03	EPA524.2	<10.0 ug/L		10.0	1	08/22/24 16:18	08/22/24 16:18	TLH
2-Chlorotoluene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
4-Chlorotoluene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
4-Isopropyltoluene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Benzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Bromobenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Bromodichloromethane	03	EPA524.2	9.13 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH



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Certificate of Analysis

Final Report

Client Name: CASH Customer
 1941 Reymet Road
 Richmond VA, 23237
 Submitted To: XXXXXXXXXX
 Client Site I.D.: XXXXXXXXXX

Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Laboratory Order ID: 24H1300

Analytical Results

Sample I.D. School Tank Laboratory Sample ID: 24H1300-03

Grab Date/Time: 08/22/2024 11:30

Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
Bromoform	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Bromomethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Carbon tetrachloride	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Chlorobenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Chloroethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Chloroform	03	EPA524.2	99.6 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Chloromethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
cis-1,2-Dichloroethylene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
cis-1,3-Dichloropropene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Dibromochloromethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Dibromomethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Dichlorodifluoromethane	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Ethylbenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Isopropylbenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Methylene chloride	03	EPA524.2	<4.00 ug/L		4.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Methyl-t-butyl ether (MTBE)	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
n-Butylbenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
n-Propylbenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
sec-Butylbenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Styrene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
tert-Butylbenzene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Tetrachloroethylene (PCE)	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Toluene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
trans-1,2-Dichloroethylene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
trans-1,3-Dichloropropene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Trichloroethylene	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH



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Certificate of Analysis

Final Report

Client Name: CASH Customer
 1941 Reymet Road
 Richmond VA, 23237
 Submitted To: XXXXXXXXXX
 Client Site I.D.: XXXXXXXXXX

Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Laboratory Order ID: 24H1300

Analytical Results

Sample I.D. School Tank Laboratory Sample ID: 24H1300-03

Grab Date/Time: 08/22/2024 11:30

Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Organic Compounds by GCMS									
Vinyl chloride	03	EPA524.2	<1.00 ug/L		1.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Xylenes, Total	03	EPA524.2	<3.00 ug/L		3.00	1	08/22/24 16:18	08/22/24 16:18	TLH
Surr 1,2 Dichloroethane d4 (Surr)	03	EPA524.2	106 %		70-120		08/22/24 16:18	08/22/24 16:18	TLH
Surr 4 Bromofluorobenzene (Surr)	03	EPA524.2	99.5 %		75-120		08/22/24 16:18	08/22/24 16:18	TLH
Surr Dibromofluoromethane (Surr)	03	EPA524.2	114 %		80-119		08/22/24 16:18	08/22/24 16:18	TLH
Surr: Toluene-d8 (Surr)	03	EPA524.2	107 %		85-120		08/22/24 16:18	08/22/24 16:18	TLH

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS					
			Preparation Method:	SW5030B-MS	
24H1300-01	5.00 mL / 5.00 mL	EPA524.2	BHH0930	SHH0858	AH40163
24H1300-02	5.00 mL / 5.00 mL	EPA524.2	BHH0930	SHH0858	AH40163
24H1300-03	5.00 mL / 5.00 mL	EPA524.2	BHH0930	SHH0858	AH40163



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Certificate of Analysis

Final Report

Client Name: CASH Customer
1941 Reymet Road

Richmond VA, 23237
Submitted To: [REDACTED]
Client Site I.D.: [REDACTED]

Date Issued: August 23, 2024 17:26
Project Number: 434 409 2801
Purchase Order: verbal

QC Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			Preparation Method:	SW5030B-MS	
BHH0930-BLK1	5.00 mL / 5.00 mL	EPA524.2	BHH0930	SHH0858	AH40163
BHH0930 BS1	5.00 mL / 5.00 mL	EPA524.2	BHH0930	SHH0858	AH40163
BHH0930-DUP1	5.00 mL / 5.00 mL	EPA524.2	BHH0930	SHH0858	AH40163
BHH0930-MRL1	5.00 mL / 5.00 mL	EPA524.2	BHH0930	SHH0858	AH40163
BHH0930-MS1	5.00 mL / 5.00 mL	EPA524.2	BHH0930	SHH0858	AH40163



