PREPARED FOR

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JOB DESCRIPTION

Ford LTP - On Site

JOB NUMBER

240-176478-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - On Site Laboratory Job ID: 240-176478-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

Qualifiers

GC/MS VOA

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.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1+ Surrogate recovery exceeds control limits, high biased.
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.

Eisted 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

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-176478-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-176478-1

Receipt

The samples were received on 11/15/2022 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 3 coolers at receipt time were 1.6°C, 2.0°C and 3.6°C

GC/MS VOA

Method 8260D_SIM: Surrogate recovery for the following samples was outside the upper control limit: MW-42_111222 (240-176478-2), MW-211S_111222 (240-176478-3) and MW-212S_111222 (240-176478-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Job ID: 240-176478-1

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Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - On Site

Job ID: 240-176478-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Job ID: 240-176478-1

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - On Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-176478-1	TRIP BLANK_25	Water	11/12/22 00:00	11/15/22 10:00
240-176478-2	MW-42_111222	Water	11/12/22 09:05	11/15/22 10:00
240-176478-3	MW-211S_111222	Water	11/12/22 10:00	11/15/22 10:00
240-176478-4	MW-35_111222	Water	11/12/22 10:50	11/15/22 10:00
240-176478-5	MW-212S 111222	Water	11/12/22 11:45	11/15/22 10:00

Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

Lab Sample ID: 240-176478-1 Client Sample ID: TRIP BLANK_25

No Detections.

Client Sample ID: MW-42_111222 Lab Sample ID: 240-176478-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Vinyl chloride	0.65 J	1.0	0.45 ug/L	1 8260D	Total/NA

Client Sample ID: MW-211S_111222 Lab Sample ID: 240-176478-3

	Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
ı	Trichloroethene	0.44 J	1.0	0.44 ug/L	1 8260D	Total/NA

Client Sample ID: MW-35_111222 Lab Sample ID: 240-176478-4

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
1,4-Dioxane	3.1	2.0	0.86 ug/L		8260D SIM	Total/NA
Vinyl chloride	1.2	1.0	0.45 ug/L	1	8260D	Total/NA

Client Sample ID: MW-212S_111222 Lab Sample ID: 240-176478-5

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
cis-1,2-Dichloroethene	2.3	1.0	0.46 ug/L		8260D	Total/NA
Vinyl chloride	0.94 J	1.0	0.45 ug/L	1	8260D	Total/NA

Client: ARCADIS U.S., Inc. Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

Client Sample ID: TRIP BLANK_25

Date Collected: 11/12/22 00:00 Date Received: 11/15/22 10:00 Lab Sample ID: 240-176478-1

Matrix: Water

Method: SW846 8260D - Vo	latile Organic	Compoun	ds 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			11/22/22 15:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/22 15:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 15:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/22 15:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 15:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/22 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		62 - 137					11/22/22 15:27	1
4-Bromofluorobenzene (Surr)	88		56 - 136					11/22/22 15:27	1
Toluene-d8 (Surr)	93		78 - 122					11/22/22 15:27	1
Dibromofluoromethane (Surr)	81		73 - 120					11/22/22 15:27	1

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Client: ARCADIS U.S., Inc. Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

Client Sample ID: MW-42_111222 Lab Sample ID: 240-176478-2

Date Collected: 11/12/22 09:05 **Matrix: Water**

Date Received: 11/15/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/18/22 02:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130	S1+	66 - 120					11/18/22 02:49	1
Method: SW846 8260D - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/22/22 15:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/22 15:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 15:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/22 15:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 15:50	1
Vinyl chloride	0.65	J	1.0	0.45	ug/L			11/22/22 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					11/22/22 15:50	1
4-Bromofluorobenzene (Surr)	93		56 - 136					11/22/22 15:50	1
Toluene-d8 (Surr)	96		78 - 122					11/22/22 15:50	1
Dibromofluoromethane (Surr)	83		73 - 120					11/22/22 15:50	1

