

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-209795-1

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Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Arcadis U.S., Inc.
Project: Ford LTP

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Job Narrative 240-209795-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 8/20/2024 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

GC/MS VOA

Method 8260D_SIM: The following samples were diluted due to the nature of the sample matrix: (240-209999-E-7), (240-209999-E-7 MS) and (240-209999-E-7 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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- 10
- 11
- 12
- 13
- 14

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-209795-1	TRIP BLANK_10	Water	08/16/24 00:00	08/20/24 08:45
240-209795-2	MW-21_081624	Water	08/16/24 10:36	08/20/24 08:45
240-209795-3	MW-20_081624	Water	08/16/24 12:13	08/20/24 08:45
240-209795-4	MW-220S_081624	Water	08/16/24 13:33	08/20/24 08:45

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Client Sample ID: TRIP BLANK_10

Lab Sample ID: 240-209795-1

No Detections.

Client Sample ID: MW-21_081624

Lab Sample ID: 240-209795-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.3		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	2.4		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.54	J	1.0	0.51	ug/L	1		8260D	Total/NA
Vinyl chloride	4.1		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-20_081624

Lab Sample ID: 240-209795-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.7		2.0	0.86	ug/L	1		8260D SIM	Total/NA

Client Sample ID: MW-220S_081624

Lab Sample ID: 240-209795-4

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Client Sample ID: TRIP BLANK_10

Lab Sample ID: 240-209795-1

Date Collected: 08/16/24 00:00

Matrix: Water

Date Received: 08/20/24 08:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/23/24 21:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/23/24 21:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/23/24 21:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/23/24 21:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/23/24 21:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/23/24 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		08/23/24 21:58	1
4-Bromofluorobenzene (Surr)	85		56 - 136		08/23/24 21:58	1
Toluene-d8 (Surr)	101		78 - 122		08/23/24 21:58	1
Dibromofluoromethane (Surr)	101		73 - 120		08/23/24 21:58	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Client Sample ID: MW-21_081624

Lab Sample ID: 240-209795-2

Date Collected: 08/16/24 10:36

Matrix: Water

Date Received: 08/20/24 08:45

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.3		2.0	0.86	ug/L			08/26/24 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		68 - 127					08/26/24 23:13	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/23/24 14:02	1
cis-1,2-Dichloroethene	2.4		1.0	0.46	ug/L			08/23/24 14:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/23/24 14:02	1
trans-1,2-Dichloroethene	0.54	J	1.0	0.51	ug/L			08/23/24 14:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/23/24 14:02	1
Vinyl chloride	4.1		1.0	0.45	ug/L			08/23/24 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137					08/23/24 14:02	1
4-Bromofluorobenzene (Surr)	91		56 - 136					08/23/24 14:02	1
Toluene-d8 (Surr)	102		78 - 122					08/23/24 14:02	1
Dibromofluoromethane (Surr)	101		73 - 120					08/23/24 14:02	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Client Sample ID: MW-20_081624

Lab Sample ID: 240-209795-3

Date Collected: 08/16/24 12:13

Matrix: Water

Date Received: 08/20/24 08:45

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.7		2.0	0.86	ug/L			08/28/24 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 127					08/28/24 22:47	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/23/24 14:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/23/24 14:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/23/24 14:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/23/24 14:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/23/24 14:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/23/24 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137					08/23/24 14:27	1
4-Bromofluorobenzene (Surr)	90		56 - 136					08/23/24 14:27	1
Toluene-d8 (Surr)	103		78 - 122					08/23/24 14:27	1
Dibromofluoromethane (Surr)	99		73 - 120					08/23/24 14:27	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Client Sample ID: MW-220S_081624

Lab Sample ID: 240-209795-4

Date Collected: 08/16/24 13:33

Matrix: Water

Date Received: 08/20/24 08:45

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/27/24 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 127					08/27/24 16:26	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/23/24 14:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/23/24 14:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/23/24 14:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/23/24 14:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/23/24 14:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/23/24 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					08/23/24 14:52	1
4-Bromofluorobenzene (Surr)	84		56 - 136					08/23/24 14:52	1
Toluene-d8 (Surr)	96		78 - 122					08/23/24 14:52	1
Dibromofluoromethane (Surr)	100		73 - 120					08/23/24 14:52	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-209795-1	TRIP BLANK_10	112	85	101	101
240-209795-2	MW-21_081624	111	91	102	101
240-209795-3	MW-20_081624	111	90	103	99
240-209795-4	MW-220S_081624	113	84	96	100
240-209796-C-6 MSD	Matrix Spike Duplicate	92	106	100	94
240-209796-E-6 MS	Matrix Spike	93	102	98	93
LCS 240-624514/5	Lab Control Sample	90	99	98	93
MB 240-624514/9	Method Blank	102	80	91	89

