MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF
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ENVIRONMENTAL LABORATORY

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

30 November 2022

Work Order: 2211065

Price: $3,250.00

Dan Hamel
EGLE-RRD-JACKSON
301 E. Louis Glick Highway
Jackson, MI 49201-1556

RE: GELMAN SCIENCES, INC

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

Kirby Shane
Laboratory Director

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EGLE-RRD-JACKSON	Project: GELMAN SCIENCES, INC	
301 E. Louis Glick Highway	Site Code: 81000018	**Reported:**
Jackson MI, 49201-1556	Project Manager: Dan Hamel	11/30/2022

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
SMITH POND-EAST	2211065-01	Water	11/02/2022	11/04/2022	
SMITH POND-WEST	2211065-02	Water	11/02/2022	11/04/2022	
LITTLE LAKE	2211065-03	Water	11/02/2022	11/04/2022	
UNNAMED TRIB-JACKSON	2211065-04	Water	11/02/2022	11/04/2022	
UNNAMED TRIB-PARK	2211065-05	Water	11/02/2022	11/04/2022	
SECOND SISTER LAKE	2211065-06	Water	11/02/2022	11/04/2022	
FIRST SISTER LAKE	2211065-07	Water	11/02/2022	11/04/2022	
ARBOR LANDING POND	2211065-08	Water	11/02/2022	11/04/2022	
HONEYCREEK-DEXTER	2211065-09	Water	11/02/2022	11/04/2022	
HONEYCREEK-MILLER	2211065-10	Water	11/02/2022	11/04/2022	
UNNAMED TRIB-OUTFALL	2211065-11	Water	11/02/2022	11/04/2022	
UNNAMED TRIB-MARSHY AREA	2211065-12	Water	11/02/2022	11/04/2022	
THIRD SISTER LAKE	2211065-13	Water	11/02/2022	11/04/2022	
HURON RIVER-MAPLE BRIDGE	2211065-14	Water	11/02/2022	11/04/2022	
HC/HR-RIVER	2211065-15	Water	11/02/2022	11/04/2022	
HONEYCREEK-W HURON DR	2211065-16	Water	11/02/2022	11/04/2022	
ALLEN CREEK-GLENDALE	2211065-17	Water	11/03/2022	11/04/2022	
HANNA NATURE AREA	2211065-18	Water	11/03/2022	11/04/2022	
ALLEN CREEK-CHAPIN	2211065-19	Water	11/03/2022	11/04/2022	
WEST PARK-SW	2211065-20	Water	11/03/2022	11/04/2022	
WEST PARK-SW DUP	2211065-21	Water	11/03/2022	11/04/2022	
STORM GRATE-8TH	2211065-22	Water	11/03/2022	11/04/2022	
ALLEN CREEK-8TH	2211065-23	Water	11/03/2022	11/04/2022	
WEST PARK POND	2211065-24	Water	11/03/2022	11/04/2022	
THIRD SISTER LAKE-DUP	2211065-25	Water	11/02/2022	11/04/2022	

Notes and Definitions

ND	Indicates compound analyzed for but not detected at or above the reporting limit (RL).
RL	Reporting Limit
NA	Not Applicable

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*****Case Narrative*****

Samples were received **11/4/2022 2:45:00PM** for client **EGLE-RRD-JACKSON** as a part of project **GELMAN SCIENCES, INC**.

Samples were logged and designated as Work Order # **2211065** on **11/4/2022 2:57:00PM**.

This Report was created **11/30/2022 11:23:07AM**.

Additional Notes/Narrative (if applicable):

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Client ID: SMITH POND-EAST

Lab ID: 2211065-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	1,4-dioxane	ND	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: SMITH POND-WEST

Lab ID: 2211065-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	1,4-dioxane	ND	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: LITTLE LAKE

Lab ID: 2211065-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**6.6**	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: UNNAMED TRIB-JACKSON

Lab ID: 2211065-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	1,4-dioxane	ND	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: UNNAMED TRIB-PARK

Lab ID: 2211065-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**4.8**	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: SECOND SISTER LAKE

Lab ID: 2211065-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	1,4-dioxane	ND	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: FIRST SISTER LAKE

Lab ID: 2211065-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	1,4-dioxane	ND	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: ARBOR LANDING POND

Lab ID: 2211065-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	1,4-dioxane	ND	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: HONEYCREEK-DEXTER

Lab ID: 2211065-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**2.4**	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: HONEYCREEK-MILLER

Lab ID: 2211065-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**2.1**	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: UNNAMED TRIB-OUTFALL