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Certificate of Analysis

Final Report

Client Name: CASH Customer
 1941 Reymet Road
 Richmond VA, 23237
 Submitted To: XXXXXXXXXX
 Client Site I.D.: XXXXXXXXXX

Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BHH0930 - SW5030B-MS

Blank (BHH0930-BLK1)

Prepared & Analyzed: 08/22/2024

1,1,1,2-Tetrachloroethane	<1.00 ug/L	1.00	ug/L							
1,1,1-Trichloroethane	<1.00 ug/L	1.00	ug/L							
1,1,2,2-Tetrachloroethane	<1.00 ug/L	1.00	ug/L							
1,1,2-Trichloroethane	<1.00 ug/L	1.00	ug/L							
1,1-Dichloroethane	<1.00 ug/L	1.00	ug/L							
1,1-Dichloroethylene	<1.00 ug/L	1.00	ug/L							
1,1-Dichloropropene	<1.00 ug/L	1.00	ug/L							
1,2,3-Trichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,2,3-Trichloropropane	<1.00 ug/L	1.00	ug/L							
1,2,4-Trichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,2,4-Trimethylbenzene	<1.00 ug/L	1.00	ug/L							
1,2-Dichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,2-Dichloroethane	<1.00 ug/L	1.00	ug/L							
1,2-Dichloropropane	<1.00 ug/L	1.00	ug/L							
1,3,5-Trimethylbenzene	<1.00 ug/L	1.00	ug/L							
1,3-Dichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,3-Dichloropropane	<1.00 ug/L	1.00	ug/L							
1,4-Dichlorobenzene	<1.00 ug/L	1.00	ug/L							
2,2-Dichloropropane	<1.00 ug/L	1.00	ug/L							
2-Butanone (MEK)	<10.0 ug/L	10.0	ug/L							
2-Chlorotoluene	<1.00 ug/L	1.00	ug/L							
4-Chlorotoluene	<1.00 ug/L	1.00	ug/L							
4-Isopropyltoluene	<1.00 ug/L	1.00	ug/L							
Benzene	<1.00 ug/L	1.00	ug/L							
Bromobenzene	<1.00 ug/L	1.00	ug/L							
Bromodichloromethane	<1.00 ug/L	1.00	ug/L							
Bromoform	<1.00 ug/L	1.00	ug/L							
Bromomethane	<1.00 ug/L	1.00	ug/L							
Carbon tetrachloride	<1.00 ug/L	1.00	ug/L							
Chlorobenzene	<1.00 ug/L	1.00	ug/L							
Chloroethane	<1.00 ug/L	1.00	ug/L							



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Certificate of Analysis

Final Report

Client Name: CASH Customer
 1941 Reymet Road
 Richmond VA, 23237
 Submitted To: XXXXXXXXXX
 Client Site I.D.: XXXXXXXXXX

Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BHH0930 - SW5030B-MS

Blank (BHH0930-BLK1)

Prepared & Analyzed: 08/22/2024

Chloroform	<1.00 ug/L	1.00	ug/L							
Chloromethane	<1.00 ug/L	1.00	ug/L							
cis-1,2-Dichloroethylene	<1.00 ug/L	1.00	ug/L							
cis-1,3-Dichloropropene	<1.00 ug/L	1.00	ug/L							
Dibromochloromethane	<1.00 ug/L	1.00	ug/L							
Dibromomethane	<1.00 ug/L	1.00	ug/L							
Dichlorodifluoromethane	<1.00 ug/L	1.00	ug/L							
Ethylbenzene	<1.00 ug/L	1.00	ug/L							
Isopropylbenzene	<1.00 ug/L	1.00	ug/L							
Methylene chloride	<4.00 ug/L	4.00	ug/L							
Methyl-t-butyl ether (MTBE)	<1.00 ug/L	1.00	ug/L							
n-Butylbenzene	<1.00 ug/L	1.00	ug/L							
n-Propylbenzene	<1.00 ug/L	1.00	ug/L							
sec-Butylbenzene	<1.00 ug/L	1.00	ug/L							
Styrene	<1.00 ug/L	1.00	ug/L							
tert-Butylbenzene	<1.00 ug/L	1.00	ug/L							
Tetrachloroethylene (PCE)	<1.00 ug/L	1.00	ug/L							
Toluene	<1.00 ug/L	1.00	ug/L							
trans-1,2-Dichloroethylene	<1.00 ug/L	1.00	ug/L							
trans-1,3-Dichloropropene	<1.00 ug/L	1.00	ug/L							
Trichloroethylene	<1.00 ug/L	1.00	ug/L							
Vinyl chloride	<1.00 ug/L	1.00	ug/L							
Xylenes, Total	<3.00 ug/L	3.00	ug/L							

