August Mack
ENVIRONMENTAL

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1302 North Meridian St., Suite 300 • Indianapolis, Indiana 46202

July 13, 2023

Mr. Frank Deveau
Taft Stettinius & Hollister LLP
One Indiana Square, Suite 3500
Indianapolis, Indiana

Re: Limited Subsurface Investigation
Jessen Manufacturing
1409 West Beardsley Avenue
Elkhart, Indiana
August Mack Project Number JX1600.740

Dear Mr. Deveau:

August Mack Environmental, Inc. (August Mack) has completed subsurface investigation activities at the above-referenced property ("subject property"). During a recent Phase I Environmental Site Assessment (ESA) performed by August Mack, (August Mack Project No. JX1208.710) the following recognized environmental conditions (RECs) were identified:

- The long-term industrial use of the subject property involving the use of petroleum products and hazardous substances. Historical records indicate the subject property has been developed with a machine shop since the 1920s.

- The presence and unknown source or extent of chlorinated volatile organic compounds (cVOCs) in groundwater identified along the northern boundary of the subject property potentially originating from the upgradient off-site facilities. Three (3) temporary monitoring wells were installed south of W. Beardsley Avenue along the northern boundary of the subject property in 2008 as part of evaluating the extent of groundwater impacts originating from the CTS Corp facility. Tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (DCE) exceeded their respective Indiana Department of

Environmental Management (IDEM) Risk Based Closure Guide (R2) Human Health Published Levels (PLs) in one or more of the samples

The purpose of this investigation was to determine if subsurface conditions on the subject property have been impacted by the RECs identified in the Phase I ESA. This report was prepared at the request of Mr. Frank Deveau with Taft Stettinius & Hollister LLP and may be relied on by Taft Stettinius & Hollister LLP and Jessen Manufacturing Co., Inc.. Reliance on the information and conclusions presented in this report by any other party(ies) is not authorized by August Mack.

SUBSURFACE INVESTIGATION

August Mack mobilized to the subject property on June 21, 2023, to perform the subsurface investigation activities. Prior to completing the borings, ground penetrating radar (GPR), electromagnetic (EM) locating, and other utility locating tools were utilized to clear all boring locations.

A total of seven (7) soil borings (SB-1 through SB-7) were advanced across the subject property using a Geoprobe® direct push sampling system (Geoprobe®). Information regarding boring locations is provided below and boring locations are depicted on **Figure 1**.

- SB-1 through SB-3 were advanced in loading docks and parking areas on the north portion subject property to evaluate the historical and current operations, as well as groundwater conditions on the upgradient side of the property;

- SB-4 and SB-5 were advanced on the southwestern exterior of the subject property building at a location hydraulically downgradient of the current and historical machine shop operations;

- SB-6 was advanced on the west exterior of the subject property building to evaluate the historical and current operations; and,

- SB-7 was advanced in the center of the subject property building in the vicinity of a former trichloroethylene (TCE) degreaser and central to site operations.

Sampling Methodology

Soil borings SB-1 through SB-6 were advanced to a depth of 17-feet below grade (ft bg) or to groundwater whichever came first, using a Geoprobe® sampling system. SB-7 was only advanced to a depth of 1.5 ft bg due to refusal that was caused by dense sand material. The purpose of the borings was to field screen soils, determine geological

conditions, and collect soil and groundwater samples for laboratory analysis. All soil sample intervals were inspected in the field for odors and staining and screened using a photoionization detector (PID). Field screening results and soil lithological information is provided on soil boring logs included as **Attachment A**.

One (1) soil sample interval from SB-1 through SB-3, SB-6 and SB-7 was selected for laboratory analysis based on field inspection observations and screening results. Samples were generally selected from the highest screened, unsaturated interval of each of those borings. Soil samples were submitted to ENVision Laboratories, Inc. (ENVision) located in Indianapolis, Indiana for laboratory analysis of volatile organic compounds (VOCs), semi-VOCs (SVOCs), Resource Conservation Recovery Act (RCRA) 8 Metals, hexavalent chromium, and polychlorinated biphenyls (PCBs). Soil samples from SB-4 and SB-5 were not submitted for laboratory analysis based on the purpose of these borings to evaluate potential down-gradient groundwater impacts, and based on field screening results.

Soil borings SB1 through SB6 were converted into temporary, 1-inch diameter PVC wells to aid in the collection of groundwater samples. Groundwater samples were collected from the temporary wells using a disposable bailer and submitted to ENVision for analysis of VOCs, SVOCs, and dissolved RCRA 8 metal. Due to shallow refusal that was encountered, August Mack was unable to collect a groundwater sample at SB-7.

August Mack field procedures are provided in **Attachment B**.

Field Observations

Inspection of collected soil samples from the borings revealed that the subsurface geology consists primarily of sand to the depths investigated. Saturated conditions were encountered beginning at approximately 4 ft bg at SB-2, and beginning at approximately 8 ft bg at SB-1, SB-3, SB-4, SB-5, and SB-6.

PID measurements collected from SB-1, SB-3, SB-4, and SB-5 were less than 1.1 parts per million (ppm). At SB-2, PID readings up to 127.6 ppm (6 to 8 ft bg) were encountered. At SB-6, PID readings up to 321.9 ppm (2 to 4 ft bg) were encountered; and at SB-7, PID readings up to 25 ppm (1 to 1.5 ft bg) were encountered. Staining was observed at SB-1 from 1 to 4 ft bg and at SB-6 from 1 to 3 ft bg. An odor was identified at SB-2 from 4 to 12 ft bg.

Soil Analytical Results

The soil analytical results were compared to the Indiana Department of Environmental Management (IDEM) Risk-Based Closure Guide (R2) 2023 Long Term Residential Soil Human Health Published Levels (PLs), Long Term Commercial PLs, and Short Term Excavation PLs. The laboratory analysis revealed the following results:

- One (1) or more VOCs, including various petroleum-related VOCs and cVOCs, were detected above the laboratory reporting limits at SB-1, SB-2, SB-6, and SB-7. All detected concentrations were below their respective R2 PLs.

- One (1) or more SVOCs were detected above the laboratory reporting limits at SB-1, SB-3, SB-6, and SB-7.All detected concentrations are below their respective R2 PLs.

- Metals barium and total chromium were detected in all of the soil samples. Additionally, lead was detected in all of the soil samples except for SB-2 (2-4). However, all detected concentrations are below their respective R2 PLs.

- No other constituents of concern were reported above the laboratory reporting limits, which are below their respective R2 PLs.

The soil analytical results are summarized in **Table 1** and a copy of the laboratory analytical report and chain of custody documentation is included in **Attachment C**.

Groundwater Analytical Results

The groundwater analytical results were compared to the IDEM R2 2023 Long-Term Residential PLs. The laboratory analysis revealed the following results:

- Petroleum VOCs n-butylbenzene, sec-butylbenzene, p-isopropyltolune, and n-propylbenzene were detected above the laboratory reporting limits at SB-2, but below their respective R2 PLs.

- One (1) or more of the following cVOCs were detected above the laboratory reporting limits at SB-1, SB-3, and SB-4: PCE, TCE, 1,1,1-trichloroethane (TCA), and cis,1-2-DCE. All were below their respective R2 PLs except for PCE at SB-1 and SB-4; and TCE at SB-1.

- No other constituents of concern were reported above the laboratory reporting limits, which are below their respective R2 PLs.

The groundwater analytical results are summarized in **Table 2** and a copy of the laboratory analytical report and chain of custody documentation is included in **Attachment C**.

SUMMARY AND CONCLUSION

August Mack has completed subsurface investigation activities at 1409 West Beardsley Avenue, Elkhart, Indiana. A total of seven (7) soil borings were advanced across the subject property in order to determine if subsurface conditions have been impacted by the RECs identified in the recent Phase I ESA completed by August Mack related to current and historical industrial operations on the subject property and, the unknown extent of cVOC impacts in groundwater previously identified along the northern boundary.

During field screening activities, evidence of potential impacts including stained soil, odor, and elevated PID readings were encountered in multiple borings at the subject property. Laboratory analysis of shallow soil samples revealed multiple VOCs (including cVOCs), SVOCs, and metals at concentrations above the laboratory reporting limits. However, none were at concentrations exceeding their respective R2 PLs. Laboratory analysis of the groundwater samples revealed PCE and TCE at concentrations above their respective R2 PLs in borings located on the north and east portions of the subject property. Based on the presumed groundwater flow direction, the extent of groundwater impacts potentially extending off-site is unknown. August Mack notes that the exposure pathway to groundwater at the subject property is currently incomplete since groundwater is not used at the subject property and the subject property is connected to the municipal water supply.

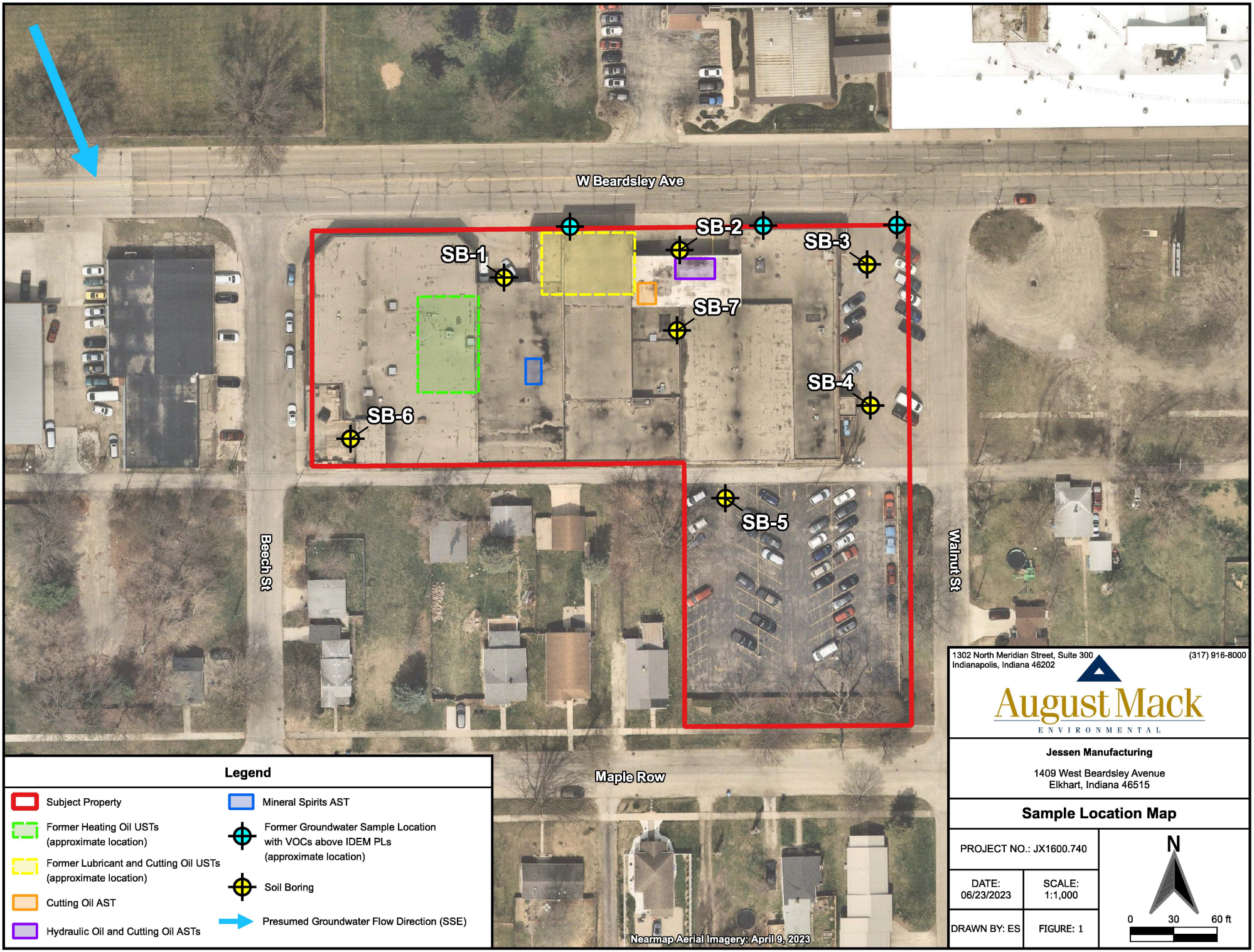
We appreciate the opportunity to provide you with environmental consulting services and trust that this submittal is in accordance with your needs. Please feel free to contact us if you have any questions or comments, or require additional information regarding this project or the project site.