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (68-127)
240-209728-E-5 MS	Matrix Spike	91
240-209728-F-5 MSD	Matrix Spike Duplicate	99
240-209795-2	MW-21_081624	88
240-209795-3	MW-20_081624	98
240-209795-4	MW-220S_081624	99
240-209796-C-6 MS	Matrix Spike	99
240-209796-C-6 MSD	Matrix Spike Duplicate	103
240-209999-E-7 MS	Matrix Spike	91
240-209999-E-7 MSD	Matrix Spike Duplicate	94
LCS 240-624836/3	Lab Control Sample	91
LCS 240-624868/4	Lab Control Sample	96
LCS 240-625146/3	Lab Control Sample	95
MB 240-624836/5	Method Blank	92
MB 240-624868/6	Method Blank	105
MB 240-625146/5	Method Blank	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-624514/9

Matrix: Water

Analysis Batch: 624514

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/23/24 13:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/23/24 13:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/23/24 13:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/23/24 13:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/23/24 13:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/23/24 13:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		08/23/24 13:12	1
4-Bromofluorobenzene (Surr)	80		56 - 136		08/23/24 13:12	1
Toluene-d8 (Surr)	91		78 - 122		08/23/24 13:12	1
Dibromofluoromethane (Surr)	89		73 - 120		08/23/24 13:12	1

Lab Sample ID: LCS 240-624514/5

Matrix: Water

Analysis Batch: 624514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	25.0	24.3		ug/L		97	63 - 134
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	77 - 123
Tetrachloroethene	25.0	26.2		ug/L		105	76 - 123
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	75 - 124
Trichloroethene	25.0	23.7		ug/L		95	70 - 122
Vinyl chloride	12.5	10.4		ug/L		83	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

Lab Sample ID: 240-209796-C-6 MSD

Matrix: Water

Analysis Batch: 624514

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
1,1-Dichloroethene	1.0	U	25.0	24.1		ug/L		96	56 - 135	7	26
cis-1,2-Dichloroethene	1.0	U	25.0	25.8		ug/L		103	66 - 128	6	14
Tetrachloroethene	1.0	U	25.0	24.8		ug/L		99	62 - 131	4	20
trans-1,2-Dichloroethene	1.0	U	25.0	25.1		ug/L		100	56 - 136	5	15
Trichloroethene	1.0	U	25.0	23.0		ug/L		92	61 - 124	4	15
Vinyl chloride	1.0	U	12.5	11.5		ug/L		92	43 - 157	1	24

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	100		78 - 122

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-209796-C-6 MSD
Matrix: Water
Analysis Batch: 624514

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	94		73 - 120

Lab Sample ID: 240-209796-E-6 MS
Matrix: Water
Analysis Batch: 624514

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	1.0	U	25.0	22.4		ug/L		90	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	24.4		ug/L		97	66 - 128
Tetrachloroethene	1.0	U	25.0	23.7		ug/L		95	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	56 - 136
Trichloroethene	1.0	U	25.0	22.0		ug/L		88	61 - 124
Vinyl chloride	1.0	U	12.5	11.3		ug/L		91	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-624836/5
Matrix: Water
Analysis Batch: 624836

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/26/24 21:16	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	92		68 - 127		08/26/24 21:16	1

Lab Sample ID: LCS 240-624836/3
Matrix: Water
Analysis Batch: 624836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	10.2		ug/L		102	75 - 121

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		68 - 127

Lab Sample ID: 240-209728-E-5 MS
Matrix: Water
Analysis Batch: 624836

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1.7	J	10.0	11.5		ug/L		98	20 - 180

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		68 - 127

Lab Sample ID: 240-209728-F-5 MSD
Matrix: Water
Analysis Batch: 624836

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	1.7	J	10.0	12.9		ug/L		112	20 - 180	12	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		68 - 127

Lab Sample ID: MB 240-624868/6
Matrix: Water
Analysis Batch: 624868

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/27/24 11:10	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	105		68 - 127		08/27/24 11:10	1

Lab Sample ID: LCS 240-624868/4
Matrix: Water
Analysis Batch: 624868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	8.85		ug/L		88	75 - 121

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		68 - 127

Lab Sample ID: 240-209796-C-6 MS
Matrix: Water
Analysis Batch: 624868

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	9.48		ug/L		95	20 - 180

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		68 - 127

Lab Sample ID: 240-209796-C-6 MSD
Matrix: Water
Analysis Batch: 624868

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	9.77		ug/L		98	20 - 180	3	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-209796-C-6 MSD
Matrix: Water
Analysis Batch: 624868