Surr: 1,2-Dichloroethane-d4 (Surr)	51.4		ug/L	50.0		103	70-120			
Surr: 4-Bromofluorobenzene (Surr)	48.9		ug/L	50.0		97.8	75-120			
Surr: Dibromofluoromethane (Surr)	55.3		ug/L	50.0		111	80-119			
Surr: Toluene-d8 (Surr)	51.1		ug/L	50.0		102	85-120			



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Certificate of Analysis

Final Report

Client Name: CASH Customer
1941 Reymet Road

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Project Number: 434 409 2801
Purchase Order: verbal

Richmond VA, 23237

Submitted To: [REDACTED]

Client Site I.D.: [REDACTED]

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BHH0930 - SW5030B-MS

LCS (BHH0930-BS1)

Prepared & Analyzed: 08/22/2024

1,1,1,2-Tetrachloroethane	17.1 ug/L	1	ug/L	20.0	ug/L	85.4	80-130			
1,1,1-Trichloroethane	21.7 ug/L	1	ug/L	20.0	ug/L	108	65-130			
1,1,2,2-Tetrachloroethane	16.7 ug/L	1	ug/L	20.0	ug/L	83.4	65-130			
1,1,2-Trichloroethane	19.9 ug/L	1	ug/L	20.0	ug/L	99.4	75-125			
1,1-Dichloroethane	22.5 ug/L	1	ug/L	20.0	ug/L	113	70-135			
1,1-Dichloroethylene	26.0 ug/L	1	ug/L	20.0	ug/L	130	70-130			L
1,1-Dichloropropene	23.6 ug/L	1	ug/L	20.0	ug/L	118	75-135			
1,2,3-Trichlorobenzene	17.8 ug/L	1	ug/L	20.0	ug/L	89.0	55-140			
1,2,3-Trichloropropane	16.8 ug/L	1	ug/L	20.0	ug/L	84.1	75-125			
1,2,4-Trichlorobenzene	18.1 ug/L	1	ug/L	20.0	ug/L	90.4	65-135			
1,2,4-Trimethylbenzene	18.0 ug/L	1	ug/L	20.0	ug/L	90.0	75-130			
1,2-Dichlorobenzene	16.6 ug/L	1	ug/L	20.0	ug/L	83.2	70-120			
1,2-Dichloroethane	20.1 ug/L	1	ug/L	20.0	ug/L	100	70-130			
1,2-Dichloropropane	18.6 ug/L	1	ug/L	20.0	ug/L	93.2	75-125			
1,3,5-Trimethylbenzene	18.1 ug/L	1	ug/L	20.0	ug/L	90.3	75-130			
1,3-Dichlorobenzene	17.3 ug/L	1	ug/L	20.0	ug/L	86.6	75-125			
1,3-Dichloropropane	20.1 ug/L	1	ug/L	20.0	ug/L	101	75-125			
1,4-Dichlorobenzene	16.2 ug/L	1	ug/L	20.0	ug/L	80.8	75-125			
2,2-Dichloropropane	24.5 ug/L	1	ug/L	20.0	ug/L	122	70-135			
2-Butanone (MEK)	25.2 ug/L	10	ug/L	20.0	ug/L	126	30-150			
2-Chlorotoluene	17.9 ug/L	1	ug/L	20.0	ug/L	89.4	75-125			
4-Chlorotoluene	18.9 ug/L	1	ug/L	20.0	ug/L	94.4	75-130			
4-Isopropyltoluene	18.5 ug/L	1	ug/L	20.0	ug/L	92.6	75-130			
Benzene	20.7 ug/L	1	ug/L	20.0	ug/L	103	80-120			
Bromobenzene	18.2 ug/L	1	ug/L	20.0	ug/L	91.2	75-125			
Bromochloromethane	21.8 ug/L	1	ug/L	20.0	ug/L	109	65-130			
Bromodichloromethane	18.1 ug/L	1	ug/L	20.0	ug/L	90.4	75-120			
Bromoform	17.7 ug/L	1	ug/L	20.0	ug/L	88.4	70-130			
Bromomethane	14.1 ug/L	1	ug/L	20.0	ug/L	70.5	30-145			
Carbon tetrachloride	21.2 ug/L	1	ug/L	20.0	ug/L	106	65-140			
Chlorobenzene	16.9 ug/L	1	ug/L	20.0	ug/L	84.6	80-120			



