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December 12, 2022

Kevin McKnight  
Hydrogeologist/Project Manager  
Remediation & Redevelopment Program  
Wisconsin Department of Natural Resources  
Oshkosh Service Center  
625 E Cth Y, Suite 700  
Oshkosh, WI 54901

***[sent electronically]***

**Re: Groundwater Monitoring Results Submittal  
Tecumseh Products Co – New Holstein, 1604 Michigan Ave, New Holstein  
BRRTS 02-08-363333**

Dear Mr. McKnight:

This letter documents results from the post-remediation groundwater sampling event from the former plating areas in accordance with the WDNR request included in the August 13, 2021, *Remedial Action Plan* (RAP) approval and associated Infiltration/Injection Temporary Exemption (July 2, 2021). Attachments to this letter include a Site figure showing the groundwater sampling locations, summary tables of field parameters and of the analytical results, and the analytical laboratory report.

On April 27, 2021, TRC (on behalf of Tecumseh Products Company LLC [Tecumseh]) submitted the RAP to WDNR. As part of WDNR's July 2, 2021, RAP approval and as reiterated in the August 13, 2021, WDNR response to Tecumseh's questions regarding the RAP approval, WDNR requested post-remediation groundwater sampling within 180 days after injection is complete. As documented in the December 30, 2021, Remedial Action Documentation Report the injections were completed by November 10, 2021.

In accordance with the WDNR approval and injection exemption, on October 25, 2022, TRC collected groundwater samples from MW-E, TEC-1, TEC-1A, TEC-3, TEC-4, MW-5, MW-8, NH-7, NH-26, MW-A, MW-B and MW-F. The monitoring well locations are shown on the attached Figure 1 in Attachment 1. The groundwater samples were analyzed for dissolved hexavalent chromium and dissolved total chromium. Field parameters collected included temperature, conductivity, turbidity, dissolved oxygen, total dissolved solids (TDS), pH and oxidation/reduction potential (ORP).

Prior to groundwater sampling, water levels were measured at each monitoring well with a water level meter. Groundwater samples were collected using low-flow sampling techniques with an Alexis peristaltic pump and YSI ProDSS Sonde M4 multi-parameter meter and flow cell. During well purging, field parameters (temperature, conductivity, turbidity, dissolved oxygen, TDS, pH and ORP) were measured and allowed to stabilize prior to sampling. Low-flow sampling stabilization forms are provided in Attachment 2. Groundwater samples were field-filtered using a 0.45-micron groundwater filter and were analyzed for dissolved hexavalent chromium and total dissolved chromium using method SM 3500-Cr B and EPA 6010D, respectively. All samples were packaged in a cooler and delivered directly to Pace Analytical Services, LLC in Green Bay, Wisconsin (Pace) under standard chain of custody procedures.

## Groundwater Elevations

Table 1 presents a summary of water level measurements collected during events between 2009 and 2022 and Figure 1 presents the groundwater elevation contours for the October 2022 sampling event. The groundwater gradient is oriented from the east/southeast portion of the facility, towards the west. Groundwater elevations were deeper by more than a foot from the previous groundwater monitoring event in May 2022. Groundwater continues to exhibit an overall westerly flow direction as illustrated on Figure 1.

## Groundwater Quality Assurance/Quality Control

TRC performed a Quality Assurance/Quality Control (QA/QC) review of the laboratory report in regard to analyses, procedures, and protocols performed by Pace. Samples were received by Pace within the mandated timeframe and maintained at the proper temperature. Based on the results, there were no major insufficiencies regarding surrogate recoveries, analyte detections or sample duplicate recoveries. Based on an internal review by TRC, all data were considered acceptable. QC data indicate that measurement data are sufficient to meet method quality objectives, data are defensible, and QC mechanisms were effective in ensuring measurement data reliability.

## Results

The groundwater analytical results are summarized in Table 2, which contains total dissolved chromium results from the October 2022 groundwater event, as well as previous analytical results. The low-flow stabilization geochemical results indicate that the dissolved oxygen is ranging between 0.08 and 5.02 milligrams per liter (mg/L) and conductivity is generally greater than 571 u-mhos/cm. The ORP fluctuated with no discernable trend. The pH of the groundwater is basically neutral, ranging between 6.09 and 7.60 S.U. There is no obvious difference between the geochemistry of the source area as compared to down-gradient. The laboratory analytical results are provided in Attachment 4.

Based on the results, total dissolved chromium has reduced significantly and consists predominantly of dissolved hexavalent chromium. Total chromium concentrations exceeded the Enforcement Standard (ES) in 1 of the 12 monitoring wells in October 2022 (MW-B). Monitoring wells MW-A, MW-E, TEC-1, and TEC-4 exceeded the Preventative Action Limit (PAL) in October 2022, but not the ES. The remaining seven monitoring wells, TEC-1A, TEC-3, MW-5, NH-7, MW-8, NH-26, and MW-F were below the ES and PAL.

The groundwater results show continued significant decreases in the areas where injection occurred – around TEC-3, TEC-4, TEC-1, NH-26. The groundwater impacts do not pose a threat to human health or the environment. Moreover, there is a deed restriction recorded to the property limiting certain activities and uses that further acts to protect human health and the environment. The results indicate that the injections were successful in reducing chromium impacts and MNA is a viable remedy for the site.

In preparation for site closure after a second year of monitoring post-remedy, TRC will conduct semi-annual groundwater monitoring and sampling, with the next round scheduled for spring 2023, to further assess contaminant trends and to confirm the effectiveness of the injection remedy and MNA. Samples will be collected and analyzed for total dissolved chromium and hexavalent chromium from monitoring wells MW-E, TEC-1, TEC-1A, TEC-3, TEC-4, MW-5, MW-8, NH-7, NH-26, MW-A, MW-B and MW-F.

Mr. Kevin McKnight  
December 12, 2022  
Page 3

If you have any questions, please contact me at 312.800.5910 or via e-mail at [charvey@trccompanies.com](mailto:charvey@trccompanies.com).

Sincerely,

TRC

A handwritten signature in black ink, appearing to read 'CH', with a long, sweeping horizontal stroke extending to the right.