Sincerely,

Samantha O'Connor
Due Diligence Manager

Tyler Zschiedrich
Sr. Due Diligence Manager

Figures



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Jessen Manufacturing

1409 West Beardsley Avenue
Elkhart, Indiana 46515

Sample Location Map

PROJECT NO.: JX1600.740	
DATE: 06/23/2023	SCALE: 1:1,000
DRAWN BY: ES	FIGURE: 1

N

0 30 60 ft

Tables

SUMMARY OF SOIL ANALYTICAL DATA
JESSEN MANUFACTURING

August Mack Environmental	Sample ID:	IDEM 2023 LONG TERM RESIDENTIAL SOIL PLs (*)	IDEM 2023 LONG TERM COMMERCIAL SOIL PLs (**)	IDEM 2023 SHORT TERM EXCAVATION SOIL PLs (#)	SB-1	SB-2	SB-3	SB-6	SB-7
	Depth - feet:				2.0-4.0	2.0-4.0	2.0-4.0	2.0-4.0	1.0-1.5
	Sample Date:				06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023
VOLATILE ORGANIC COMPOUNDS (VOCs) VIA USEPA METHOD 8260									
n-Butylbenzene		NE	NE	100	<0.0059	<0.0052	<0.0060	<0.0055	**0.198**
sec-Butylbenzene		NE	NE	100	<0.0059	<0.0052	<0.0060	**0.0137**	**0.161**
1,1-Dichloroethane (11DCA)		NE	NE	2,000	<0.0059	<0.0052	<0.0060	<0.0055	**0.0111**
cis-1,2-Dichloroethene (c12DCE)		NE	NE	1,000	<0.0059	<0.0052	<0.0060	<0.0055	**0.357**
Ethylbenzene		NE	NE	500	<0.0059	<0.0052	<0.0060	<0.0055	**0.0285**
Isopropylbenzene (Cumene)		NE	NE	300	<0.0059	<0.0052	<0.0060	<0.0055	**0.0482**
p-Isopropyltoluene		NE	NE	NE	<0.0059	<0.0052	<0.0060	**0.0872**	**0.168**
n-Propylbenzene		NE	NE	300	<0.0059	<0.0052	<0.0060	**0.00720**	**0.132**
Tetrachloroethene (PCE)		NE	NE	200	**0.00599**	**0.0188**	<0.0060	<0.0055	**0.817**
Trichloroethene (TCE)		NE	NE	100	<0.0059	<0.0052	<0.0060	<0.0055	**1.50**
1,2,4-Trimethylbenzene		NE	NE	200	<0.0059	<0.0052	<0.0060	**0.211**	**1.67**
1,3,5-Trimethylbenzene		NE	NE	200	<0.0059	<0.0052	<0.0060	**0.622**	**0.580**
Xylene (M&P)		NE	NE	300	<0.0059	<0.0052	<0.0060	**0.0113**	**0.0815**
Xylene (Ortho)		NE	NE	300	<0.0059	<0.0052	<0.0060	**0.131**	**0.116**
Xylene (Total)		NE	NE	300	<0.012	<0.010	<0.012	**0.142**	**0.197**
All Other Analyzed VOCs		Varies	Varies	Varies	BRL	BRL	BRL	BRL	BRL
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs) VIA USEPA METHOD 8270									
Benzo(a)anthracene		20.0	200	10,000	**0.988**	<0.35	<0.40	<0.37	<0.41
Benzo(a)pyrene		2.00	20.0	500	**1.01**	<0.069	<0.079	<0.073	<0.081
Benzo(b)fluoranthene		20.0	200	10,000	**1.06**	<0.35	<0.40	<0.37	<0.41
Benzo(g,h,i)perylene		NE	NE	NE	**0.947**	<0.35	<0.40	<0.37	<0.41
Benzo(k)fluoranthene		200	2,000	100,000	**0.411**	<0.35	<0.40	<0.37	<0.41
Chrysene		2,000	20,000	100,000	**1.03**	<0.35	<0.40	<0.37	<0.41
Fluoranthene		3,000	30,000	70,000	**1.80**	<0.35	**0.762**	<0.37	<0.41
Indeno(1,2,3-cd)pyrene		20.0	200	10,000	**0.885**	<0.35	<0.40	<0.37	<0.41
1-Methylnaphthalene		300	400	400	<0.39	<0.35	<0.40	<0.37	**0.519**
2-Methylnaphthalene		300	3,000	7,000	<0.39	<0.35	<0.40	<0.37	**0.684**
Naphthalene		30	90	3,000	<0.078	<0.069	<0.079	**0.893**	**1.00**
Phenanthrene		NE	NE	NE	**0.791**	<0.35	**0.668**	<0.37	<0.41
Pyrene		3,000	20,000	50,000	**1.54**	<0.35	**0.678**	<0.37	<0.41
All Other Analyzed SVOCs		Varies	Varies	Varies	BRL	BRL	BRL	BRL	BRL
METALS VIA USEPA METHODS 6010/7196/7471									
Barium		20,000	100,000	100,000	**31**	**4.7**	**17**	**196**	**58**
Chromium (Total)		NE	NE	NE	**8.8**	**7.3**	**4.0**	**43**	**17**
Lead		400	800	1,000	**11**	<2.1	**8.9**	**36**	**95**
All Other Analyzed Metals		Varies	Varies	Varies	BRL	BRL	BRL	BRL	BRL
POLYCHLORINATED BIPHENYLS (PCBs) VIA USEPA METHOD 8082									
All Analyzed PCBs		Varies	Varies	Varies	BRL	BRL	BRL	BRL	BRL

Abbreviations & Notes

BRL = Below Laboratory Reporting Limits
IDEM = Indiana Department of Environmental Management
NE = Not Established
PLs = Human Health Published Levels
R2 = Risk-Based Closure Guide
USEPA = United States Environmental Protection Agency

The following denote the symbol and color of screening level exceedances:

* = At or Above 2023 IDEM R2 Long Term Residential Soil PLs
** = At or Above 2023 IDEM R2 Long Term Commercial Soil PLs
# = At or Above 2023 IDEM R2 Short Term Excavation Soil PLs

Results and IDEM PLs are reported in milligrams per kilogram (mg/kg).
IDEM PLs are based on the IDEM R2, Table 1: Human Health Published Levels with updates.

SUMMARY OF GROUNDWATER ANALYTICAL DATA
JESSEN MANUFACTURING

	Sample ID:	2023 IDEM R2 LONG TERM RESIDENTIAL GROUNDWATER PLs (^)	SB-1-GW	SB-2-GW	SB-3-GW	SB-4-GW	SB-5-GW	SB-6-GW
August Mack ENVIRONMENTAL	Depth - feet:		6-16	2-12	7-17	6-16	6-16	6-16
	Sample Date:		06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023
VOLATILE ORGANIC COMPOUNDS (VOCs) VIA USEPA METHOD 8260								
n-Butylbenzene		1,000	<5.0	**24.0**	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene		2,000	<5.0	**13.2**	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene (c12DCE)		70	<5.0	<5.0	**12.2**	**11.7**	<5.0	<5.0
p-Isopropyltoluene		NE	<5.0	**5.59**	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene		700	<5.0	**7.33**	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)		5	**9.31** ^	<5.0	<5.0	**15.1** ^	<5.0	<5.0
1,1,1-Trichloroethane (111TCA)		200	**5.95**	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene (TCE)		5	**8.05** ^	<5.0	<5.0	<5.0	<5.0	<5.0
All Other Analyzed VOCs		Varies	BRL	BRL	BRL	BRL	BRL	BRL
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs) VIA USEPA METHOD 8270/8270 SIM								
All Analyzed SVOCs		Varies	BRL	BRL	BRL	BRL	BRL	BRL
METALS VIA USEPA METHODS 6010/7470								
All Analyzed Metals		Varies	BRL	BRL	BRL	BRL	BRL	BRL

Abbreviations & Notes

BRL = Below Laboratory Reporting Limits
IDEM = Indiana Department of Environmental Management
NE = Not Established
PLs = Human Health Published Levels
R2 = Risk-Based Closure Guide
SIM = Selected Ion Monitoring
USEPA = United States Environmental Protection Agency

The following denote the symbol and color of screening level exceedances:
^ = At or Above 2023 IDEM R2 Long Term Residential Groundwater PLs

Results and IDEM PLs are reported in micrograms per liter (µg/L).
IDEM PLs are based on the IDEM R2, Table 1: Human Health Published Levels with updates.

ATTACHMENT A

Soil Boring Logs

August Mack ENVIRONMENTAL

SB-1

Project Number:	JX1600.740	Date Drilled:	6/21/2023
Project Name:	Jessen Manufacturing	Personnel:	A. Hicks
Site Address:	1409 W Beardsley Ave.	Driller:	Terracon - C. Bradshaw
City, State:	Elkhart, IN	Driller License:	4231
Boring Location:	NW Exterior	Drilling Method:	Direct Push - Dual Tube
Northing*:	Not Measured (NM)	Easting*:	NM
Surface Elevation:	NM	GW Sample Method:	Bailer

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	Screen Interval	Soil Sample Interval	Comments
0	CONCRETE						Start at 1549
1		7.5YR 2.5/1, fine to medium grained, well graded, medium dense, with silt, moist		0.0			Staining at 1-4'
2			25				
3				0.0			Soil sample SB-1-2-4 collected at 1555
4		10YR 4/1, fine to coarse grained					
5		10YR 2/2, increasing moisture		0.0			
6		10YR 5/4	40				
7				0.0			
8	SAND	10YR 4/4, fine to medium grained, wet					Groundwater sample SB-1-GW-6-16 collected at 1630
9				0.0			
10			60				
11				0.0			
12		10YR 4/1					
13				0.0			
14			75				
15				0.0			
16							End of Boring: 16' (1618)

* = Northing, Easting, and Surface Elevation (State Plane or UTM) are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-2

Project Number:	JX1600.740	Date Drilled:	6/21/2023
Project Name:	Jessen Manufacturing	Personnel:	A. Hicks
Site Address:	1409 W Beardsley Ave.	Driller:	Terracon - C. Bradshaw
City, State:	Elkhart, IN	Driller License:	4231
Boring Location:	N Exterior	Drilling Method:	Direct Push - Dual Tube
Northing*:	Not Measured (NM)	Easting*:	NM
Surface Elevation:	NM	GW Sample Method:	Bailer

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	Screen Interval	Soil Sample Interval	Comments
0	CONCRETE						Start at 1058
1		10YR 6/2, fine to coarse grained, well graded, medium dense, moist		0.2			
2			70				
3				0.1			Soil sample SB-2-2-4 collected at 1705
4		10YR 4/1, wet					
5				35.3			Groundwater sample SB-2-GW-2-12 collected at 1725
6	SAND		75				Odor from 4-12'
7				127.6			
8							
9				39.4			
10			75				
11				53.3			
12							End of Boring: 12' (1109)

* = Northing, Easting, and Surface Elevation (State Plane or UTM) are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-3

Project Number:	JX1600.740	Date Drilled:	6/21/2023
Project Name:	Jessen Manufacturing	Personnel:	A. Hicks
Site Address:	1409 W Beardsley Ave.	Driller:	Terracon - C. Bradshaw
City, State:	Elkhart, IN	Driller License:	4231
Boring Location:	NE Exterior	Drilling Method:	Direct Push - Dual Tube
Northing*:	Not Measured (NM)	Easting*:	NM
Surface Elevation:	NM	GW Sample Method:	Bailer

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	Screen Interval	Soil Sample Interval	Comments
0	ASPHALT						Start at 1058
1		10YR 4/4, fine to medium grained, well graded, loose, moist		0.1			
2			45				Soil sample SB-3-2-4 collected at 1105
3				0.0			
4							
5				0.0			
6			60				
7		wet, few gravel		0.1			Groundwater sample SB-3-GW-7-17 collected at 1130
8							
9	SAND			0.4			
10		5YR 4/2, fine to coarse grained	70				
11		fine grained, poorly graded		0.0			
12							
13				0.0			
14			90				
15				0.0			
16							
17			90	0.0			End of Boring: 17' (1109)

* = Northing, Easting, and Surface Elevation (State Plane or UTM) are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-4

Project Number:	JX1600.740	Date Drilled:	6/21/2023
Project Name:	Jessen Manufacturing	Personnel:	A. Hicks
Site Address:	1409 W Beardsley Ave.	Driller:	Terracon - C. Bradshaw
City, State:	Elkhart, IN	Driller License:	4231
Boring Location:	E Exterior	Drilling Method:	Direct Push - Dual Tube
Northing*:	Not Measured (NM)	Easting*:	NM
Surface Elevation:	NM	GW Sample Method:	Bailer

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	Screen Interval	Soil Sample Interval	Comments
0	ASPHALT						Start at 1153
1		7.5YR 2.5/2, fine to coarse grained, well graded, medium dense, with silt, moist	65	0.0			
2							
3		10YR 5/3, few silt		0.1			
4							
5			50	0.0			
6							
7				0.0			
8	SAND	10YR 4/3, wet, few gravel					Groundwater sample SB-4-GW-6-16 collected at 1251
9			65	0.0			
10							
11				0.0			
12							
13			70	0.0			
14							
15		10YR 4/1, fine grained, poorly graded		0.0			
16							End of Boring: 16' (1229)

* = Northing, Easting, and Surface Elevation (State Plane or UTM) are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-5

Project Number:	JX1600.740	Date Drilled:	6/21/2023
Project Name:	Jessen Manufacturing	Personnel:	A. Hicks
Site Address:	1409 W Beardsley Ave.	Driller:	Terracon - C. Bradshaw
City, State:	Elkhart, IN	Driller License:	4231
Boring Location:	S Exterior	Drilling Method:	Direct Push - Dual Tube
Northing*:	Not Measured (NM)	Easting*:	NM
Surface Elevation:	NM	GW Sample Method:	Bailer

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	Screen Interval	Soil Sample Interval	Comments
0	ASPHALT						Start at 1315
1		10YR 2/1, fine to coarse grained, well graded, medium dense, moist, with silt		0.0			
2			45				
3		10YR 5/3, no silt		0.0			
4		2.5YR 6/2, few gravel					
5				0.0			
6		2.5YR 6/4, dense	60				
7				0.0			
8	SAND	10YR 4/6, fine to medium grained, wet					Groundwater sample SB-5-GW-6-16 collected at 1350
9				0.0			
10			70				
11		10YR 4/2, fine grained, poorly graded		0.0			
12							
13		fine to medium grained, well graded		0.0			
14			10				
15				0.0			
16							End of Boring: 16' (1338)

* = Northing, Easting, and Surface Elevation (State Plane or UTM) are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-6

Project Number:	JX1600.740	Date Drilled:	6/21/2023
Project Name:	Jessen Manufacturing	Personnel:	A. Hicks
Site Address:	1409 W Beardsley Ave.	Driller:	Terracon - C. Bradshaw
City, State:	Elkhart, IN	Driller License:	4231
Boring Location:	W Exterior	Drilling Method:	Direct Push - Dual Tube
Northing*:	Not Measured (NM)	Easting*:	NM
Surface Elevation:	NM	GW Sample Method:	Bailer

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	Screen Interval	Soil Sample Interval	Comments
0	CONCRETE						Start at 1427
1		10YR 2/1, fine to coarse grained, well graded, dense, moist, with silt		224.2			Staining from 1-3'
2			25				
3				321.9			Soil sample SB-6-2-4, collected at 1430
4							
5		10YR 5/2, medium dense		5.8			
6			60				
7				2.3			
8	SAND	10YR 4/2, wet					
9				113.6			Groundwater sample SB-6-GW-6-16, collected at 1506
10			70				
11				2.9			
12		10YR 4/1					
13				41.9			
14		with gravel	40				
15		no gravel		NM			
16							End of Boring: 16' (1453)

* = Northing, Easting, and Surface Elevation (State Plane or UTM) are estimated, unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-7

Project Number:	JX1600.740	Date Drilled:	6/21/2023
Project Name:	Jessen Manufacturing	Personnel:	A. Hicks
Site Address:	1409 W Beardsley Ave.	Driller:	Terracon - F. Smith
City, State:	Elkhart, IN	Driller License:	4231
Boring Location:	Cental Exterior	Drilling Method:	Direct Push - Dual Tube
Northing*:	Not Measured (NM)	Easting*:	NM
Surface Elevation:	NM	GW Sample Method:	Not Applicable

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)	Screen Interval	Soil Sample Interval	Comments
0	CONCRETE		100	25.0			Start at 1240 Soil sample SB-7-1-1.5, collected at 1525 Odor from 1-1.5'
1	SAND	10YR 2/1, fine to coarse grained, well graded, dense, moist					Refusal: 1.5' (1426)

* = Northing, Easting, and Surface Elevation (State Plane or UTM) are estimated, unless specified in the report to have been surveyed.

ATTACHMENT B

Field Procedures

Soil Sampling Activities

Soil borings were advanced using a Geoprobe® Direct Push Dual-Tube Sampling System (Geoprobe®). Soil borings were advanced to the desired depth required for the investigation. Soil samples were collected continuously from each boring location by using the dual-tube tooling, which includes a disposable acetate sample liner. The sampler was recovered with a 4-foot soil sample collected within an acetate liner inside the barrel. A new acetate liner was used for each sample collected. All reusable equipment that contacted the soil samples was decontaminated with a Liquinox® solution and rinsed with water between each sample collection.

Upon retrieving the 4-foot sections of soil, the samples were divided into 2-foot sections and inspected in the field for evidence of contamination (odors, staining, etc.). Each sample was also screened in the field by headspace analysis using a MiniRae® photoionization detector (PID). All samples were submitted to ENVision for laboratory analysis of VOCs, SVOCs, RCRA 8 Metals, PCBs and Hexavalent Chromium using standard United States Environmental Protection Agency (U.S. EPA) SW-846 analytical methods. SB-5 was also submitted for RCRA 8 Metal analysis.