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Certificate of Analysis

Final Report

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 Submitted To: XXXXXXXXXX
 Client Site I.D.: XXXXXXXXXX

Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BHH0930 - SW5030B-MS

LCS (BHH0930-BS1)

Prepared & Analyzed: 08/22/2024

Chloroethane	21.6 ug/L	1	ug/L	20.0	ug/L	108	60-135			
Chloroform	20.5 ug/L	1	ug/L	20.0	ug/L	103	65-135			
Chloromethane	17.3 ug/L	1	ug/L	20.0	ug/L	86.4	40-125			
cis-1,2-Dichloroethylene	23.0 ug/L	1	ug/L	20.0	ug/L	115	70-125			
cis-1,3-Dichloropropene	19.0 ug/L	1	ug/L	20.0	ug/L	95.1	70-130			
Dibromochloromethane	18.8 ug/L	1	ug/L	20.0	ug/L	94.2	60-135			
Dibromomethane	20.4 ug/L	1	ug/L	20.0	ug/L	102	75-125			
Dichlorodifluoromethane	14.4 ug/L	1	ug/L	20.0	ug/L	71.8	30-155			
Ethylbenzene	17.5 ug/L	1	ug/L	20.0	ug/L	87.6	75-125			
Isopropylbenzene	18.0 ug/L	1.00	ug/L		ug/L		75-125			
m+p-Xylenes	36.9 ug/L	2	ug/L	40.0	ug/L	92.3	75-130			
Methylene chloride	20.9 ug/L	4	ug/L	20.0	ug/L	105	55-140			
Methyl-t-butyl ether (MTBE)	21.2 ug/L	1	ug/L	20.0	ug/L	106	65-125			
n-Butylbenzene	18.8 ug/L	1	ug/L	20.0	ug/L	94.0	70-135			
n-Propylbenzene	17.8 ug/L	1	ug/L	20.0	ug/L	89.0	70-130			
o Xylene	18.6 ug/L	1	ug/L	20.0	ug/L	93.2	80 120			
sec-Butylbenzene	18.8 ug/L	1	ug/L	20.0	ug/L	93.8	70-125			
Styrene	17.5 ug/L	1	ug/L	20.0	ug/L	87.3	65 135			
tert-Butylbenzene	18.2 ug/L	1	ug/L	20.0	ug/L	90.8	70-130			
Tetrachloroethylene (PCE)	19.0 ug/L	1	ug/L	20.0	ug/L	95.2	45 150			
Toluene	20.4 ug/L	1	ug/L	20.0	ug/L	102	75-120			
trans 1,2 Dichloroethylene	23.5 ug/L	1	ug/L	20.0	ug/L	117	60 140			
trans-1,3-Dichloropropene	19.1 ug/L	1	ug/L	20.0	ug/L	95.5	55-140			
Trichloroethylene	20.4 ug/L	1	ug/L	20.0	ug/L	102	70 125			
Vinyl chloride	20.2 ug/L	1	ug/L	20.0	ug/L	101	50-145			
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Surr: 1,2 Dichloroethane d4 (Surr)	52.1		ug/L	50.0	ug/L	104	70 120			
Surr: 4-Bromofluorobenzene (Surr)	49.4		ug/L	50.0	ug/L	98.8	75-120			
Surr: Dibromofluoromethane (Surr)	53.0		ug/L	50.0	ug/L	106	80 119			
Surr: Toluene-d8 (Surr)	50.2		ug/L	50.0	ug/L	100	85-120			