Chris Harvey, PE  
Vice President

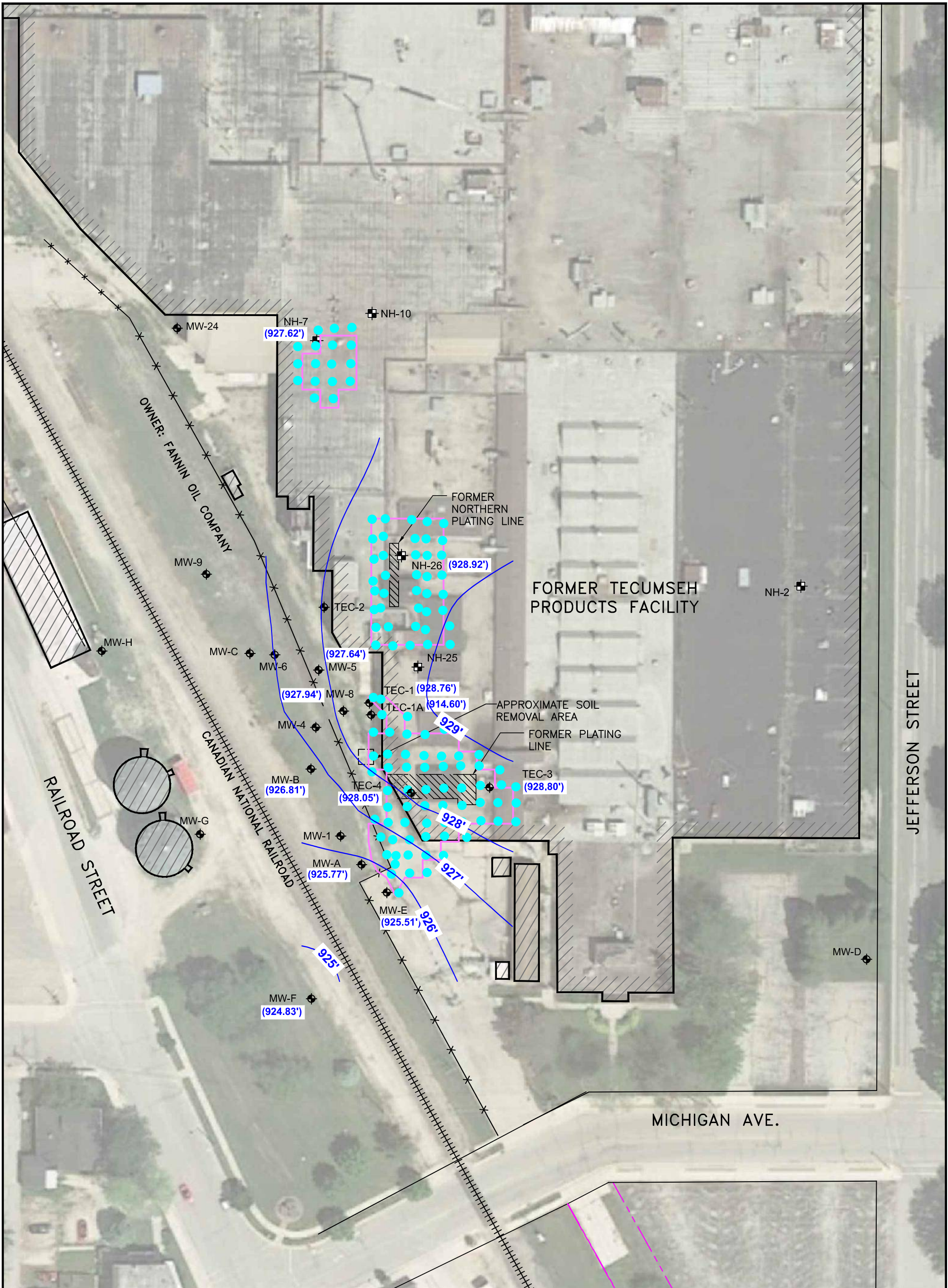
cc: S. Jason Smith/Tecumseh Products Company LLC – Paris, TN  
Curtis Toll/Greenberg Traurig LLP – Philadelphia, PA

**Attachment 1**  
**Figure**



TRC





**LEGEND:**

- MONITORING WELL LOCATION
- MONITORING WELL INSTALLED BY ROBERT E. LEE & ASSOCIATES IN 2012
- RAILROAD TRACKS
- FENCE
- INJECTION WELL
- INJECTION AREA BOUNDARY
- GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL) - OCTOBER 25, 2022
- GROUNDWATER ELEVATION CONTOUR

**NOTE:**

1. MW-24 WAS FOUND TO BE DESTROYED DURING THE NOVEMBER 13, 2020 GROUNDWATER EVENT.
2. TEC-1A IS A DEEPER BEDROCK WELL; AS SUCH, ITS GROUNDWATER ELEVATION IS NOT INCLUDED IN THE CONTOURS.



PROJECT: <b>BRRTS #02-08-36333</b>		
TECUMSEH PRODUCTS CO. (FORMER) - CHROMIUM LINE NEW HOLSTEIN, WISCONSIN		
TITLE: <b>GROUNDWATER CONTOUR MAP - OCTOBER 2022</b>		
DRAWN BY: J.KONIAR	SCALE: AS SHOWN	PROJ. NO. 471202
CHECKED BY: A.JANNKE	DATE PRINTED:	FILE NO. 107927-19(CR LINE).dwg
APPROVED BY: C.HARVEY	DATE: NOVEMBER 2022	<b>FIGURE 1</b>



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**Attachment 2**  
**Groundwater Sampling Logs**