Groundwater Sampling Activities

Temporary 1-inch groundwater sampling piezometers were installed at SB-1 through SB-6 to allow groundwater to collect for sampling purposes. Groundwater samples were collected from the temporary groundwater sampling points using a bailer. The groundwater samples were transferred to clean, labeled sample containers (provided by the laboratory) and placed on ice in a cooler for preservation in the field. Groundwater samples were submitted to ENVision for laboratory analysis of VOCs, SVOCs and dissolved RCRA 8 Metals using standard United States Environmental Protection Agency (U.S. EPA) SW-846 analytical methods.

Site Restoration Activities

Upon completion of the field sampling activities, the boreholes were abandoned by manually pouring soil cuttings and bentonite into the boring. Study site restoration was completed by patching the surface materials to match pre-investigation conditions.

ATTACHMENT C

Laboratory Results

ENVision Laboratories, Inc.
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Mr. Tyler Zschiedrich
August Mack Environmental
1302 North Meridian Street, Suite 300
Indianapolis, IN 46202

July 7, 2023

ENVision Project Number: 2023-1274
Client Project Name: JX1600

Dear Mr. Zschiedrich,

Please find the attached analytical report for the samples received June 22, 2023. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

Cheryl A. Crum

Cheryl A. Crum
Director of Project Management
ENVision Laboratories, Inc.

ENVision Laboratories, Inc.
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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062523VW

Client Sample ID: SB-1-GW-6-16 **Sample Collection Date/Time:** 6/21/23 16:30
Envision Sample Number: 23-12287 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: water

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Analytical Report

8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	**9.31**	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	**5.95**	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	**8.05**	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	95%		
1,2-Dichloroethane-d4 (surrogate)	97%		
Toluene-d8 (surrogate)	109%		
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	6-25-23/14:23		
Analyst Initials	tjg		

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ENVISION

Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 BNA/PAH-SIM
Prep Method: EPA 3520C
BNA Analytical Batch: 062823BW

Client Sample ID: SB-1-GW-6-16 **Sample Collection Date/Time:** 6/21/23 16:30
Envision Sample Number: 23-12287 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: water

BNA Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Aniline	< 10	10	
Benzoic Acid	< 50	50	
Benzyl Alcohol	< 20	20	
4-Bromophenylphenyl ether	< 10	10	
Butylbenzylphthalate	< 10	10	
Carbazole	< 20	20	
4-Chloro-3-methylphenol	< 20	20	
4-Chloroaniline	< 3.2	3.2	
bis(2-Chloroethoxy)methane	< 10	10	
bis(2-Chloroethyl)ether	< 0.12	1.0	1
bis(2-Chloroisopropyl)ether	< 10	10	
2-Chloronaphthalene	< 10	10	
2-Chlorophenol	< 10	10	
4-Chlorophenylphenyl ether	< 10	10	
Dibenzofuran	< 10	10	
1,2-Dichlorobenzene	< 10	10	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 10	10	
3,3-Dichlorobenzidine	< 1.1	1.1	
2,4-Dichlorophenol	< 10	10	
Diethylphthalate	< 10	10	
2,4-Dimethylphenol	< 10	10	
Dimethylphthalate	< 10	10	
Di-n-butylphthalate	< 10	10	
4,6-Dinitro-2-methylphenol	< 1.2	1.2	
2,4-Dinitrophenol	< 30	50	
2,4-Dinitrotoluene	< 2.0	2	
2,6-Dinitrotoluene	< 10	10	
Di-n-octylphthalate	< 10	10	
bis(2-Ethylhexyl)phthalate	< 5	5	
Hexachloro-1,3-butadiene	< 2.6	2.6	
Hexachlorobenzene	< 1.0	1	
Hexachlorocyclopentadiene	< 25	25	
Hexachloroethane	< 5.1	5.1	

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8270 Continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Isophorone	< 10	10	
2-Methylphenol (o-Cresol)	< 10	10	
3&4-Methylphenol	< 20	20	
2-Nitroaniline	< 50	50	
3-Nitroaniline	< 50	50	
4-Nitroaniline	< 33	33	
Nitrobenzene	< 1.2	1.2	
2-Nitrophenol	< 10	10	
4-Nitrophenol	< 50	50	
N-Nitroso-di-n-propylamine	< 0.093	1.0	1
N-Nitrosodiphenylamine	< 10	10	
Pentachlorophenol	< 1.0	1	
Phenol	< 10	10	
1,2,4-Trichlorobenzene	< 10	10	
2,4,5-Trichlorophenol	< 10	10	
2,4,6-Trichlorophenol	< 9	9	
2-Fluorophenol (surrogate)	106%		
Phenol-d6 (surrogate)	49%		
Nitrobenzene-d5 (surrogate)	81%		
2-Fluorobiphenyl (surrogate)	75%		
2,4,6-Tribromophenol (surrogate)	97%		
p-Terphenyl-d14 (surrogate)	92%		
Analysis Date/Time:	06-28-23/19:15		
Analyst Initials:	gjd		
Date Extracted:	6/28/23		
Initial Sample Volume:	1000 mL		
Final Volume:	1.0 mL		

PAH-SIM Analytical Batch: 062323PW2

PAH-SIM Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Analysis Date/Time:	06-24-23/03:02		
Analyst Initials	gjd		

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ENVISION

Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB-1-GW-6-16
Envision Sample Number: 23-12287
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 16:30
Sample Received Date/Time: 6/22/23 9:25

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic-Dissolved	< 10	10	
Barium-Dissolved	< 100	100	
Cadmium-Dissolved	< 5	5	
Chromium-Dissolved	< 10	10	
Lead-Dissolved	< 10	10	
Selenium-Dissolved	< 10	10	
Silver-Dissolved	< 50	50	

ICP Analysis Date/Time: 6-27-23/14:05
Analyst Initials: gjd
Date Digested: 6/27/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical & Prep Method: EPA 7470

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Mercury-Dissolved	< 2	2	

Hg Analysis Date/Time: 6/28/23/11:35
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062823hg

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062523VW

Client Sample ID: SB-2-GW-2-12 **Sample Collection Date/Time:** 6/21/23 17:25
Envision Sample Number: 23-12288 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: water

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	**24.0**	5	
sec-Butylbenzene	**13.2**	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Analytical Report

8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	**5.59**	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	**7.33**	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	90%		
1,2-Dichloroethane-d4 (surrogate)	94%		
Toluene-d8 (surrogate)	106%		
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	6-25-23/14:39		
Analyst Initials	tjg		

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ENVISION

Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 BNA/PAH-SIM
Prep Method: EPA 3520C
BNA Analytical Batch: 062823BW

Client Sample ID: SB-2-GW-2-12
Envision Sample Number: 23-12288
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 17:25
Sample Received Date/Time: 6/22/23 9:25

BNA Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Aniline	< 10	10	
Benzoic Acid	< 50	50	
Benzyl Alcohol	< 20	20	
4-Bromophenylphenyl ether	< 10	10	
Butylbenzylphthalate	< 10	10	
Carbazole	< 20	20	
4-Chloro-3-methylphenol	< 20	20	
4-Chloroaniline	< 3.2	3.2	
bis(2-Chloroethoxy)methane	< 10	10	
bis(2-Chloroethyl)ether	< 0.12	1.0	1
bis(2-Chloroisopropyl)ether	< 10	10	
2-Chloronaphthalene	< 10	10	
2-Chlorophenol	< 10	10	
4-Chlorophenylphenyl ether	< 10	10	
Dibenzofuran	< 10	10	
1,2-Dichlorobenzene	< 10	10	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 10	10	
3,3-Dichlorobenzidine	< 1.1	1.1	
2,4-Dichlorophenol	< 10	10	
Diethylphthalate	< 10	10	
2,4-Dimethylphenol	< 10	10	
Dimethylphthalate	< 10	10	
Di-n-butylphthalate	< 10	10	
4,6-Dinitro-2-methylphenol	< 1.2	1.2	
2,4-Dinitrophenol	< 30	50	
2,4-Dinitrotoluene	< 2.0	2	
2,6-Dinitrotoluene	< 10	10	
Di-n-octylphthalate	< 10	10	
bis(2-Ethylhexyl)phthalate	< 5	5	
Hexachloro-1,3-butadiene	< 2.6	2.6	
Hexachlorobenzene	< 1.0	1	
Hexachlorocyclopentadiene	< 25	25	
Hexachloroethane	< 5.1	5.1	

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8270 Continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Isophorone	< 10	10	
2-Methylphenol (o-Cresol)	< 10	10	
3&4-Methylphenol	< 20	20	
2-Nitroaniline	< 50	50	
3-Nitroaniline	< 50	50	
4-Nitroaniline	< 33	33	
Nitrobenzene	< 1.2	1.2	
2-Nitrophenol	< 10	10	
4-Nitrophenol	< 50	50	
N-Nitroso-di-n-propylamine	< 0.093	1.0	1
N-Nitrosodiphenylamine	< 10	10	
Pentachlorophenol	< 1.0	1	
Phenol	< 10	10	
1,2,4-Trichlorobenzene	< 10	10	
2,4,5-Trichlorophenol	< 10	10	
2,4,6-Trichlorophenol	< 9	9	
2-Fluorophenol (surrogate)	93%		
Phenol-d6 (surrogate)	91%		
Nitrobenzene-d5 (surrogate)	67%		
2-Fluorobiphenyl (surrogate)	60%		
2,4,6-Tribromophenol (surrogate)	93%		
p-Terphenyl-d14 (surrogate)	59%		
Analysis Date/Time:	06-28-23/19:41		
Analyst Initials:	gjd		
Date Extracted:	6/28/23		
Initial Sample Volume:	1000 mL		
Final Volume:	1.0 mL		

PAH-SIM Analytical Batch: 062323PW2

PAH-SIM Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Analysis Date/Time:	06-24-23/03:24		
Analyst Initials	gjd		

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB-2-GW-2-12
Envision Sample Number: 23-12288
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 17:25
Sample Received Date/Time: 6/22/23 9:25

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic-Dissolved	< 10	10	
Barium-Dissolved	< 100	100	
Cadmium-Dissolved	< 5	5	
Chromium-Dissolved	< 10	10	
Lead-Dissolved	< 10	10	
Selenium-Dissolved	< 10	10	
Silver-Dissolved	< 50	50	

ICP Analysis Date/Time: 6-27-23/14:08
Analyst Initials: gjd
Date Digested: 6/27/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical & Prep Method: EPA 7470

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Mercury-Dissolved	< 2	2	

Hg Analysis Date/Time: 6/28/23/11:37
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062823hg

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062523VW

Client Sample ID: SB-3-GW-7-17 **Sample Collection Date/Time:** 6/21/23 11:30
Envision Sample Number: 23-12289 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: water

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Analytical Report

8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	**12.2**	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	90%		
1,2-Dichloroethane-d4 (surrogate)	93%		
Toluene-d8 (surrogate)	106%		
4-bromofluorobenzene (surrogate)	112%		
Analysis Date/Time:	6-25-23/14:55		
Analyst Initials	tjg		

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 BNA/PAH-SIM
Prep Method: EPA 3520C
BNA Analytical Batch: 062823BW

Client Sample ID: SB-3-GW-7-17
Envision Sample Number: 23-12289
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 11:30
Sample Received Date/Time: 6/22/23 9:25

BNA Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Aniline	< 10	10	
Benzoic Acid	< 50	50	
Benzyl Alcohol	< 20	20	
4-Bromophenylphenyl ether	< 10	10	
Butylbenzylphthalate	< 10	10	
Carbazole	< 20	20	
4-Chloro-3-methylphenol	< 20	20	
4-Chloroaniline	< 3.2	3.2	
bis(2-Chloroethoxy)methane	< 10	10	
bis(2-Chloroethyl)ether	< 0.12	1.0	1
bis(2-Chloroisopropyl)ether	< 10	10	
2-Chloronaphthalene	< 10	10	
2-Chlorophenol	< 10	10	
4-Chlorophenylphenyl ether	< 10	10	
Dibenzofuran	< 10	10	
1,2-Dichlorobenzene	< 10	10	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 10	10	
3,3-Dichlorobenzidine	< 1.1	1.1	
2,4-Dichlorophenol	< 10	10	
Diethylphthalate	< 10	10	
2,4-Dimethylphenol	< 10	10	
Dimethylphthalate	< 10	10	
Di-n-butylphthalate	< 10	10	
4,6-Dinitro-2-methylphenol	< 1.2	1.2	
2,4-Dinitrophenol	< 30	50	
2,4-Dinitrotoluene	< 2.0	2	
2,6-Dinitrotoluene	< 10	10	
Di-n-octylphthalate	< 10	10	
bis(2-Ethylhexyl)phthalate	< 5	5	
Hexachloro-1,3-butadiene	< 2.6	2.6	
Hexachlorobenzene	< 1.0	1	
Hexachlorocyclopentadiene	< 25	25	
Hexachloroethane	< 5.1	5.1	

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8270 Continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Isophorone	< 10	10	
2-Methylphenol (o-Cresol)	< 10	10	
3&4-Methylphenol	< 20	20	
2-Nitroaniline	< 50	50	
3-Nitroaniline	< 50	50	
4-Nitroaniline	< 33	33	
Nitrobenzene	< 1.2	1.2	
2-Nitrophenol	< 10	10	
4-Nitrophenol	< 50	50	
N-Nitroso-di-n-propylamine	< 0.093	1.0	1
N-Nitrosodiphenylamine	< 10	10	
Pentachlorophenol	< 1.0	1	
Phenol	< 10	10	
1,2,4-Trichlorobenzene	< 10	10	
2,4,5-Trichlorophenol	< 10	10	
2,4,6-Trichlorophenol	< 9	9	
2-Fluorophenol (surrogate)	90%		
Phenol-d6 (surrogate)	112%		
Nitrobenzene-d5 (surrogate)	83%		
2-Fluorobiphenyl (surrogate)	76%		
2,4,6-Tribromophenol (surrogate)	100%		
p-Terphenyl-d14 (surrogate)	95%		
Analysis Date/Time:	06-28-23/20:06		
Analyst Initials:	gjd		
Date Extracted:	6/28/23		
Initial Sample Volume:	1000 mL		
Final Volume:	1.0 mL		

PAH-SIM Analytical Batch: 062323PW2

PAH-SIM Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Analysis Date/Time:	06-24-23/03:46		
Analyst Initials	gjd		

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB-3-GW-7-17
Envision Sample Number: 23-12289
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 11:30
Sample Received Date/Time: 6/22/23 9:25

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic-Dissolved	< 10	10	
Barium-Dissolved	< 100	100	
Cadmium-Dissolved	< 5	5	
Chromium-Dissolved	< 10	10	
Lead-Dissolved	< 10	10	
Selenium-Dissolved	< 10	10	
Silver-Dissolved	< 50	50	

ICP Analysis Date/Time: 6-27-23/14:10
Analyst Initials: gjd
Date Digested: 6/27/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical & Prep Method: EPA 7470

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Mercury-Dissolved	< 2	2	

Hg Analysis Date/Time: 6/28/23/11:38
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062823hg

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062523VW

Client Sample ID: SB-4-GW-6-16 **Sample Collection Date/Time:** 6/21/23 12:51
Envision Sample Number: 23-12290 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: water

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Analytical Report

8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	**11.7**	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	**15.1**	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	96%		
Toluene-d8 (surrogate)	109%		
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	6-25-23/15:27		
Analyst Initials	tjg		