Lab ID: 2211065-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**6.8**	0.50	ug/L	1	11/10/22	B2K1717	8260 Modified	RD	

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Client ID: UNNAMED TRIB-MARSHY AREA

Lab ID: 2211065-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**3.7**	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: THIRD SISTER LAKE

Lab ID: 2211065-13

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**98**	5.0	ug/L	10	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: HURON RIVER-MAPLE BRIDGE

Lab ID: 2211065-14

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	1,4-dioxane	ND	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: HC/HR-RIVER

Lab ID: 2211065-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	1,4-dioxane	ND	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: HONEYCREEK-W HURON DR

Lab ID: 2211065-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**1.6**	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: ALLEN CREEK-GLENDALE

Lab ID: 2211065-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	1,4-dioxane	ND	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: HANNA NATURE AREA

Lab ID: 2211065-18

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**1.0**	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: ALLEN CREEK-CHAPIN

Lab ID: 2211065-19

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**15**	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: WEST PARK-SW

Lab ID: 2211065-20

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**37**	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: WEST PARK-SW DUP

Lab ID: 2211065-21

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**35**	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: STORM GRATE-8TH

Lab ID: 2211065-22

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**19**	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: ALLEN CREEK-8TH

Lab ID: 2211065-23

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**2.4**	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: WEST PARK POND

Lab ID: 2211065-24

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**1.1**	0.50	ug/L	1	11/15/22	B2K1718	8260 Modified	RD	

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Client ID: THIRD SISTER LAKE-DUP

Lab ID: 2211065-25

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Dioxane										
123-91-1	**1,4-dioxane**	**100**	5.0	ug/L	10	11/15/22	B2K1718	8260 Modified	RD	

EGLE

Department of Environment, Great Lakes, and Energy
Laboratory Services Section

Analysis Request Sheet

Lab Work Order Number	Project Name	Matrix
221665	Gelman Sciences	WATER

Location ID: 81000018/Location 6130	Program:	CC Email 1:	Project TAT Days:	Sample Collector:
Dept-Division-District: EGLE-RRD-Jackson	Activity:	CC Email 2:	Project Due Date:	Sample Collector Phone:
State Project Manager: Dan Hamel	Funding Source:	CC Email 3:		Contract Firm:
State Project Manager Email: hameld@michigan.gov	Location Code: 6130	Overflow Lab Choice 1:	Accept Analysis hold time codes:	Contract Firm Primary Contact:
State Project Manager Phone: (517) 745-6595	SUD Location Code:	Overflow Lab Choice 2:		Primary Contact Phone:

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
1		SMITH POND - EAST	11/2/22	0940	2	Please include QA/QC with lab Data Reports
2		SMITH POND - WEST	11/2/22	0943	2	
3		LITTLE LAKE	11/2/22	1010	2	
4		UNAMED TRIB - JACKSON	11/2/22	1025	2	
5		UNAMED TRIB - PARK	11/2/22	1055	2	
6		SECOND SISTER LAKE	11/2/22	1110	2	
7		FIRST SISTER LAKE	11/2/22	1125	2	
8		ARBOR LANDING POND	11/2/22	1145	2	
9		HONEY CREEK - DEXTER	11/2/22	1205	2	
10		HONEY CREEK - MILLER	11/2/22	1215	2	

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic	
Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10
METH - Methane, Ethane, Ethene	
Methane, Ethane, Ethene	1 2 3 4 5 6 7 8 9 10
ON - Pesticides, PCBs	
Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10
Chlordane	1 2 3 4 5 6 7 8 9 10
BNA - Base Neutral Acids	
BNAs	1 2 3 4 5 6 7 8 9 10
Benzidines	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10
Acids only	1 2 3 4 5 6 7 8 9 10
Organic Specialty Requests	
Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

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

MAD - DISSOLVED METALS

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

MA - TOTAL METALS

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

GENERAL CHEMISTRY

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

* (FF)-Field Filtered

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	DAN HAMEL EGLE-RRD	Chris Svoboda EGLE RRD	11/3/22 16:05
Signature:	Dan Hamel		
Print Name & Org.	Chris Svoboda EGLE RRD	Nicole Hyndigan	11/4/22 1445
Signature:		Nicole Hyndigan	
Print Name & Org.			
Signature:			