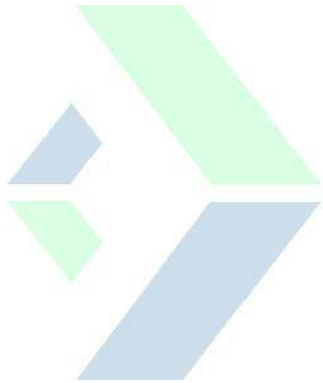








**Attachment 3**  
**Summary Tables**



**TRC**

Table 1. Groundwater Level Elevations 2009-2022

Location	Top of Casing (TOC) Elevation (ft MSL)	June 8, 2009		September 23, 2009		December 28 & 29, 2009		March 29 & 30, 2010		March 18 & 19, 2011		May 15, 2012	
		Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation
MW-1	932.60	6.13	926.47	8.80	923.80	3.71	928.89	4.98	927.62	4.92	927.68	2.77	929.83
NH-2	935.34	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	932.24	4.32	927.92	7.55	924.69	2.56	929.68	3.77	928.47	3.56	928.68	2.67	929.57
MW-5	931.81	4.30	927.51	7.24	924.57	3.10	928.71	3.27	928.54	2.99	928.82	2.39	929.42
MW-6	931.90	5.23	926.67	8.45	923.45	3.17	928.73	3.72	928.18	3.46	928.44	2.85	929.05
NH-7	935.42	Well installed in 2012		Well installed in 2012		Well installed in 2012		Well installed in 2012		Well installed in 2012		Well installed in 2012	
MW-8	931.89	4.07	927.82	6.73	925.16	2.99	928.90	3.33	928.56	3.11	928.78	2.63	929.26
MW-9	931.54	7.04	924.50	10.65	920.89	4.71	926.83	4.58	926.96	--	--	--	--
NH-10	935.37	--	--	--	--	--	--	--	--	--	--	--	--
NH-25	934.65	Well installed in 2012		Well installed in 2012		Well installed in 2012		Well installed in 2012		Well installed in 2012		Well installed in 2012	
MW-24	931.07	--	--	--	--	--	--	--	--	--	--	--	--
NH-26	934.76	Well installed in 2012		Well installed in 2012		Well installed in 2012		Well installed in 2012		Well installed in 2012		Well installed in 2012	
MW-A	932.83	6.78	926.05	9.38	923.45	4.79	928.04	5.62	927.21	5.57	927.26	4.47	928.36
MW-B	932.58	5.69	926.89	8.60	923.98	3.00	929.58	4.40	928.18	4.22	928.36	3.11	929.47
MW-C	931.89	5.88	926.01	9.24	922.65	3.29	928.60	3.86	928.03	3.64	928.25	2.59	929.30
MW-D	941.90	5.81	936.09	9.96	931.94	5.18	936.72	4.04	937.86	--	--	--	--
MW-E	933.31	7.28	926.03	9.81	923.50	6.20	927.11	6.43	926.88	6.33	926.98	5.32	927.99
MW-F	933.83	8.52	925.31	10.93	922.90	7.31	926.52	7.53	926.30	7.52	926.31	6.71	927.12
MW-G	934.37	7.52	926.85	10.66	923.71	7.02	927.35	7.28	927.09	7.21	927.16	5.98	928.39
MW-H	933.63	8.81	924.82	12.40	921.23	9.06	924.57	8.45	925.18	--	--	--	--
TEC-1	932.51	4.20	928.31	6.67	925.84	3.69	928.82	3.89	928.62	3.46	929.05	3.14	929.37
TEC-1A	932.02	14.29	917.73	18.37	913.65	14.66	917.36	13.58	918.44	13.42	918.60	13.17	918.85
TEC-2	931.90	4.67	927.23	7.47	924.43	3.55	928.35	3.68	928.22	3.40	928.50	2.90	929.00
TEC-3	934.62	6.94	927.68	9.07	925.55	6.51	928.11	6.20	928.42	5.94	928.68	5.38	929.24
TEC-4	934.50	7.15	927.35	9.64	924.86	6.12	928.38	6.33	928.17	5.98	928.52	5.35	929.15

MSL - Mean Sea Level

NA\* Well underwater and could not be measured



Table 1. Groundwater Level Elevations 2009-2022

Location	Top of Casing (TOC) Elevation (ft MSL)	June 20 & 21, 2013		August 18, 2014		April 22, 2016		September 7, 2016		April 26, 2017		March 21, 2019	
		Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation
MW-1	932.60	5.13	927.47	6.80	925.80	4.53	928.07	2.97	929.63	--	--	4.12	928.48
NH-2	935.34	--	--	3.68	931.66	4.01	931.33	3.65	931.69	3.82	931.52	3.63	931.71
MW-4	932.24	4.08	928.16	5.62	926.62	3.36	928.88	3.03	929.21	--	--	--	--
MW-5	931.81	3.70	928.11	4.89	926.92	2.87	928.94	3.35	928.46	--	--	2.81	929.00
MW-6	931.90	4.28	927.62	5.91	925.99	3.19	928.71	3.69	928.21	--	--	--	--
NH-7	935.42	8.64	926.78	9.14	926.28	7.77	927.65	8.13	927.29	--	--	7.22	928.20
MW-8	931.89	3.63	928.26	4.74	927.15	2.91	928.98	2.42	929.47	2.33	929.56	1.54	930.35
MW-9	931.54	--	--	--	--	3.96	927.58	4.99	926.55	--	--	--	--
NH-10	935.37	--	--	9.24	926.13	8.23	927.14	8.59	926.78	--	--	7.80	927.57
NH-25	934.65	6.34	928.31	6.73	927.92	5.83	928.82	5.49	929.16	--	--	4.97	929.68
MW-24	931.07	--	--	7.58	923.49	4.94	926.13	6.21	924.86	--	--	Destroyed	
NH-26	934.76	6.76	928.00	6.99	927.77	6.24	928.52	NA*	934.76	5.73	929.03	6.04	928.72
MW-A	932.83	5.72	927.11	7.33	925.50	5.23	927.60	4.56	928.27	3.92	928.91	5.34	927.49
MW-B	932.58	4.58	928.00	6.31	926.27	3.95	928.63	3.57	929.01	2.69	929.89	3.88	928.70
MW-C	931.89	4.57	927.32	6.35	925.54	3.26	928.63	3.63	928.26	--	--	4.19	927.70
MW-D	941.90	--	--	--	--	3.86	938.04	6.59	935.31	--	--	3.58	938.32
MW-E	933.31	6.44	926.87	7.98	925.33	6.01	927.30	5.60	927.71	4.92	928.39	6.16	927.15
MW-F	933.83	7.76	926.07	9.02	924.81	7.21	926.62	7.41	926.42	--	--	7.38	926.45
MW-G	934.37	7.68	926.69	9.29	925.08	7.11	927.26	5.89	928.48	--	--	8.25	926.12
MW-H	933.63	--	--	--	--	7.88	925.75	7.19	926.44	--	--	8.61	925.02
TEC-1	932.51	4.08	928.43	4.95	927.56	3.54	928.97	4.29	928.22	3.29	929.22	3.34	929.17
TEC-1A	932.02	14.18	917.84	15.76	916.26	13.60	918.42	15.17	916.85	--	--	13.90	918.12
TEC-2	931.90	3.97	927.93	4.86	927.04	3.30	928.60	NA*	931.90	--	--	2.98	928.92
TEC-3	934.62	6.23	928.39	6.88	927.74	5.90	928.72	5.78	928.84	5.31	929.31	5.74	928.88
TEC-4	934.50	6.40	928.10	7.43	927.07	5.76	928.74	5.23	929.27	4.88	929.62	5.79	928.71

MSL - Mean Sea Level

NA\* Well underwater and could not be measured

**Table 1. Groundwater Level Elevations 2009-2022**

Location	Top of Casing (TOC) Elevation (ft MSL)	November 5, 2020		May 24, 2022		October 25, 2022	
		Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation	Depth To Water Below TOC	Water Level Elevation
MW-1	932.60	--	--	--	--	--	--
NH-2	935.34	--	--	--	--	--	--
MW-4	932.24	--	--	--	--	--	--
MW-5	931.81	3.08	928.73	2.74	929.07	4.17	927.64
MW-6	931.90	--	--	--	--	--	--
NH-7	935.42	7.83	927.59	6.72	928.70	7.80	927.62
MW-8	931.89	3.03	928.86	2.55	929.34	3.95	927.94
MW-9	931.54	--	--	--	--	--	--
NH-10	935.37	--	--	--	--	--	--
NH-25	934.65	--	--	--	--	--	--
MW-24	931.07	Destroyed		Destroyed		Destroyed	
NH-26	934.76	6.28	928.48	4.63	930.13	5.84	928.92
MW-A	932.83	5.33	927.50	5.67	927.16	7.06	925.77
MW-B	932.58	4.32	928.26	4.30	928.28	5.77	926.81
MW-C	931.89	--	--	--	--	--	--
MW-D	941.90	--	--	--	--	--	--
MW-E	933.31	6.09	927.22	6.45	926.86	7.80	925.51
MW-F	933.83	7.27	926.56	7.70	926.13	9.00	924.83
MW-G	934.37	--	--	--	--	--	--
MW-H	933.63	--	--	--	--	--	--
TEC-1	932.51	3.78	928.73	1.25	931.26	3.75	928.76
TEC-1A	932.02	--	--	14.90	917.12	17.42	914.60
TEC-2	931.90	--	--	--	--	--	--
TEC-3	934.62	5.95	928.67	4.66	929.96	5.82	928.80
TEC-4	934.50	5.94	928.56	4.99	929.51	6.45	928.05

