

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP - On Site

JOB NUMBER

240-195410-1

Eurofins Cleveland

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 US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
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.
▫	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 US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

Job ID: 240-195410-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-195410-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 11/14/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.2°C and 3.4°C

GC/MS VOA

Method 8260D: The method requirement for no headspace was not met. The following volatile samples were analyzed with headspace in the sample container(s): MW-49_110923 (240-195410-2) and MW-20_110923 (240-195410-3).

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



Method Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

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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Sample Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-195410-1	TRIP BLANK_87	Water	11/09/23 00:00	11/14/23 10:00
240-195410-2	MW-49_110923	Water	11/09/23 11:05	11/14/23 10:00
240-195410-3	MW-20_110923	Water	11/09/23 12:45	11/14/23 10:00

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- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

Client Sample ID: TRIP BLANK_87

Lab Sample ID: 240-195410-1

No Detections.

Client Sample ID: MW-49_110923

Lab Sample ID: 240-195410-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	12		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	51000		1000	460	ug/L	1000		8260D	Total/NA
Vinyl chloride	9300		500	230	ug/L	500		8260D	Total/NA

Client Sample ID: MW-20_110923

Lab Sample ID: 240-195410-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.53	J B	1.0	0.46	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

Client Sample ID: TRIP BLANK_87

Lab Sample ID: 240-195410-1

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/14/23 10:00

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			11/19/23 18:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/23 18:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 18:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/23 18:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 18:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/23 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		11/19/23 18:02	1
4-Bromofluorobenzene (Surr)	75		56 - 136		11/19/23 18:02	1
Toluene-d8 (Surr)	87		78 - 122		11/19/23 18:02	1
Dibromofluoromethane (Surr)	89		73 - 120		11/19/23 18:02	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

Client Sample ID: MW-49_110923

Lab Sample ID: 240-195410-2

Date Collected: 11/09/23 11:05

Matrix: Water

Date Received: 11/14/23 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	12		2.0	0.86	ug/L			11/22/23 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120					11/22/23 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	500	U	500	250	ug/L			11/19/23 20:30	500
cis-1,2-Dichloroethene	51000		1000	460	ug/L			11/20/23 18:20	1000
Tetrachloroethene	500	U	500	220	ug/L			11/19/23 20:30	500
trans-1,2-Dichloroethene	500	U	500	260	ug/L			11/19/23 20:30	500
Trichloroethene	500	U	500	220	ug/L			11/19/23 20:30	500
Vinyl chloride	9300		500	230	ug/L			11/19/23 20:30	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137					11/19/23 20:30	500
1,2-Dichloroethane-d4 (Surr)	118		62 - 137					11/20/23 18:20	1000
4-Bromofluorobenzene (Surr)	75		56 - 136					11/19/23 20:30	500
4-Bromofluorobenzene (Surr)	105		56 - 136					11/20/23 18:20	1000
Toluene-d8 (Surr)	91		78 - 122					11/19/23 20:30	500
Toluene-d8 (Surr)	107		78 - 122					11/20/23 18:20	1000
Dibromofluoromethane (Surr)	95		73 - 120					11/19/23 20:30	500
Dibromofluoromethane (Surr)	109		73 - 120					11/20/23 18:20	1000

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

Client Sample ID: MW-20_110923

Lab Sample ID: 240-195410-3

Date Collected: 11/09/23 12:45

Matrix: Water

Date Received: 11/14/23 10:00

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			11/22/23 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 120					11/22/23 20:15	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			11/19/23 20:54	1
cis-1,2-Dichloroethene	0.53	J B	1.0	0.46	ug/L			11/19/23 20:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 20:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/23 20:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 20:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/23 20:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137					11/19/23 20:54	1
4-Bromofluorobenzene (Surr)	74		56 - 136					11/19/23 20:54	1
Toluene-d8 (Surr)	90		78 - 122					11/19/23 20:54	1
Dibromofluoromethane (Surr)	92		73 - 120					11/19/23 20:54	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