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Certificate of Analysis

Final Report

Client Name: CASH Customer
 1941 Reymet Road
 Richmond VA, 23237
 Submitted To: XXXXXXXXXX
 Client Site I.D.: XXXXXXXXXX

Date Issued: August 23, 2024 17:26
 Project Number: 434 409 2801
 Purchase Order: verbal

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BHH0930 - SW5030B-MS

Duplicate (BHH0930-DUP1)

Source: 24H1167-03

Prepared & Analyzed: 08/22/2024

1,1,1,2-Tetrachloroethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,1,1-Trichloroethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,1,2,2-Tetrachloroethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,1,2-Trichloroethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,1-Dichloroethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,1-Dichloroethylene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,1-Dichloropropene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,2,3-Trichlorobenzene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,2,3-Trichloropropane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,2,4-Trichlorobenzene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,2,4-Trimethylbenzene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,2-Dichlorobenzene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,2-Dichloroethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,2-Dichloropropane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,3,5-Trimethylbenzene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,3 Dichlorobenzene	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
1,3-Dichloropropane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
1,4 Dichlorobenzene	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
2,2-Dichloropropane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
2 Butanone (MEK)	10 0 ug/L	10 0	ug/L		10 0 ug/L			NA	30	
2-Chlorotoluene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
4 Chlorotoluene	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
4-Isopropyltoluene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Benzene	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
Bromobenzene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Bromochloromethane	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
Bromodichloromethane	7.43 ug/L	1.00	ug/L		7.28 ug/L			2.04	30	
Bromoform	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
Bromomethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Carbon tetrachloride	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
Chlorobenzene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	



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 Purchase Order: verbal

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BHH0930 - SW5030B-MS

Duplicate (BHH0930-DUP1)

Source: 24H1167-03

Prepared & Analyzed: 08/22/2024

Chloroethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Chloroform	47.2 ug/L	1.00	ug/L		49.5 ug/L			4.71	30	
Chloromethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
cis-1,2-Dichloroethylene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
cis-1,3-Dichloropropene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Dibromochloromethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Dibromomethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Dichlorodifluoromethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Dichlorofluoromethane	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Ethylbenzene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Isopropylbenzene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
m+p-Xylenes	<2.00 ug/L	2.00	ug/L		<2.00 ug/L			NA	30	
Methylene chloride	<4.00 ug/L	4.00	ug/L		<4.00 ug/L			NA	30	
Methyl-t-butyl ether (MTBE)	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
n-Butylbenzene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
n Propylbenzene	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
o-Xylene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
sec Butylbenzene	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
Styrene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
tert Butylbenzene	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
Tetrachloroethylene (PCE)	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Toluene	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
trans-1,2-Dichloroethylene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
trans 1,3 Dichloropropene	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
Trichloroethylene	<1.00 ug/L	1.00	ug/L		<1.00 ug/L			NA	30	
Vinyl chloride	1 00 ug/L	1 00	ug/L		1 00 ug/L			NA	30	
Xylenes, Total	<3.00 ug/L	3.00	ug/L		<3.00 ug/L			NA	30	
Tetrahydrofuran	10 0 ug/L	10 0	ug/L		10 0 ug/L			NA	30	
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Surr: 1,2-Dichloroethane-d4 (Surr)	51.9		ug/L	50.0	ug/L	104	70-120			
Surr: 4 Bromofluorobenzene (Surr)	49.3		ug/L	50.0	ug/L	98.7	75-120			
Surr: Dibromofluoromethane (Surr)	54.0		ug/L	50.0	ug/L	108	80-119			



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 Client Site I.D.: XXXXXXXXXX

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BHH0930 - SW5030B-MS

Duplicate (BHH0930-DUP1)	Source: 24H1167-03	Prepared & Analyzed: 08/22/2024
Surr: Toluene-d8 (Surr)	52.0 ug/L	50.0 ug/L 104 85-120