Client: ARCADIS U.S., Inc. Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

Lab Sample ID: 240-176478-3 Client Sample ID: MW-211S_111222

Date Collected: 11/12/22 10:00

Matrix: Water Date Received: 11/15/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/18/22 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130	S1+	66 - 120					11/18/22 03:14	1
Method: SW846 8260D - Vo	olatile Organic	Compound	ds by GC/MS						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/22/22 16:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/22 16:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 16:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/22 16:13	1
Trichloroethene	0.44	J	1.0	0.44	ug/L			11/22/22 16:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/22 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		62 - 137					11/22/22 16:13	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					11/22/22 16:13	1
Toluene-d8 (Surr)	91		78 - 122					11/22/22 16:13	1
Dibromofluoromethane (Surr)	79		73 - 120					11/22/22 16:13	1

Client: ARCADIS U.S., Inc. Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

Lab Sample ID: 240-176478-4 Client Sample ID: MW-35_111222

Date Collected: 11/12/22 10:50 **Matrix: Water**

Date Received: 11/15/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.1		2.0	0.86	ug/L			11/22/22 06:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		66 - 120					11/22/22 06:59	1
Method: SW846 8260D - Vo	olatile Organic	Compound	ds by GC/MS						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/22/22 16:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/22 16:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 16:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/22 16:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 16:36	1
Vinyl chloride	1.2		1.0	0.45	ug/L			11/22/22 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/22/22 16:36	1
4-Bromofluorobenzene (Surr)	100		56 ₋ 136					11/22/22 16:36	1
Toluene-d8 (Surr)	100		78 - 122					11/22/22 16:36	1
Dibromofluoromethane (Surr)	87		73 - 120					11/22/22 16:36	1

Client: ARCADIS U.S., Inc. Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

Client Sample ID: MW-212S_111222 Lab Sample ID: 240-176478-5

Date Collected: 11/12/22 11:45 Date Received: 11/15/22 10:00

Matrix: Water

24.5 1.6551.541 1.7.15.22 15.65
Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)
method. 344040 0200D 3hii - Volathe Organic Compounds (GC/M3)

Analyte 1,4-Dioxane	Result 2.0	Qualifier U		MDL 0.86	Unit ug/L	<u>D</u>	Prepared	Analyzed 11/18/22 04:02	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	133	S1+	66 - 120					11/18/22 04:02	1

Method: SW846 8260D - Volatile Organic Compounds by	CC/MC
Welliou. 30046 6260D - Volalile Organic Compounds by	GC/IVI3

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/22/22 16:59	1
cis-1,2-Dichloroethene	2.3		1.0	0.46	ug/L			11/22/22 16:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 16:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/22 16:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 16:59	1
Vinyl chloride	0.94	J	1.0	0.45	ug/L			11/22/22 16:59	1
-									

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85	62 - 137		11/22/22 16:59	1
4-Bromofluorobenzene (Surr)	86	56 - 136		11/22/22 16:59	1
Toluene-d8 (Surr)	91	78 - 122		11/22/22 16:59	1
Dibromofluoromethane (Surr)	79	73 - 120		11/22/22 16:59	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recove					
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
240-176369-B-11 MS	Matrix Spike	84	96	97	77		
240-176369-B-11 MSD	Matrix Spike Duplicate	88	100	100	81		
240-176478-1	TRIP BLANK_25	86	88	93	81		
240-176478-2	MW-42_111222	91	93	96	83		
240-176478-3	MW-211S_111222	86	88	91	79		
240-176478-4	MW-35_111222	94	100	100	87		
240-176478-5	MW-212S_111222	85	86	91	79		
LCS 240-553103/5	Lab Control Sample	85	103	101	85		
MB 240-553103/9	Method Blank	90	91	95	82		

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

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-176368-E-17 MS	Matrix Spike	81	
240-176368-E-17 MSD	Matrix Spike Duplicate	77	
240-176475-I-4 MS	Matrix Spike	119	
240-176475-O-4 MSD	Matrix Spike Duplicate	123 S1+	
240-176478-2	MW-42_111222	130 S1+	
240-176478-3	MW-211S_111222	130 S1+	
240-176478-4	MW-35_111222	79	
240-176478-5	MW-212S_111222	133 S1+	
LCS 240-552553/4	Lab Control Sample	124 S1+	
LCS 240-553045/3	Lab Control Sample	81	
MB 240-552553/5	Method Blank	116	
MB 240-553045/4	Method Blank	79	

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

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Client: ARCADIS U.S., Inc. Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