MSL - Mean Sea Level

NA\* Well underwater and could not be measured

**Table 2**  
Groundwater Analytical Results - Dissolved Chromium and Lead  
Tecumseh Products Co. (Former)-Chromium Line  
New Holstein, Wisconsin

WELL ID	Date Sampled	DISSOLVED METALS				UNDISSOLVED METALS	
		Hexavalent Chromium (CrVI)	Total Chromium <sup>1</sup>	Trivalent Chromium <sup>2</sup> (CrIII)	Lead	Ferrous Iron	Total Organic Carbon
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NR 140 STANDARD	PAL	--	10	--	1.5	150	--
	ES	--	100	--	15	300	--
TW-1	8/13/2002	5.0	3.6	NM	--	--	--
TW-2	8/13/2002	24	33	8.7	--	--	--
TW-3	8/13/2002	130	<b>110</b>	NM	--	--	--
TW-4	8/13/2002	7,900	<b>8,200</b>	NM	--	--	--
TW-5	8/13/2002	700	<b>640</b>	NM	--	--	--
TW-6	8/13/2002	5	1 U	NM	--	--	--
TW-7	8/13/2002	6.3	1 U	NM	--	--	--
TW-8	8/13/2002	6.3	1.9	NM	--	--	--
TW-9	8/13/2002	8.9	0.44 U	NM	--	--	--
TW-10	8/13/2002	3.6 U	1.3 U	NM	--	--	--
MW-1	8/13/2002	1,900	<b>1,700</b>	NM	--	--	--
	11/16/2005	4,600	<b>4,900</b>	300	--	--	--
	5/24/2007	2,800	<b>2,800</b>	NM	<i>0.24</i>	--	--
	6/9/2009	680	<b>738</b>	58 J	<i>1.7 J</i>	--	--
	9/24/2009	1,700	<b>1,660</b>	200 U	3.3 J	--	--
	12/28/2009	3.90 U	9.2	9.2 J	2.2 J	--	--
	3/29/2010	5.3	57.6	52.3	2.2 J	--	--
	5/18/2011	50	<i>54.1</i>	4.1	--	--	--
	5/15/2012	4.4 J	<i>16.1</i>	11.7 J	--	--	--
	6/21/2013	33	<i>54.9</i>	NM	2.3 J	--	--
MW-2	8/13/2002	3.6 U	2.3	3.6 U	--	--	--
	11/16/2005	5.0 U	2.8	NM	--	--	--
NH-2	4/24/2012	--	<2.4	--	<1.4	--	--
	8/19/2014	--	2.1 J	--	3 J	--	--
	4/26/2017	<3.9	3.7 J	NM	NM	<28	3,400
MW-3	8/13/2002	1,900	<b>1,700</b>	NM	--	--	--
MW-4	8/13/2002	3.7	0.44 U	NM	--	--	--
	11/15/2005	5.0 U	2.0	NM	--	--	--
	5/24/2007	3.4 U	0.63	NM	0.26	--	--
	6/9/2009	3.9 U	1.3 J	NM	2.2 J	--	--
	9/24/2009	3.9 U	0.39 U	3.9 U	1.3	--	--
	12/28/2009	3.9 U	1.2 J	3.9 U	1.3	--	--
	3/29/2010	3.9 U	0.82 J	3.9 U	1.4 J	--	--
	5/18/2011	3.9 U	1.6 J	3.9 U	--	--	--
	5/15/2012	3.9 U	2.4 U	3.9 U	--	--	--
	6/20/2013	3.4 U	1.2 U	3.9 U	1.2 U	--	--
	8/19/2014	--	2.1 U	NM	3 U	--	--

**Notes:**

ES = NR140 Enforcement Standard

PAL = NR140 Preventative Action Limit

*ITALICIZE* = Detection over NR140 PAL Limit

**BOLD** = Detection over NR140 ES Limit

U = Analyte not detected at or above reporting limit

J = Estimated value. Analyte detected at a level less than the reporting limit

"--" = Analyte was not sampled during sampling round

NM Not measured/calculated, due to Cr(VI) result greater than total Cr result.

<sup>1</sup> = PAL and ES values are for total chromium.

As such, these values are not applicable for hexavalent chromium.

<sup>2</sup> = Trivalent chromium is the difference between total chromium and hexavalent chromium concentrations.

D3 Sample was diluted due to the presence of high levels of non-target or other matrix interference.

\* Samples from this date were only tested for Total Undissolved metals

**Table 2**  
Groundwater Analytical Results - Dissolved Chromium and Lead  
Tecumseh Products Co. (Former)-Chromium Line  
New Holstein, Wisconsin

