IOWA DEPARTMENT OF NATURAL RESOURCES

REQUEST FOR SPECIAL WASTE AUTHORIZATION

Check one of the following: ☒ **New Application** ☐ **Renewal, Existing SWA #:** _____

The intent of a special waste authorization is to provide safe and proper management for disposal of wastes which present a threat to human health or the environment or a waste with inherent properties which make the disposal of the waste in a sanitary landfill difficult to manage. It is each landfill's responsibility to inform the waste generator if a waste should be handled as a special waste and to ensure that special wastes delivered to the landfill conform to the Special Waste Acceptance Criteria (SWAC) on file with the Department. It is the Department's responsibility to review each application for a special waste authorization to verify that the proposed waste can be landfilled under the current regulations in Iowa.

READ THE FOLLOWING INSTRUCTIONS BEFORE COMPLETING THIS APPLICATION

Waste Generator:

1. Complete Sections 1-3 of this application applicable to the waste characterization and disposal information.
2. Attach Toxicity Characteristic Leaching Procedure (TCLP) test results, material safety data sheet(s) (MSDS), or evidence of "processor knowledge" when appropriate that demonstrates the waste is not considered a characteristic hazardous waste exhibiting the properties of flammability, corrosivity, reactivity or toxicity or a listed hazardous waste as defined in 40 CFR Part 261, Subpart D.
3. Provide signature in Section 3 to verify that the information provided is true, accurate and complete.
4. Mail or deliver the completed application with attachments to the requested disposal destination (*must be a landfill that is authorized to accept waste from the service area of where the waste was generated*). Please contact Sue Johnson at (515) 217-0872 for a list of landfills authorized to accept waste from the service area in which your facility is located.

Receiving Landfill: Prior review of this application by the receiving landfill allows the department to more quickly process and evaluate the application.

1. Complete Section 5 of this application applicable to the landfill.
2. Indicate by signing the application that the landfill is willing to accept the waste if a Special Waste Authorization is issued by the department and if instructions for disposal of the waste, as contained in the landfill's SWAC, are followed by the generator.
3. Attach SWAC procedures for disposal of the waste.
4. Keep 1 copy for your records and submit the remaining one copy of the completed application with attachments (TCLP, MSDS, SWAC, etc.) to the department at the following address, or email to susan.johnson@dnr.iowa.gov:

   Iowa Department of Natural Resources
   Land Quality Bureau- Attn: Susan Johnson
   6200 Park Ave Ste 200
   Des Moines, IA 50321

Applications will be considered incomplete if not signed by both the waste generator and receiving landfill. The receiving landfill must attach a copy of the SWAC for the particular waste for which the application has been submitted.

Written notification of approval or rejection will be mailed or emailed to the generator and landfill. If approved, a copy of the authorization must accompany the waste hauler to the landfill.

For questions concerning this application contact Sue Johnson at (515) 217-0872 or susan.johnson@dnr.iowa.gov.

SECTION 1: WASTE GENERATOR INFORMATION

Name of Primary Contact* Mike McNulty **Title** Environmental Manager

SWA approvals will be sent to this person at the address provided below.

Company Name ITC Holdings - ITC Midwest Rudd Junction

Mailing Address 27175 Energy Way

City Novi **State** MI **Zip Code** 48377

Telephone # 248-946-3392 **Email Address** mmcnulty@itctransco.com

Address or location of the point of generation of the waste, if different from the company address:

Address ITC Midwest Rudd Junction Substation, 1640 Lancer Ave

City Floyd **State** IA **Zip Code** 50435

SECTION 2: WASTE CHARACTERIZATION

Waste determined to be hazardous may not be landfilled in Iowa. Attach TCLP analysis that demonstrates the waste is not considered hazardous. For raw or virgin materials being disposed of, a MSDS that indicates the waste is not hazardous may be submitted in lieu of a TCLP analysis.

The generator may also apply knowledge of the hazardous characteristic(s) of the waste in light of the materials or the processes used ("knowledge of process"). In order to use knowledge to characterize the waste, the knowledge that is applied must be valid and verifiable and the generator must be able to demonstrate the basis for their claim by providing supporting information to justify that conclusion.

Name and description of waste. Please address any RCRA listings derived from wastes etc., that may be applicable and why these listings would not pertain to the waste:

Soil generated from construction activities at an electrical substation.
See MPC Sample # MW7671.

Has any pretreatment been utilized? If so, please describe the pretreatment process:

No.