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

Lab Sample ID: MB 240-553103/9

Matrix: Water

Analysis Batch: 553103

Client Sa	mple ID: Method Blank	
	Prep Type: Total/NA	

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/22/22 12:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/22 12:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 12:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/22 12:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/22 12:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/22 12:22	1

1		МВ	MB				
	Surrogate	%Recovery	Qualifier	Limits	Prepar	red Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	90		62 - 137		11/22/22 12:22	1
	4-Bromofluorobenzene (Surr)	91		56 ₋ 136		11/22/22 12:22	1
	Toluene-d8 (Surr)	95		78 - 122		11/22/22 12:22	1
L	Dibromofluoromethane (Surr)	82		73 - 120		11/22/22 12:22	1

Lab Sample ID: LCS 240-553103/5

Matrix: Water

Analysis Batch: 553103

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	20.5		ug/L		102	63 - 134	
cis-1,2-Dichloroethene	20.0	18.2		ug/L		91	77 - 123	
Tetrachloroethene	20.0	18.7		ug/L		93	76 - 123	
trans-1,2-Dichloroethene	20.0	20.7		ug/L		103	75 - 124	
Trichloroethene	20.0	17.3		ug/L		86	70 - 122	
Vinyl chloride	20.0	17.7		ug/L		88	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		62 - 137
4-Bromofluorobenzene (Surr)	103		56 ₋ 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	85		73 - 120

Lab Sample ID: 240-176369-B-11 MS

Matrix: Water

Analysis Batch: 553103

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

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
4.0	U	80.0	76.6		ug/L		96	56 - 135	
96		80.0	158		ug/L		78	66 - 128	
4.0	U	80.0	66.3		ug/L		83	62 - 131	
4.0	U	80.0	79.8		ug/L		100	56 - 136	
31		80.0	91.7		ug/L		76	61 - 124	
3.0	J	80.0	73.2		ug/L		88	43 - 157	
	Result 4.0 96 4.0 4.0 31	4.0 U 4.0 U	Result Qualifier Added 4.0 U 80.0 96 80.0 4.0 U 80.0 4.0 U 80.0 31 80.0	Result Qualifier Added Result 4.0 U 80.0 76.6 96 80.0 158 4.0 U 80.0 66.3 4.0 U 80.0 79.8 31 80.0 91.7	Result Qualifier Added Result Qualifier 4.0 U 80.0 76.6 96 80.0 158 4.0 U 80.0 66.3 4.0 U 80.0 79.8 31 80.0 91.7	Result Qualifier Added Result Qualifier Unit 4.0 U 80.0 76.6 ug/L 96 80.0 158 ug/L 4.0 U 80.0 66.3 ug/L 4.0 U 80.0 79.8 ug/L 31 80.0 91.7 ug/L	Result Qualifier Added Result Qualifier Unit D 4.0 U 80.0 76.6 ug/L 96 80.0 158 ug/L 4.0 U 80.0 66.3 ug/L 4.0 U 80.0 79.8 ug/L 31 80.0 91.7 ug/L	Result Qualifier Added Result Qualifier Unit D %Rec 4.0 U 80.0 76.6 ug/L 96 96 80.0 158 ug/L 78 4.0 U 80.0 66.3 ug/L 83 4.0 U 80.0 79.8 ug/L 100 31 80.0 91.7 ug/L 76	Result Qualifier Added Result Qualifier Unit D %Rec Limits 4.0 U 80.0 76.6 ug/L 96 56 - 135 96 80.0 158 ug/L 78 66 - 128 4.0 U 80.0 66.3 ug/L 83 62 - 131 4.0 U 80.0 79.8 ug/L 100 56 - 136 31 80.0 91.7 ug/L 76 61 - 124

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	97		78 - 122

Eurofins Canton

Prep Type: Total/NA

Project/Site: Ford LTP - On Site

Client: ARCADIS U.S., Inc. Job ID: 240-176478-1

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

Lab Sample ID: 240-176369-B-11 MS Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 553103