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 BNA/PAH-SIM
Prep Method: EPA 3520C
BNA Analytical Batch: 062823BW

Client Sample ID: SB-4-GW-6-16
Envision Sample Number: 23-12290
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 12:51
Sample Received Date/Time: 6/22/23 9:25

BNA Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Aniline	< 10	10	
Benzoic Acid	< 50	50	
Benzyl Alcohol	< 20	20	
4-Bromophenylphenyl ether	< 10	10	
Butylbenzylphthalate	< 10	10	
Carbazole	< 20	20	
4-Chloro-3-methylphenol	< 20	20	
4-Chloroaniline	< 3.2	3.2	
bis(2-Chloroethoxy)methane	< 10	10	
bis(2-Chloroethyl)ether	< 0.12	1.0	1
bis(2-Chloroisopropyl)ether	< 10	10	
2-Chloronaphthalene	< 10	10	
2-Chlorophenol	< 10	10	
4-Chlorophenylphenyl ether	< 10	10	
Dibenzofuran	< 10	10	
1,2-Dichlorobenzene	< 10	10	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 10	10	
3,3-Dichlorobenzidine	< 1.1	1.1	
2,4-Dichlorophenol	< 10	10	
Diethylphthalate	< 10	10	
2,4-Dimethylphenol	< 10	10	
Dimethylphthalate	< 10	10	
Di-n-butylphthalate	< 10	10	
4,6-Dinitro-2-methylphenol	< 1.2	1.2	
2,4-Dinitrophenol	< 30	50	
2,4-Dinitrotoluene	< 2.0	2	
2,6-Dinitrotoluene	< 10	10	
Di-n-octylphthalate	< 10	10	
bis(2-Ethylhexyl)phthalate	< 5	5	
Hexachloro-1,3-butadiene	< 2.6	2.6	
Hexachlorobenzene	< 1.0	1	
Hexachlorocyclopentadiene	< 25	25	
Hexachloroethane	< 5.1	5.1	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Isophorone	< 10	10	
2-Methylphenol (o-Cresol)	< 10	10	
3&4-Methylphenol	< 20	20	
2-Nitroaniline	< 50	50	
3-Nitroaniline	< 50	50	
4-Nitroaniline	< 33	33	
Nitrobenzene	< 1.2	1.2	
2-Nitrophenol	< 10	10	
4-Nitrophenol	< 50	50	
N-Nitroso-di-n-propylamine	< 0.093	1.0	1
N-Nitrosodiphenylamine	< 10	10	
Pentachlorophenol	< 1.0	1	
Phenol	< 10	10	
1,2,4-Trichlorobenzene	< 10	10	
2,4,5-Trichlorophenol	< 10	10	
2,4,6-Trichlorophenol	< 9	9	
2-Fluorophenol (surrogate)	80%		
Phenol-d6 (surrogate)	92%		
Nitrobenzene-d5 (surrogate)	66%		
2-Fluorobiphenyl (surrogate)	63%		
2,4,6-Tribromophenol (surrogate)	80%		
p-Terphenyl-d14 (surrogate)	76%		
Analysis Date/Time:	06-28-23/20:32		
Analyst Initials:	gjd		
Date Extracted:	6/28/23		
Initial Sample Volume:	1000 mL		
Final Volume:	1.0 mL		

PAH-SIM Analytical Batch: 062323PW2

PAH-SIM Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Analysis Date/Time:	06-24-23/04:08		
Analyst Initials	gjd		

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB-4-GW-6-16
Envision Sample Number: 23-12290
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 12:51
Sample Received Date/Time: 6/22/23 9:25

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic-Dissolved	< 10	10	
Barium-Dissolved	< 100	100	
Cadmium-Dissolved	< 5	5	
Chromium-Dissolved	< 10	10	
Lead-Dissolved	< 10	10	
Selenium-Dissolved	< 10	10	
Silver-Dissolved	< 50	50	

ICP Analysis Date/Time: 6-27-23/14:12
Analyst Initials: gjd
Date Digested: 6/27/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical & Prep Method: EPA 7470

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Mercury-Dissolved	< 2	2	

Hg Analysis Date/Time: 6/28/23/11:35hg
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062823hg

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062523VW

Client Sample ID: SB-5-GW-6-16 **Sample Collection Date/Time:** 6/21/23 13:50
Envision Sample Number: 23-12291 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: water

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Analytical Report

8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	93%		
1,2-Dichloroethane-d4 (surrogate)	95%		
Toluene-d8 (surrogate)	103%		
4-bromofluorobenzene (surrogate)	100%		
Analysis Date/Time:	6-25-23/15:43		
Analyst Initials	tjg		

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 BNA/PAH-SIM
Prep Method: EPA 3520C
BNA Analytical Batch: 062823BW

Client Sample ID: SB-5-GW-6-16
Envision Sample Number: 23-12291
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 13:50
Sample Received Date/Time: 6/22/23 9:25

BNA Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Aniline	< 10	10	
Benzoic Acid	< 50	50	
Benzyl Alcohol	< 20	20	
4-Bromophenylphenyl ether	< 10	10	
Butylbenzylphthalate	< 10	10	
Carbazole	< 20	20	
4-Chloro-3-methylphenol	< 20	20	
4-Chloroaniline	< 3.2	3.2	
bis(2-Chloroethoxy)methane	< 10	10	
bis(2-Chloroethyl)ether	< 0.12	1.0	1
bis(2-Chloroisopropyl)ether	< 10	10	
2-Chloronaphthalene	< 10	10	
2-Chlorophenol	< 10	10	
4-Chlorophenylphenyl ether	< 10	10	
Dibenzofuran	< 10	10	
1,2-Dichlorobenzene	< 10	10	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 10	10	
3,3-Dichlorobenzidine	< 1.1	1.1	
2,4-Dichlorophenol	< 10	10	
Diethylphthalate	< 10	10	
2,4-Dimethylphenol	< 10	10	
Dimethylphthalate	< 10	10	
Di-n-butylphthalate	< 10	10	
4,6-Dinitro-2-methylphenol	< 1.2	1.2	
2,4-Dinitrophenol	< 30	50	
2,4-Dinitrotoluene	< 2.0	2	
2,6-Dinitrotoluene	< 10	10	
Di-n-octylphthalate	< 10	10	
bis(2-Ethylhexyl)phthalate	< 5	5	
Hexachloro-1,3-butadiene	< 2.6	2.6	
Hexachlorobenzene	< 1.0	1	
Hexachlorocyclopentadiene	< 25	25	
Hexachloroethane	< 5.1	5.1	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Isophorone	< 10	10	
2-Methylphenol (o-Cresol)	< 10	10	
3&4-Methylphenol	< 20	20	
2-Nitroaniline	< 50	50	
3-Nitroaniline	< 50	50	
4-Nitroaniline	< 33	33	
Nitrobenzene	< 1.2	1.2	
2-Nitrophenol	< 10	10	
4-Nitrophenol	< 50	50	
N-Nitroso-di-n-propylamine	< 0.093	1.0	1
N-Nitrosodiphenylamine	< 10	10	
Pentachlorophenol	< 1.0	1	
Phenol	< 10	10	
1,2,4-Trichlorobenzene	< 10	10	
2,4,5-Trichlorophenol	< 10	10	
2,4,6-Trichlorophenol	< 9	9	
2-Fluorophenol (surrogate)	89%		
Phenol-d6 (surrogate)	79%		
Nitrobenzene-d5 (surrogate)	75%		
2-Fluorobiphenyl (surrogate)	70%		
2,4,6-Tribromophenol (surrogate)	81%		
p-Terphenyl-d14 (surrogate)	64%		
Analysis Date/Time:	06-28-23/20:58		
Analyst Initials:	gjd		
Date Extracted:	6/28/23		
Initial Sample Volume:	1000 mL		
Final Volume:	1.0 mL		

PAH-SIM Analytical Batch: 062323PW2

PAH-SIM Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Analysis Date/Time:	06-24-23/04:30		
Analyst Initials	gjd		

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB-5-GW-6-16
Envision Sample Number: 23-12291
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 13:50
Sample Received Date/Time: 6/22/23 9:25

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic-Dissolved	< 10	10	
Barium-Dissolved	< 100	100	
Cadmium-Dissolved	< 5	5	
Chromium-Dissolved	< 10	10	
Lead-Dissolved	< 10	10	
Selenium-Dissolved	< 10	10	
Silver-Dissolved	< 50	50	

ICP Analysis Date/Time: 6-27-23/14:14
Analyst Initials: gjd
Date Digested: 6/27/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical & Prep Method: EPA 7470

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Mercury-Dissolved	< 2	2	

Hg Analysis Date/Time: 6/28/23/11:45
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062823hg

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062523VW

Client Sample ID: SB-6-GW-6-16 **Sample Collection Date/Time:** 6/21/23 15:06
Envision Sample Number: 23-12292 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: water

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	93%		
1,2-Dichloroethane-d4 (surrogate)	97%		
Toluene-d8 (surrogate)	106%		
4-bromofluorobenzene (surrogate)	105%		
Analysis Date/Time:	6-25-23/15:59		
Analyst Initials	tjg		

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 BNA/PAH-SIM
Prep Method: EPA 3520C
BNA Analytical Batch: 062823BW

Client Sample ID: SB-6-GW-6-16
Envision Sample Number: 23-12292
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 15:06
Sample Received Date/Time: 6/22/23 9:25

BNA Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Aniline	< 10	10	
Benzoic Acid	< 50	50	
Benzyl Alcohol	< 20	20	
4-Bromophenylphenyl ether	< 10	10	
Butylbenzylphthalate	< 10	10	
Carbazole	< 20	20	
4-Chloro-3-methylphenol	< 20	20	
4-Chloroaniline	< 3.2	3.2	
bis(2-Chloroethoxy)methane	< 10	10	
bis(2-Chloroethyl)ether	< 0.12	1.0	1
bis(2-Chloroisopropyl)ether	< 10	10	
2-Chloronaphthalene	< 10	10	
2-Chlorophenol	< 10	10	
4-Chlorophenylphenyl ether	< 10	10	
Dibenzofuran	< 10	10	
1,2-Dichlorobenzene	< 10	10	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 10	10	
3,3-Dichlorobenzidine	< 1.1	1.1	
2,4-Dichlorophenol	< 10	10	
Diethylphthalate	< 10	10	
2,4-Dimethylphenol	< 10	10	
Dimethylphthalate	< 10	10	
Di-n-butylphthalate	< 10	10	
4,6-Dinitro-2-methylphenol	< 1.2	1.2	
2,4-Dinitrophenol	< 30	50	
2,4-Dinitrotoluene	< 2.0	2	
2,6-Dinitrotoluene	< 10	10	
Di-n-octylphthalate	< 10	10	
bis(2-Ethylhexyl)phthalate	< 5	5	
Hexachloro-1,3-butadiene	< 2.6	2.6	
Hexachlorobenzene	< 1.0	1	
Hexachlorocyclopentadiene	< 25	25	
Hexachloroethane	< 5.1	5.1	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Isophorone	< 10	10	
2-Methylphenol (o-Cresol)	< 10	10	
3&4-Methylphenol	< 20	20	
2-Nitroaniline	< 50	50	
3-Nitroaniline	< 50	50	
4-Nitroaniline	< 33	33	
Nitrobenzene	< 1.2	1.2	
2-Nitrophenol	< 10	10	
4-Nitrophenol	< 50	50	
N-Nitroso-di-n-propylamine	< 0.093	1.0	1
N-Nitrosodiphenylamine	< 10	10	
Pentachlorophenol	< 1.0	1	
Phenol	< 10	10	
1,2,4-Trichlorobenzene	< 10	10	
2,4,5-Trichlorophenol	< 10	10	
2,4,6-Trichlorophenol	< 9	9	
2-Fluorophenol (surrogate)	65%		
Phenol-d6 (surrogate)	71%		
Nitrobenzene-d5 (surrogate)	71%		
2-Fluorobiphenyl (surrogate)	65%		
2,4,6-Tribromophenol (surrogate)	56%		
p-Terphenyl-d14 (surrogate)	51%		
Analysis Date/Time:	06-28-23/21:24		
Analyst Initials:	gjd		
Date Extracted:	6/28/23		
Initial Sample Volume:	1000 mL		
Final Volume:	1.0 mL		

PAH-SIM Analytical Batch: 062323PW2

PAH-SIM Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Analysis Date/Time:	06-24-23/04:52		
Analyst Initials	gjd		

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Analytical Report

Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB-6-GW-6-16
Envision Sample Number: 23-12292
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 15:06
Sample Received Date/Time: 6/22/23 9:25

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic-Dissolved	< 10	10	
Barium-Dissolved	< 100	100	
Cadmium-Dissolved	< 5	5	
Chromium-Dissolved	< 10	10	
Lead-Dissolved	< 10	10	
Selenium-Dissolved	< 10	10	
Silver-Dissolved	< 50	50	

ICP Analysis Date/Time: 6-27-23/14:17
Analyst Initials: gjd
Date Digested: 6/27/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical & Prep Method: EPA 7470

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Mercury-Dissolved	< 2	2	

Hg Analysis Date/Time: 6/28/23/11:47
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062823hg

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062323VS

Client Sample ID: SB-7-1-1.5 **Sample Collection Date/Time:** 6/21/23 15:25
Envision Sample Number: 23-12293 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.122	0.122	
Acrolein	< 0.00021	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.061	0.061	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	**0.198**	0.006	
sec-Butylbenzene	**0.161**	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.061	0.061	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0021	0.0021	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00034	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	**0.0111**	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	**0.357**	0.305	2
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	**0.0285**	0.006	
Ethyl methacrylate	< 0.122	0.122	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	**0.0482**	0.006	
p-Isopropyltoluene	**0.168**	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	**0.132**	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	**0.817**	0.305	2
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	**1.50**	0.305	2
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	**1.67**	0.305	2
1,3,5-Trimethylbenzene	**0.580**	0.305	2
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	**0.0815**	0.006	
Xylene, 0rtho	**0.116**	0.006	
Xylene, Total	**0.197**	0.012	
Dibromofluoromethane (surrogate)	111%		
1,2-Dichloroethane-d4 (surrogate)	90%		
Toluene-d8 (surrogate)	104%		
4-bromofluorobenzene (surrogate)	112%		
Analysis Date:	6/23/23		
Analysis Time:	21:33		
Analyst Initials	tjg		
Percent Solids:	82%		