EGLE

Department of Environment, Great Lakes, and Energy
Laboratory Services Section

Analysis Request Sheet

Lab Work Order Number	Project Name	Matrix
2211065	Gelman Sciences	WATER

Location ID: 81000018/Location 6130	Program:	CC Email 1:	Project TAT Days:	Sample Collector:
Dept-Division-District: EGLE-RRD-Jackson	Activity:	CC Email 2:	Project Due Date:	Sample Collector Phone:
State Project Manager: Dan Hamel	Funding Source:	CC Email 3:		Contract Firm:
State Project Manager Email: hameld@michigan.gov	Location Code: 6130	Overflow Lab Choice 1:	Accept Analysis hold time codes:	Contract Firm Primary Contact:
State Project Manager Phone: (517) 745-6595	SUD Location Code:	Overflow Lab Choice 2:		Primary Contact Phone:

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
1		UNAMED TRIB - OUTFALL	11/2/22	1415	2	Please include QA/QC with lab Data Reports
2		UNAMED TRIB - MARSHY AREA	11/2/22	1430	2	
3		TAERD SISTER LAKE	11/2/22	1440	2	
4		HURON RIVER - MAPLE BRIDGE	11/2/22	1510	2	
5		HC/HR - RIVER	11/2/22	1520	2	
6		HONEY CREEK - W HURON DR	11/2/22	1535	2	
7		ALLEN CREEK - GLENDALE	11/3/22	1115	2	
8		HANNA NATURE AREA	11/3/22	1135	2	
9		ALLEN CREEK - CHAPIN	11/3/22	1303	2	
10		WEST PARK - SW	11/3/22	1340	2	

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic	
Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10
METH - Methane, Ethane, Ethene	
Methane, Ethane, Ethene	1 2 3 4 5 6 7 8 9 10
ON - Pesticides, PCBs	
Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10
Chlordane	1 2 3 4 5 6 7 8 9 10
BNA - Base Neutral Acids	
BNAs	1 2 3 4 5 6 7 8 9 10
Benzidines	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10
Acids only	1 2 3 4 5 6 7 8 9 10
Organic Specialty Requests	
Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

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

MAD - DISSOLVED METALS

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

MA - TOTAL METALS

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

GENERAL CHEMISTRY

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

* (FF)-Field Filtered

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	DAN HAMEL EGLE-RRD	Chris Svoboda EGLE RRD	11/3/22 16:05
Signature:	Dan Hamel		
Print Name & Org.	Chris Svoboda EGLE-RRD	Nicole Hardigan	11/4/22 1445
Signature:		Nicole Hardigan	
Print Name & Org.			
Signature:			

EGLE

Department of Environment, Great Lakes, and Energy
Laboratory Services Section

Analysis Request Sheet

Lab Work Order Number	Project Name	Matrix
2211065	Gelman Sciences	WATER

Location ID: 81000018/Location 6130	Program:	CC Email 1:	Project TAT Days:	Sample Collector:
Dept-Division-District: EGLE-RRD-Jackson	Activity:	CC Email 2:	Project Due Date:	Sample Collector Phone:
State Project Manager: Dan Hamel	Funding Source:	CC Email 3:		Contract Firm:
State Project Manager Email: hameld@michigan.gov	Location Code: 6130	Overflow Lab Choice 1:	Accept Analysis hold time codes:	Contract Firm Primary Contact:
State Project Manager Phone: (517) 745-6595	SUD Location Code:	Overflow Lab Choice 2:		Primary Contact Phone:

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
1		WEST PARK-SW DUP	11/3/22	1340	2	Please include QA/QC with lab Data Reports
2		STORM GRATE - 8th	11/3/22	1404	2	
3		ALLEN CREEK - 8th	11/3/22	1407	2	
4		WEST PARK POND	11/3/22	1430	2	
5		Third Sister Lake-DUP	11/3/22	1440	2	
6						
7						
8						
9						
10						

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic	
Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10
METH - Methane, Ethane, Ethene	
Methane, Ethane, Ethene	1 2 3 4 5 6 7 8 9 10
ON - Pesticides, PCBs	
Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10
Chlordane	1 2 3 4 5 6 7 8 9 10
BNA - Base Neutral Acids	
BNAs	1 2 3 4 5 6 7 8 9 10
Benzidines	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10
Acids only	1 2 3 4 5 6 7 8 9 10
Organic Specialty Requests	
Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

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

MAD - DISSOLVED METALS

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

MA - TOTAL METALS

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

GENERAL CHEMISTRY

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

* (FF)-Field Filtered

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	DAN HAMEL EGLE -RRD	Chris Svoboda EGLE RRD	11/3/22 16:05
Signature:	Dan Hamel		
Print Name & Org.	Chris Svoboda EGLE RRD	Nicole Hurdigan	11/4/22 1445
Signature:		Nicole Hurdigan	
Print Name & Org.			
Signature:			