WELL ID	DATE SAMPLED	DISSOLVED METALS				UNDISSOLVED METALS	
		HEXAVALENT CHROMIUM (CrVI)	TOTAL CHROMIUM <sup>1</sup>	TRIVALENT CHROMIUM <sup>2</sup> (CrIII)	Lead	Ferrous Iron	Total Organic Carbon
UNITS		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NR 140 STANDARD	PAL	--	10	--	1.5	--	--
	ES	--	100	--	15	--	--
MW-5	8/13/2002	380	<b>390</b>	180 U	NM	--	--
	11/16/2005	330	<b>270</b>	NM	NM	--	--
	5/24/2007	1,100	<b>910</b>	NM	0.19	--	--
	6/9/2009	950	<b>938</b>	9.8 U	3.2 J	--	--
	9/24/2009	3400	<b>3,510</b>	110	2.6 J	--	--
	12/29/2009	240	<b>240</b>	3.9 U	1.5 J	--	--
	3/30/2010	210	<b>202</b>	3.9 U	2 J	--	--
	5/19/2011	140	<b>134</b>	NM	NM	--	--
	5/15/2012	350	<b>339</b>	NM	NM	--	--
	6/20/2013	290	<b>313</b>	NM	1.2 U	--	--
	8/18/2014	NM	<b>318</b>	--	3 U	--	--
	3/21/2019	--	<i>81.6</i>	--	--	--	--
	11/5/2020	--	<b>102</b>	--	--	--	--
	5/24/2022*	22 J	<i>17.9</i>	--	--	--	--
10/25/2022	<7.3	4.0 J	--	--	--	--	
MW-6	8/13/2002	8.9	0.56 U	NM	NM	--	--
	11/15/2005	45	65	20	NM	--	--
	5/24/2007	3.4 U	2.6	NM	0.07	--	--
	6/9/2009	3.9 U	0.39 U	3.9	2.6 J	--	--
	9/24/2009	3.9 U	5.0	5.0	2 J	--	--
	12/28/2009	3.9 U	0.48 J	3.9	1.3 U	--	--
	3/29/2010	3.9 U	0.39 U	3.9	2.3 J	--	--
	5/18/2011	3.9 U	1.2 J	3.9	NM	--	--
	5/15/2012	3.9 U	2.4 U	3.9	NM	--	--
	6/20/2013	3.4 U	1.2 U	NM	1.2 U	--	--
	8/19/2014	NM	2.1 U	NM	3 U	--	--
	4/24/2012	NM	<b>261</b>	NM	1.7 J	--	--
	6/20/2013	110	<b>111</b>	NM	1.2 U	--	--
8/19/2014	NM	<b>114</b>	NM	3 U	--	--	
3/21/2019	--	<b>279</b>	--	--	--	--	
11/5/2020	--	<b>311</b>	--	--	--	--	
5/24/2022*	<73 D3	<12.7 D3	--	--	--	--	
10/25/2022	<370 D3	2.8 J	--	--	--	--	
MW-8	8/13/2002	3,100	<b>3,200</b>	720 U	NM	--	--
	11/16/2005	3,000	<b>2,900</b>	NM	NM	--	--
	5/24/2007	1,900	<b>1,600</b>	NM	0.09	--	--
	6/9/2009	7,300	<b>8,730</b>	1400	2.9 J	--	--
	9/24/2009	8,200	<b>8,470</b>	270	2.6 J	--	--
	12/29/2009	5100	<b>5,150</b>	50 J	1.9 J	--	--
	3/29/2010	1,900	<b>1,720</b>	180	2.3 J	--	--
	5/19/2011	320	<b>330</b>	10	NM	--	--
	5/15/2012	3,100	<b>2,940</b>	NM	NM	--	--
	6/20/2013	860	<b>844</b>	NM	1.8 J	--	--
	8/18/2014	NM	<b>1,320</b>	NM	3 U	--	--
	4/22/2016	NM	<i>46.7</i>	NM	NM	--	--
	9/7/2016	NM	<b>725</b>	NM	NM	--	--
	4/26/2017	<3.9	<2.5	NM	NM	<28	4,500
	3/21/2019	--	5.2 J	--	--	--	--
	11/5/2020	--	5.0 J	--	--	--	--
	5/24/2022*	<7.3	<i>17.5</i>	--	--	--	--
	10/25/2022	<7.3	6.5 J	--	--	--	--

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**Table 2**  
Groundwater Analytical Results - Dissolved Chromium and Lead  
Tecumseh Products Co. (Former)-Chromium Line  
New Holstein, Wisconsin

WELL ID	DATE SAMPLED	DISSOLVED METALS				UNDISSOLVED METALS	
		HEXAVALENT CHROMIUM (CrVI)	TOTAL CHROMIUM <sup>1</sup>	TRIVALENT CHROMIUM <sup>2</sup> (CrIII)	Lead	Ferrous Iron	Total Organic Carbon
UNITS		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NR 140 STANDARD	PAL	--	10	--	1.5	--	-
	ES	--	100	--	15	--	-
MW-9	8/13/2002	3.6 U	0.44 U	3.6	NM	--	--
	11/15/2005	5.0 U	1.7	NM	1.8	--	--
	5/24/2007	5.4	0.44	NM	0.06	--	--
	6/9/2009	3.9 U	0.39 U	3.9 U	2.2 J	--	--
	9/24/2009	3.9 U	0.39 U	3.9 U	2.1 J	--	--
	12/28/2009	3.9 U	0.39 U	3.9 U	1.7 J	--	--
	3/29/2010	3.9 U	4.9 J	4.9 J	2.4 J	--	--
NH-10	4/23/2012	NM	4.1 J	NM	1.9 J	--	--
	8/19/2014	NM	2.1 U	NM	3 U	--	--
MW-24	8/19/2014	NM	3.7 J	NM	3 U	--	--
NH-25	4/23/2012	NM	<b>1,220</b>	NM	1.6 J	--	--
	6/20/2013	3,100	<b>3,330</b>	NM	2.8 J	--	--
	8/19/2014	NM	<b>895</b>	--	3 U	--	--
NH-26	4/23/2012	--	470	--	<1.4	--	--
	6/20/2013	480	<b>510</b>	NM	1.2 U	--	--
	8/19/2014	--	<b>284</b>	--	3 U	--	--
	4/26/2017	1,500	<b>1,400</b>	NM	NM	<28	7,400
	3/21/2019	--	<b>763</b>	--	--	--	--
	11/5/2020	--	<b>1,080</b>	--	--	--	--
	5/24/2022*	<7.3	<b>111</b>	--	--	--	--
	10/25/2022	<7.3 MO	3.6 J	--	--	--	--
MW-A	5/24/2007	4,000	<b>4,100</b>	100	27.0	--	--
	6/8/2009	1,500	<b>1,510</b>	20 U	2.1 J	--	--
	9/24/2009	3,600	<b>3,710</b>	110	1.5 J	--	--
	12/28/2009	1,900	<b>1,870</b>	20 U	2.1 J	--	--
	3/29/2010	1,500	<b>1,390</b>	110	2.3 J	--	--
	5/18/2011	590	<b>594</b>	4	--	--	--
	5/15/2012	440	<b>417</b>	NM	--	--	--
	6/21/2013	520	<b>484</b>	NM	2.3 J	--	--
	8/19/2014	--	18.1	--	3	--	--
	4/22/2016	--	<b>307</b>	--	--	--	--
	9/7/2016	NM	60.1	NM	NM	--	--
	4/26/2017	330	<b>295</b>	NM	NM	<28	5,800
	3/21/2019	--	<b>458</b>	--	--	--	--
	11/5/2020	--	<b>779</b>	--	--	--	--
	5/24/2022*	190	<b>242</b>	--	--	--	--
10/25/2022	42	65.5	--	--	--	--	
MW-B	5/24/2007	910	<b>780</b>	NM	0.044 U	--	--
	6/9/2009	570	<b>533</b>	20 U	2.2 J	--	--
	9/24/2009	1,300	<b>1,200</b>	100 U	1.6 J	--	--
	12/28/2009	740	<b>649</b>	20 U	2.4 J	--	--
	3/29/2010	270	<b>263</b>	20 U	2.2 J	--	--
	5/18/2011	68	64	NM	--	--	--
	5/15/2012	5.5 J	10.2	4.7 J	--	--	--
	6/20/2013	74	73.8	NM	1.2 U	--	--
	8/19/2014	--	47.1	--	3 U	--	--
	4/22/2016	NM	20.1	NM	NM	--	--
	9/7/2016	NM	<b>585</b>	NM	NM	--	--
	4/26/2017	<3.9	4.7 J	NM	NM	<28	910
	3/21/2019	--	79.6	--	--	--	--
	11/5/2020	--	73.3	--	--	--	--
	5/24/2022*	310	<b>394</b>	--	--	--	--
	10/25/2022	290	<b>290</b>	--	--	--	--