All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062623BS

Client Sample ID: SB-7-1-1.5 **Sample Collection Date/Time:** 6/21/23 15:25
Envision Sample Number: 23-12293 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.41	0.41	
Acenaphthylene	< 0.41	0.41	
Aniline	< 0.41	0.41	
Anthracene	< 0.41	0.41	
Benzo(a)anthracene	< 0.41	0.41	
Benzo(a)pyrene	< 0.081	0.081	
Benzo(b)fluoranthene	< 0.41	0.41	
Benzo(g,h,i)perylene	< 0.41	0.41	
Benzo(k)fluoranthene	< 0.41	0.41	
Benzoic Acid	< 2.03	2.03	
Benzyl Alcohol	< 0.81	0.81	
4-Bromophenylphenyl ether	< 0.41	0.41	
Butylbenzylphthalate	< 0.41	0.41	
Carbazole	< 0.81	0.81	
4-Chloro-3-methylphenol	< 0.81	0.81	
4-Chloroaniline	< 0.033	0.040	1
bis(2-Chloroethoxy)methane	< 0.081	0.081	
bis(2-Chloroethyl)ether	< 0.081	0.081	
bis(2-Chloroisopropyl)ether	< 0.41	0.41	
2-Chloronaphthalene	< 0.41	0.41	
2-Chlorophenol	< 0.41	0.41	
4-Chlorophenylphenyl ether	< 0.41	0.41	
Chrysene	< 0.41	0.41	
Dibenzo(a,h)anthracene	< 0.081	0.081	
Dibenzofuran	< 0.41	0.41	
1,2-Dichlorobenzene	< 0.41	0.41	
1,3-Dichlorobenzene	< 0.41	0.41	
1,4-Dichlorobenzene	< 0.41	0.41	
3,3-Dichlorobenzidine	< 0.17	0.81	
2,4-Dichlorophenol	< 0.41	0.41	
Diethylphthalate	< 0.41	0.41	
2,4-Dimethylphenol	< 0.41	0.41	
Dimethylphthalate	< 0.41	0.41	
Di-n-butylphthalate	< 0.41	0.41	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
4,6-Dinitro-2-methylphenol	< 0.050	0.050	
2,4-Dinitrophenol	< 0.081	0.081	
2,4-Dinitrotoluene	< 0.066	0.066	
2,6-Dinitrotoluene	< 0.41	0.41	
Di-n-octylphthalate	< 0.41	0.41	
bis(2-Ethylhexyl)phthalate	< 0.41	0.41	
Fluoranthene	< 0.41	0.41	
Fluorene	< 0.41	0.41	
Hexachloro-1,3-butadiene	< 0.081	0.081	
Hexachlorobenzene	< 0.081	0.081	
Hexachlorocyclopentadiene	< 0.41	0.41	
Hexachloroethane	< 0.081	0.081	
Indeno(1,2,3-cd)pyrene	< 0.41	0.41	
Isophorone	< 0.41	0.41	
2-Methylphenol (o-Cresol)	< 0.41	0.41	
3&4-Methylphenol	< 0.81	0.81	
1-Methylnaphthalene	**0.519**	0.41	
2-Methylnaphthalene	**0.684**	0.41	
Naphthalene	**1.00**	0.081	
2-Nitroaniline	< 1.63	1.63	
3-Nitroaniline	< 2.03	2.03	
4-Nitroaniline	< 0.081	0.081	
Nitrobenzene	< 0.04	0.04	
2-Nitrophenol	< 0.41	0.41	
4-Nitrophenol	< 2.03	2.03	
N-Nitroso-di-n-propylamine	< 0.081	0.081	
N-Nitrosodiphenylamine	< 0.41	0.41	
Pentachlorophenol	< 0.081	0.081	
Phenanthrene	< 0.41	0.41	
Phenol	< 0.41	0.41	
Pyrene	< 0.41	0.41	
1,2,4-Trichlorobenzene	< 0.41	0.41	
2,4,5-Trichlorophenol	< 0.41	0.41	
2,4,6-Trichlorophenol	< 0.41	0.41	
2-Fluorophenol (surrogate)	35%		
Phenol-d6 (surrogate)	29%		
Nitrobenzene-d5 (surrogate)	55%		
2-Fluorobiphenyl (surrogate)	50%		
2,4,6-Tribromophenol (surrogate)	45%		
p-Terphenyl-d14 (surrogate)	46%		
Analysis Date:	6/27/2023		
Analysis Time:	1:44		
Analyst Initials:	JAK		
Date Extracted:	6/26/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		
Percent Solids	82%		

All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB-7-1-1.5
Envision Sample Number: 23-12293
Sample Matrix: soil
Sample Collection Date/Time: 6/21/23 15:25
Sample Received Date/Time: 6/22/23 9:25

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**58**	2	
Cadmium	< 2	2	
Chromium	**17**	2	
Lead	**95**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date:
Analysis Time: 6-27-23/14:19
Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date: 6/28/2023
Hg Analysis Time: 11:48
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 062823hg

Percent Solids 82%
All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Client Sample ID:	SB-7-1-1.5	**Sample Collection Date/Time:**	6/21/23	15:25
Envision Sample Number:	23-12293	**Sample Received Date/Time:**	6/22/23	9:25
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	18.0%		EPA 1684
Percent Solids	82.0%		EPA 1684
Analysis Date:	6/23/23		
Analyst Initials	NR		

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062323VS

Client Sample ID: SB-1-2-4 **Sample Collection Date/Time:** 6/21/23 15:55
Envision Sample Number: 23-12294 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.118	0.118	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.059	0.059	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.059	0.059	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.118	0.118	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	**0.00599**	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, 0rtho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	100%		
1,2-Dichloroethane-d4 (surrogate)	87%		
Toluene-d8 (surrogate)	94%		
4-bromofluorobenzene (surrogate)	86%		
Analysis Date:	6/23/23		
Analysis Time:	21:49		
Analyst Initials	tjg		
Percent Solids:	85%		

All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062623BS

Client Sample ID: SB-1-2-4 **Sample Collection Date/Time:** 6/21/23 15:55
Envision Sample Number: 23-12294 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.39	0.39	
Acenaphthylene	< 0.39	0.39	
Aniline	< 0.39	0.39	
Anthracene	< 0.39	0.39	
Benzo(a)anthracene	**0.988**	0.39	
Benzo(a)pyrene	**1.01**	0.078	
Benzo(b)fluoranthene	**1.06**	0.39	
Benzo(g,h,i)perylene	**0.947**	0.39	
Benzo(k)fluoranthene	**0.411**	0.39	
Benzoic Acid	< 1.96	1.96	
Benzyl Alcohol	< 0.78	0.78	
4-Bromophenylphenyl ether	< 0.39	0.39	
Butylbenzylphthalate	< 0.39	0.39	
Carbazole	< 0.78	0.78	
4-Chloro-3-methylphenol	< 0.78	0.78	
4-Chloroaniline	< 0.032	0.039	1
bis(2-Chloroethoxy)methane	< 0.078	0.078	
bis(2-Chloroethyl)ether	< 0.078	0.078	
bis(2-Chloroisopropyl)ether	< 0.39	0.39	
2-Chloronaphthalene	< 0.39	0.39	
2-Chlorophenol	< 0.39	0.39	
4-Chlorophenylphenyl ether	< 0.39	0.39	
Chrysene	**1.03**	0.39	
Dibenzo(a,h)anthracene	< 0.078	0.078	
Dibenzofuran	< 0.39	0.39	
1,2-Dichlorobenzene	< 0.39	0.39	
1,3-Dichlorobenzene	< 0.39	0.39	
1,4-Dichlorobenzene	< 0.39	0.39	
3,3-Dichlorobenzidine	< 0.16	0.78	
2,4-Dichlorophenol	< 0.39	0.39	
Diethylphthalate	< 0.39	0.39	
2,4-Dimethylphenol	< 0.39	0.39	
Dimethylphthalate	< 0.39	0.39	
Di-n-butylphthalate	< 0.39	0.39	

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8270 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
4,6-Dinitro-2-methylphenol	< 0.048	0.048	
2,4-Dinitrophenol	< 0.078	0.078	
2,4-Dinitrotoluene	< 0.064	0.064	
2,6-Dinitrotoluene	< 0.39	0.39	
Di-n-octylphthalate	< 0.39	0.39	
bis(2-Ethylhexyl)phthalate	< 0.39	0.39	
Fluoranthene	**1.80**	0.39	
Fluorene	< 0.39	0.39	
Hexachloro-1,3-butadiene	< 0.078	0.078	
Hexachlorobenzene	< 0.078	0.078	
Hexachlorocyclopentadiene	< 0.39	0.39	
Hexachloroethane	< 0.078	0.078	
Indeno(1,2,3-cd)pyrene	**0.885**	0.39	
Isophorone	< 0.39	0.39	
2-Methylphenol (o-Cresol)	< 0.39	0.39	
3&4-Methylphenol	< 0.78	0.78	
1-Methylnaphthalene	< 0.39	0.39	
2-Methylnaphthalene	< 0.39	0.39	
Naphthalene	< 0.078	0.078	
2-Nitroaniline	< 1.57	1.57	
3-Nitroaniline	< 1.96	1.96	
4-Nitroaniline	< 0.078	0.078	
Nitrobenzene	< 0.04	0.04	
2-Nitrophenol	< 0.39	0.39	
4-Nitrophenol	< 1.96	1.96	
N-Nitroso-di-n-propylamine	< 0.078	0.078	
N-Nitrosodiphenylamine	< 0.39	0.39	
Pentachlorophenol	< 0.078	0.078	
Phenanthrene	**0.791**	0.39	
Phenol	< 0.39	0.39	
Pyrene	**1.54**	0.39	
1,2,4-Trichlorobenzene	< 0.39	0.39	
2,4,5-Trichlorophenol	< 0.39	0.39	
2,4,6-Trichlorophenol	< 0.39	0.39	
2-Fluorophenol (surrogate)	35%		
Phenol-d6 (surrogate)	31%		
Nitrobenzene-d5 (surrogate)	26%		
2-Fluorobiphenyl (surrogate)	31%		
2,4,6-Tribromophenol (surrogate)	40%		
p-Terphenyl-d14 (surrogate)	27%		
Analysis Date:	6/27/2023		
Analysis Time:	2:10		
Analyst Initials:	JAK		
Date Extracted:	6/26/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		
Percent Solids	85%		

All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	SB-1-2-4	**Sample Collection Date/Time:**	6/21/23	15:55
Envision Sample Number:	23-12294	**Sample Received Date/Time:**	6/22/23	9:25
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**31**	2	
Cadmium	< 2	2	
Chromium	**8.8**	2	
Lead	**11**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date:
Analysis Time: 6-27-23/14:21
Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date: 6/28/2023
Hg Analysis Time: 11:50
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 062823hg

Percent Solids 85%
All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Client Sample ID:	SB-1-2-4	**Sample Collection Date/Time:**	6/21/23	15:55
Envision Sample Number:	23-12294	**Sample Received Date/Time:**	6/22/23	9:25
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	6/23/23		
Analyst Initials	NR		

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062323VS

Client Sample ID: SB-2-2-4 **Sample Collection Date/Time:** 6/21/23 17:05
Envision Sample Number: 23-12295 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.104	0.104	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.052	0.052	
2-Butanone (MEK)	< 0.010	0.010	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.052	0.052	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00029	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.104	0.104	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.010	0.010	
2-Hexanone	< 0.010	0.010	
Iodomethane	< 0.010	0.010	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.010	0.010	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	**0.0188**	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.010	0.010	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, 0rtho	< 0.005	0.005	
Xylene, Total	< 0.010	0.010	
Dibromofluoromethane (surrogate)	99%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	92%		
4-bromofluorobenzene (surrogate)	109%		
Analysis Date:	6/23/23		
Analysis Time:	22:05		
Analyst Initials	tjg		
Percent Solids:	96%		

All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062623BS

Client Sample ID: SB-2-2-4 **Sample Collection Date/Time:** 6/21/23 17:05
Envision Sample Number: 23-12295 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.35	0.35	
Acenaphthylene	< 0.35	0.35	
Aniline	< 0.35	0.35	
Anthracene	< 0.35	0.35	
Benzo(a)anthracene	< 0.35	0.35	
Benzo(a)pyrene	< 0.069	0.069	
Benzo(b)fluoranthene	< 0.35	0.35	
Benzo(g,h,i)perylene	< 0.35	0.35	
Benzo(k)fluoranthene	< 0.35	0.35	
Benzoic Acid	< 1.74	1.74	
Benzyl Alcohol	< 0.69	0.69	
4-Bromophenylphenyl ether	< 0.35	0.35	
Butylbenzylphthalate	< 0.35	0.35	
Carbazole	< 0.69	0.69	
4-Chloro-3-methylphenol	< 0.69	0.69	
4-Chloroaniline	< 0.028	0.034	1
bis(2-Chloroethoxy)methane	< 0.069	0.069	
bis(2-Chloroethyl)ether	< 0.069	0.069	
bis(2-Chloroisopropyl)ether	< 0.35	0.35	
2-Chloronaphthalene	< 0.35	0.35	
2-Chlorophenol	< 0.35	0.35	
4-Chlorophenylphenyl ether	< 0.35	0.35	
Chrysene	< 0.35	0.35	
Dibenzo(a,h)anthracene	< 0.069	0.069	
Dibenzofuran	< 0.35	0.35	
1,2-Dichlorobenzene	< 0.35	0.35	
1,3-Dichlorobenzene	< 0.35	0.35	
1,4-Dichlorobenzene	< 0.35	0.35	
3,3-Dichlorobenzidine	< 0.15	0.69	
2,4-Dichlorophenol	< 0.35	0.35	
Diethylphthalate	< 0.35	0.35	
2,4-Dimethylphenol	< 0.35	0.35	
Dimethylphthalate	< 0.35	0.35	
Di-n-butylphthalate	< 0.35	0.35	

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8270 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
4,6-Dinitro-2-methylphenol	< 0.043	0.043	
2,4-Dinitrophenol	< 0.069	0.069	
2,4-Dinitrotoluene	< 0.056	0.056	
2,6-Dinitrotoluene	< 0.35	0.35	
Di-n-octylphthalate	< 0.35	0.35	
bis(2-Ethylhexyl)phthalate	< 0.35	0.35	
Fluoranthene	< 0.35	0.35	
Fluorene	< 0.35	0.35	
Hexachloro-1,3-butadiene	< 0.069	0.069	
Hexachlorobenzene	< 0.069	0.069	
Hexachlorocyclopentadiene	< 0.35	0.35	
Hexachloroethane	< 0.069	0.069	
Indeno(1,2,3-cd)pyrene	< 0.35	0.35	
Isophorone	< 0.35	0.35	
2-Methylphenol (o-Cresol)	< 0.35	0.35	
3&4-Methylphenol	< 0.69	0.69	
1-Methylnaphthalene	< 0.35	0.35	
2-Methylnaphthalene	< 0.35	0.35	
Naphthalene	< 0.069	0.069	
2-Nitroaniline	< 1.39	1.39	
3-Nitroaniline	< 1.74	1.74	
4-Nitroaniline	< 0.069	0.069	
Nitrobenzene	< 0.03	0.03	
2-Nitrophenol	< 0.35	0.35	
4-Nitrophenol	< 1.74	1.74	
N-Nitroso-di-n-propylamine	< 0.069	0.069	
N-Nitrosodiphenylamine	< 0.35	0.35	
Pentachlorophenol	< 0.069	0.069	
Phenanthrene	< 0.35	0.35	
Phenol	< 0.35	0.35	
Pyrene	< 0.35	0.35	
1,2,4-Trichlorobenzene	< 0.35	0.35	
2,4,5-Trichlorophenol	< 0.35	0.35	
2,4,6-Trichlorophenol	< 0.35	0.35	
2-Fluorophenol (surrogate)	36%		
Phenol-d6 (surrogate)	37%		
Nitrobenzene-d5 (surrogate)	27%		
2-Fluorobiphenyl (surrogate)	34%		
2,4,6-Tribromophenol (surrogate)	36%		
p-Terphenyl-d14 (surrogate)	31%		
Analysis Date:	6/27/2023		
Analysis Time:	2:36		
Analyst Initials:	JAK		
Date Extracted:	6/26/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		
Percent Solids	96%		