MS MS

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

Lab Sample ID: 240-176369-B-11 MSD

Matrix: Water

Analysis Batch: 553103

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	4.0	U	80.0	76.1		ug/L		95	56 - 135	1	26
cis-1,2-Dichloroethene	96		80.0	159		ug/L		79	66 - 128	0	14
Tetrachloroethene	4.0	U	80.0	67.5		ug/L		84	62 - 131	2	20
trans-1,2-Dichloroethene	4.0	U	80.0	79.6		ug/L		100	56 - 136	0	15
Trichloroethene	31		80.0	90.8		ug/L		75	61 - 124	1	15
Vinyl chloride	3.0	J	80.0	70.7		ug/L		85	43 - 157	3	24

MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 88 62 - 137 4-Bromofluorobenzene (Surr) 100 56 - 136 Toluene-d8 (Surr) 100 78 - 122 Dibromofluoromethane (Surr) 81 73 - 120

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

Lab Sample ID: MB 240-552553/5

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 552553

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

Client Sample ID: Matrix Spike

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 2.0 11/17/22 19:08 2.0 U 0.86 ug/L

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 116 66 - 120 11/17/22 19:08

Lab Sample ID: LCS 240-552553/4

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 552553**

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 9.20 ug/L 92 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 124 S1+ 66 - 120

Lab Sample ID: 240-176475-I-4 MS

Matrix: Water

Analysis Batch: 552553

Analysis Baton. 002000	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	9.04		ug/L		90	51 - 153	

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Prep Type: Total/NA

Page 16 of 24

10

Client: ARCADIS U.S., Inc.

Job ID: 240-176478-1

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Project/Site: Ford LTP - On Site

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 120

Lab Sample ID: 240-176475-O-4 MSD

Matrix: Water Analysis Batch: 552553

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec RPD Limit 1.4-Dioxane 2.0 U 10.0 9.56 96 51 - 153 ug/L 6

MSD MSD Surrogate %Recovery Qualifier

1,2-Dichloroethane-d4 (Surr) 123 S1+ 66 - 120

Lab Sample ID: MB 240-553045/4 Client Sample ID: Method Blank Prep Type: Total/NA

Limits

Matrix: Water

Analysis Batch: 553045

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/21/22 22:31 MB MB %Recovery Qualifier Surrogate Limits Dil Fac Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 79 66 - 120 11/21/22 22:31

Lab Sample ID: LCS 240-553045/3

Matrix: Water

Analysis Batch: 553045

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 9.30 ug/L 93 80 - 122

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 81 66 - 120

Lab Sample ID: 240-176368-E-17 MS

Matrix: Water

Analysis Batch: 553045

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 160 10.0 179 4 ug/L 148 51 - 153

66 - 120

MS MS Surrogate %Recovery Qualifier Limits

81

Lab Sample ID: 240-176368-E-17 MSD

Matrix: Water

Analysis Batch: 553045

1,2-Dichloroethane-d4 (Surr)

Analysis Daten. 000040	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	160		10.0	172	4	ug/L		70	51 - 153	4	16

Eurofins Canton

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

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

Lab Sample ID: 240-176368-E-17 MSD

Matrix: Water

Analysis Batch: 553045

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 77 66 - 120

000.2.2.0...

Prep Type: Total/NA

2

Client Sample ID: Matrix Spike Duplicate

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QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176478-1 Project/Site: Ford LTP - On Site

GC/MS VOA

Analysis Batch: 552553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176478-2	MW-42_111222	Total/NA	Water	8260D SIM	
240-176478-3	MW-211S_111222	Total/NA	Water	8260D SIM	
240-176478-5	MW-212S_111222	Total/NA	Water	8260D SIM	
MB 240-552553/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-552553/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-176475-I-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-176475-O-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 553045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176478-4	MW-35_111222	Total/NA	Water	8260D SIM	
MB 240-553045/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-553045/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-176368-E-17 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-176368-E-17 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 553103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176478-1	TRIP BLANK_25	Total/NA	Water	8260D	
240-176478-2	MW-42_111222	Total/NA	Water	8260D	
240-176478-3	MW-211S_111222	Total/NA	Water	8260D	
240-176478-4	MW-35_111222	Total/NA	Water	8260D	
240-176478-5	MW-212S_111222	Total/NA	Water	8260D	
MB 240-553103/9	Method Blank	Total/NA	Water	8260D	
LCS 240-553103/5	Lab Control Sample	Total/NA	Water	8260D	
240-176369-B-11 MS	Matrix Spike	Total/NA	Water	8260D	
240-176369-B-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Eurofins Canton