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Groundwater Analytical Results - Dissolved Chromium and Lead  
Tecumseh Products Co. (Former)-Chromium Line  
New Holstein, Wisconsin

WELL ID	DATE SAMPLED	DISSOLVED METALS				UNDISSOLVED METALS	
		HEXAVALENT CHROMIUM (CrVI)	TOTAL CHROMIUM <sup>1</sup>	TRIVALENT CHROMIUM <sup>2</sup> (CrIII)	Lead	Ferrous Iron	Total Organic Carbon
UNITS		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NR 140 STANDARD	PAL	--	10	--	1.5	--	--
	ES	--	100	--	15	--	--
MW-C	5/24/2007	3.4 U	1.3	NM	0.07	--	--
	6/9/2009	3.9 U	1.1 J	3.9 U	2.4 J	--	--
	9/24/2009	3.9 U	0.39 U	3.9 U	4.1 J	--	--
	12/28/2009	3.9 U	4.5 J	4.5 J	1.9 J	--	--
	3/29/2010	3.9 U	4.2 J	4.2 J	1.4 J	--	--
	5/18/2011	3.9 U	2.3 J	3.9 U	--	--	--
	5/15/2012	3.9 U	2.4 U	3.9 U	--	--	--
	6/20/2013	3.4 U	1.2 U	NM	1.2 U	--	--
	8/19/2014	--	2.1 U	--	3 U	--	--
	MW-D	5/25/2007	3.4 U	1.9	NM	0.1	--
6/9/2009		3.9 U	2.4 J	3.9 U	1.7 J	--	--
9/24/2009		3.9 U	0.42 J	3.9 U	3 J	--	--
12/29/2009		3.9 U	1.9 J	3.9 U	2.5 J	--	--
3/29/2010		3.9 U	1.0 J	3.9 U	1.4 J	--	--
MW-E		6/9/2009	290	<b>268</b>	3.9 U	2 J	--
	9/24/2009	340	<b>353</b>	20 U	2 J	--	--
	12/29/2009	870	<b>814</b>	39 U	3.9 J	--	--
	3/30/2010	890	<b>808</b>	39 U	1.9 J	--	--
	5/19/2011	1,000	<b>963</b>	NM	--	--	--
	5/15/2012	1,000	<b>920</b>	NM	--	--	--
	6/20/2013	1,200	<b>1,150</b>	NM	2.9 J	--	--
	8/19/2014	--	<b>1,290</b>	--	3 U	--	--
	4/22/2016	NM	<b>594</b>	NM	NM	--	--
	9/7/2016	NM	<b>507</b>	NM	NM	--	--
	4/26/2017	550	<b>533</b>	NM	NM	<28	6,200
	3/21/2019	--	<b>628</b>	--	--	--	--
	11/5/2020	--	<b>1,420</b>	--	--	--	--
	5/24/2022*	<7.3	<2.5	--	--	--	--
10/25/2022	41	52.9	--	--	--	--	
MW-F	6/8/2009	3.9 U	0.46 J	3.9 U	2.2 J	--	--
	9/23/2009	3.9 U	0.39 U	3.9 U	2.4 J	--	--
	12/28/2009	3.9 U	1.8 J	3.9 U	1.6 J	--	--
	3/29/2010	3.9 U	1.4 J	3.9 U	2.2 J	--	--
	5/18/2011	3.9 U	1.7 J	3.9 U	--	--	--
	5/15/2012	3.9 U	2.4 U	3.9 U	--	--	--
	6/21/2013	3.9 U	1.2 U	NM	1.2 U	--	--
	8/19/2014	3.9 U	2.1 U	--	3 U	--	--
	3/21/2019	--	2.5 U	--	--	--	--
	11/5/2020	--	2.5 U	--	--	--	--
	5/24/2022*	250	<b>333</b>	--	--	--	--
	10/25/2022	<7.3	<2.5	--	--	--	--
	MW-G	6/8/2009	3.9 U	0.7 J	3.9 U	1.3	--
9/23/2009		3.9 U	0.39 U	3.9 U	4.9 J	--	--
12/28/2009		3.9 U	0.39 J	3.9 U	1.9 J	--	--
3/29/2010		3.9 U	0.39 U	3.9 U	3 J	--	--
5/18/2011		3.9 U	1.1 J	3.9 U	--	--	--
5/15/2012		3.9 U	2.4 U	3.9 U	--	--	--
6/21/2013		3.4 U	1.2 U	NM	3.1 J	--	--
8/19/2014		--	2.1 U	--	3 U	--	--