All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	SB-2-2-4	**Sample Collection Date/Time:**	6/21/23	17:05
Envision Sample Number:	23-12295	**Sample Received Date/Time:**	6/22/23	9:25
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**4.7**	2	
Cadmium	< 2	2	
Chromium	**7.3**	2	
Lead	< 2	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date:
Analysis Time: 6-27-23/14:23
Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date: 6/28/2023
Hg Analysis Time: 11:52
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 062823hg

Percent Solids 96%
All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Client Sample ID:	SB-2-2-4	**Sample Collection Date/Time:**	6/21/23	17:05
Envision Sample Number:	23-12295	**Sample Received Date/Time:**	6/22/23	9:25
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	4.0%		EPA 1684
Percent Solids	96.0%		EPA 1684
Analysis Date:	6/23/23		
Analyst Initials	NR		

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062323VS

Client Sample ID: SB-3-2-4 **Sample Collection Date/Time:** 6/21/23 11:05
Envision Sample Number: 23-12296 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.119	0.119	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.060	0.060	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.060	0.060	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.119	0.119	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, 0rtho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	96%		
Toluene-d8 (surrogate)	95%		
4-bromofluorobenzene (surrogate)	101%		
Analysis Date:	6/23/23		
Analysis Time:	22:21		
Analyst Initials	tjg		
Percent Solids:	84%		

All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062623BS

Client Sample ID: SB-3-2-4 **Sample Collection Date/Time:** 6/21/23 11:05
Envision Sample Number: 23-12296 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.40	0.40	
Acenaphthylene	< 0.40	0.40	
Aniline	< 0.40	0.40	
Anthracene	< 0.40	0.40	
Benzo(a)anthracene	< 0.40	0.40	
Benzo(a)pyrene	< 0.079	0.079	
Benzo(b)fluoranthene	< 0.40	0.40	
Benzo(g,h,i)perylene	< 0.40	0.40	
Benzo(k)fluoranthene	< 0.40	0.40	
Benzoic Acid	< 1.98	1.98	
Benzyl Alcohol	< 0.79	0.79	
4-Bromophenylphenyl ether	< 0.40	0.40	
Butylbenzylphthalate	< 0.40	0.40	
Carbazole	< 0.79	0.79	
4-Chloro-3-methylphenol	< 0.79	0.79	
4-Chloroaniline	< 0.032	0.039	1
bis(2-Chloroethoxy)methane	< 0.079	0.079	
bis(2-Chloroethyl)ether	< 0.079	0.079	
bis(2-Chloroisopropyl)ether	< 0.40	0.40	
2-Chloronaphthalene	< 0.40	0.40	
2-Chlorophenol	< 0.40	0.40	
4-Chlorophenylphenyl ether	< 0.40	0.40	
Chrysene	< 0.40	0.40	
Dibenzo(a,h)anthracene	< 0.079	0.079	
Dibenzofuran	< 0.40	0.40	
1,2-Dichlorobenzene	< 0.40	0.40	
1,3-Dichlorobenzene	< 0.40	0.40	
1,4-Dichlorobenzene	< 0.40	0.40	
3,3-Dichlorobenzidine	< 0.17	0.79	
2,4-Dichlorophenol	< 0.40	0.40	
Diethylphthalate	< 0.40	0.40	
2,4-Dimethylphenol	< 0.40	0.40	
Dimethylphthalate	< 0.40	0.40	
Di-n-butylphthalate	< 0.40	0.40	

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8270 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
4,6-Dinitro-2-methylphenol	< 0.049	0.049	
2,4-Dinitrophenol	< 0.079	0.079	
2,4-Dinitrotoluene	< 0.064	0.064	
2,6-Dinitrotoluene	< 0.40	0.40	
Di-n-octylphthalate	< 0.40	0.40	
bis(2-Ethylhexyl)phthalate	< 0.40	0.40	
Fluoranthene	**0.762**	0.40	
Fluorene	< 0.40	0.40	
Hexachloro-1,3-butadiene	< 0.079	0.079	
Hexachlorobenzene	< 0.079	0.079	
Hexachlorocyclopentadiene	< 0.40	0.40	
Hexachloroethane	< 0.079	0.079	
Indeno(1,2,3-cd)pyrene	< 0.40	0.40	
Isophorone	< 0.40	0.40	
2-Methylphenol (o-Cresol)	< 0.40	0.40	
3&4-Methylphenol	< 0.79	0.79	
1-Methylnaphthalene	< 0.40	0.40	
2-Methylnaphthalene	< 0.40	0.40	
Naphthalene	< 0.079	0.079	
2-Nitroaniline	< 1.59	1.59	
3-Nitroaniline	< 1.98	1.98	
4-Nitroaniline	< 0.079	0.079	
Nitrobenzene	< 0.04	0.04	
2-Nitrophenol	< 0.40	0.40	
4-Nitrophenol	< 1.98	1.98	
N-Nitroso-di-n-propylamine	< 0.079	0.079	
N-Nitrosodiphenylamine	< 0.40	0.40	
Pentachlorophenol	< 0.079	0.079	
Phenanthrene	**0.668**	0.40	
Phenol	< 0.40	0.40	
Pyrene	**0.678**	0.40	
1,2,4-Trichlorobenzene	< 0.40	0.40	
2,4,5-Trichlorophenol	< 0.40	0.40	
2,4,6-Trichlorophenol	< 0.40	0.40	
2-Fluorophenol (surrogate)	34%		
Phenol-d6 (surrogate)	32%		
Nitrobenzene-d5 (surrogate)	21%		
2-Fluorobiphenyl (surrogate)	25%		
2,4,6-Tribromophenol (surrogate)	31%		
p-Terphenyl-d14 (surrogate)	24%		
Analysis Date:	6/27/2023		
Analysis Time:	3:02		
Analyst Initials:	JAK		
Date Extracted:	6/26/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		
Percent Solids	84%		

All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB-3-2-4
Envision Sample Number: 23-12296
Sample Matrix: soil
Sample Collection Date/Time: 6/21/23 11:05
Sample Received Date/Time: 6/22/23 9:25

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**17**	2	
Cadmium	< 2	2	
Chromium	**4.0**	2	
Lead	**8.9**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date:
Analysis Time: 6-27-23/14:26
Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date: 6/28/2023
Hg Analysis Time: 11:53
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 062823hg

Percent Solids 84%
All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Client Sample ID:	SB-3-2-4	**Sample Collection Date/Time:**	6/21/23	11:05
Envision Sample Number:	23-12296	**Sample Received Date/Time:**	6/22/23	9:25
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	6/23/23		
Analyst Initials	NR		

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062323VS

Client Sample ID: SB-6-2-4 **Sample Collection Date/Time:** 6/21/23 14:30
Envision Sample Number: 23-12297 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.110	0.110	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.055	0.055	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	**0.0137**	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.055	0.055	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00031	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.110	0.110	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	**0.0872**	0.005	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	**0.00720**	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	**0.211**	0.005	
1,3,5-Trimethylbenzene	**0.622**	0.275	2
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	**0.0113**	0.005	
Xylene, 0rtho	**0.131**	0.005	
Xylene, Total	**0.142**	0.011	
Dibromofluoromethane (surrogate)	112%		
1,2-Dichloroethane-d4 (surrogate)	107%		
Toluene-d8 (surrogate)	108%		
4-bromofluorobenzene (surrogate)	108%		
Analysis Date:	6/23/23		
Analysis Time:	22:37		
Analyst Initials	tjg		
Percent Solids:	91%		

All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062623BS

Client Sample ID: SB-6-2-4 **Sample Collection Date/Time:** 6/21/23 14:30
Envision Sample Number: 23-12297 **Sample Received Date/Time:** 6/22/23 9:25
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.37	0.37	
Acenaphthylene	< 0.37	0.37	
Aniline	< 0.37	0.37	
Anthracene	< 0.37	0.37	
Benzo(a)anthracene	< 0.37	0.37	
Benzo(a)pyrene	< 0.073	0.073	
Benzo(b)fluoranthene	< 0.37	0.37	
Benzo(g,h,i)perylene	< 0.37	0.37	
Benzo(k)fluoranthene	< 0.37	0.37	
Benzoic Acid	< 1.83	1.83	
Benzyl Alcohol	< 0.73	0.73	
4-Bromophenylphenyl ether	< 0.37	0.37	
Butylbenzylphthalate	< 0.37	0.37	
Carbazole	< 0.73	0.73	
4-Chloro-3-methylphenol	< 0.73	0.73	
4-Chloroaniline	< 0.030	0.036	1
bis(2-Chloroethoxy)methane	< 0.073	0.073	
bis(2-Chloroethyl)ether	< 0.073	0.073	
bis(2-Chloroisopropyl)ether	< 0.37	0.37	
2-Chloronaphthalene	< 0.37	0.37	
2-Chlorophenol	< 0.37	0.37	
4-Chlorophenylphenyl ether	< 0.37	0.37	
Chrysene	< 0.37	0.37	
Dibenzo(a,h)anthracene	< 0.073	0.073	
Dibenzofuran	< 0.37	0.37	
1,2-Dichlorobenzene	< 0.37	0.37	
1,3-Dichlorobenzene	< 0.37	0.37	
1,4-Dichlorobenzene	< 0.37	0.37	
3,3-Dichlorobenzidine	< 0.15	0.73	
2,4-Dichlorophenol	< 0.37	0.37	
Diethylphthalate	< 0.37	0.37	
2,4-Dimethylphenol	< 0.37	0.37	
Dimethylphthalate	< 0.37	0.37	
Di-n-butylphthalate	< 0.37	0.37	

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8270 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
4,6-Dinitro-2-methylphenol	< 0.045	0.045	
2,4-Dinitrophenol	< 0.073	0.073	
2,4-Dinitrotoluene	< 0.059	0.059	
2,6-Dinitrotoluene	< 0.37	0.37	
Di-n-octylphthalate	< 0.37	0.37	
bis(2-Ethylhexyl)phthalate	< 0.37	0.37	
Fluoranthene	< 0.37	0.37	
Fluorene	< 0.37	0.37	
Hexachloro-1,3-butadiene	< 0.073	0.073	
Hexachlorobenzene	< 0.073	0.073	
Hexachlorocyclopentadiene	< 0.37	0.37	
Hexachloroethane	< 0.073	0.073	
Indeno(1,2,3-cd)pyrene	< 0.37	0.37	
Isophorone	< 0.37	0.37	
2-Methylphenol (o-Cresol)	< 0.37	0.37	
3&4-Methylphenol	< 0.73	0.73	
1-Methylnaphthalene	< 0.37	0.37	
2-Methylnaphthalene	< 0.37	0.37	
Naphthalene	**0.893**	0.073	
2-Nitroaniline	< 1.47	1.47	
3-Nitroaniline	< 1.83	1.83	
4-Nitroaniline	< 0.073	0.073	
Nitrobenzene	< 0.04	0.04	
2-Nitrophenol	< 0.37	0.37	
4-Nitrophenol	< 1.83	1.83	
N-Nitroso-di-n-propylamine	< 0.073	0.073	
N-Nitrosodiphenylamine	< 0.37	0.37	
Pentachlorophenol	< 0.073	0.073	
Phenanthrene	< 0.37	0.37	
Phenol	< 0.37	0.37	
Pyrene	< 0.37	0.37	
1,2,4-Trichlorobenzene	< 0.37	0.37	
2,4,5-Trichlorophenol	< 0.37	0.37	
2,4,6-Trichlorophenol	< 0.37	0.37	
2-Fluorophenol (surrogate)	28%		
Phenol-d6 (surrogate)	31%		
Nitrobenzene-d5 (surrogate)	53%		
2-Fluorobiphenyl (surrogate)	50%		
2,4,6-Tribromophenol (surrogate)	45%		
p-Terphenyl-d14 (surrogate)	42%		
Analysis Date:	6/27/2023		
Analysis Time:	3:28		
Analyst Initials:	JAK		
Date Extracted:	6/26/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		
Percent Solids	91%		

All results reported on dry weight basis.

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	SB-6-2-4	**Sample Collection Date/Time:**	6/21/23	14:30
Envision Sample Number:	23-12297	**Sample Received Date/Time:**	6/22/23	9:25
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**196**	2	
Cadmium	< 2	2	
Chromium	**43**	2	
Lead	**36**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date:
Analysis Time: 6-27-23/14:28
Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 062723icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date: 6/28/2023
Hg Analysis Time: 11:55
Hg Analyst Initials: gjd
Date Digested: 6/27/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 062823hg

Percent Solids 91%
All results reported on dry weight basis.

Analytical Report

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Client Name: AUGUST MACK ENVIRONMENTAL

Project ID: JX1600

Client Project Manager: TYLER ZSCHIEDRICH

ENVision Project Number: 2023-1274

Client Sample ID:	SB-6-2-4	**Sample Collection Date/Time:**	6/21/23	14:30
Envision Sample Number:	23-12297	**Sample Received Date/Time:**	6/22/23	9:25
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	9.0%		EPA 1684
Percent Solids	91.0%		EPA 1684
Analysis Date:	6/23/23		
Analyst Initials	NR		

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July 07, 2023

Ms. Cheryl Crum
ENVISION LABORATORIES, INC.
1439 Sandlier Cir. W. Drive
Indianapolis, IN 46239

Project ID: 2023-1274
First Environmental File ID: 23-5329
Date Received: June 23, 2023

Dear Ms. Cheryl Crum:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922023-10: effective 03/07/2023 through 02/28/2024.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Joy Geraci
Project Manager

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Case Narrative

ENVISION LABORATORIES, INC.

Lab File ID: **23-5329**

Project ID: **2023-1274**

Date Received: **June 23, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
23-5329-001	23-12293/SB-7-1-1.5	6/21/2023 15:25
23-5329-002	23-12294/SB-1-2-4	6/21/2023 15:55
23-5329-003	23-12295/SB-2-2-4	6/21/2023 17:05
23-5329-004	23-12296/SB-3-2-4	6/21/2023 11:05
23-5329-005	23-12297/SB-6-2-4	6/21/2023 14:30

Sample Batch Comments:

Sample acceptance criteria were met.

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Case Narrative

ENVISION LABORATORIES, INC.

