

DAVY LABORATORIES

A Division of Davy Engineering Co., Inc.
 115 6th Street South
 La Crosse, WI 54601
 (608) 782-3130
 FAX (608) 784-6611
 www.davyinc.com



LABORATORY ANALYSIS REPORT

Madison Country Day School
 Attn: Roger Seaver
 5606 River Rd.
 Waunakee, WI 53597

Date: April 22, 2019
 Client No: 10305

Sample No: 19D0038-01
 Sample Site: EP-1

Sample Collected: 01-Apr-19 10:50

Sample Received: 02-Apr-19 09:48

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	MCL	Qualifier
Laboratory Results										
Alkalinity, Total	267	mg/L	20	60	1	03-Apr-19 16:06	03-Apr-19 16:06	SM 2320 B-2011		
Aluminum, Total	<0.129	mg/L	0.129	0.430	1	11-Apr-19 16:48	11-Apr-19 16:50	EPA 200.7 Rev 4.4 1994		
Antimony, Total	<0.001	mg/L	0.001	0.003	1	09-Apr-19 15:30	09-Apr-19 15:31	SM 3113 B-2010	0.006	
Arsenic, Total	<0.0005	mg/L	0.0005	0.002	1	04-Apr-19 15:11	04-Apr-19 15:14	SM 3113 B-2010	0.01	
Barium, Total	0.0172	mg/L	0.00197	0.00657	1	11-Apr-19 15:09	11-Apr-19 15:11	EPA 200.7 Rev 4.4 1994	2	
Beryllium, Total	<2.54E-4	mg/L	2.54E-4	8.46E-4	1	11-Apr-19 15:09	11-Apr-19 15:11	EPA 200.7 Rev 4.4 1994	0.004	
Cadmium, Total	<0.00007	mg/L	0.00007	0.0002	1	09-Apr-19 07:13	09-Apr-19 07:16	SM 3113 B-2010	0.005	
Calcium, Total	65.1	mg/L	3.00	10.0	40	10-Apr-19 10:11	10-Apr-19 10:13	SM 3111 B-2011		
Chloride, Total as Cl	18.8	mg/L	0.600	2.05	50	08-Apr-19 19:33	08-Apr-19 19:33	EPA 300.0 Rev 2.1 (1993)	250	
Chromium, Total	<0.00239	mg/L	0.00239	0.00798	1	11-Apr-19 15:09	11-Apr-19 15:11	EPA 200.7 Rev 4.4 1994	0.1	
Fluoride, as F	0.08	mg/L	0.004	0.01	1.25	02-Apr-19 13:38	02-Apr-19 13:38	EPA 300.0 Rev 2.1 (1993)	4	
Hardness, Total as CaCO3	327	mg/L	2	6	2	05-Apr-19 10:00	05-Apr-19 10:00	SM 2340 C-2011		
Iron, Total as Fe	0.0298	mg/L	0.0128	0.0427	1	11-Apr-19 16:32	11-Apr-19 16:35	EPA 200.7 Rev 4.4 1994	0.3	J
Magnesium, Total	36.6	mg/L	1.10	3.60	100	10-Apr-19 09:21	10-Apr-19 09:23	SM 3111 B-2011		
Manganese, Total as Mn	7.97E-4	mg/L	3.30E-4	0.00110	1	11-Apr-19 16:32	11-Apr-19 16:35	EPA 200.7 Rev 4.4 1994	0.05	J
Mercury, Total	<0.0002	mg/L	0.0002	0.0007	1	05-Apr-19 10:13	08-Apr-19 10:47	EPA 245.1 Rev. 3 1994	0.002	

Submitted by:
 Davy Laboratories

Jennifer M. Buchholz

Jennifer M. Buchholz, Laboratory Director

The laboratory analyses reported were determined in accordance with methods from approved authoritative sources. Approved authoritative sources are defined and listed within the respective state certification codes. The results are representative of the samples only; conditions can be expected to vary at different times and under different sampling conditions. This report may not be reproduced, except in full, without the written approval of the laboratory. WI Certification 632021390 and WI DATCP 105-216, MN NELAC Certification 055-999-151, IA Certification 304.
 Revision #2 - 8/6/2018