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New Holstein, Wisconsin

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		HEXAVALENT CHROMIUM (CrVI)	TOTAL CHROMIUM <sup>1</sup>	TRIVALENT CHROMIUM <sup>2</sup> (CrIII)	Lead	Ferrous Iron	Total Organic Carbon
UNITS		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NR 140 STANDARD	PAL	--	10	--	1.5	--	-
	ES	--	100	--	15	--	-
MW-H	6/8/2009	3.9 U	0.89 J	3.9 U	1.3	--	--
	9/23/2009	3.9 U	3.9 U	3.9 U	2.1 J	--	--
	12/28/2009	3.9 U	3.9 U	3.9 U	2.7 J	--	--
	3/29/2010	3.9 U	3.9 U	3.9 U	1.6 J	--	--
TEC-1	8/13/2002	500	490	NM	--	--	--
	11/16/2005	4,300	3,800	NM	1.9	--	--
	5/23/2007	790	670	NM	20	--	--
	6/10/2009	11,400	12,000	600 J	3.5 J	--	--
	9/24/2009	3,000	3,120	120	3.8 J	--	--
	12/29/2009	7,900	7,430	200 U	3.3 J	--	--
	3/30/2010	6,700	6,710	200 U	3.3 J	--	--
	5/19/2011	2,400	2,620	220	--	--	--
	5/15/2012	2,300	2,190	NM	--	--	--
	6/20/2013	2,300	2,250	NM	4.3 J	--	--
	8/18/2014	--	1,250	--	3 U	--	--
	4/26/2017	650	598	NM	NM	<28	2,100
	3/21/2019	--	315	--	--	--	--
	11/5/2020	--	318	--	--	--	--
	5/24/2022*	140	192	--	--	--	--
	10/25/2022	<7.3	15.8	--	--	--	--
TEC-1A	8/13/2002	14	0.52 U	NM	--	--	--
	3/6/2006	5.0 U	2.8	NM	--	--	--
	5/23/2007	3.4 U	0.43 U	NM	0.07	--	--
	6/9/2009	14 J	22.6	9 J	2.2 J	--	--
	9/24/2009	3.9 U	1.1 J	3.9 U	2.1 J	--	--
	12/29/2009	3.9 U	4.3 J	4.3 J	2 J	--	--
	3/29/2010	3.9 U	5.1	5.1	1.5 J	--	--
	5/19/2011	32	38.7	6.7	--	--	--
	5/15/2012	3.9 U	8.2	8.2	--	--	--
	6/20/2013	3.4 U	1.2 U	NM	1.2 U	--	--
	8/18/2014	--	2.1 U	--	3 U	--	--
	5/24/2022*	<7.3	9.3 J	--	--	--	--
	10/25/2022	<7.3	<2.5	--	--	--	--
TEC-2	8/13/2002	16	0.44 U	NM	--	--	--
	11/16/2005	5.0 U	0.78	NM	--	--	--
	5/24/2007	3.4 U	0.94	--	0.13	--	--
	6/9/2009	3.9 U	1.2 J	3.9 U	2.5 J	--	--
	9/24/2009	3.9 U	0.68 J	3.9 U	3.1 J	--	--
	12/29/2009	3.9 U	1.1 J	3.9 U	3.2 J	--	--
	3/30/2010	3.9 U	2.7 J	3.9 U	2.3 J	--	--
	5/19/2011	3.9 U	1.3 J	3.9 U	--	--	--
	5/15/2012	3.9 U	2.4 U	3.9 U	--	--	--
	6/20/2013	3.4 U	1.2 U	NM	2.8 J	--	--
	8/18/2014	--	2.1 U	--	3.0 U	--	--

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 Tecumseh Products Co. (Former)-Chromium Line  
 New Holstein, Wisconsin

WELL ID	DATE SAMPLED	DISSOLVED METALS				UNDISSOLVED METALS	
		HEXAVALENT	TOTAL	TRIVALENT	Lead	Ferrous Iron	Total Organic
UNITS		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NR 140 STANDARD	PAL	--	10	--	1.5	--	-
	ES	--	100	--	15	--	-
TEC-3	9/23/2003	270	<b>310</b>	40	--	--	--
	11/16/2005	540	<b>490</b>	NM	--	--	--
	5/24/2007	1,000	<b>910</b>	NM	0.17	--	--
	6/10/2009	400	<b>789</b>	390	3.5 J	--	--
	9/24/2009	99	<i>99</i>	20 U	1.8 J	--	--
	12/29/2009	190	<b>201</b>	11 J	2.2 J	--	--
	3/30/2010	470	<b>445</b>	20 U	1.3 J	--	--
	5/19/2011	580	<b>585</b>	5	--	--	--
	5/15/2012	250	<b>227</b>	NM	--	--	--
	6/20/2013	1,200	<b>1,260</b>	NM	1.2 U	--	--
	8/19/2014	--	<b>2,100</b>	--	3 U	--	--
	4/22/2016	NM	<b>5,650</b>	NM	NM	--	--
	9/7/2016	NM	<b>2,820</b>	NM	NM	--	--
	4/26/2017	5,300	<b>5,040</b>	NM	NM	<28	5,800
	3/21/2019	--	<b>1,080</b>	--	--	--	--
	11/5/2020	--	<b>4,560</b>	--	--	--	--
	5/24/2022*	<73 D3	6.1 J	--	--	--	--
10/25/2022	<37 D3	5.3 J	--	--	--	--	
TEC-4	9/23/2003	1,200	<b>1,300</b>	100	--	--	--
	11/16/2005	2,800	<b>2,700</b>	NM	0.40 U	--	--
	5/24/2007	4,800	<b>4,000</b>	NM	0.06	--	--
	6/10/2009	13,300	<b>12,500</b>	200 U	2.3 J	--	--
	9/24/2009	5,500	<b>5,220</b>	500 U	2.3 J	--	--
	12/29/2009	5,200	<b>5,360</b>	160 J	3 J	--	--
	3/30/2010	14,300	<b>12,900</b>	390 U	2.5 J	--	--
	5/19/2011	29,000	<b>29,200</b>	200	--	--	--
	5/15/2012	21,300	<b>20,300</b>	NM	--	--	--
	6/20/2013	33,600	<b>32,200</b>	NM	14 U	--	--
	8/19/2014	--	<b>6,880</b>	--	3 U	--	--
	4/22/2016	NM	<b>65,100</b>	NM	NM	--	--
	9/7/2016	NM	<b>33,100</b>	NM	NM	--	--
	4/26/2017	16,200	<b>15,400</b>	NM	NM	<28	13,400
	3/21/2019	--	<b>16,900</b>	--	--	--	--
	11/5/2020	--	<b>26,100</b>	--	--	--	--
	5/24/2022*	<73 D3	<b>2170</b>	--	--	--	--
10/25/2022	<73 D3	25.1	--	--	--	--	

Notes:

ES = NR140 Enforcement Standard

PAL = NR140 Preventative Action Limit

*ITALICIZE* = Detection over NR140 PAL Limit

**BOLD** = Detection over NR140 ES Limit

U = Analyte not detected at or above reporting limit

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.

"--" = Analyte was not sampled during sampling round

NM Not measured/calculated, due to Cr(VI) result greater than total Cr result.

*I* = PAL and ES values are for total chromium.

As such, these values are not applicable for hexavalent chromium.

2 = Trivalent chromium is the difference between total chromium and hexavalent chromium concentrations.

D3 Sample was diluted due to the presence of high levels of non-target or other matrix interference.

\* Samples from this date were only tested for Total Undissolved metals



**Attachment 4**  
**Analytical Data**



**TRC**

November 07, 2022

Chris Harvey  
TRC Environmental  
230 W. Monroe St  
Suite 630  
Chicago, IL 60606

RE: Project: TECUMSEH NEW HOLSTEIN  
Pace Project No.: 40253646

Dear Chris Harvey:

Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tod Noltemeyer  
tod.noltemeyer@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: TECUMSEH NEW HOLSTEIN  
Pace Project No.: 40253646