Lab File ID: **23-5329**

Project ID: **2023-1274**

Date Received: **June 23, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1274
Sample ID: 23-12293/SB-7-1-1.5
Sample No: 23-5329-001

Date Collected: 06/21/23
Time Collected: 15:25
Date Received: 06/23/23
Date Reported: 07/07/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 06/29/23				
Total Solids	90.11		%	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 07/07/23		Preparation Date: 06/26/23		
Aroclor 1016	< 0.016	0.016	mg/kg	
Aroclor 1221	< 0.016	0.016	mg/kg	
Aroclor 1232	< 0.016	0.016	mg/kg	
Aroclor 1242	< 0.016	0.016	mg/kg	
Aroclor 1248	< 0.016	0.016	mg/kg	
Aroclor 1254	< 0.016	0.016	mg/kg	
Aroclor 1260	< 0.016	0.016	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 06/29/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

Sample QC Summary:	*Surrogate Recovery*			*%R Limits*	
Method	*Analyte*	*QC Result*		*Low*	*High*
8082	*Decachlorobiphenyl (Surr)*	*%R:*	*61.9*	*28*	*136*
8082	*Tetrachloro-m-xylene (Surr)*	*%R:*	*81.7*	*61*	*127*

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1274
Sample ID: 23-12294/SB-1-2-4
Sample No: 23-5329-002

Date Collected: 06/21/23
Time Collected: 15:55
Date Received: 06/23/23
Date Reported: 07/07/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 06/29/23				
Total Solids	82.61		%	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 07/07/23		Preparation Date: 06/26/23		
Aroclor 1016	< 0.016	0.016	mg/kg	
Aroclor 1221	< 0.016	0.016	mg/kg	
Aroclor 1232	< 0.016	0.016	mg/kg	
Aroclor 1242	< 0.016	0.016	mg/kg	
Aroclor 1248	< 0.016	0.016	mg/kg	
Aroclor 1254	< 0.016	0.016	mg/kg	
Aroclor 1260	< 0.016	0.016	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 06/29/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

Sample QC Summary:	*Surrogate Recovery*			*%R Limits*	
Method	*Analyte*	*QC Result*		*Low*	*High*
8082	*Decachlorobiphenyl (Surr)*	*%R:*	*56.2*	*28*	*136*
8082	*Tetrachloro-m-xylene (Surr)*	*%R:*	*79.1*	*61*	*127*

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1274
Sample ID: 23-12295/SB-2-2-4
Sample No: 23-5329-003

Date Collected: 06/21/23
Time Collected: 17:05
Date Received: 06/23/23
Date Reported: 07/07/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 06/29/23				
Total Solids	95.34		%	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 07/07/23		Preparation Date: 06/26/23		
Aroclor 1016	< 0.016	0.016	mg/kg	
Aroclor 1221	< 0.016	0.016	mg/kg	
Aroclor 1232	< 0.016	0.016	mg/kg	
Aroclor 1242	< 0.016	0.016	mg/kg	
Aroclor 1248	< 0.016	0.016	mg/kg	
Aroclor 1254	< 0.016	0.016	mg/kg	
Aroclor 1260	< 0.016	0.016	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 06/29/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

Sample QC Summary:	*Surrogate Recovery*			*%R Limits*	
Method	*Analyte*	*QC Result*		*Low*	*High*
8082	*Decachlorobiphenyl (Surr)*	*%R:*	*74.6*	*28*	*136*
8082	*Tetrachloro-m-xylene (Surr)*	*%R:*	*95.5*	*61*	*127*

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IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1274
Sample ID: 23-12296/SB-3-2-4
Sample No: 23-5329-004

Date Collected: 06/21/23
Time Collected: 11:05
Date Received: 06/23/23
Date Reported: 07/07/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 06/29/23				
Total Solids	93.93		%	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 07/07/23		Preparation Date: 06/26/23		
Aroclor 1016	< 0.016	0.016	mg/kg	
Aroclor 1221	< 0.016	0.016	mg/kg	
Aroclor 1232	< 0.016	0.016	mg/kg	
Aroclor 1242	< 0.016	0.016	mg/kg	
Aroclor 1248	< 0.016	0.016	mg/kg	
Aroclor 1254	< 0.016	0.016	mg/kg	
Aroclor 1260	< 0.016	0.016	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 06/29/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

Sample QC Summary:	***Surrogate Recovery***		*%R Limits*	
Method	*Analyte*	*QC Result*	*Low*	*High*
8082	*Decachlorobiphenyl (Surr)*	*0*	*28*	*136*
8082	*Tetrachloro-m-xylene (Surr)*	*0*	*61*	*127*

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1274
Sample ID: 23-12297/SB-6-2-4
Sample No: 23-5329-005

Date Collected: 06/21/23
Time Collected: 14:30
Date Received: 06/23/23
Date Reported: 07/07/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 06/29/23				
Total Solids	89.60		%	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 07/07/23		Preparation Date: 06/26/23		
Aroclor 1016	< 0.016	0.016	mg/kg	
Aroclor 1221	< 0.016	0.016	mg/kg	
Aroclor 1232	< 0.016	0.016	mg/kg	
Aroclor 1242	< 0.016	0.016	mg/kg	
Aroclor 1248	< 0.016	0.016	mg/kg	
Aroclor 1254	< 0.016	0.016	mg/kg	
Aroclor 1260	< 0.016	0.016	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 06/29/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

Sample QC Summary:	*Surrogate Recovery*			*%R Limits*	
Method	*Analyte*	*QC Result*		*Low*	*High*
8082	*Decachlorobiphenyl (Surr)*	*%R:*	*35.3*	*28*	*136*
8082	*Tetrachloro-m-xylene (Surr)*	*%R:*	*66.3*	*61*	*127*

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Quality Control Summary

Client: ENVISION LABORATORIES, INC. **Lab File ID:** 23-5329

Project ID: 2023-1274

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low High	RPD Limit
Parameter:	Chromium, Hexavalent	**Analytical Method:**	3060A/7196A	**Analytical WS #:**	233380	**Analysis Date:**	6/29/2023
23-5329-003MS	MS	Chromium, Hex (Insoluble)	1660	mg/kg	%R: 98	75 - 125	
	MS	Chromium, Hex (Soluble)	27.6	mg/kg	%R: 42 *	75 - 125	
		MS outside control limits. All other QCIs are within acceptance limits.					
CCB818265	CB	Chromium, Hexavalent	< 0.005	mg/L	0	-	
CCB818266	CB	Chromium, Hexavalent	< 0.005	mg/L	0	-	
CCB818267	CB	Chromium, Hexavalent	< 0.005	mg/L	0	-	
CCVS818268	CCVS	Chromium, Hexavalent	0.122	mg/L	%R: 97.6	90 - 110	
CCVS818269	CCVS	Chromium, Hexavalent	0.127	mg/L	%R: 101.6	90 - 110	
CCVS818270	CCVS	Chromium, Hexavalent	0.127	mg/L	%R: 101.6	90 - 110	
LCS818271	LCS	Chromium, Hex (Soluble)	1.28	mg/L	%R: 102.4	80 - 120	
LCS818274	LCS	Chromium, Hex (Insoluble)	33.3	mg/L	%R: 103.6	80 - 120	
PB818273	PB	Chromium, Hexavalent	< 0.05	mg/L	0	-	

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: ENVISION LABORATORIES, INC. **Lab File ID:** 23-5329

Project ID: 2023-1274

QC Lab#	Time / QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Parameter:	Polychlorinated biphenyls (PCBs)	**Analytical Method:**	8082		**Analytical WS #:** 233635		**Analysis Date:**	7/7/2023
		Prep Method:	3540C		**Prep WS#:** 39569		**Prep Date:**	6/26/2023
LCS74470	LCS	Aroclor 1016		ug/kg		72	126	
	LCS	Aroclor 1260		ug/kg		56	121	
Method Blank7447	BLK	Aroclor 1016		ug/kg		-		
	BLK	Aroclor 1221		ug/kg		-		
	BLK	Aroclor 1232		ug/kg		-		
	BLK	Aroclor 1242		ug/kg		-		
	BLK	Aroclor 1248		ug/kg		-		
	BLK	Aroclor 1254		ug/kg		-		
	BLK	Aroclor 1260		ug/kg		-		
	BLK	Aroclor 1268		ug/kg		-		

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

1st

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. [1439 Sadlier Circle West Drive, Indianapolis, IN 46239] Phone: 317-351-8632 Fax: 317-351-8639

Client: **ENVision Labs**	Invoice Address: **SEE ABOVE**	**REQUESTED PARAMETE**	Sample Integrity:
Report Address: **SEE ABOVE**	Project Name: 2023-1274	PCB RCG LIMITS / HEX CHROMIUM / % MOISTURE	Cooler Temp: 1.8 °C
Report To: CHERYL CRUM	Lab contact:		Samples on ice? (Yes) No
Phone: **SEE ABOVE**	Sampler:		Samples Intact? (Yes) No
e-mail: **SEE ABOVE**	P.O. #:		Custody Seal? (Yes) No
Desired TAT: (Please Circle one) **1-day 2-day 3-day** **Std (5 bus. Days)**	QA/QC Required: (Circle One) **Level II Level III Level IV**		ENVision provided bottles? (Yes) No
			Vials free of head space? Yes No (N/A)
			pH Checked? Yes No (N/A)
			Method 5035 collection used? YES (NO)
			5035 samples received within 48rhs of collection? Yes No

Sample ID		Matrix	Coll. Date	Coll. Time				HCl	HNO3	H2SO4	NaOH	Other	None	ENVision Sample ID
23-12293	SB-7-1-1.5	SL	6/21/23	15:25	X	X	X						1	23-5329 - 001
23-12294	SB-1-2-4	SL	6/21/23	15:55	X	X	X						1	002
23-12295	SB-2-2-4	SL	6/21/23	17:05	X	X	X						1	003
23-12296	SB-3-2-4	SL	6/21/23	11:05	X	X	X						1	004
23-12297	SB-6-2-4	SL	6/21/23	14:30	X	X	X						1	005

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
LISA DAULTON	6/22/2023	12:00		6/23/23	1200

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EPA 8260 Quality Control Data

ENVision Batch Number: 062323VS

Method Blank (MB):	MB Results (ug/kg)	Rep Lim (ug/kg)	Flag
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	

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8260 QC Continued…

Method Blank (MB)	MB Results (ug/kg)	Rep Lim (ug/kg)	Flag
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	93%		
1,2-Dichloroethane-d4 (surrogate)	92%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	92%		
Analysis Date/Time:	6-23-23/19:43		
Analyst Initials	tjg		

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8260 QC Continued…

LCS/LCSD:	LCS Results (ug/kg)	LCS/LCSD Conc. (ug/kg)	LCSD Result (ug/kg)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	50.5	50	51.9	101%	104%	2.7	
1,1-Dichloroethene	47.5	50	47.0	95%	94%	1.1	
trans-1,2-Dichloroethene	51.4	50	48.9	103%	98%	5.0	
Methyl-tert-butyl ether	47.0	50	47.5	94%	95%	1.1	
1,1-Dichloroethane	47.1	50	47.1	94%	94%	0.0	
cis-1,2-Dichloroethene	44.4	50	49.6	89%	99%	11.1	
Chloroform	47.3	50	51.6	95%	103%	8.7	
1,1,1-Trichloroethane	48.4	50	53.2	97%	106%	9.4	
Benzene	48.3	50	52.1	97%	104%	7.6	
Trichloroethene	52.1	50	56.3	104%	113%	7.7	
Toluene	53.3	50	51.5	107%	103%	3.4	
1,1,1,2-Tetrachloroethane	51.2	50	55.6	102%	111%	8.2	
Chlorobenzene	46.5	50	50.9	93%	102%	9.0	
Ethylbenzene	44.8	50	49.0	90%	98%	9.0	
o-Xylene	46.9	50	51.9	94%	104%	10.1	
n-Propylbenzene	46.5	50	52.0	93%	104%	11.2	
Dibromofluoromethane (surrogate)	100%		98%				
1,2-Dichloroethane-d4 (surrogate)	106%		94%				
Toluene-d8 (surrogate)	112%		110%				
4-bromofluorobenzene (surrogate)	95%		95%				
Analysis Date/Time:	6-23-23/18:55		6-23-23/19:11				
Analyst Initials	tjg		tjg				

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EPA 8270 Quality Control Data

ENVision Batch Number: 062623BS

Method Blank (MB):	Method Blank Results (mg/kg)	Reporting Limit (mg/kg)	Flag
Acenaphthene	< 0.33	0.33	
Acenaphthylene	< 0.33	0.33	
Aniline	< 0.33	0.33	
Anthracene	< 0.33	0.33	
Benzo(a)anthracene	< 0.33	0.33	
Benzo(a)pyrene	< 0.33	0.33	
Benzo(b)fluoranthene	< 0.33	0.33	
Benzo(g,h,i)perylene	< 0.33	0.33	
Benzo(k)fluoranthene	< 0.33	0.33	
Benzoic Acid	< 1.6	1.6	
Benzyl Alcohol	< 0.66	0.66	
4-Bromophenylphenyl ether	< 0.33	0.33	
Butylbenzylphthalate	< 0.33	0.33	
Carbazole	< 0.66	0.66	
4-Chloro-3-methylphenol	< 0.66	0.66	
4-Chloroaniline	< 0.66	0.66	
bis(2-Chloroethoxy)methane	< 0.33	0.33	
bis(2-Chloroethyl)ether	< 0.33	0.33	
bis(2-Chloroisopropyl)ether	< 0.33	0.33	
2-Chloronaphthalene	< 0.33	0.33	
2-Chlorophenol	< 0.33	0.33	
4-Chlorophenylphenyl ether	< 0.33	0.33	
Chrysene	< 0.33	0.33	
Dibenzo(a,h)anthracene	< 0.33	0.33	
Dibenzofuran	< 0.33	0.33	
1,2-Dichlorobenzene	< 0.33	0.33	
1,3-Dichlorobenzene	< 0.33	0.33	
1,4-Dichlorobenzene	< 0.33	0.33	
3,3-Dichlorobenzidine	< 0.66	0.66	
2,4-Dichlorophenol	< 0.33	0.33	
Diethylphthalate	< 0.33	0.33	
2,4-Dimethylphenol	< 0.33	0.33	
Dimethylphthalate	< 0.33	0.33	
Di-n-butylphthalate	< 0.33	0.33	
4,6-Dinitro-2-methylphenol	< 1.6	1.6	
2,4-Dinitrophenol	< 1.6	1.6	
2,4-Dinitrotoluene	< 0.33	0.33	
2,6-Dinitrotoluene	< 0.33	0.33	
Di-n-octylphthalate	< 0.33	0.33	
bis(2-Ethylhexyl)phthalate	< 0.33	0.33	
Fluoranthene	< 0.33	0.33	
Fluorene	< 0.33	0.33	
Hexachloro-1,3-butadiene	< 0.33	0.33	
Hexachlorobenzene	< 0.33	0.33	

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8270 QC continued…

Method Blank (MB):	Method Blank Results (mg/kg)	Reporting Limit (mg/kg)	Flag
Hexachlorocyclopentadiene	< 0.33	0.33	
Hexachloroethane	< 0.33	0.33	
Indeno(1,2,3-cd)pyrene	< 0.33	0.33	
Isophorone	< 0.33	0.33	
2-Methylnaphthalene	< 0.33	0.33	
2-Methylphenol (o-Cresol)	< 0.33	0.33	
3&4-Methylphenol	< 0.66	0.66	
Naphthalene	< 0.33	0.33	
2-Nitroaniline	< 1.6	1.6	
3-Nitroaniline	< 1.6	1.6	
4-Nitroaniline	< 1.6	1.6	
Nitrobenzene	< 0.33	0.33	
2-Nitrophenol	< 0.33	0.33	
4-Nitrophenol	< 1.6	1.6	
N-Nitroso-di-n-propylamine	< 0.33	0.33	
N-Nitrosodiphenylamine	< 0.33	0.33	
Pentachlorophenol	< 1.6	1.6	
Phenanthrene	<0.3	0.3	
Phenol	< 0.33	0.33	
Pyrene	< 0.33	0.33	
1,2,4-Trichlorobenzene	< 0.33	0.33	
2,4,5-Trichlorophenol	< 0.33	0.33	
2,4,6-Trichlorophenol	< 0.33	0.33	
2-Fluorophenol (surrogate)	31%		
Phenol-d6 (surrogate)	28%		
Nitrobenzene-d5 (surrogate)	43%		
2-Fluorobiphenyl (surrogate)	34%		
2,4,6-Tribromophenol (surrogate)	32%		
p-Terphenyl-d14 (surrogate)	32%		
Analysis Date/Time:	06-27-23/00:27		
Analyst Initials:	gjd		
Date Extracted:	6/26/2023		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		