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)
190-33133-F-10 MSD	Matrix Spike Duplicate	111	109	111	106
190-33133-G-10 MS	Matrix Spike	115	109	111	109
240-195326-E-2 MS	Matrix Spike	103	88	91	92
240-195326-I-2 MSD	Matrix Spike Duplicate	99	84	89	90
240-195410-1	TRIP BLANK_87	105	75	87	89
240-195410-2	MW-49_110923	108	75	91	95
240-195410-2	MW-49_110923	118	105	107	109
240-195410-3	MW-20_110923	108	74	90	92
LCS 240-595154/5	Lab Control Sample	105	87	94	97
LCS 240-595301/5	Lab Control Sample	114	115	114	111
MB 240-595154/8	Method Blank	110	75	90	95
MB 240-595301/8	Method Blank	108	103	106	103

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 (66-120)
240-195177-C-7 MS	Matrix Spike	98
240-195177-D-7 MSD	Matrix Spike Duplicate	100
240-195410-2	MW-49_110923	88
240-195410-3	MW-20_110923	96
LCS 240-595638/4	Lab Control Sample	101
MB 240-595638/5	Method Blank	101

Surrogate Legend

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

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

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

Lab Sample ID: MB 240-595154/8
Matrix: Water
Analysis Batch: 595154

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			11/19/23 17:12	1
cis-1,2-Dichloroethene	0.605	J	1.0	0.46	ug/L			11/19/23 17:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 17:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/23 17:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 17:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/23 17:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		11/19/23 17:12	1
4-Bromofluorobenzene (Surr)	75		56 - 136		11/19/23 17:12	1
Toluene-d8 (Surr)	90		78 - 122		11/19/23 17:12	1
Dibromofluoromethane (Surr)	95		73 - 120		11/19/23 17:12	1

Lab Sample ID: LCS 240-595154/5
Matrix: Water
Analysis Batch: 595154

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	27.1		ug/L		109	63 - 134
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	77 - 123
Tetrachloroethene	25.0	24.1		ug/L		96	76 - 123
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	75 - 124
Trichloroethene	25.0	22.6		ug/L		90	70 - 122
Vinyl chloride	12.5	12.3		ug/L		98	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	87		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-195326-E-2 MS
Matrix: Water
Analysis Batch: 595154

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

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
cis-1,2-Dichloroethene	1.0	U	25.0	22.2		ug/L		89	66 - 128
trans-1,2-Dichloroethene	1.0	U	25.0	22.7		ug/L		91	56 - 136
Trichloroethene	1.0	U	25.0	22.6		ug/L		90	61 - 124
Vinyl chloride	1.0	U	12.5	11.2		ug/L		90	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	88		56 - 136
Toluene-d8 (Surr)	91		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

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

Lab Sample ID: 240-195326-I-2 MSD
Matrix: Water
Analysis Batch: 595154

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
cis-1,2-Dichloroethene	1.0	U	25.0	21.5		ug/L		86	66 - 128	3	14
trans-1,2-Dichloroethene	1.0	U	25.0	22.6		ug/L		91	56 - 136	0	15
Trichloroethene	1.0	U	25.0	22.6		ug/L		90	61 - 124	0	15
Vinyl chloride	1.0	U	12.5	11.4		ug/L		91	43 - 157	2	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	84		56 - 136
Toluene-d8 (Surr)	89		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

Lab Sample ID: MB 240-595301/8
Matrix: Water
Analysis Batch: 595301

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/20/23 16:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/23 16:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/23 16:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/23 16:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/23 16:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/23 16:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137		11/20/23 16:44	1
4-Bromofluorobenzene (Surr)	103		56 - 136		11/20/23 16:44	1
Toluene-d8 (Surr)	106		78 - 122		11/20/23 16:44	1
Dibromofluoromethane (Surr)	103		73 - 120		11/20/23 16:44	1

