

Joslin, Richard R - DNR

From: Beth Erdman <berdman@generalengineering.net>
Sent: Friday, May 3, 2019 10:28 AM
To: Joslin, Richard R - DNR
Cc: Brian Youngwirth
Subject: BRRTS# 02-59-563634: 5th and Ellis - Phantom (State Lead) Groundwater Results
Attachments: GW Report 4.24.19.pdf; COC GW 4.24.19.pdf; GW ELEVATION TABLE.pdf; Groundwater Table.pdf; GEC Shawano water Disposal.pdf; Burris Access Agreement.pdf; 2019-5 Invoice.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good Morning Rick,

Attached you will find the groundwater analytical data, chain of custody, groundwater elevation table, access agreement and analytical results table for the above site. The drum disposal documentation and invoice are also attached.

Please note that when GEC arrived on site to collect the groundwater samples, the City of Shawano was conducting road construction in the area. The area where they were working was being dewatered which likely resulted in the lower groundwater elevations in the wells. When on site, GEC staff inquired with the City Staff if the de-watering water had been tested and they indicated it had been tested prior to pumping. The map you provided properly identify the locations of the wells sampled. As you and I discussed, Mr. Burris responded to our request for access and indicate the only access he would grant would be for the well on his property (MW600) to be abandoned.

A hard copy of the invoice is also in the mail to you.

General Engineering appreciates the opportunity to complete this work for the WDNR. If you have questions or additional sampling needs, do not hesitate to contact GEC at any time.

Have a great day,

Beth
Beth A. Erdman
Environmental Project Manager | General Engineering Company
916 Silver Lake Drive | PO Box 340 | Portage, WI 53901
P 608-742-2169 | F 608-742-2592 | C 608-697-8004
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**TABLE 2
 WATER LEVEL DATA
 5TH AND ELLIS STREET-PHANTOM (STATE LEAD)
 SHAWANO, WISCONSIN
 BRRTS #: 02-59-563634**

Monitoring Well Number	Top of Well Casing Elevation	Date Measured	Depth to Water (Ft.)	Groundwater Elevation (Ft.)
MW-700	NM	11/15/2018	5.59	NM
		4/24/2019	7.03	NM
MW-900	NM	11/15/2018	6.35	NM
		4/24/2019	8.44	NM
MW-1000	NM	11/15/2018	6.77	NM
		4/24/2019	7.94	NM

ft = feet

NR=Not recorded

NM=Not Measured

**TABLE 1
GROUNDWATER ANALYTICAL TABLE
5TH AND ELLIS-PHANTOM (STATE LEAD)
SHAWANO, WISCONSIN
BRRTS #: 02-59-563634**

Monitoring Well	NR 140		MW-700		MW-900		MW-1000	
Sampling Date	ES	PAL	11/15/2018	4/24/2019	11/15/2018	4/24/2019	11/15/2018	4/24/2019
VOLATILE ORGANIC COMPOUNDS (VOCS) (µg/L)								
Benzene	5	0.5	<0.22	<0.22	<0.22	1.19	<0.22	<0.22
n-Butylbenzene	NE	NE	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71
1,2 dichloroethane	5	0.5	<0.25	<0.25	<0.25	0.47J	0.42J	<0.25
cis 1,2 dichloroethene	70	7	<0.37	<0.37	<0.37	5.1	22.4	12.8
trans-1,2 dichloroethene	100	20	<0.34	<0.34	<0.34	<0.34	0.84J	<0.34
Ethylbenzene	700	140	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Isopropylbenzene	NE	NE	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78
Methyl tert-butyl ether	60	12	<0.28	<0.28	8.3	30.3	3.3	5.7
Naphthalene	100	10	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
n-Propylbenzene	NE	NE	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61
Tetrachloroethene	5	0.5	<0.38	<0.38	<0.38	<0.38	5.2	5.8
Toluene	1000	200	<0.19	<0.19	<0.19	0.43J	<0.19	0.23J
Trichloroethene	5	0.5	<0.3	<0.3	<0.3	<0.3	2.42	3.2
1,2,4 -Trimethylbenzene	480	96	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
1,3,5 -Trimethylbenzene			<0.63	<0.63	<0.63	<0.63	<0.63	<0.63
Vinyl Chloride	0.2	0.02	<0.19	<0.20	0.22J	0.61J	<0.2	<0.2
Xylenes, -m, -p	10000	1000	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72
Xylenes, -o								

