MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERG

**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

11 December 2019

Work Order: 1912059

Price: $2,316.00

Micky Leonard
EGLE-WRD-LANSING
525 W. Allegan, P.O. Box 30242
Lansing, MI 48909-7742

RE: REVERE COPPER & BRASS

This is the official environmental laboratory report for testing conducted by the Michigan Department of Environment, Great Lakes, and Energy. Analyses performed by the laboratory were conducted using methods published by the U.S. Environmental Protection Agency, Standard Methods for the Examination of Water and Wastewater, ASTM, or other published or approved reference methods.

Kirby Shane
Laboratory Director

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EGLE-WRD-LANSING	Project: REVERE COPPER & BRASS	
525 W. Allegan, P.O. Box 30242	Site Code: MI00	**Reported:**
Lansing MI, 48909-7742	Project Manager: Micky Leonard	12/11/2019

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
Upstream	1912059-01	Water	12/06/2019	12/06/2019	
Site	1912059-02	Water	12/06/2019	12/06/2019	
Downstream	1912059-03	Water	12/06/2019	12/06/2019	

Notes and Definitions

X	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 ºC. 2-Methylnaphthalene & naphthalene have boiling points above 200 ºC and are better suited to analysis by methods 8270 & 625 as semivolatile organics.
A11	Result is estimated due to high initial verification standard criteria failure.
ND	Indicates compound analyzed for but not detected at or above the reporting limit (RL).
RL	Reporting Limit
NA	Not Applicable

Case Narrative

Priority Samples

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Client ID: Upstream

Lab ID: 1912059-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	12/09/19	B9L0901	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	

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Organics-Volatiles									
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	12/09/19	B9L0901	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	12/09/19	B9L0901	8260	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
Surrogate: Bromofluorobenzene			*108 %*	*85-115*		*12/09/19*	B9L0901	*8260*	
Surrogate: Dibromofluoromethane			*97.0 %*	*82.7-115*		*12/09/19*	B9L0901	*8260*	
Surrogate: Toluene-d8			*107 %*	*85-115*		*12/09/19*	B9L0901	*8260*	

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Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11104-28-2	Aroclor 1221	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11141-16-5	Aroclor 1232	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
53469-21-9	Aroclor 1242	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
12672-29-6	Aroclor 1248	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11097-69-1	Aroclor 1254	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11096-82-5	Aroclor 1260	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
37324-23-5	Aroclor 1262	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11100-14-4	Aroclor 1268	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
Surrogate: Decachlorobiphenyl			*84.9 %*	*30-150*		*12/09/19*	B9L0615	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*54.0 %*	*30-150*		*12/09/19*	B9L0615	*8081/8082*	
Inorganics-General Chemistry									
TSS	**Total Suspended Solids**	**8**	4	mg/L	1	12/09/19	B9L0910	2540 D	
Inorganics-Metals									
7440-38-2	Arsenic	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-39-3	**Barium**	**16**	5.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-43-9	Cadmium	ND	0.2	ug/L	1	12/10/19	B9L0609	200.8	
7440-47-3	Chromium	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-50-8	Copper	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7439-92-1	Lead	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7439-97-6	Mercury	ND	0.2	ug/L	1	12/10/19	B9L0904	245.1	
7782-49-2	Selenium	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-22-4	Silver	ND	0.2	ug/L	1	12/10/19	B9L0609	200.8	
7440-61-1	Uranium	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-66-6	Zinc	ND	5.0	ug/L	1	12/10/19	B9L0609	200.8	

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Client ID: Site

Lab ID: 1912059-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	12/09/19	B9L0901	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	

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CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	12/09/19	B9L0901	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	12/09/19	B9L0901	8260	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
Surrogate: Bromofluorobenzene			*104 %*	*85-115*		*12/09/19*	B9L0901	*8260*	
Surrogate: Dibromofluoromethane			*95.7 %*	*82.7-115*		*12/09/19*	B9L0901	*8260*	
Surrogate: Toluene-d8			*104 %*	*85-115*		*12/09/19*	B9L0901	*8260*	