Lab Sample ID: LCS 240-595301/5
Matrix: Water
Analysis Batch: 595301

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	25.0	24.4		ug/L		98	63 - 134
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	77 - 123
Tetrachloroethene	25.0	23.2		ug/L		93	76 - 123
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	75 - 124
Trichloroethene	25.0	22.7		ug/L		91	70 - 122
Vinyl chloride	12.5	10.4		ug/L		83	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		62 - 137
4-Bromofluorobenzene (Surr)	115		56 - 136
Toluene-d8 (Surr)	114		78 - 122
Dibromofluoromethane (Surr)	111		73 - 120

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

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

Lab Sample ID: 190-33133-F-10 MSD
Matrix: Water
Analysis Batch: 595301

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,1-Dichloroethene	1.0	U	25.0	21.8		ug/L		87	56 - 135	4	26
cis-1,2-Dichloroethene	1.0	U	25.0	22.1		ug/L		88	66 - 128	1	14
Tetrachloroethene	1.0	U	25.0	20.7		ug/L		83	62 - 131	5	20
trans-1,2-Dichloroethene	1.0	U	25.0	21.7		ug/L		87	56 - 136	3	15
Trichloroethene	1.0	U	25.0	20.6		ug/L		82	61 - 124	4	15
Vinyl chloride	1.0	U	12.5	8.98		ug/L		72	43 - 157	6	24
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	111		62 - 137								
4-Bromofluorobenzene (Surr)	109		56 - 136								
Toluene-d8 (Surr)	111		78 - 122								
Dibromofluoromethane (Surr)	106		73 - 120								

Lab Sample ID: 190-33133-G-10 MS
Matrix: Water
Analysis Batch: 595301

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,1-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	56 - 135		
cis-1,2-Dichloroethene	1.0	U	25.0	21.8		ug/L		87	66 - 128		
Tetrachloroethene	1.0	U	25.0	21.9		ug/L		87	62 - 131		
trans-1,2-Dichloroethene	1.0	U	25.0	22.3		ug/L		89	56 - 136		
Trichloroethene	1.0	U	25.0	21.5		ug/L		86	61 - 124		
Vinyl chloride	1.0	U	12.5	9.57		ug/L		77	43 - 157		
MS MS											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	115		62 - 137								
4-Bromofluorobenzene (Surr)	109		56 - 136								
Toluene-d8 (Surr)	111		78 - 122								
Dibromofluoromethane (Surr)	109		73 - 120								

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

Lab Sample ID: MB 240-595638/5
Matrix: Water
Analysis Batch: 595638

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/23 15:25	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	101		66 - 120						

Eurofins Cleveland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

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

Lab Sample ID: LCS 240-595638/4
Matrix: Water
Analysis Batch: 595638

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	9.96		ug/L		100	80 - 122
Surrogate							
	%Recovery	LCS Qualifier	LCS Limits				
1,2-Dichloroethane-d4 (Surr)	101		66 - 120				

Lab Sample ID: 240-195177-C-7 MS
Matrix: Water
Analysis Batch: 595638

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	280		20.0	309	4	ug/L		121	51 - 153
Surrogate									
	%Recovery	MS Qualifier	MS Limits						
1,2-Dichloroethane-d4 (Surr)	98		66 - 120						

Lab Sample ID: 240-195177-D-7 MSD
Matrix: Water
Analysis Batch: 595638

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	280		20.0	313	4	ug/L		144	51 - 153	2	16
Surrogate											
	%Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	100		66 - 120								

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

GC/MS VOA

Analysis Batch: 595154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195410-1	TRIP BLANK_87	Total/NA	Water	8260D	
240-195410-2	MW-49_110923	Total/NA	Water	8260D	
240-195410-3	MW-20_110923	Total/NA	Water	8260D	
MB 240-595154/8	Method Blank	Total/NA	Water	8260D	
LCS 240-595154/5	Lab Control Sample	Total/NA	Water	8260D	
240-195326-E-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-195326-I-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 595301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195410-2	MW-49_110923	Total/NA	Water	8260D	
MB 240-595301/8	Method Blank	Total/NA	Water	8260D	
LCS 240-595301/5	Lab Control Sample	Total/NA	Water	8260D	
190-33133-F-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
190-33133-G-10 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 595638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195410-2	MW-49_110923	Total/NA	Water	8260D SIM	
240-195410-3	MW-20_110923	Total/NA	Water	8260D SIM	
MB 240-595638/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-595638/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-195177-C-7 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-195177-D-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