ES = Enforcement Standard

PAL = Preventive Action Limit

µg/L = micrograms per liter

NA = Parameter not analyzed

NE = NR 140 ES not established

J = Analyte detected above laboratory limit of detection but below limit of quantitation.

Bold indicates analytical results above NR 140 ES

Italic indicated analytical results above NR 140 PAL

Note: All other VOC compound were below the laboratory limits of detection

Note: Access to MW600 was not obtained via access agreements submitted and follow up calls by General Engineering and WDNR staff therefore MW600 was not sampled.

General Engineering Company
P.O. Box 340
916 Silver Lake Drive
Portage, WI 53901



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gec@generalengineering.net
www.generalengineering.net

Engineers • Consultants • Inspectors

February 5, 2019

Mr. Douglas Burris
1693 Norfolk Avenue
The Villages, FL 32162

Re: Property Access
Parcel#: 281751500150, located on the NW corner of E Green Bay and Ellis Streets
Shawano County, City of Shawano, Wisconsin, 54166

Dear Mr. Burris,

The purpose of this correspondence is to obtain authorization to collect one groundwater sample from the monitoring well (MW600) located on the above referenced property in the City of Shawano, Wisconsin.

On behalf of the Wisconsin Department of Natural Resources (WDNR), General Engineering Company (GEC) is completing an investigation of groundwater contamination encountered in a monitoring well located in the 5th Street right-of-way (ROW). Volatile organic compounds (VOC's) have been detected within groundwater in the well in the 5th Street ROW.

The WDNR is performing groundwater analysis to determine the vertical and horizontal extent of the groundwater contamination. GEC anticipates that the groundwater sample will be collected from the monitoring well no later than April 2019. To execute this agreement please sign the attached access agreement. Upon executing the agreement please retain one copy for your records and return the signed copy to GEC in the attached self-addressed stamped envelope.

The WDNR has accepted financial responsibility to collect this groundwater sample. If you have any questions, please contact GEC at (608) 742-2169.

Respectfully submitted,

GENERAL ENGINEERING COMPANY

A handwritten signature in black ink that reads "Beth A. Erdman". The signature is fluid and cursive.

Beth A. Erdman
Environmental Project Manager

A handwritten signature in black ink that reads "Brian Youngwirth". The signature is fluid and cursive.

Brian Youngwirth
Environmental Project Manager

Attachments: Access Agreement
Monitoring Well Location Map

c: Mr. Richard Joslin, WDNR (email)

Portage • Black River Falls • La Crosse



Consulting Engineering • Structural Engineering • Building Design • Environmental Services • Building Inspection • GIS Services
Grant Procurement & Administration • Land Surveying • Zoning Administration • Mechanical, Electrical, & Plumbing Services



ACCESS AGREEMENT TO ALLOW ENTRY TO PREMISES

PROPERTY OWNER: Douglas Burris

LOCATION: Parcel#: 281751500150, located on the NW corner of E Green Bay and Ellis Streets