Job ID: 240-176478-1

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - On Site

Client Sample ID: TRIP BLANK 25

Date Collected: 11/12/22 00:00 Date Received: 11/15/22 10:00

Lab Sample ID: 240-176478-1 **Matrix: Water**

Batch Dilution Batch Batch Prepared Method Factor or Analyzed **Prep Type** Type Run **Number Analyst** Lab Total/NA Analysis 8260D 553103 TJL1 EET CAN 11/22/22 15:27

Client Sample ID: MW-42 111222 Lab Sample ID: 240-176478-2

Date Collected: 11/12/22 09:05 **Matrix: Water**

Date Received: 11/15/22 10:00

Batch Batch Dilution **Batch Prepared Prep Type** Type Method Run Factor **Number Analyst** Lab or Analyzed Total/NA Analysis 8260D 553103 TJL1 EET CAN 11/22/22 15:50 Total/NA Analysis 8260D SIM 1 552553 CS **EET CAN** 11/18/22 02:49

Client Sample ID: MW-211S 111222 Lab Sample ID: 240-176478-3

Date Collected: 11/12/22 10:00 **Matrix: Water**

Date Received: 11/15/22 10:00

Batch Batch Dilution **Batch** Prepared Method or Analyzed **Prep Type** Type Run Factor **Number Analyst** Lab 11/22/22 16:13 Total/NA Analysis 8260D 553103 TJL1 EET CAN Total/NA Analysis 8260D SIM 552553 CS **EET CAN** 11/18/22 03:14 1

Client Sample ID: MW-35 111222 Lab Sample ID: 240-176478-4

Date Collected: 11/12/22 10:50 **Matrix: Water**

Date Received: 11/15/22 10:00

Batch Batch Dilution Batch **Prepared** Type Method Run **Factor Number Analyst** or Analyzed **Prep Type** Lab Total/NA 8260D 553103 TJL1 EET CAN 11/22/22 16:36 Analysis Total/NA Analysis 8260D SIM 1 553045 CS **EET CAN** 11/22/22 06:59

Client Sample ID: MW-212S 111222 Lab Sample ID: 240-176478-5

Date Collected: 11/12/22 11:45 **Matrix: Water**

Date Received: 11/15/22 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	553103	TJL1	EET CAN	11/22/22 16:59
Total/NA	Analysis	8260D SIM		1	552553	CS	EET CAN	11/18/22 04:02

Laboratory References:

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

Eurofins Canton

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-176478-1

Project/Site: Ford LTP - On Site

Laboratory: Eurofins Canton

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	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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Client Contact	Regulatory program:	DW NPDES RCRA Other		THE REAL PROPERTY AND ADDRESS OF THE PERSON
Company Name: Arcadis		C C C C C C C C C C C C C C C C C C C	_	Tost America I shorotories Inc
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
Manager and the state of the state	Telephone: 248-994-2240	Telephone: 248-994-2293	Telephone: 330-497-9396	
City/State/Zip: Novi, MI, 48377	Email: kristoffer, hinskev arcadis.com	Analysis Turnaround Time	Analyses	s of cocs
Phone: 248-994-2240			236	For lab use only
Project Name: Ford L/TP On-Site	Sampler Name:	ent from b		Walk-in client
Project Number: 30146655,401.03	es	(N		Lab sampling
PO # 30146655.401.03	Shipping/Tracking No:		82608	Job/SDG No:
	Matrix		B -DCE	
Sample Identification	Sample Date Sample Time Air Sodiment	Composite HAO3 HAO3 HAO3	ri-DCE 8260 Trans-1,2-DCE 8260 TCE 8260 Vinyl Chlo	Sample Specific Notes / Special Instructions:
€ TRIP BLANK_J S	-	1 N	× × × × × ×	1 Trip Blank
484111-84-00WO	11/12/14 903 6	(c) N (c)	メメメナルメナ	3 VOAs for 8260B 3 VOAs for 8260B SIM
0 MW-7115-11167	1/14/11 10cm	6	メンメンメ	
0 MW-35 111222	11/13/341050 6	2	XXXXX	
0 MW-2125-111232	11/13/24 1/45 6	2	X X X X X X X X X X X X X X X X X X X	
		240-176478 Chain of Custody		
Possible Hazard Identification Non-Hazard — Sammable	cin Irritant Poison B Jaknown	Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Client	Samples are retained longer than 1 month) Lab Archive For Months	
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at Itomalia@cadenaco.com, Cadena #E203728	naco.com. Cadena #E203728			
Level IV Reporting requested.				
Relinquished by: Hailing	Company Compan	1245 Required by: 1, 1/8 St	Storage Company	Date/Time:
Relinquistrol by	Company: Date:Tings & HI/14/72	8980 Received by:	Company	Date/Time: Date/
Relinquished by:	Company. Date Time:	C 917 Referred in Laboratory, by:	At Company It	Date Time:
\$2008. TestAmerica Laboratories, Inc., Al regibs reserved. \$2508. TestAmerica Laboratories in testinomerica in deviationes and testinomerica in deviationes.		>		