List the alternatives to disposal that were analyzed and reason not utilized (*attach extra sheets if necessary*):

Per ITC Policy - all soil from within substation fence lines must be disposed at a landfill. If soil exceeds total petroleum hydrocarbon criteria, ITC understands the soil may need to be land farmed at the landfill prior to landfill disposal. ITC Policy prohibits soil from electrical substations to be used for any beneficial re-use.

Physical state at room temperature? ☒ **Solid** ☐ **Semi-Solid** ☐ **Liquid**

Percent (%) Solid: 100 **pH:** n/a **Flashpoint:** n/a

Does this waste pass the paint filter liquids test?
Free liquids are prohibited from landfill disposal. Free liquids are defined as the liquid produced when a 100-millimeter or 100-gram representative sample is placed on a standard mesh number 60 (fine mesh size) conical paint filter for five minutes. ☒ Yes ☐ No

Is this waste a listed hazardous waste as identified in 40 CFR 261, Subpart D? Refer to the following web link to find listed hazardous wastes: http://www.gpoaccess.gov/cfr/index.html ☐ Yes ☒ No

Does this waste exhibit the property of *ignitability* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

Does this waste exhibit the property of *corrosivity* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

Does this waste exhibit the property of *reactivity* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

Does this waste exhibit the property of *toxicity* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

SECTION 3: WASTE DISPOSAL INFORMATION

Indicate the proposed disposal location and if this is a request for an ongoing disposal of a special waste or a one-time disposal. If on going, indicate the approximate amount in pounds to be disposed of quarterly.

Landfill Name* Floyd Mitchell Chickasaw Landfill

List only a landfill that is authorized to accept waste from the service area of where the waste was generated. Sue Johnson at (515) 217-0872 or susan.johnson@dnr.iowa.gov for a list of landfills authorized to accept waste from your facility.

☐ **Ongoing (or intermittent) with an average disposal rate per quarter of** _____ **pounds**

Indicate the amount on hand to be disposed of immediately: _____ **pounds**

☒ **One time only, with an estimated quantity of** 120 tons **pounds**

SECTION 4: WASTE GENERATOR CERTIFICATION

"I certify under penalty of law (§455B.417.1(c), Code of Iowa) that I have examined and am familiar with the information submitted in this document concerning hazardous waste, and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete."

Applicant Signature: Fenelon Ashley **Date:** 5/16/25

Printed Name: Fenelon Ashley **Title:** MPC Compliance Department

See Landfill Information on the following page.

SECTION 5: LANDFILL INFORMATION

The following section is to be completed by the receiving landfill. By signing below, the landfill verifies that the application has been examined and if approved by the department, is willing to accept the waste described within, provided that instructions for disposal of the waste, as contained in the landfill's Special Waste Acceptance Criteria, are followed by the generator.

Prior review of this application by the receiving landfill will allow the department to more quickly process and evaluate the application. Please address the following:

Indicate the properties that lead you to believe this is a special waste:

Indicate any special handling procedures that the waste generator must follow prior to delivery at the landfill:

Name of Responsible Official*: Christian Fox

SWA approvals will be sent to this person at the address given below.

Solid Waste Agency Name Floyd Mitchell Chickasaw Solid Waste Management Agency

Mailing Address 3354 330th street

City Elma **State** Iowa **Zip Code** 50628

Telephone # 641-982-4288 **Email Address** fmclandfill73@gmail.com

Responsible Official Signature: [signature] **Date:** 5/19/2025

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Roland Newton
Marine Pollution Control Corp
8631 W Jefferson Avenue
Detroit, Michigan 48209-2691

Generated 4/25/2025 1:38:30 AM

JOB DESCRIPTION

Rudd Junction

JOB NUMBER

310-304134-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report was automatically generated by Eurofins Cedar Falls LIMS system, after peer review by each individual department. If you notice any issues please contact your project manager or call the lab at 319-277-2401.