CITY: Shawano

STATE: Wisconsin

1. **RIGHT OF ENTRY TO PREMISES.** The undersigned Owner is the legal owner of the property and hereby grants the undersigned Consultant, and Consultant's employees and agents, to enter upon and perform certain exploration activities upon the property described above. Specifically, the allowed activities collection of a groundwater sample from monitoring well MW600 located on the above listed property.
2. **PURPOSE OF ACTIVITIES.** The purpose of the allowed activities is to evaluate the nature, extent and possible source of groundwater contamination, which was identified during previous site investigation activities at the nearby 5th and Ellis Streets in Shawano, Wisconsin. The Wisconsin Department of Natural Resources (WDNR) has accepted the responsibility of performing this sampling, pertaining to the reported contamination within monitoring well MW1000 to the north of your property, located in the 5th Street right-of-way. In order to sample the groundwater, the following activities may be performed:
 - A.) Accessing the well.
 - B.) Evaluation of the well construction for sampling.
 - C.) Purging and sampling the well.
3. **TERM OF AGREEMENT.** The activities authorized hereunder are expected to be completed on or before April 2019. All rights and privileges granted by Owner shall cease on that date, unless they are extended by a subsequent agreement.
4. **AGREEMENT NOT TO INTERFERE.** Owner shall not interfere with any of the activities described herein.
5. **RESTORATION OF PROPERTY.** Material and equipment utilized by the Consultant will be removed by Consultant from the property upon completion of the groundwater sampling authorized by this agreement. Consultant will restore the property to substantially the same condition prior to Consultant's activities.
6. **PROVISION OF ANALYTICAL RESULTS.** Upon written request, Consultant shall provide copies of analytical results of groundwater samples obtained on Owner's property to Owner within four weeks of completion of the field activities.
7. **INDEMNIFICATION.** Consultant shall indemnify and hold Owner harmless from and against any and all claims for personal injury or property damage occurring to Owner or third parties arising out of the work which Consultant, its employees or agents perform on the property.
8. **NO REAL ESTATE INTEREST.** Consultant acquires no rights in the property by virtue of this agreement.
9. **COST OF ACTIVITIES.** Owner shall not be responsible for any costs or expenses incurred by the activities described herein.

**WDNR 5th and Ellis Phantom (State Lead)
Access Agreement
Page 2**

Property Owner

AUTHORIZED SIGNATOR: _____

SIGNATURE: _____

DATE: _____

General Engineering Company ("CONSULTANT")

AUTHORIZED SIGNATOR: _____

SIGNATURE: _____

DATE: _____



Attachment 1



12075 N CORPORATE PKWY, STE 200
 MEQUON, WISCONSIN 53092
 P: 262-241-4466 F: 262-241-4901

GROUNDWATER ELEVATION CONTOUR MAP
 NOVEMBER 7, 2011

FAIRVIEW MALL
 SHAWANO, WISCONSIN

* SHAWANO COUNTY AERIAL DATED 2009

STRAIGHT BILL OF LADING - SHORT FORM

Carrier Name: Valley Environmental Response	Phone 1-800-745-1865 EXT 2	SHIPMENT IDENTIFICATION NO.
Carrier Address: 2850 Jackson St	Date	
City Oshkosh		FREIGHT BILL PRO NO.
State and Zip: Wisconsin 54902	SAC	DUNS

TO: <i>OST Environmental Inc</i> Consignee Address <i>2253 Progress Way</i> City <i>Kaukauna</i> State and Zip <i>WI 54130</i>	TRAILER/CAR NUMBER
ROUTE	

FROM: <i>Valley Environmental Response</i> Shipper <i>DNR</i> Address <i>2850 Jackson Street</i> City <i>Oshkosh</i> State and zip <i>WI 54901</i>	SPECIAL INSTRUCTIONS <i>Waste Disposal</i>
--	---

FOR PAYMENT SEND BILL TO: Name <i>Valley Environmental Response</i> Address <i>2850 Jackson Street</i> City <i>Oshkosh</i> State & Zip <i>WI 54901</i>	SHIPPER'S INTERNAL DATA
SID NO.	