Matrix Spike (BHH0930-MS1)	Source: 24H1124-01	Prepared & Analyzed: 08/22/2024
1,1,1,2-Tetrachloroethane	17.5 ug/L	1 ug/L 20.0 <1 ug/L 87.4 80-130
1,1,1-Trichloroethane	21.6 ug/L	1 ug/L 20.0 <1 ug/L 108 65-130
1,1,2,2-Tetrachloroethane	17.6 ug/L	1 ug/L 20.0 <1 ug/L 87.8 65-130
1,1,2-Trichloroethane	19.8 ug/L	1 ug/L 20.0 <1 ug/L 99.0 75-125
1,1-Dichloroethane	22.1 ug/L	1 ug/L 20.0 <1 ug/L 110 70-135
1,1-Dichloroethylene	26.0 ug/L	1 ug/L 20.0 <1 ug/L 130 70-130
1,1-Dichloropropene	23.2 ug/L	1 ug/L 20.0 <1 ug/L 116 75-135
1,2,3-Trichlorobenzene	17.6 ug/L	1 ug/L 20.0 <1 ug/L 87.8 55-140
1,2,3-Trichloropropane	17.9 ug/L	1 ug/L 20.0 <1 ug/L 89.4 75-125
1,2,4-Trichlorobenzene	18.2 ug/L	1 ug/L 20.0 <1 ug/L 90.8 65-135
1,2,4-Trimethylbenzene	17.9 ug/L	1 ug/L 20.0 <1 ug/L 89.6 75-130
1,2-Dichlorobenzene	16.9 ug/L	1 ug/L 20.0 <1 ug/L 84.7 70-120
1,2-Dichloroethane	20.0 ug/L	1 ug/L 20.0 <1 ug/L 100 70-130
1,2-Dichloropropane	19.4 ug/L	1 ug/L 20.0 <1 ug/L 97.2 75-125
1,3,5-Trimethylbenzene	18.6 ug/L	1 ug/L 20.0 <1 ug/L 92.9 75-130
1,3-Dichlorobenzene	16.3 ug/L	1 ug/L 20.0 <1 ug/L 81.4 75-125
1,3-Dichloropropane	20.5 ug/L	1 ug/L 20.0 <1 ug/L 102 75-125
1,4-Dichlorobenzene	16.2 ug/L	1 ug/L 20.0 <1 ug/L 81.2 75-125
2,2-Dichloropropane	22.8 ug/L	1 ug/L 20.0 <1 ug/L 114 70-135
2-Butanone (MEK)	31.6 ug/L	10 ug/L 20.0 <10 ug/L 153 30-150
2-Chlorotoluene	17.7 ug/L	1 ug/L 20.0 <1 ug/L 88.4 75-125
4-Chlorotoluene	18.7 ug/L	1 ug/L 20.0 <1 ug/L 93.6 75-130
4-Isopropyltoluene	18.2 ug/L	1 ug/L 20.0 <1 ug/L 91.1 75-130
Benzene	21.0 ug/L	1 ug/L 20.0 <1 ug/L 105 80-120
Bromobenzene	19.0 ug/L	1 ug/L 20.0 <1 ug/L 94.8 75-125
Bromochloromethane	22.1 ug/L	1 ug/L 20.0 <1 ug/L 110 65-130
Bromodichloromethane	19.3 ug/L	1 ug/L 20.0 <1 ug/L 96.3 75-120
Bromoform	18.4 ug/L	1 ug/L 20.0 <1 ug/L 92.1 70-130
Bromomethane	13.6 ug/L	1 ug/L 20.0 <1 ug/L 68.1 30-145



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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BHH0930 - SW5030B-MS

Matrix Spike (BHH0930-MS1)