Lab Work Order # 1912059

MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: Site

Lab ID: 1912059-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11104-28-2	Aroclor 1221	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11141-16-5	Aroclor 1232	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
53469-21-9	Aroclor 1242	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
12672-29-6	Aroclor 1248	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11097-69-1	Aroclor 1254	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11096-82-5	Aroclor 1260	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
37324-23-5	Aroclor 1262	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11100-14-4	Aroclor 1268	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
Surrogate: Decachlorobiphenyl			*89.2 %*	*30-150*		*12/09/19*	B9L0615	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*65.0 %*	*30-150*		*12/09/19*	B9L0615	*8081/8082*	
Inorganics-General Chemistry									
TSS	**Total Suspended Solids**	**7**	4	mg/L	1	12/09/19	B9L0910	2540 D	
Inorganics-Metals									
7440-38-2	Arsenic	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-39-3	**Barium**	**16**	5.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-43-9	Cadmium	ND	0.2	ug/L	1	12/10/19	B9L0609	200.8	
7440-47-3	Chromium	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-50-8	Copper	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7439-92-1	Lead	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7439-97-6	Mercury	ND	0.2	ug/L	1	12/10/19	B9L0904	245.1	
7782-49-2	Selenium	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-22-4	Silver	ND	0.2	ug/L	1	12/10/19	B9L0609	200.8	
7440-61-1	Uranium	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-66-6	Zinc	ND	5.0	ug/L	1	12/10/19	B9L0609	200.8	

MICHIGAN DEPARTMENT OF
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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: Downstream

Lab ID: 1912059-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	12/09/19	B9L0901	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	

MICHIGAN DEPARTMENT OF
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ENVIRONMENTAL LABORATORY

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Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: Downstream

Lab ID: 1912059-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	12/09/19	B9L0901	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	12/09/19	B9L0901	8260	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	12/09/19	B9L0901	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	12/09/19	B9L0901	8260	
Surrogate: Bromofluorobenzene			*108 %*	*85-115*		*12/09/19*	B9L0901	*8260*	
Surrogate: Dibromofluoromethane			*98.9 %*	*82.7-115*		*12/09/19*	B9L0901	*8260*	
Surrogate: Toluene-d8			*103 %*	*85-115*		*12/09/19*	B9L0901	*8260*	

Lab Work Order # 1912059

MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERG

**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: Downstream

Lab ID: 1912059-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11104-28-2	Aroclor 1221	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11141-16-5	Aroclor 1232	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
53469-21-9	Aroclor 1242	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
12672-29-6	Aroclor 1248	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11097-69-1	Aroclor 1254	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11096-82-5	Aroclor 1260	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
37324-23-5	Aroclor 1262	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
11100-14-4	Aroclor 1268	ND	0.10	ug/L	1	12/09/19	B9L0615	8081/8082	
Surrogate: Decachlorobiphenyl			*92.8 %*	*30-150*		*12/09/19*	B9L0615	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*60.0 %*	*30-150*		*12/09/19*	B9L0615	*8081/8082*	
Inorganics-General Chemistry									
TSS	**Total Suspended Solids**	**8**	4	mg/L	1	12/09/19	B9L0910	2540 D	
Inorganics-Metals									
7440-38-2	Arsenic	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-39-3	**Barium**	**16**	5.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-43-9	Cadmium	ND	0.2	ug/L	1	12/10/19	B9L0609	200.8	
7440-47-3	Chromium	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-50-8	Copper	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7439-92-1	Lead	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7439-97-6	Mercury	ND	0.2	ug/L	1	12/10/19	B9L0904	245.1	
7782-49-2	Selenium	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-22-4	Silver	ND	0.2	ug/L	1	12/10/19	B9L0609	200.8	
7440-61-1	Uranium	ND	1.0	ug/L	1	12/10/19	B9L0609	200.8	
7440-66-6	Zinc	ND	5.0	ug/L	1	12/10/19	B9L0609	200.8	

Michigan Department of Environmental Quality
Laboratory Services Section

Analysis Request Sheet

PRIORITY

Lab Work Order Number	Project Name	Matrix
1912059	Revere Copper & Brass	WASTE WATER

Site Code/Project Number	AY	CC Email 1	Project TAT Days	Sample Collector
MI00	19	petersj2@michigan.gov	3	Micky Leonard
Dept-Division-District	**Index**	**CC Email 2**	**Project Due Date**	**Sample Collector Phone**
DEQ-WRD-FOS-PSM	761NPDP3	steffler m@michigan.gov		248-763-1635
State Project Manager	**PCA**	**CC Email 3**		**Contract Firm**
Micky Leonard	~~8400~~ 8490		**Accept Analysis hold time codes**	
State Project Manager Email	**Project**	**Overflow Lab Choice 1**		**Contract Firm Primary Contact**
leonardm4@michigan.gov	C0__			
State Project Manager Phone	**Phase**	**Overflow Lab Choice 2**		**Primary Contact Phone**
248-763-1635				