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		68 - 127

Lab Sample ID: MB 240-625146/5
Matrix: Water
Analysis Batch: 625146

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/28/24 21:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 127		08/28/24 21:37	1

Lab Sample ID: LCS 240-625146/3
Matrix: Water
Analysis Batch: 625146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	9.75		ug/L		98	75 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		68 - 127

Lab Sample ID: 240-209999-E-7 MS
Matrix: Water
Analysis Batch: 625146

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	66		100	156		ug/L		90	20 - 180

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		68 - 127

Lab Sample ID: 240-209999-E-7 MSD
Matrix: Water
Analysis Batch: 625146

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	66		100	147		ug/L		81	20 - 180	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		68 - 127

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

GC/MS VOA

Analysis Batch: 624514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209795-1	TRIP BLANK_10	Total/NA	Water	8260D	
240-209795-2	MW-21_081624	Total/NA	Water	8260D	
240-209795-3	MW-20_081624	Total/NA	Water	8260D	
240-209795-4	MW-220S_081624	Total/NA	Water	8260D	
MB 240-624514/9	Method Blank	Total/NA	Water	8260D	
LCS 240-624514/5	Lab Control Sample	Total/NA	Water	8260D	
240-209796-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-209796-E-6 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 624836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209795-2	MW-21_081624	Total/NA	Water	8260D SIM	
MB 240-624836/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-624836/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-209728-E-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-209728-F-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 624868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209795-4	MW-220S_081624	Total/NA	Water	8260D SIM	
MB 240-624868/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-624868/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-209796-C-6 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-209796-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 625146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209795-3	MW-20_081624	Total/NA	Water	8260D SIM	
MB 240-625146/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-625146/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-209999-E-7 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-209999-E-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Client Sample ID: TRIP BLANK_10

Lab Sample ID: 240-209795-1

Date Collected: 08/16/24 00:00

Matrix: Water

Date Received: 08/20/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624514	MS	EET CLE	08/23/24 21:58

Client Sample ID: MW-21_081624

Lab Sample ID: 240-209795-2

Date Collected: 08/16/24 10:36

Matrix: Water

Date Received: 08/20/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624514	MS	EET CLE	08/23/24 14:02
Total/NA	Analysis	8260D SIM		1	624836	MDH	EET CLE	08/26/24 23:13

Client Sample ID: MW-20_081624

Lab Sample ID: 240-209795-3

Date Collected: 08/16/24 12:13

Matrix: Water

Date Received: 08/20/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624514	MS	EET CLE	08/23/24 14:27
Total/NA	Analysis	8260D SIM		1	625146	MS	EET CLE	08/28/24 22:47

Client Sample ID: MW-220S_081624

Lab Sample ID: 240-209795-4

Date Collected: 08/16/24 13:33

Matrix: Water

Date Received: 08/20/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	624514	MS	EET CLE	08/23/24 14:52
Total/NA	Analysis	8260D SIM		1	624868	SAM	EET CLE	08/27/24 16:26

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209795-1

Laboratory: Eurofins Cleveland

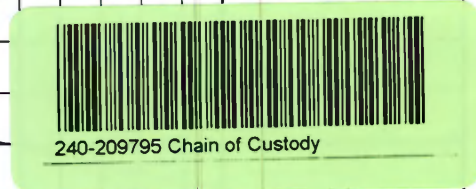
All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

Chain of Custody Record

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Client Contact		Regulatory program:		DW	NPDES	RCRA	Other	TestAmerica Laboratories, Inc.																											
Company Name: Arcadis		Client Project Manager: Kris Hinskey			Site Contact: Christina Weaver			Lab Contact: Mike DelMonico			COC No: _____																								
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240			Telephone: 248-994-2240			Telephone: 330-497-9396			1 of 1 COCs																								
City/State/Zip: Novi, MI, 48377		Email: kristoffer.hinskey@arcadis.com			Analysis Turnaround Time					Analyses					For lab use only																				
Phone: 248-994-2240		Sampler Name: <i>Rebecca Costigan</i>			TAT if different from below: 10 day ✓ 3 weeks 2 weeks 1 week 2 days 1 day										Walk-in client																				
Project Name: Ford LTP		Method of Shipment/Carrier:													Lab sampling																				
Project Number: 30206169.0401.03		Shipping/Tracking No:													Job/SDG No																				
PO # US3410018772															Sample Specific Notes / Special Instructions:																				
Sample Identification		Sample Date	Sample Time	Matrix					Containers & Preservatives																										
				Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM										
TRIP BLANK_10		---	---	1						1							N	G	X	X	X	X	X	X		1 Trip Blank									
MW-21_081624		8/16/24	1030	0						0							N	G	X	X	X	X	X	X		3 VOAs for 8260D 3 VOAs for 8260D SIM									
MW-10_081624		8/16/24	1213	0						0							N	G	X	X	X	X	X	Y											
MW-205_081624		8/16/24	1333	0						0							N	G	X	X	X	X	X	X											
PC 8/16/24																																			
Possible Hazard Identification		Non-Hazard			flammable			sin irritant			Poison B			Inkknown			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																		
Special Instructions/QC Requirements & Comments:		Onsite										Return to Client			Disposal By Lab			Archive For _____ Months																	
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested																																			
Relinquished by	<i>Andrew...</i>	Company	Arcadis	Date/Time	8/16/24 1510	Received by	<i>Novi Cold Storage</i>	Company	Arcadis	Date/Time	8/16/24 1510	Relinquished by	<i>...</i>	Company	Arcadis	Date/Time	8/19/24 1515	Received by	<i>Ty Mc...</i>	Company	EETA	Date/Time	8/19/24	Relinquished by	<i>...</i>	Company	EETA	Date/Time	8/20-24 0845						
Relinquished by	<i>...</i>	Company	Arcadis	Date/Time	8/19/24 1520	Received in Laboratory by:	<i>Jessica Rigdon</i>	Company:	EETA	Date/Time	8/20-24 0845																								