Client Sample ID: TRIP BLANK_87

Lab Sample ID: 240-195410-1

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/14/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	595154	CDG	EET CLE	11/19/23 18:02

Client Sample ID: MW-49_110923

Lab Sample ID: 240-195410-2

Date Collected: 11/09/23 11:05

Matrix: Water

Date Received: 11/14/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		500	595154	CDG	EET CLE	11/19/23 20:30
Total/NA	Analysis	8260D		1000	595301	CDG	EET CLE	11/20/23 18:20
Total/NA	Analysis	8260D SIM		1	595638	CS	EET CLE	11/22/23 19:51

Client Sample ID: MW-20_110923

Lab Sample ID: 240-195410-3

Date Collected: 11/09/23 12:45

Matrix: Water

Date Received: 11/14/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	595154	CDG	EET CLE	11/19/23 20:54
Total/NA	Analysis	8260D SIM		1	595638	CS	EET CLE	11/22/23 20:15

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195410-1

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	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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

Client Contact
 Company Name: Arcadis
 Address: 28550 Cabot Drive, Suite 500
 City/State/Zip: Novi, MI 48377
 Phone: 248-994-2240

Regulatory program: DW NPDES RCRA Other

Client Project Manager: Kris Hinskey
 Telephone: 248-994-2240
 E-mail: kristoffer.hinskey@arcadis.com

Site Contact: Christina Weaver
 Telephone: 248-994-2240
 Lab Contact: Mike DeMonico
 Telephone: 330-497-9396

COC No: _____
 of _____ COCs

Sampler Name: Garrett Link
Method of Shipment/Carrier:
Shipping/Tracking No:

Analysis Turnaround Time
 FAT if different from below
 10 day 3 weeks
 1 week 2 weeks
 2 days 1 week
 1 day 1 day

Containers & Preservatives
 H2SO4 HNO3 HCl NaOH ZnAc NaOH Uprts Other: _____

Sample Identification	Sample Date	Sample Time	Matrix			Filtered Sample (Y/N)							Composite C / Grab-G	Analyses							Sample Specific Notes / Special Instructions:					
			Aqueous	Sediment	Solid	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH	Uprts		Other:	1,1-DCE 8260B	CS-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B		1,4-Dioxane 8260B SIM				
TRIP BLANK #87	11/01/23	---	1																							1 Trip Blank
MW-49-110923	11/09/23	1105	0																							3 VOAs for 8260B 3 VOAs for 8260B SIM
MW-200-110923	11/09/23	1245	0																							↓



Possible Hazard Identification
 Non-Hazard Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal By Lab Archive For _____ Months

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>Justin Liu</i>	ARCADIS	11/09/23 15:00	Novi Cold Storage	ARCADIS	11/09/23 15:00
<i>Sammy Liu</i>	ARCADIS	11/13/23 0835	<i>Libby Mc...</i>	FEENA	11/13/23
<i>Justin Liu</i>	FEENA	11/13/23	Received in Laboratory by:	EE-TUC	11-14-23 1000

Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203728 **onsite**
 Level IV Reporting requested.

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Eurofins - Cleveland Sample Receipt Form/Narrative

Login # : _____

Barberton Facility

Client Arcadis Site Name _____

Cooler unpacked by: Missa Atkinson

Cooler Received on 11-14-23 Opened on 11-14-23

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

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

Eurofins Cooler # EC 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 # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 ea Yes No

-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

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?