Source: 24H1124-01

Prepared & Analyzed: 08/22/2024

Carbon tetrachloride	21.5 ug/L	1	ug/L	20.0	<1 ug/L	108	65-140			
Chlorobenzene	17.2 ug/L	1	ug/L	20.0	<1 ug/L	85.8	80-120			
Chloroethane	20.6 ug/L	1	ug/L	20.0	<1 ug/L	103	60-135			
Chloroform	20.3 ug/L	1	ug/L	20.0	<1 ug/L	101	65-135			
Chloromethane	16.8 ug/L	1	ug/L	20.0	<1 ug/L	83.8	40-125			
cis-1,2-Dichloroethylene	21.8 ug/L	1	ug/L	20.0	<1 ug/L	109	70-125			
cis-1,3-Dichloropropene	19.0 ug/L	1	ug/L	20.0	<1 ug/L	95.0	70-130			
Dibromochloromethane	19.7 ug/L	1	ug/L	20.0	<1 ug/L	98.6	60-135			
Dibromomethane	20.2 ug/L	1	ug/L	20.0	<1 ug/L	101	75-125			
Dichlorodifluoromethane	14.6 ug/L	1	ug/L	20.0	<1 ug/L	72.8	30-155			
Ethylbenzene	18.1 ug/L	1	ug/L	20.0	<1 ug/L	90.4	75-125			
Isopropylbenzene	18.4 ug/L	1.00	ug/L		<1.00 ug/L		75-125			
m+p-Xylenes	37.6 ug/L	2	ug/L	40.0	<2 ug/L	94.0	75-130			
Methylene chloride	20.1 ug/L	4	ug/L	20.0	<4 ug/L	101	55-140			
Methyl-t-butyl ether (MTBE)	20.9 ug/L	1	ug/L	20.0	<1 ug/L	105	65-125			
n Butylbenzene	18.5 ug/L	1	ug/L	20.0	1 ug/L	92.4	70 135			
n-Propylbenzene	18.1 ug/L	1	ug/L	20.0	<1 ug/L	90.4	70-130			
o Xylene	19.2 ug/L	1	ug/L	20.0	1 ug/L	95.8	80 120			
sec-Butylbenzene	18.4 ug/L	1	ug/L	20.0	<1 ug/L	92.2	70-125			
Styrene	18.2 ug/L	1	ug/L	20.0	1 ug/L	90.8	65 135			
tert-Butylbenzene	17.8 ug/L	1	ug/L	20.0	<1 ug/L	89.0	70-130			
Tetrachloroethylene (PCE)	18.2 ug/L	1	ug/L	20.0	1 ug/L	91.0	45 150			
Toluene	21.0 ug/L	1	ug/L	20.0	<1 ug/L	105	75-120			
trans 1,2 Dichloroethylene	22.5 ug/L	1	ug/L	20.0	1 ug/L	112	60 140			
trans-1,3-Dichloropropene	19.4 ug/L	1	ug/L	20.0	<1 ug/L	96.9	55-140			
Trichloroethylene	20.1 ug/L	1	ug/L	20.0	1 ug/L	101	70 125			
Vinyl chloride	19.5 ug/L	1	ug/L	20.0	<1 ug/L	97.6	50-145			
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Surr: 1,2 Dichloroethane d4 (Surr)	51.8		ug/L	50.0	ug/L	104	70 120			
Surr: 4-Bromofluorobenzene (Surr)	51.2		ug/L	50.0	ug/L	102	75-120			
Surr: Dibromofluoromethane (Surr)	52.8		ug/L	50.0	ug/L	106	80 119			
Surr: Toluene-d8 (Surr)	49.8		ug/L	50.0	ug/L	99.6	85-120			



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Client Site I.D.: [REDACTED]

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Certified Analyses included in this Report

Analyte	Certifications
<i>EPA524.2 in Potable Water</i>	
1,1,1-Trichloroethane	MdDOE,VELAP
1,1,2-Trichloroethane	MdDOE,VELAP
1,1-Dichloroethylene	MdDOE,VELAP
1,2,4-Trichlorobenzene	MdDOE,VELAP
1,2-Dichlorobenzene	MdDOE,VELAP
1,2-Dichloroethane	MdDOE,VELAP
1,2-Dichloropropane	MdDOE,VELAP
1,4-Dichlorobenzene	MdDOE,VELAP
Benzene	MdDOE,VELAP
Bromodichloromethane	MdDOE,VELAP
Bromoform	MdDOE,VELAP
Bromomethane	VELAP
Carbon tetrachloride	MdDOE,VELAP
Chlorobenzene	MdDOE,VELAP
Chloroform	MdDOE,VELAP
cis-1,2-Dichloroethylene	MdDOE,VELAP
Dibromochloromethane	MdDOE,VELAP
Ethylbenzene	MdDOE,VELAP
Methylene chloride	MdDOE,VELAP
Styrene	MdDOE,VELAP
Tetrachloroethylene (PCE)	MdDOE,VELAP
Toluene	MdDOE,VELAP
trans-1,2-Dichloroethylene	MdDOE,VELAP
Trichloroethylene	MdDOE,VELAP
Vinyl chloride	MdDOE,VELAP
Xylenes, Total	MdDOE,VELAP