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

Generated
4/25/2025 1:38:30 AM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

Table of Contents

Job ID: 310-304134-1 — Eurofins Cedar Falls

Job Narrative
310-304134-1

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 sample was received on 4/14/2025 11:38 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

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

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

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

Metals
Method 6010D - TCLP: The continuing calibration verification (CCV) associated with batch 310-452537 recovered above the upper control limit for selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Sample Summary

Client: Marine Pollution Control Corp
Project/Site: Rudd Junction

Job ID: 310-304134-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-304134-1	MW7671	Solid	04/14/25 11:15	04/14/25 11:38

Detection Summary

Client: Marine Pollution Control Corp
Project/Site: Rudd Junction

Job ID: 310-304134-1

Client Sample ID: MW7671

Lab Sample ID: 310-304134-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.511		0.200		mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW7671
Date Collected: 04/14/25 11:15
Date Received: 04/14/25 11:38

Lab Sample ID: 310-304134-1
Matrix: Solid

Method: Iowa DNR OA-1 (GC) - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0955		0.0955		mg/Kg		04/18/25 11:03	04/18/25 19:44	1
Toluene	<0.0955		0.0955		mg/Kg		04/18/25 11:03	04/18/25 19:44	1
Ethylbenzene	<0.0955		0.0955		mg/Kg		04/18/25 11:03	04/18/25 19:44	1
Xylenes, Total	<0.287		0.287		mg/Kg		04/18/25 11:03	04/18/25 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*47 - 150*	*04/18/25 11:03*	*04/18/25 19:44*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0481	F1	0.0481		mg/Kg		04/23/25 08:13	04/23/25 19:59	1
PCB-1221	<0.0481		0.0481		mg/Kg		04/23/25 08:13	04/23/25 19:59	1
PCB-1232	<0.0481		0.0481		mg/Kg		04/23/25 08:13	04/23/25 19:59	1
PCB-1242	<0.0481		0.0481		mg/Kg		04/23/25 08:13	04/23/25 19:59	1
PCB-1248	<0.0481		0.0481		mg/Kg		04/23/25 08:13	04/23/25 19:59	1
PCB-1254	<0.0481		0.0481		mg/Kg		04/23/25 08:13	04/23/25 19:59	1
PCB-1260	<0.0481		0.0481		mg/Kg		04/23/25 08:13	04/23/25 19:59	1
PCB-1268	<0.0481		0.0481		mg/Kg		04/23/25 08:13	04/23/25 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*10 - 150*	*04/23/25 08:13*	*04/23/25 19:59*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*12 - 127*	*04/23/25 08:13*	*04/23/25 19:59*	*1*

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<9.38		9.38		mg/Kg		04/17/25 12:07	04/21/25 14:45	1
Diesel	<9.38		9.38		mg/Kg		04/17/25 12:07	04/21/25 14:45	1
Waste Oil	<9.38		9.38		mg/Kg		04/17/25 12:07	04/21/25 14:45	1
Total Extractable Hydrocarbons	<14.1		14.1		mg/Kg		04/17/25 12:07	04/21/25 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*78*		*12 - 150*	*04/17/25 12:07*	*04/21/25 14:45*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.100		0.100		mg/L		04/23/25 09:30	04/23/25 15:56	1
Barium	**0.511**		0.200		mg/L		04/23/25 09:30	04/23/25 15:56	1
Cadmium	<0.0200		0.0200		mg/L		04/23/25 09:30	04/23/25 15:56	1
Chromium	<0.0200		0.0200		mg/L		04/23/25 09:30	04/23/25 15:56	1
Lead	<0.100		0.100		mg/L		04/23/25 09:30	04/23/25 15:56	1
Selenium	<0.100	^+	0.100		mg/L		04/23/25 09:30	04/23/25 15:56	1
Silver	<0.0500		0.0500		mg/L		04/23/25 09:30	04/23/25 15:56	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		04/23/25 09:29	04/23/25 13:36	1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

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

Surrogate Summary

Client: Marine Pollution Control Corp
Project/Site: Rudd Junction

Job ID: 310-304134-1

Method: OA-1 (GC) - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB							
Lab Sample ID	Client Sample ID	(47-150)							
310-304134-1	MW7671	112							
LCS 310-452019/2-A	Lab Control Sample	114							
MB 310-452019/1-A	Method Blank	114							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB2	TCX2						
Lab Sample ID	Client Sample ID	(10-150)	(12-127)						
310-304134-1	MW7671	80	90						
310-304134-1 MS	MW7671	88	94						
310-304134-1 MSD	MW7671	85	97						
LCS 310-452403/2-A	Lab Control Sample	91	97						
MB 310-452403/1-A	Method Blank	93	96						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		OTCN							
Lab Sample ID	Client Sample ID	(12-150)							
310-304134-1	MW7671	78							
LCS 310-451905/2-A	Lab Control Sample	101							
MB 310-451905/1-A	Method Blank	94							