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01	Upstream	12/6/19	12:50		
2	02	Site	12/6/19	13:08		
3	03	Downstream	12/6/19	13:20		
4						
5						
6						
7						
8						
9						
10						

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic
- Volatiles - Full List: (1) (2) (3) 4 5 6 7 8 9 10
- BTEX/MTBE/TMB only: 1 2 3 4 5 6 7 8 9 10
- Chlorinated only: 1 2 3 4 5 6 7 8 9 10

ON - Pesticides, PCBs
- Scan 3 (No PCBs): 1 2 3 4 5 6 7 8 9 10
- PCBs: (1) (2) (3) 4 5 6 7 8 9 10

BNA - Base Neutral Acids
- BNAs: 1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests
- Library search - Volatiles: 1 2 3 4 5 6 7 8 9 10
- Library search - SemiVols: 1 2 3 4 5 6 7 8 9 10
- Finger Print: 1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

- OpMemo2 - Total: 1 2 3 4 5 6 7 8 9 10
- OpMemo2 - Dissolved: 1 2 3 4 5 6 7 8 9 10
  (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)
- Michigan10 - Total: (1) (2) (3) 4 5 6 7 8 9 10
- Michigan10 - Dissolved: 1 2 3 4 5 6 7 8 9 10
  (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)

MAD - DISSOLVED METALS

- Diss - Silver - Ag: 1 2 3 4 5 6 7 8 9 10
- Diss - Aluminum - Al: 1 2 3 4 5 6 7 8 9 10
- Diss - Arsenic - As: 1 2 3 4 5 6 7 8 9 10
- Diss - Boron - B: 1 2 3 4 5 6 7 8 9 10
- Diss - Barium - Ba: 1 2 3 4 5 6 7 8 9 10
- Diss - Beryllium - Be: 1 2 3 4 5 6 7 8 9 10
- Diss - Cadmium - Cd: 1 2 3 4 5 6 7 8 9 10
- Diss - Cobalt - Co: 1 2 3 4 5 6 7 8 9 10
- Diss - Chromium - Cr: 1 2 3 4 5 6 7 8 9 10
- Diss - Copper - Cu: 1 2 3 4 5 6 7 8 9 10
- Diss - Iron - Fe: 1 2 3 4 5 6 7 8 9 10
- Diss - Mercury - Hg: 1 2 3 4 5 6 7 8 9 10
- Diss - Lithium - Li: 1 2 3 4 5 6 7 8 9 10
- Diss - Manganese - Mn: 1 2 3 4 5 6 7 8 9 10
- Diss - Molybdenum - Mo: 1 2 3 4 5 6 7 8 9 10
- Diss - Nickel - Ni: 1 2 3 4 5 6 7 8 9 10
- Diss - Lead - Pb: 1 2 3 4 5 6 7 8 9 10
- Diss - Antimony - Sb: 1 2 3 4 5 6 7 8 9 10
- Diss - Selenium - Se: 1 2 3 4 5 6 7 8 9 10
- Diss - Strontium - Sr: 1 2 3 4 5 6 7 8 9 10
- Diss - Titanium - Ti: 1 2 3 4 5 6 7 8 9 10
- Diss - Thallium - Tl: 1 2 3 4 5 6 7 8 9 10
- Diss - Uranium - U: 1 2 3 4 5 6 7 8 9 10
- Diss - Vanadium - V: 1 2 3 4 5 6 7 8 9 10
- Diss - Zinc - Zn: 1 2 3 4 5 6 7 8 9 10
- Diss - Calcium - Ca: 1 2 3 4 5 6 7 8 9 10
- Diss - Potassium - K: 1 2 3 4 5 6 7 8 9 10
- Diss - Magnesium - Mg: 1 2 3 4 5 6 7 8 9 10
- Diss - Sodium - Na: 1 2 3 4 5 6 7 8 9 10
- Diss - Hardness - Ca, Mg: 1 2 3 4 5 6 7 8 9 10