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LCS/LCSD:	LCS Results	LCS Concentration	LCSD Results	LCS Recovery	LCSD Recovery	RPD	Flag
Phenol	20.51	50.0	22.3	41%	45%	8.5%	
2-Chlorophenol	20.95	50.0	23.6	42%	47%	11.8%	
1,4-Dichlorobenzene	20.49	50.0	20.0	41%	40%	2.3%	
N-Nitroso-di-n-propylamine	20.67	50.0	21.9	41%	44%	5.9%	
1,2,4-Trichlorobenzene	20.50	50.0	22.0	41%	44%	7.1%	
4-Chloro-3-methylphenol	21.15	50.0	21.7	42%	43%	2.7%	
2,4,5-Tricholorphenol	20.83	50.0	21.3	42%	43%	2.0%	
2-Nitroaniline	21.87	50.0	22.4	44%	45%	2.3%	
3-Nitroaniline	22.07	50.0	20.8	44%	42%	6.0%	
Acenaphthene	20.96	50.0	22.8	42%	46%	8.4%	
4-Nitrophenol	20.60	100.0	21.0	21%	21%	1.7%	
2,4-Dinitrotoluene	23.97	50.0	21.1	48%	42%	13.0%	
4-Nitroaniline	21.20	50.0	20.8	42%	42%	1.9%	
4,6-Dinitro-2-methylphenol	23.51	50.0	25.3	47%	51%	7.2%	
Pentachlorophenol	21.44	50.0	22.7	43%	45%	5.7%	
Pyrene	20.88	50.0	23.5	42%	47%	11.8%	
2-Fluorophenol (surrogate)	35%		42%				
Phenol-d6 (surrogate)	33%		42%				
Nitrobenzene-d5 (surrogate)	26%		29%				
2-Fluorobiphenyl (surrogate)	31%		39%				
2,4,6-Tribromophenol (surrogate)	35%		42%				
p-Terphenyl-d14 (surrogate)	27%		38%				
Analysis Date/Time:	06-27-23/00:53		06-27-23/01:18				
Analyst Initials:	gjd		gjd				
Date Extracted:	6/26/2023		6/26/2023				
Initial Sample Weight:	30 g		30 g				
Final Volume:	1.0 mL		1.0 mL				

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EPA 6010B/7471A Metals Quality Control Data

ENVision Batch Number: 062723icp/062823hg

Method Blank (MB):	MB Results (mg/kg)	Rep Lim (mg/kg)	Flag
Arsenic	< 2	2	
Barium	< 2	2	
Cadmium	< 2	2	
Chromium	< 2	2	
Lead	< 2	2	
Mercury	< 1	1	
Selenium	< 2	2	
Silver	< 2	2	
Analysis Date/Time:	6-27-23/10:26icp/6/28/23/11:17hg		
Analyst Initials:	gjd		

Laboratory Control Standard:	LCS Results(ppm)	LCS Conc(ppm)	% Rec	Flag
Arsenic	0.54	0.50	108%	
Barium	0.52	0.50	104%	
Cadmium	0.53	0.50	106%	
Chromium	0.49	0.50	98%	
Lead	0.53	0.50	106%	
Mercury	0.0056	0.005	112%	
Selenium	0.52	0.50	104%	
Silver	0.51	0.50	102%	
Analysis Date/Time:	6-27-23/10:24icp/06/28/23/11:15hg			
Analyst Initials:	gjd			

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EPA 8260 Quality Control Data

ENVision Batch Number: 062523VS

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	

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8260 QC Continued…

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Hexachloro-1,3-butadiene	< 2.6	2.6	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	95%		
1,2-Dichloroethane-d4 (surrogate)	95%		
Toluene-d8 (surrogate)	107%		
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	6-25-23/06:06		
Analyst Initials	tjg		

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8260 QC Continued…

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	47.9	50	52.9	96%	106%	9.9	
1,1-Dichloroethene	50.5	50	46.6	101%	93%	8.0	
trans-1,2-Dichloroethene	48.6	50	46.4	97%	93%	4.6	
Methyl-tert-butyl-ether	49.7	50	47.6	99%	95%	4.3	
1,1-Dichloroethane	46.5	50	45.3	93%	91%	2.6	
cis-1,2-Dichloroethene	50.6	50	48.8	101%	98%	3.6	
Chloroform	50.4	50	49.2	101%	98%	2.4	
1,1,1-Trichloroethane	51.3	50	50.6	103%	101%	1.4	
Benzene	53.1	50	50.8	106%	102%	4.4	
Trichloroethene	54.7	50	53.3	109%	107%	2.6	
Toluene	51.3	50	56.6	103%	113%	9.8	
1,1,1,2-Tetracholorethane	58.4	50	51.5	117%	103%	12.6	
Chlorobenzene	52.9	50	46.1	106%	92%	13.7	
Ethylbenzene	50.9	50	44.3	102%	89%	13.9	
o-Xylene	53.8	50	46.7	108%	93%	14.1	
n-Propylbenzene	55.2	50	46.6	110%	93%	16.9	
Dibromofluoromethane (surrogate)	93%		102%				
1,2-Dichloroethane-d4 (surrogate)	96%		98%				
Toluene-d8 (surrogate)	106%		116%				
4-bromofluorobenzene (surrogate)	100%		94%				
Analysis Date/Time:	6-25-23/05:03		6-25-23/05:35				
Analyst Initials	tjg		tjg				

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EPA 8270 Quality Control Data

ENVision Batch Number: 062823BW

BNA Method Blank (MB):	Method Blank Result (ug/L)	Reporting Limit (ug/L)	Flag
Aniline	< 10	10	
Benzoic Acid	< 50	50	
Benzyl Alcohol	< 20	20	
4-Bromophenylphenyl ether	< 10	10	
Butylbenzylphthalate	< 10	10	
Carbazole	< 20	20	
4-Chloro-3-methylphenol	< 20	20	
4-Chloroaniline	< 20	20	
bis(2-Chloroethoxy)methane	< 10	10	
bis(2-Chloroethyl)ether	< 10	10	
bis(2-Chloroisopropyl)ether	< 10	10	
2-Chloronaphthalene	< 10	10	
2-Chlorophenol	< 10	10	
4-Chlorophenylphenyl ether	< 10	10	
Dibenzofuran	< 10	10	
1,2-Dichlorobenzene	< 10	10	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 10	10	
3,3-Dichlorobenzidine	< 20	20	
2,4-Dichlorophenol	< 10	10	
Diethylphthalate	< 10	10	
2,4-Dimethylphenol	< 20	20	
Dimethylphthalate	< 10	10	
Di-n-butylphthalate	< 10	10	
4,6-Dinitro-2-methylphenol	< 50	50	
2,4-Dinitrophenol	< 50	50	
2,4-Dinitrotoluene	< 10	10	
2,6-Dinitrotoluene	< 10	10	
Di-n-octylphthalate	< 10	10	
bis(2-Ethylhexyl)phthalate	< 5	5	
Hexachloro-1,3-butadiene	< 10	10	
Hexachlorobenzene	< 5	5	
Hexachlorocyclopentadiene	< 25	25	
Hexachloroethane	< 10	10	
Isophorone	< 10	10	
2-Methylphenol (o-Cresol)	< 10	10	
3&4-Methylphenol	< 20	20	
2-Nitroaniline	< 50	50	
3-Nitroaniline	< 50	50	
4-Nitroaniline	< 50	50	
Nitrobenzene	< 10	10	
2-Nitrophenol	< 10	10	
4-Nitrophenol	< 50	50	
N-Nitroso-di-n-propylamine	< 10	10	
N-Nitrosodiphenylamine	< 10	10	

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8270 QC Continued…

BNA Method Blank (MB):	Method Blank Result (ug/L)	Reporting Limit (ug/L)	Flag
Pentachlorophenol	< 50	50	
Phenol	< 10	10	
1,2,4-Trichlorobenzene	< 10	10	
2,4,5-Trichlorophenol	< 10	10	
2,4,6-Trichlorophenol	< 10	10	
2-Fluorophenol (surrogate)	90%		
Phenol-d6 (surrogate)	49%		
Nitrobenzene-d5 (surrogate)	80%		
2-Fluorobiphenyl (surrogate)	77%		
2,4,6-Tribromophenol (surrogate)	93%		
p-Terphenyl-d14 (surrogate)	87%		
Analysis Date/Time:	06-28-23/17:57		
Analyst Initials:	JAK		
Date Extracted:	6/28/2023		
Initial Sample Volume:	1000 mL		
Final Volume:	1.0 mL		

PAH-SIM Method Blank (MB):	Method Blank Result (ug/L)	Reporting Limit (ug/L)	Flag
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.10	0.10	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Analysis Date/Time:	06-23-23/21:52		
Analyst Initials	JAK		

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8270 QC continued...

LCS/LCSD:	LCS Result (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Recovery	LCSD Recovery	RPD	Flag
Acenaphthene	20.53	50.00	21.35	41.1%	42.7%	3.9%	
4-Chloro-3-methylphenol	24.27	50.00	23.89	48.5%	47.8%	1.6%	
2-Chlorophenol	25.96	50.00	26.70	51.9%	53.4%	2.8%	
1,4-Dichlorobenzene	21.88	50.00	21.21	43.8%	42.4%	3.1%	
4,6-Dinitro-2-methylphenol	20.89	50.00	21.20	41.8%	42.4%	1.5%	
2,4-Dinitrotoluene	23.80	50.00	25.25	47.6%	50.5%	5.9%	
2-Nitroaniline	25.61	50.00	25.11	51.2%	50.2%	2.0%	
3-Nitroaniline	20.23	50.00	22.54	40.5%	45.1%	10.8%	
4-Nitroaniline	24.85	50.00	26.06	49.7%	52.1%	4.8%	
4-Nitrophenol	27.30	100.00	27.80	27.3%	27.8%	1.8%	
N-Nitroso-di-n-propylamine	21.38	50.00	21.80	42.8%	43.6%	1.9%	
Pentachlorophenol	24.34	50.00	24.42	48.7%	48.8%	0.3%	
Phenol	25.57	50.00	24.36	51.1%	48.7%	4.8%	
Pyrene	22.57	50.00	21.06	45.1%	42.1%	6.9%	
1,2,4-Trichlorobenzene	23.02	50.00	22.94	46.0%	45.9%	0.3%	
2,4,5-Tricholorphenol	24.20	50.00	26.85	48.4%	53.7%	10.4%	
2-Fluorophenol (surrogate)	88%		80%				
Phenol-d6 (surrogate)	30%		89%				
Nitrobenzene-d5 (surrogate)	77%		76%				
2-Fluorobiphenyl (surrogate)	71%		75%				
2,4,6-Tribromophenol (surrogate)	93%		92%				
p-Terphenyl-d14 (surrogate)	93%		91%				
Analysis Date/Time:	06-28-23/18:23		06-28-23/18:49				
Analyst Initials:	JAK		JAK				
Date Extracted:	6/28/2023		6/28/2023				
Initial Sample Volume:	1000 mL		1000 mL				
Final Volume:	1.0 mL		1.0 mL				

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EPA 6010B/7470A Metals Quality Control Data

ENVision Batch Number: 062723icp/062823hg

Method Blank (MB):	MB Results (mg/L)	Rep Lim (mg/L)	Flag
Arsenic, dissolved	< 0.01	0.01	
Barium, dissolved	< 0.1	0.1	
Cadmium, dissolved	< 0.005	0.005	
Chromium, dissolved	< 0.01	0.01	
Lead, dissolved	< 0.01	0.01	
Mercury, dissolved	< 0.002	0.002	
Selenium, dissolved	< 0.01	0.01	
Silver, dissolved	< 0.05	0.05	
Analysis Date/Time:	6-27-23/10:22icp/6/28/23/11:17hg		
Analyst Initials:	gjd		

Laboratory Control Standard (LCS):	LCS Results(mg/L)	LCS Conc(mg/L)	% Rec	Flag
Arsenic, dissolved	0.48	0.50	96	
Barium, dissolved	0.49	0.50	98	
Cadmium, dissolved	0.49	0.50	98	
Chromium, dissolved	0.51	0.50	102	
Lead, dissolved	0.53	0.50	106	
Mercury, dissolved	0.0056	0.005	112	
Selenium, dissolved	0.48	0.50	96	
Silver, dissolved	0.48	0.50	96	
Analysis Date/Time:	6-27-23/10:20icp/6/28/23/11:15hg			
Analyst Initials:	gjd			

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Flag Number	Comments
1	Reported value is below the reporting limit but above the MDL.
2	Reported value is from a 50x dilution. TJG 6/29/23

ENVision Proj#: 2023-1274 Page 1 of 1

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: AME	Invoice Address: Same
Report Address: 1302 N Meridian St. Indianapolis, IN	Project Name: JX16OO
Report To: Tyler Z	Lab Contact: Cheryl Crum
Phone:	Sampled by: A Hicks
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

Sample Integrity:
Cooler Temp: 2 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	VOCs	SVOCs + RCRA8 + TCLP	CR+6 + PCB	SVOCs RCRA8, Diss	HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
SB-1-GW-6-16	6/21	1630	G	WT	X			X	X						X	23-12287
SB-2-GW-2-12		1725		WT	X			X	X						X	12288
SB-3-GW-7-17		1130		WT	X			X	X				X			12289
SB-4-GW-6-16		1251		WT	X			X	X				X			12290
SB-5-GW-6-16		1350		WT	X			X	X				X			12291
SB-6-GW-6-16		1506		WT	X			X	X						X	12292
SB-7-1-1.5		1525		SL	X	X	X								X	12293
SB-1-2-4		1555		SL	X	X	X								X	12294
SB-2-2-4		1705		SL	X	X	X								X	12295
SB-3-2-4		1105		SL	X	X	X								X	12296
SB-6-2-4		1430		SL	X	X	X								X	12297

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6-22-23	9:25	[signature]	6-22-23	925

5035 CHECK-IN SHEET

Client Name: AUGUST MACK ENV. ENVision project#: 2023-1274

Cooler Temp: 2°C

Method 5035A used: YES X NO □

ENVision provided tared vials w/stir bars & Terra Core T-handles: YES X NO □

5035A samples were received within 48 hrs of collection: YES X NO □

5035A samples were frozen within 48 hrs of collection by lab: YES X NO □
If NO, did client freeze samples? YES □ NO □

> 5035ATable A.1 Reference:
> Sample is extruded into an empty sealed vial and cooled to 4° ± 2°C for no more than 48 hours then frozen to < -7°C upon laboratory receipt.

Methanol was added to a vial from each sample for Medium-Level dilution within 48 hrs of collection: YES X NO □

> 5035ATable A.1 Reference:
> Sample is extruded into an empty sealed vial and cooled to 4° ± 2°C for no more than 48 hours then preserved with methanol upon laboratory receipt.

Performed by/Date: LISA DAULTON 06-22-23