Surrogate Legend

OTCN = n-Octacosane

Method: OA-1 (GC) - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 310-452019/1-A
Matrix: Solid
Analysis Batch: 452036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 452019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0964		0.0964		mg/Kg		04/18/25 11:03	04/18/25 13:41	1
Toluene	<0.0964		0.0964		mg/Kg		04/18/25 11:03	04/18/25 13:41	1
Ethylbenzene	<0.0964		0.0964		mg/Kg		04/18/25 11:03	04/18/25 13:41	1
Xylenes, Total	<0.289		0.289		mg/Kg		04/18/25 11:03	04/18/25 13:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*47 - 150*	*04/18/25 11:03*	*04/18/25 13:41*	*1*

Lab Sample ID: LCS 310-452019/2-A
Matrix: Solid
Analysis Batch: 452036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.85	1.644		mg/Kg		89	67 - 133
Toluene	1.85	1.608		mg/Kg		87	67 - 130
Ethylbenzene	1.85	1.623		mg/Kg		88	64 - 135
Xylenes, Total	5.54	4.884		mg/Kg		88	63 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*47 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 310-452403/1-A
Matrix: Solid
Analysis Batch: 452485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 452403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0488		0.0488		mg/Kg		04/23/25 08:13	04/23/25 19:08	1
PCB-1221	<0.0488		0.0488		mg/Kg		04/23/25 08:13	04/23/25 19:08	1
PCB-1232	<0.0488		0.0488		mg/Kg		04/23/25 08:13	04/23/25 19:08	1
PCB-1242	<0.0488		0.0488		mg/Kg		04/23/25 08:13	04/23/25 19:08	1
PCB-1248	<0.0488		0.0488		mg/Kg		04/23/25 08:13	04/23/25 19:08	1
PCB-1254	<0.0488		0.0488		mg/Kg		04/23/25 08:13	04/23/25 19:08	1
PCB-1260	<0.0488		0.0488		mg/Kg		04/23/25 08:13	04/23/25 19:08	1
PCB-1268	<0.0488		0.0488		mg/Kg		04/23/25 08:13	04/23/25 19:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*10 - 150*	*04/23/25 08:13*	*04/23/25 19:08*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*12 - 127*	*04/23/25 08:13*	*04/23/25 19:08*	*1*

Lab Sample ID: LCS 310-452403/2-A
Matrix: Solid
Analysis Batch: 452485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.329	0.2818		mg/Kg		86	35 - 128
PCB-1260	0.329	0.2915		mg/Kg		89	38 - 128

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	91		10 - 150
Tetrachloro-m-xylene (Surr)	97		12 - 127

Lab Sample ID: 310-304134-1 MS — **Client Sample ID: MW7671**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 452485 — **Prep Batch: 452403**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.0481	F1	0.332	0.5267	F1	mg/Kg		159	10 - 150
PCB-1260	<0.0481		0.332	0.2794		mg/Kg		84	10 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	88		10 - 150
Tetrachloro-m-xylene (Surr)	94		12 - 127

Lab Sample ID: 310-304134-1 MSD — **Client Sample ID: MW7671**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 452485 — **Prep Batch: 452403**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.0481	F1	0.321	0.5153	F1	mg/Kg		160	10 - 150	2	40
PCB-1260	<0.0481		0.321	0.3266		mg/Kg		102	10 - 150	16	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	85		10 - 150
Tetrachloro-m-xylene (Surr)	97		12 - 127

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 310-451905/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 452119 — **Prep Batch: 451905**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<9.85		9.85		mg/Kg		04/17/25 12:07	04/21/25 09:50	1
Diesel	<9.85		9.85		mg/Kg		04/17/25 12:07	04/21/25 09:50	1
Waste Oil	<9.85		9.85		mg/Kg		04/17/25 12:07	04/21/25 09:50	1
Total Extractable Hydrocarbons	<14.8		14.8		mg/Kg		04/17/25 12:07	04/21/25 09:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	94		12 - 150	04/17/25 12:07	04/21/25 09:50	1

Lab Sample ID: LCS 310-451905/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 452119 — **Prep Batch: 451905**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel	129	107.1		mg/Kg		83	54 - 121

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 310-451905/2-A
Matrix: Solid
Analysis Batch: 452119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 451905

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*101*		*12 - 150*

Method: 6010D - Metals (ICP)