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Laboratory Results										
Nickel, Total	<0.0132	mg/L	0.0132	0.0440	1	11-Apr-19 16:32	11-Apr-19 16:35	EPA 200.7 Rev 4.4 1994	0.1	
Nitrate as N	6.78	mg/L	0.100	0.400	50	02-Apr-19 15:25	02-Apr-19 15:25	EPA 300.0 Rev 2.1 (1993)	10	
Nitrite as N	<0.004	mg/L	0.004	0.014	1.25	02-Apr-19 13:38	02-Apr-19 13:38	EPA 300.0 Rev 2.1 (1993)	1	
pH, Lab	6.99	su			1	02-Apr-19 15:13	02-Apr-19 15:13	SM 4500 HB-2011		HI
Alachlor	<0.09	ug/L	0.09	0.33	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	2	
Atrazine	<0.04	ug/L	0.04	0.12	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	3	
Chlordane	<0.18	ug/L	0.18	0.61	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	2	
Endrin	<0.01	ug/L	0.01	0.04	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	2	
Heptachlor	<0.02	ug/L	0.02	0.08	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	0.4	
Heptachlor epoxide	<0.01	ug/L	0.01	0.04	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	0.2	
Hexachlorobenzene	<0.07	ug/L	0.07	0.26	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	1	
Hexachlorocyclopentadiene	<0.08	ug/L	0.08	0.30	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	50	
gamma-BHC (Lindane)	<0.02	ug/L	0.02	0.06	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	0.2	
Methoxychlor	<0.04	ug/L	0.04	0.12	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	40	
Simazine	<0.04	ug/L	0.04	0.12	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	4	
Toxaphene	<0.31	ug/L	0.31	1.0	1.01	02-Apr-19 13:25	03-Apr-19 07:28	EPA 505 Rev. 2.1 1995	3	
<i>Surrogate: Decachlorobiphenyl</i>			<i>126%</i>	<i>70-130</i>			<i>03-Apr-19 07:28</i>	<i>EPA 505 Rev. 2.1 1995</i>		

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Laboratory Results										
2,4-D	<0.092	ug/L	0.092	0.307	1	04-Apr-19 08:30	05-Apr-19 03:33	EPA 515.3 1996	70	
Dalapon	<0.098	ug/L	0.098	0.327	1	04-Apr-19 08:30	05-Apr-19 03:33	EPA 515.3 1996	200	
Dicamba	<0.143	ug/L	0.143	0.478	1	04-Apr-19 08:30	05-Apr-19 03:33	EPA 515.3 1996		
Dinoseb	<0.169	ug/L	0.169	0.565	1	04-Apr-19 08:30	05-Apr-19 03:33	EPA 515.3 1996	7	
Pentachlorophenol	<0.034	ug/L	0.034	0.113	1	04-Apr-19 08:30	05-Apr-19 03:33	EPA 515.3 1996	1	
Picloram	<0.088	ug/L	0.088	0.295	1	04-Apr-19 08:30	05-Apr-19 03:33	EPA 515.3 1996	500	
2,4,5-TP (Silvex)	<0.046	ug/L	0.046	0.153	1	04-Apr-19 08:30	05-Apr-19 03:33	EPA 515.3 1996	50	
<i>Surrogate: 2,4-Dichlorophenylacetic acid</i>			<i>107%</i>	<i>70-130.5</i>			<i>05-Apr-19 03:33</i>	<i>EPA 515.3 1996</i>		
Aldicarb	<0.17	ug/L	0.17	0.58	1	11-Apr-19 00:00	11-Apr-19 00:00	EPA 531.1, Rev 3.1		Sub-1
Aldicarb sulfone	<0.24	ug/L	0.24	0.80	1	11-Apr-19 00:00	11-Apr-19 00:00	EPA 531.1, Rev 3.1		Sub-1
Aldicarb sulfoxide	<0.30	ug/L	0.30	0.99	1	11-Apr-19 00:00	11-Apr-19 00:00	EPA 531.1, Rev 3.1		Sub-1
Carbaryl	<0.25	ug/L	0.25	0.85	1	11-Apr-19 00:00	11-Apr-19 00:00	EPA 531.1, Rev 3.1		Sub-1
Carbofuran	<0.21	ug/L	0.21	0.70	1	11-Apr-19 00:00	11-Apr-19 00:00	EPA 531.1, Rev 3.1	40	Sub-1
3-Hydroxycarbofuran	<0.28	ug/L	0.28	0.95	1	11-Apr-19 00:00	11-Apr-19 00:00	EPA 531.1, Rev 3.1		Sub-1
Methomyl	<0.24	ug/L	0.24	0.81	1	11-Apr-19 00:00	11-Apr-19 00:00	EPA 531.1, Rev 3.1		Sub-1
Oxamyl	<0.29	ug/L	0.29	0.95	1	11-Apr-19 00:00	11-Apr-19 00:00	EPA 531.1, Rev 3.1	200	Sub-1
Glyphosate (Round-up)	<3.0	ug/L	3.0	10	1	05-Apr-19 00:00	05-Apr-19 00:00	EPA 547, 1990	700	Sub-1