Number Shipping Units	*HQ	Kinds of Packaging, Description of Articles, Special Marks and Exceptions	Code	Weight Subject to Correction	Rate	Charges
1		<i>Non Haz. Non RCRA, Non DOT Environmental Groundwater</i>	<i>DM</i>	<i>10 591 80 165</i>		
<p style="font-size: 2em; font-family: cursive;">General Engineering</p> <p style="font-size: 2em; font-family: cursive;">(Water)</p> <p style="font-size: 1.5em; font-family: cursive;">OST Env 4-29-19</p>						

REMIT C.O.D. TO Address City State & zip	COD AMT: \$	C.O.D. FEE PREPAID <input type="checkbox"/> \$ COLLECT <input type="checkbox"/> \$ TOTAL CHARGES \$
NOTE - Where the rate is dependant on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ per _____	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. Signature of Consignor _____	FREIGHT CHARGES ARE PREPAID UNLESS MARKED COLLECT CHECK BOX IF COLLECT <input type="checkbox"/>

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and conditions of contents of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to its destination. It is mutually agreed as to each carrier of all or any of the said property, over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER <i>Beth Edman (VER)</i> PER <i>WDNR</i>	CARRIER PER
--	----------------

* Mark "X" or "RQ" if appropriate to designate Hazardous Materials as defined in the Department of Transport Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on bills of lading per Section 172.201(a)(1)(iii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials the shipper's certification statement prescribed in Section 172.204(a) of the Federal Regulations must be indicated on the bill of lading, unless a specific exemption from this requirement is provided in the Regulations for a particular material.

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

BRIAN YOUNGWIRTH
GENERAL ENGINEERING
916 SILVER LAKE DRIVE
PORTAGE, WI 53901

Report Date 01-May-19

Project Name WDNR-5TH & ELLIS
Project #

Invoice # E36064

Lab Code 5036064A
Sample ID MW-700
Sample Matrix Water
Sample Date 4/24/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		4/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		4/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		4/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		4/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		4/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		4/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		4/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		4/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		4/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		4/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		4/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		4/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		4/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		4/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		4/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		4/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		4/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		4/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		4/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		4/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		4/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		4/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		4/29/2019	CJR	1

Project Name WDNR-5TH & ELLIS
Project #

Invoice # E36064

Lab Code 5036064A
Sample ID MW-700
Sample Matrix Water
Sample Date 4/24/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		4/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		4/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		4/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		4/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		4/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		4/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		4/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		4/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		4/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		4/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		4/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		4/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		4/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		4/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		4/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		4/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		4/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		4/29/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		4/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		4/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		4/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		4/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		4/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		4/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		4/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		4/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		4/29/2019	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		4/29/2019	CJR	1
SUR - Dibromofluoromethane	116	REC %			1	8260B		4/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	108	REC %			1	8260B		4/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		4/29/2019	CJR	1

Lab Code 5036064B
 Sample ID MW-900
 Sample Matrix Water
 Sample Date 4/24/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	1.19	ug/l	0.22	0.71	1	8260B		4/26/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		4/26/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		4/26/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		4/26/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		4/26/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		4/26/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		4/26/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/26/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		4/26/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		4/26/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		4/26/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		4/26/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		4/26/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/26/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		4/26/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		4/26/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		4/26/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		4/26/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		4/26/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		4/26/2019	CJR	1
1,2-Dichloroethane	0.47 "J"	ug/l	0.25	0.78	1	8260B		4/26/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		4/26/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		4/26/2019	CJR	1
cis-1,2-Dichloroethene	5.1	ug/l	0.37	1.16	1	8260B		4/26/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		4/26/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		4/26/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		4/26/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		4/26/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		4/26/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		4/26/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		4/26/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		4/26/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		4/26/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		4/26/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		4/26/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/26/2019	CJR	1
Methyl tert-butyl ether (MTBE)	30.3	ug/l	0.28	0.89	1	8260B		4/26/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		4/26/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		4/26/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		4/26/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		4/26/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		4/26/2019	CJR	1
Toluene	0.43 "J"	ug/l	0.19	0.6	1	8260B		4/26/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		4/26/2019	CJR	1