MD - Metals Dissolved
- Lab Filtration: 1 2 3 4 5 6 7 8 9 10

MA - TOTAL METALS

- Silver - Ag: 1 2 3 4 5 6 7 8 9 10
- Aluminum - Al: 1 2 3 4 5 6 7 8 9 10
- Arsenic - As: 1 2 3 4 5 6 7 8 9 10
- Boron - B: 1 2 3 4 5 6 7 8 9 10
- Barium - Ba: 1 2 3 4 5 6 7 8 9 10
- Beryllium - Be: 1 2 3 4 5 6 7 8 9 10
- Cadmium - Cd: 1 2 3 4 5 6 7 8 9 10
- Cobalt - Co: 1 2 3 4 5 6 7 8 9 10
- Chromium - Cr: 1 2 3 4 5 6 7 8 9 10
- Copper - Cu: 1 2 3 4 5 6 7 8 9 10
- Iron - Fe: 1 2 3 4 5 6 7 8 9 10
- Mercury - Hg: 1 2 3 4 5 6 7 8 9 10
- Lithium - Li: 1 2 3 4 5 6 7 8 9 10
- Manganese - Mn: 1 2 3 4 5 6 7 8 9 10
- Molybdenum - Mo: 1 2 3 4 5 6 7 8 9 10
- Nickel - Ni: 1 2 3 4 5 6 7 8 9 10
- Lead - Pb: 1 2 3 4 5 6 7 8 9 10
- Antimony - Sb: 1 2 3 4 5 6 7 8 9 10
- Selenium - Se: 1 2 3 4 5 6 7 8 9 10
- Strontium - Sr: 1 2 3 4 5 6 7 8 9 10
- Titanium - Ti: 1 2 3 4 5 6 7 8 9 10
- Thallium - Tl: 1 2 3 4 5 6 7 8 9 10
- Uranium - U: (1) (2) (3) 4 5 6 7 8 9 10
- Vanadium - V: 1 2 3 4 5 6 7 8 9 10
- Zinc - Zn: 1 2 3 4 5 6 7 8 9 10
- Calcium - Ca: 1 2 3 4 5 6 7 8 9 10
- Potassium - K: 1 2 3 4 5 6 7 8 9 10
- Magnesium - Mg: 1 2 3 4 5 6 7 8 9 10
- Sodium - Na: 1 2 3 4 5 6 7 8 9 10
- Hardness - Ca, Mg: 1 2 3 4 5 6 7 8 9 10

LHG - Low Level Mercury
- Mercury Low Level - Hg: 1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

- GB Total Cyanide - CN: 1 2 3 4 5 6 7 8 9 10
- GB Amenable Cyanide - CN: 1 2 3 4 5 6 7 8 9 10
- GCN Available Cyanide - CN: 1 2 3 4 5 6 7 8 9 10
- CA Chlorophyll: 1 2 3 4 5 6 7 8 9 10
- GN Ortho Phosphate - OP: 1 2 3 4 5 6 7 8 9 10
- GN Nitrite - NO_2: 1 2 3 4 5 6 7 8 9 10
- GN Nitrate - NO_3 (Calc.): 1 2 3 4 5 6 7 8 9 10
- GN Suspended Solids - SS: (1) (2) (3) 4 5 6 7 8 9 10
- GN Dissolved Solids - TDS: 1 2 3 4 5 6 7 8 9 10
- MN Diss Solids - TDS (Calc.): 1 2 3 4 5 6 7 8 9 10
- GN Turbidity: 1 2 3 4 5 6 7 8 9 10
- MN Total Alkalinity: 1 2 3 4 5 6 7 8 9 10
- MN Bicarb/Carb Alkalinity (includes Total Alkalinity): 1 2 3 4 5 6 7 8 9 10
- MN Chloride - Cl: 1 2 3 4 5 6 7 8 9 10
- MN Fluoride - F: 1 2 3 4 5 6 7 8 9 10
- MN Sulfate - SO4: 1 2 3 4 5 6 7 8 9 10
- MN Chromium 6 - Cr+6: 1 2 3 4 5 6 7 8 9 10
- MN Conductivity: 1 2 3 4 5 6 7 8 9 10
- MN pH: 1 2 3 4 5 6 7 8 9 10
- GA Chem Oxyg Dem - COD: 1 2 3 4 5 6 7 8 9 10
- GA Diss Org Carbon - DOC (FF) (Field - Filtered & Preserved): 1 2 3 4 5 6 7 8 9 10
- GN Diss Org Carbon - DOC (LF) (Lab - Filtered & Preserved): 1 2 3 4 5 6 7 8 9 10
- GA Total Org Carbon - TOC: 1 2 3 4 5 6 7 8 9 10
- GA Ammonia - NH3: 1 2 3 4 5 6 7 8 9 10
- GA Nitrate+Nitrite - NO3+NO2: 1 2 3 4 5 6 7 8 9 10
- GA Kjeldahl Nitrogen - KN: 1 2 3 4 5 6 7 8 9 10
- GA Total Phosphorus - TP: 1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Joshua Peters - EGLE	Melissa Smith	
Signature:	Joshua Peters		12/6/19 1632
Print Name & Org.			
Signature:			
Print Name			