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Laboratory Results										
Endothall	<1.5	ug/L	1.5	5.1	1	04-Apr-19 00:00	05-Apr-19 00:00	EPA 548.1, Rev 1	100	Sub-1
Diquat	<0.31	ug/L	0.31	1.0	1	03-Apr-19 00:00	03-Apr-19 00:00	EPA 549.2, Rev 1	20	Sub-1
Nitrate/Nitrite as N	6.78	mg/L	0.100	0.400	1	04-Apr-19 10:30	04-Apr-19 10:30	Calculation	10	
Benzene	<0.042	ug/L	0.042	0.132	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	5	
Carbon tetrachloride	<0.061	ug/L	0.061	0.194	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	5	
1,2-Dichlorobenzene	<0.077	ug/L	0.077	0.243	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	600	
1,4-Dichlorobenzene	<0.090	ug/L	0.090	0.287	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	75	
1,2-Dichloroethane	<0.071	ug/L	0.071	0.226	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	5	
1,1-Dichloroethene	<0.065	ug/L	0.065	0.206	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	7	
cis-1,2-Dichloroethene	<0.052	ug/L	0.052	0.166	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	70	
trans-1,2-Dichloroethene	<0.164	ug/L	0.164	0.203	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	100	
Methylene chloride	<0.084	ug/L	0.084	0.266	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	5	
1,2-Dichloropropane	<0.066	ug/L	0.066	0.210	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	5	
Ethylbenzene	<0.064	ug/L	0.064	0.204	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	700	
Chlorobenzene	<0.105	ug/L	0.105	0.335	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	100	
Styrene	<0.090	ug/L	0.090	0.288	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	100	
Tetrachloroethene	<0.085	ug/L	0.085	0.271	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	5	

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Laboratory Results										
Toluene	<0.028	ug/L	0.028	0.091	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	1000	
1,2,4-Trichlorobenzene	<0.148	ug/L	0.148	0.471	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	70	
1,1,1-Trichloroethane	<0.048	ug/L	0.048	0.154	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	200	
1,1,2-Trichloroethane	<0.118	ug/L	0.118	0.410	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	5	
Trichloroethene	<0.027	ug/L	0.027	0.086	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	5	
Vinyl chloride	<0.019	ug/L	0.019	0.060	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	0.2	
Xylenes, total	<0.068	ug/L	0.068	0.218	1	09-Apr-19 12:15	09-Apr-19 12:15	EPA 524.2 1995	10000	
<i>Surrogate: 4-Bromofluorobenzene</i>			82.2 %	70-130			09-Apr-19 12:15	EPA 524.2 1995		
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			79.9 %	70-130			09-Apr-19 12:15	EPA 524.2 1995		
Selenium, Total	<0.001	mg/L	0.001	0.003	1	10-Apr-19 10:51	10-Apr-19 10:52	SM 3113 B-2010	0.05	
Silver, Total	<0.00987	mg/L	0.00987	0.0329	1	11-Apr-19 15:09	11-Apr-19 15:11	EPA 200.7 Rev 4.4 1994	0.05	
Sodium, Total as Na	9.02	mg/L	0.720	2.36	40	11-Apr-19 11:12	11-Apr-19 11:14	SM 3111 B-2011		
Total Dissolved Solids	361	mg/L	25	75	1	05-Apr-19 16:35	05-Apr-19 16:35	SM 2540 C-2011		
Thallium, Total	<0.0001	mg/L	0.0001	0.0004	1	10-Apr-19 14:42	10-Apr-19 14:43	EPA 200.9 REV 2.2 1994	0.002	
Zinc, Total	0.0136	mg/L	0.0103	0.0343	1	11-Apr-19 15:09	11-Apr-19 15:11	EPA 200.7 Rev 4.4 1994	5	J

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Notes and Definitions

- Sub-1 Wisconsin Laboratory Certification No. 721026460
J Detected but below the laboratory LOQ; therefore, result is an estimated concentration.
H1 Sample received past analysis holding time.
LOD Limit of Detection, adjusted for the dilution factor
LOQ/RL Limit of Quantitation/Reporting Limit, adjusted for the dilution factor
MCL Maximum Contaminant Level
Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature	0.10 °C	
Received on Ice		Yes
Required COC information completed		Yes
Sample labels match COC		Yes
All samples received in the appropriate containers		Yes
All samples received with sufficient volume		Yes
All samples received with sufficient holding time		Yes
All sample bottles received with H2SO4 were pH <2		Yes
All sample bottles received with HNO3 were pH <2		No
All sample bottles received with HCl were pH <2		No
All sample bottles received with NaOH were pH >12		No
All sample bottles for cyanide confirmed Sulfide absent		No
All sample bottles for cyanide confirmed Residual Cl absent		No
Preservation of VOC samples checked by the analyst.		
Preservation of FOG samples checked by the analyst.		
Residual Chlorine absent checked by the analyst unless noted above.		

Case Narrative

Sample 19C0038 received with insufficient holding time for pH
SDWA metals samples received unpreserved. 5 mL of HNO3 was added to samples 19C0038 at
0944 on date received. pH verified as <2.

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