Project Name WDNR-5TH & ELLIS
Project #

Invoice # E36064

Lab Code 5036064B
Sample ID MW-900
Sample Matrix Water
Sample Date 4/24/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		4/26/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		4/26/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		4/26/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		4/26/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		4/26/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		4/26/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		4/26/2019	CJR	1
Vinyl Chloride	0.61 "J"	ug/l	0.2	0.65	1	8260B		4/26/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		4/26/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		4/26/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		4/26/2019	CJR	1
SUR - 4-Bromofluorobenzene	87	REC %			1	8260B		4/26/2019	CJR	1
SUR - Dibromofluoromethane	114	REC %			1	8260B		4/26/2019	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		4/26/2019	CJR	1

Lab Code 5036064C
 Sample ID MW-1000
 Sample Matrix Water
 Sample Date 4/24/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		4/26/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		4/26/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		4/26/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		4/26/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		4/26/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		4/26/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		4/26/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		4/26/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		4/26/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		4/26/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		4/26/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		4/26/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		4/26/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		4/26/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		4/26/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		4/26/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		4/26/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		4/26/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		4/26/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		4/26/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		4/26/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		4/26/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		4/26/2019	CJR	1
cis-1,2-Dichloroethene	12.8	ug/l	0.37	1.16	1	8260B		4/26/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		4/26/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		4/26/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		4/26/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		4/26/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		4/26/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		4/26/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		4/26/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		4/26/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		4/26/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		4/26/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		4/26/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		4/26/2019	CJR	1
Methyl tert-butyl ether (MTBE)	5.7	ug/l	0.28	0.89	1	8260B		4/26/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		4/26/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		4/26/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		4/26/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		4/26/2019	CJR	1
Tetrachloroethene	5.8	ug/l	0.38	1.21	1	8260B		4/26/2019	CJR	1
Toluene	0.23 "J"	ug/l	0.19	0.6	1	8260B		4/26/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		4/26/2019	CJR	1

Project Name WDNR-5TH & ELLIS
Project #

Invoice # E36064

Lab Code 5036064C
Sample ID MW-1000
Sample Matrix Water
Sample Date 4/24/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		4/26/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		4/26/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		4/26/2019	CJR	1
Trichloroethene (TCE)	3.2	ug/l	0.3	0.94	1	8260B		4/26/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		4/26/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		4/26/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		4/26/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		4/26/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		4/26/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		4/26/2019	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		4/26/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	113	REC %			1	8260B		4/26/2019	CJR	1
SUR - 4-Bromofluorobenzene	90	REC %			1	8260B		4/26/2019	CJR	1
SUR - Dibromofluoromethane	111	REC %			1	8260B		4/26/2019	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code **Comment**

1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Synergy Environmental Lab, INC.

Invoice

BRIAN YOUNGWIRTH
GENERAL ENGINEERING

916 SILVER LAKE DRIVE
PORTAGE, WI 53901

Client Account #	897573	Invoice #	E36064
Project #		Invoice Date	4/30/2019
Project Name	WDNR-5TH & ELLIS	Quote #	8242
Notes	36462	Date Due	5/30/2019
		Sample Date	4/24/2019

Sample ID	Labcode	Sample Type	Matrix	Test Name	Price
MW-700	5036064A	Sample	Water	VOC'S	\$71.93
MW-900	5036064B	Sample	Water	VOC'S	\$71.93
MW-1000	5036064C	Sample	Water	VOC'S	\$71.93

Total Cost: \$215.79

To ensure proper payment,
Include Account # Invoice #

PLEASE REMIT PAYMENT TO:
SYNERGY ENVIRONMENTAL LAB, INC.
1990 PROSPECT CT.,
APPLETON, WI 54914