via Verbal Voice Mail Other

18. CHAIN OF CUSTODY & SAM	IPLE DISCREPANCIES	additional next page	Samples processed by:
19. SAMPLE CONDITION			
Sample(s)			
Sample(s)		were received	l in a broken container.
Sample(s)		were received	l in a broken container.
Sample(s)		were received	l in a broken container.
Sample(s) Sample(s) Sample(s)	were rec	were received eived with bubble >6 mm i	I in a broken container. in diameter. (Notify PM)

by_

Contacted PM

Concerning

Date

W7-NC-099

Login#: 176478

Cooler Description	Eurofins - Canto	Observed	Corrected	Coolant						
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)						
D Client Box Other	IR-13 IR-15	3.6	3.6	Wetice Blue Ice Dry Water None						
Client Box Other	IR-13 R-15	2.0	0.0	Werlick Blue Ice Dry Water None						
TA Client Box Other	IR-13 UE-18	1.6	1.6	Wehlze Blue Ice Dry Water None						
TA Client Box Other	IR-13 IR-15		V 2	Wet Ice Blue Ice Dry Water None						
TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry Water None						
TA Client Sox Other	IR-13 IR-15			Wet ice Blue ice Dry						
TA Client Box Other	IR-13 IR-15			Wellice Blue Ice Dry						
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TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry						
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry						
TA Client Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dry						
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry						
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry						
TA Client Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dry						
TA Client Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dry						
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TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry						
TA Client Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dry						
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TA Client Box Other	IR-13 IR-15			Water None Wetice Sive ice Dry						
TA Client Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dry						
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TA Client Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dry						
TA Client Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dry						
IA Client Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dry I						
IA Client Box Other	W-19 W-19		☐ See Ten	Water None						

W1-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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DATA VERIFICATION REPORT



November 30, 2022

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: 30146655.401.03- onsite groundwater Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory submittal: 176478-1 Sample date: 2022-11-12

Report received by CADENA: 2022-11-29

Initial Data Verification completed by CADENA: 2022-11-30

Number of Samples:5

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:

SURROGATE recoveries were outside of laboratory control limits biased HIGH for 1 of 1 surrogates in the tests/samples noted. Associated results were non-detect so were not affected by the high bias and qualification of results was not required. GCMS-SIM VOC samples -002, -003, -005. NOTE: QC batch 552553 LCS high bias surrogate recoveries were not used to qualify field sample results.

MS/MSD recovery outliers or sample duplicate RPD outliers were not determined using a client sample from this submittal for the test and QC batch noted so qualification was not required based on these sample-specific QC outliers: GCMS-SIM VOC QC batch 552553.

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.
В	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 contaminates) 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.
Е	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 contaminates) 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 - Barberton

Laboratory Submittal: 176478-1

		Sample Name: Lab Sample ID:	TRIP BLA 2401764	_			2401764				MW-21: 240176	- 1783	22		240176				MW-212 2401764	- 1785	22	
		Sample Date:	11/12/2	022			11/12/2	022			11/12/2	022			11/12/2	022			11/12/2	022		
				Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-8260	מו																					
<u>5511 5250</u>	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		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		2.3	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		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		0.44	1.0	ug/l	J	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		0.65	1.0	ug/l	J	ND	1.0	ug/l		1.2	1.0	ug/l		0.94	1.0	ug/l	J
OSW-8260	DDSIM																					
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l		3.1	2.0	ug/l		ND	2.0	ug/l	