Lab Sample ID: 310-304134-1 MS
Matrix: Solid
Analysis Batch: 452537

Client Sample ID: MW7671
Prep Type: TCLP
Prep Batch: 452330

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.100		4.00	4.123		mg/L		103	75 - 125
Barium	0.511		2.00	2.436		mg/L		96	75 - 125
Cadmium	<0.0200		2.00	1.800		mg/L		90	75 - 125
Chromium	<0.0200		2.00	1.835		mg/L		92	75 - 125
Lead	<0.100		4.00	3.596		mg/L		90	75 - 125
Selenium	<0.100	^+	8.00	8.194	^+	mg/L		102	75 - 125
Silver	<0.0500		2.00	2.112		mg/L		106	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-452215/1-B
Matrix: Solid
Analysis Batch: 452500

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 452285

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		04/23/25 09:29	04/23/25 13:32	1

Lab Sample ID: LCS 310-452215/2-B
Matrix: Solid
Analysis Batch: 452500

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 452285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0167	0.01680		mg/L		101	80 - 120

Lab Sample ID: 310-304134-1 MS
Matrix: Solid
Analysis Batch: 452500

Client Sample ID: MW7671
Prep Type: TCLP
Prep Batch: 452285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00200		0.0167	0.01655		mg/L		99	80 - 120

QC Association Summary

Client: Marine Pollution Control Corp
Project/Site: Rudd Junction

Job ID: 310-304134-1

GC VOA

Prep Batch: 452019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	Total/NA	Solid	5030B	
MB 310-452019/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 310-452019/2-A	Lab Control Sample	Total/NA	Solid	5030B	

Analysis Batch: 452036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	Total/NA	Solid	OA-1 (GC)	452019
MB 310-452019/1-A	Method Blank	Total/NA	Solid	OA-1 (GC)	452019
LCS 310-452019/2-A	Lab Control Sample	Total/NA	Solid	OA-1 (GC)	452019

GC Semi VOA

Prep Batch: 451905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	Total/NA	Solid	3546	
MB 310-451905/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-451905/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 452119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	Total/NA	Solid	OA-2	451905
MB 310-451905/1-A	Method Blank	Total/NA	Solid	OA-2	451905
LCS 310-451905/2-A	Lab Control Sample	Total/NA	Solid	OA-2	451905

Prep Batch: 452403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	Total/NA	Solid	3546	
MB 310-452403/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-452403/2-A	Lab Control Sample	Total/NA	Solid	3546	
310-304134-1 MS	MW7671	Total/NA	Solid	3546	
310-304134-1 MSD	MW7671	Total/NA	Solid	3546	

Analysis Batch: 452485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	Total/NA	Solid	8082A	452403
MB 310-452403/1-A	Method Blank	Total/NA	Solid	8082A	452403
LCS 310-452403/2-A	Lab Control Sample	Total/NA	Solid	8082A	452403
310-304134-1 MS	MW7671	Total/NA	Solid	8082A	452403
310-304134-1 MSD	MW7671	Total/NA	Solid	8082A	452403

Metals

Leach Batch: 452215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	TCLP	Solid	1311	
LB 310-452215/1-B	Method Blank	TCLP	Solid	1311	
LCS 310-452215/2-B	Lab Control Sample	TCLP	Solid	1311	
310-304134-1 MS	MW7671	TCLP	Solid	1311	

Prep Batch: 452285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	TCLP	Solid	7470A	452215

Metals (Continued)

Prep Batch: 452285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-452215/1-B	Method Blank	TCLP	Solid	7470A	452215
LCS 310-452215/2-B	Lab Control Sample	TCLP	Solid	7470A	452215
310-304134-1 MS	MW7671	TCLP	Solid	7470A	452215

Prep Batch: 452330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	TCLP	Solid	3010A	452215
310-304134-1 MS	MW7671	TCLP	Solid	3010A	452215

Analysis Batch: 452500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	TCLP	Solid	7470A	452285
LB 310-452215/1-B	Method Blank	TCLP	Solid	7470A	452285
LCS 310-452215/2-B	Lab Control Sample	TCLP	Solid	7470A	452285
310-304134-1 MS	MW7671	TCLP	Solid	7470A	452285

Analysis Batch: 452537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304134-1	MW7671	TCLP	Solid	6010D	452330
310-304134-1 MS	MW7671	TCLP	Solid	6010D	452330

Lab Chronicle

Client: Marine Pollution Control Corp
Job ID: 310-304134-1
Project/Site: Rudd Junction