JESSICA RIGDON

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Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____

Client Accel's

Site Name Livonia LTP

Cooler unpacked by:

JESSICA RIGDON

Cooler Received on 8.20.24

Opened on 8.20.24

Fedex: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 1C Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt See Multiple Cooler Form

IR GUN # 22 (CF -01 °C) Observed Cooler Temp 1.7 °C Corrected Cooler Temp 1.6 °C

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
 - Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 - Were tamper/custody seals on the bottle(s) or bottle kits (LLHG/MeHg)? Yes No NA
 - Were tamper/custody seals intact and uncompromised? Yes No NA
 - 3 Shippers packing slip attached to the cooler(s)? Yes No NA
 - 4 Did custody papers accompany the sample(s)? Yes No NA
 - 5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA
 - 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA
 - 7 Did all bottles arrive in good condition (Unbroken)? Yes No NA
 - 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA
 - 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA
 - 10 Were correct bottle(s) used for the test(s) indicated? Yes No NA
 - 11 Sufficient quantity received to perform indicated analyses? Yes No NA
 12. Are these work share samples and all listed on the COC? Yes No NA
 - If yes, Questions 13-17 have been checked at the originating laboratory
 - 13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC442471
 14. Were VOAs on the COC? Yes No NA
 - 15 Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
 - 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 0041301T Yes No NA
 - 17 Was a LL Hg or Me Hg trip blank present? Yes No NA
- Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
- Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen _____

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TO EUROFINNS BARBERTON
 EUROFINNS BARBERTON
 180 S. VAN BUREN AVENUE

BARBERTON OH 44203

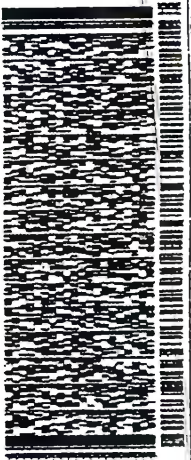
Q330 8/17/2020

7/20

FEF

DEPT

83620129306



FedEx Ship Manager - Print Your Labels

TRK# 7780 5951 5370
 DEPT

TUE - 20 AUG 10:30A
 PRIORITY OVERNIGHT

44203
 OH-US CLE



8/19/24 3:17 PM



Part # 159469-34 MW XP 025 https://www.fedex.com/shipping/shipmentConfirmation?method=doContinue



DATA VERIFICATION REPORT



August 30, 2024

Megan Meckley
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI US 48377

CADENA project ID: E203728
Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil
Project number: 30206169.0401.04_WA-02
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 209795-1
Sample date: 2024-08-16
Report received by CADENA: 2024-08-30
Initial Data Verification completed by CADENA: 2024-08-30
Number of Samples:4
Sample Matrices:Water
Test Categories:GCMS VOC
Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 209795-1

Analyte	Cas No.	Sample Name: TRIP BLANK_10				MW-21_081624				MW-20_081624				MW-220S_081624			
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
		2402097951				2402097952				2402097953				2402097954			
		8/16/2024				8/16/2024				8/16/2024				8/16/2024			

GC/MS VOC

OSW-8260D

1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	2.4	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	0.54	1.0	ug/l	J	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	4.1	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---

OSW-8260DSIM

1,4-Dioxane	123-91-1					5.3	2.0	ug/l	---	2.7	2.0	ug/l	---	ND	2.0	ug/l	---
-------------	----------	--	--	--	--	-----	-----	------	-----	-----	-----	------	-----	----	-----	------	-----