10. Were correct bottle(s) used for the test(s) indicated? Yes No

11. Sufficient quantity received to perform indicated analyses? Yes No

12. Are these work share samples and all listed on the COC? Yes No

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# HC316719

14. Were VOAs on the COC? Yes No

15. Were air bubbles >6 mm in any VOA vials? Yes No NA

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 62225 Yes No

17. Was a LL Hg or Me Hg trip blank present? Yes No

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

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: _____

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
EC	Client	Box	Other	IR GUN #: <u>21</u>	<u>3.2</u>	<u>3.9</u>	Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____	<u>3.0</u>	<u>3.2</u>	Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
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EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
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EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
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EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	

See Temperature Excursion Form

DATA VERIFICATION REPORT



November 28, 2023

Kris Hinskey
Arcadis of Michigan
28550 Cabot Drive
Suite 500
Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE -Soil Gas, Ground water and Soil

Project number: 30167538.401.03- onsite groundwater

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 195410-1

Sample date: 2023-11-09

Report received by CADENA: 2023-11-27

Initial Data Verification completed by CADENA: 2023-11-28

Number of Samples:3

Sample Matrices:Water and trip blank

Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

MBK - METHOD BLANKS had detections BELOW the Reporting Limit (RL) for these analytes. The listed client sample results had concentrations LESS than 5X the method blank levels so client sample results reported below the RL are considered non-detect at the RL and qualified with UB flags and results greater than the RL are non-detect at the sample concentration reported and qualified with B flags : GCMS VOC QC batch 595154 - CIS-1,2-DICHLOROETHYLENE - UB flag - sample -003.

HSP - GCMS VOC container was received with headspace according to the laboratory submittal case narrative and sample receipt documents. Client sample GCMS VOC results noted should be considered estimated and qualified with J flags if detected and UJ flags if non-detect. GCMS VOC samples -002, -003 - J/UJ flags.

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.

Qualifiers added during verification have been added to the electronic data which is available for download from the CADENA CLMS. Refer to the attached table of analytical results that have been qualified during verification.

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.

Qualified Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 195410-1

Sample Name:	MW-49_110923	MW-20_110923
Lab Sample ID:	2401954102	2401954103
Sample Date:	11/9/2023	11/9/2023

Analyte	Cas No.	Report		Units	Valid	Report		Units	Valid
		Result	Limit		Qualifier	Result	Limit		Qualifier

GC/MS VOC

OSW-8260D

1,1-Dichloroethene	75-35-4	ND	500	ug/l	UJ	ND	1.0	ug/l	UJ
cis-1,2-Dichloroethene	156-59-2	51000	1000	ug/l	J	0.53	1.0	ug/l	UB
Tetrachloroethene	127-18-4	ND	500	ug/l	UJ	ND	1.0	ug/l	UJ
trans-1,2-Dichloroethene	156-60-5	ND	500	ug/l	UJ	ND	1.0	ug/l	UJ
Trichloroethene	79-01-6	ND	500	ug/l	UJ	ND	1.0	ug/l	UJ
Vinyl chloride	75-01-4	9300	500	ug/l	J	ND	1.0	ug/l	UJ

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 195410-1

Sample Name:	TRIP BLANK_87	MW-49_110923	MW-20_110923
Lab Sample ID:	2401954101	2401954102	2401954103
Sample Date:	11/9/2023	11/9/2023	11/9/2023

Analyte	Cas No.	Report		Units	Valid Qualifier	Report		Units	Valid Qualifier	Report		Units	Valid Qualifier
		Result	Limit			Result	Limit			Result	Limit		

GC/MS VOC

OSW-8260D

1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	500	ug/l	UJ	ND	1.0	ug/l	UJ
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	51000	1000	ug/l	J	0.53	1.0	ug/l	UB
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	500	ug/l	UJ	ND	1.0	ug/l	UJ
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	500	ug/l	UJ	ND	1.0	ug/l	UJ
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	500	ug/l	UJ	ND	1.0	ug/l	UJ
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	9300	500	ug/l	J	ND	1.0	ug/l	UJ

OSW-8260DSIM

1,4-Dioxane	123-91-1					12	2.0	ug/l	---	ND	2.0	ug/l	---
-------------	----------	--	--	--	--	----	-----	------	-----	----	-----	------	-----