Client Sample ID: MW7671
Lab Sample ID: 310-304134-1

Date Collected: 04/14/25 11:15
Matrix: Solid

Date Received: 04/14/25 11:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030B			452019	MZR8	EET CF	04/18/25 11:03
Total/NA	Analysis	OA-1 (GC)		1	452036	MZR8	EET CF	04/18/25 19:44
Total/NA	Prep	3546			452403	BDJ4	EET CF	04/23/25 08:13
Total/NA	Analysis	8082A		1	452485	BW2O	EET CF	04/23/25 19:59
Total/NA	Prep	3546			451905	BDJ4	EET CF	04/17/25 12:07
Total/NA	Analysis	OA-2		1	452119	C3AA	EET CF	04/21/25 14:45
TCLP	Leach	1311			452215	U8FK	EET CF	04/21/25 14:30 - 04/22/25 07:00 [1]
TCLP	Prep	3010A			452330	QTZ5	EET CF	04/23/25 09:30
TCLP	Analysis	6010D		1	452537	ZRI4	EET CF	04/23/25 15:56
TCLP	Leach	1311			452215	U8FK	EET CF	04/21/25 14:30 - 04/22/25 07:00 [1]
TCLP	Prep	7470A			452285	F5MW	EET CF	04/23/25 09:29
TCLP	Analysis	7470A		1	452500	F5MW	EET CF	04/23/25 13:36

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: Marine Pollution Control Corp
Project/Site: Rudd Junction

Job ID: 310-304134-1

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	PCB-1268

Kansas	NELAP	E-10341	01-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
OA-1 (GC)	5030B	Solid	Benzene
OA-1 (GC)	5030B	Solid	Ethylbenzene
OA-1 (GC)	5030B	Solid	Toluene
OA-1 (GC)	5030B	Solid	Xylenes, Total
OA-2	3546	Solid	Diesel
OA-2	3546	Solid	Gasoline
OA-2	3546	Solid	Total Extractable Hydrocarbons
OA-2	3546	Solid	Waste Oil

Method Summary

Client: Marine Pollution Control Corp
Job ID: 310-304134-1
Project/Site: Rudd Junction

Method	Method Description	Protocol	Laboratory
OA-1 (GC)	Volatile Petroleum Hydrocarbons (GC)	Iowa DNR	EET CF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
OA-2	Iowa - Extractable Petroleum Hydrocarbons (GC)	Iowa DNR	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
3546	Microwave Extraction	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF

Protocol References:

Iowa DNR = Iowa Department of Natural Resources

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

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

eurofins | Environment Testing America

310-304134 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: MPC

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 4/14/25 | TIME 1138 | Received By: R

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☒ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☒ Yes	☐ No	*If yes:* Cooler ID
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # _____ of _____
Cooler Custody Seals Present? No	☐ Yes	☒ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐
Sample Custody Seals Present? No	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐
Trip Blank Present?	☐ Yes	☒ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID: D | Correction Factor (°C): +0.5

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.6 | Corrected Temp (°C): 0.6

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

LABORATORY/CHAIN OF CUSTODY

DATE. April 14, 2025 TIME. 12:15

MPC ENVIRONMENTAL
DIVISION OF MARINE POLLUTION CONTROL
8631 WEST JEFFERSON DETROIT, MI 48209
(313) 849-2333 FAX (313) 849-1623

LAB# Eurofins

PROJECT NAME Rudd Junction

SAMPLERS: F. Oberg

P.O # C93350

TAT Standard

COMMENTS

SAMPLE #	IDENTIFICATION	PRESERVATIVE	OA-1	OA-2	PCB	TCLP Metals (RCRA)		
MW 7671	Composite Soil	Cool 4°C	X	X	X	X		

Relinquished by: (Signature) — Date/Time 4/14/25 11:38 — Received by (Signature)

Relinquished by (Signature) — Relinquished by (Signature) — Date/Time — Received by (Signature)

Relinquished by: (Signature) — Date/Time — Received by: (Signature) — Relinquished by (Signature) — Date/Time — Received by (Signature)

Relinquished by: (Signature) — Date/Time — Received for Laboratory by (Signature) — Date/Time 4/14/25 1138 — Remarks

4/25/2025

Login Sample Receipt Checklist

Client: Marine Pollution Control Corp

Job Number: 310-304134-1
SDG Number:

Login Number: 304134
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	