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Code	Description	Laboratory ID	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2024
NCDEQ	North Carolina DEQ	495	12/31/2024
NCDOH	North Carolina Department of Health	51714	07/31/2025
NYDOH	New York DOH Drinking Water	12069	04/01/2025
PADEP	NELAP-Pennsylvania Certificate #009	68-03503	10/31/2024
SCDHEC	South Carolina Dept of Health and Environmental	93016	09/14/2024
TXCEQ	Texas Comm on Environmental Quality #T104704	T104704576	05/31/2025
VELAP	NELAP-Virginia Certificate #12969	460021	06/14/2025
WVDEP	West Virginia DEP	350	11/30/2024



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Summary of Data Qualifiers

L LCS recovery is outside of established acceptance limits

M Matrix spike recovery is outside established acceptance limits

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.



Chain of Custody Record

Turn Around Time (rush by advanced notice only)

Lab No: _____ Standard: _____ 5 Day: _____ 3 Day: _____
 Page: _____ of _____ 2 Day: _____ 1 Day: Custom TAT: _____

<<< Select a Laboratory >>>

#N/A
#N/A

Matrix: A = Air S = Soil/Solid
 W = Water DW = Drinking Water SD = Sediment
 PP = Pure Product SEA = Sea Water
 SW = Swab T = Tissue WP = Wipe O = Other

Preservatives:
 1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
 4 = H₂SO₄ 5 = NaOH 6 = Other

Sample Receipt Temp:
 (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION			Analysis Request					Test Instructions / Comments	
Company:	Rapidan Service Auth	Name:	[REDACTED]								
Report To:	[REDACTED]	Number:	[REDACTED]								
Email:	[REDACTED]	P.O. #:	[REDACTED]								
Address:	[REDACTED]	Address:	[REDACTED]								
Phone:	[REDACTED]	Global ID:	[REDACTED]								
Fax:	[REDACTED]	Sampled By:	[REDACTED]								

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.														
1	8/22/24	1050	DW			X													
2	8/22/24	1120				X													
3	8/22/24	1130				X													
4																			
5																			07:4.6
6																			4.6°C
7																			CFI 0.0
8																			on ICC
9																			271
10																			no soil

	Signature	Print Name	Company / Title	Date / Time
Relinquished By:	[REDACTED]	[REDACTED]	Rapidan Service Auth/CO	8-22-24
Received By:	[REDACTED]	[REDACTED]		8-22-24 1354

Relinquished By:				
Received By:				
Relinquished By:				
Received By:				

CCUSTOMER 24H1300
 David Jarrell
 Recd: 08/22/2024 Due: 08/23/2024

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24H1300



1941 Reymet Road • Richmond, Virginia 23230 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Client Name: CASH Customer
1941 Reymet Road

Richmond VA, 23237

Date Issued: August 23, 2024 17:26
Project Number: 434 409 2801
Purchase Order: verbal

Submitted To: [REDACTED]
Client Site I.D.: [REDACTED]

Sample Conditions Checklist

Samples Received at:	4.60°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	Yes
Are all volatile organic and TOX containers free of headspace?	Yes
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK 175	No
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis. In addition, field parameters are always received outside holding time and will be marked accordingly.	Yes

Work Order Comments

Work order logged under CASH on a next day TAT (results due 8/23) [REDACTED]
[REDACTED] AKB2 8/22/24 1602

Trip Blank not provided JNH 8/22/24 1700