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40253646001	NH-7	Water	10/25/22 10:10	10/25/22 14:20
40253646002	NH-26	Water	10/25/22 10:45	10/25/22 14:20
40253646003	MW-E	Water	10/25/22 11:05	10/25/22 14:20
40253646004	MW-A	Water	10/25/22 11:40	10/25/22 14:20
40253646005	MW-B	Water	10/25/22 12:10	10/25/22 14:20
40253646006	MW-F	Water	10/25/22 12:40	10/25/22 14:20
40253646007	TEC-4	Water	10/25/22 09:35	10/25/22 14:20
40253646008	TEC-3	Water	10/25/22 10:15	10/25/22 14:20
40253646009	TEC-1	Water	10/25/22 10:55	10/25/22 14:20
40253646010	TEC-1A	Water	10/25/22 11:25	10/25/22 14:20
40253646011	MW-8	Water	10/25/22 12:00	10/25/22 14:20
40253646012	MW-5	Water	10/25/22 12:35	10/25/22 14:20
40253646013	DUP-1	Water	10/25/22 00:00	10/25/22 14:20

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: TECUMSEH NEW HOLSTEIN  
Pace Project No.: 40253646

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40253646001	NH-7	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646002	NH-26	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646003	MW-E	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646004	MW-A	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646005	MW-B	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646006	MW-F	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646007	TEC-4	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646008	TEC-3	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646009	TEC-1	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646010	TEC-1A	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646011	MW-8	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646012	MW-5	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G
40253646013	DUP-1	EPA 6010D	SIS	1	PASI-G
		SM 3500-Cr B	HNT	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: TECUMSEH NEW HOLSTEIN  
Pace Project No.: 40253646

---

**Method:** EPA 6010D  
**Description:** 6010D MET ICP  
**Client:** TRC Environmental - IL  
**Date:** November 07, 2022

**General Information:**

13 samples were analyzed for EPA 6010D by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

---

**Method:** SM 3500-Cr B

**Description:** Chromium, Hexavalent

**Client:** TRC Environmental - IL

**Date:** November 07, 2022

### General Information:

13 samples were analyzed for SM 3500-Cr B by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 430648

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40253646002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2480057)
  - Chromium, Hexavalent
- MSD (Lab ID: 2480058)
  - Chromium, Hexavalent

### Additional Comments:

Analyte Comments:

QC Batch: 430648

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- NH-7 (Lab ID: 40253646001)
  - Chromium, Hexavalent
- TEC-3 (Lab ID: 40253646008)
  - Chromium, Hexavalent
- TEC-4 (Lab ID: 40253646007)
  - Chromium, Hexavalent

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: NH-7**      **Lab ID: 40253646001**      Collected: 10/25/22 10:10      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>2.8J</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:03	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>&lt;0.37</b>	mg/L	1.2	0.37	50		11/04/22 14:11		D3

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: NH-26**      **Lab ID: 40253646002**      Collected: 10/25/22 10:45      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>3.6J</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:06	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>&lt;0.0073</b>	mg/L	0.024	0.0073	1		11/04/22 14:12		M0

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: MW-E**      **Lab ID: 40253646003**      Collected: 10/25/22 11:05      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>52.9</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:08	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>0.041</b>	mg/L	0.024	0.0073	1		11/04/22 14:14		

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: MW-A**      **Lab ID: 40253646004**      Collected: 10/25/22 11:40      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>65.5</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:11	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>0.042</b>	mg/L	0.024	0.0073	1		11/04/22 14:14		

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: MW-B**      **Lab ID: 40253646005**      Collected: 10/25/22 12:10      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>290</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:13	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>0.29</b>	mg/L	0.024	0.0073	1		11/04/22 14:14		

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: MW-F**      **Lab ID: 40253646006**      Collected: 10/25/22 12:40      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>&lt;2.5</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:16	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>&lt;0.0073</b>	mg/L	0.024	0.0073	1		11/04/22 14:14		

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: TEC-4**      **Lab ID: 40253646007**      Collected: 10/25/22 09:35      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>25.1</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:18	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>&lt;0.073</b>	mg/L	0.24	0.073	10		11/04/22 14:15		D3

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: TEC-3**      **Lab ID: 40253646008**      Collected: 10/25/22 10:15      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>5.3J</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:21	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>&lt;0.037</b>	mg/L	0.12	0.037	5		11/04/22 14:16		D3

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: TEC-1**      **Lab ID: 40253646009**      Collected: 10/25/22 10:55      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>15.8</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:24	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>&lt;0.0073</b>	mg/L	0.024	0.0073	1		11/04/22 14:17		

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: TEC-1A**      **Lab ID: 40253646010**      Collected: 10/25/22 11:25      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>&lt;2.5</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:26	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>&lt;0.0073</b>	mg/L	0.024	0.0073	1		11/04/22 14:17		

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: MW-8**      **Lab ID: 40253646011**      Collected: 10/25/22 12:00      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>6.5J</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:34	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>&lt;0.0073</b>	mg/L	0.024	0.0073	1		11/04/22 14:17		

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: MW-5**      **Lab ID: 40253646012**      Collected: 10/25/22 12:35      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>4.0J</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:36	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>&lt;0.0073</b>	mg/L	0.024	0.0073	1		11/04/22 14:18		

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### ANALYTICAL RESULTS

Project: TECUMSEH NEW HOLSTEIN

Pace Project No.: 40253646

**Sample: DUP-1**      **Lab ID: 40253646013**      Collected: 10/25/22 00:00      Received: 10/25/22 14:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>	Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	<b>4.6J</b>	ug/L	10.0	2.5	1	10/27/22 04:47	10/27/22 21:39	7440-47-3	
<b>Chromium, Hexavalent</b>	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	<b>&lt;0.0073</b>	mg/L	0.024	0.0073	1		11/04/22 14:19		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: TECUMSEH NEW HOLSTEIN  
Pace Project No.: 40253646

QC Batch:	429839	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D MET
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40253646001, 40253646002, 40253646003, 40253646004, 40253646005, 40253646006, 40253646007, 40253646008, 40253646009, 40253646010, 40253646011, 40253646012, 40253646013

METHOD BLANK: 2475667 Matrix: Water  
Associated Lab Samples: 40253646001, 40253646002, 40253646003, 40253646004, 40253646005, 40253646006, 40253646007, 40253646008, 40253646009, 40253646010, 40253646011, 40253646012, 40253646013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<2.5	10.0	10/27/22 20:21	

LABORATORY CONTROL SAMPLE: 2475668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	250	262	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2475669 2475670

Parameter	Units	40253528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	<2.5	250	250	256	258	102	103	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: TECUMSEH NEW HOLSTEIN  
Pace Project No.: 40253646

QC Batch:	430648	Analysis Method:	SM 3500-Cr B
QC Batch Method:	SM 3500-Cr B	Analysis Description:	Chromium, Hexavalent by 3500
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40253646001, 40253646002, 40253646003, 40253646004, 40253646005, 40253646006, 40253646007, 40253646008, 40253646009, 40253646010, 40253646011, 40253646012, 40253646013

METHOD BLANK: 2480055 Matrix: Water  
Associated Lab Samples: 40253646001, 40253646002, 40253646003, 40253646004, 40253646005, 40253646006, 40253646007, 40253646008, 40253646009, 40253646010, 40253646011, 40253646012, 40253646013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0073	0.024	11/04/22 14:10	

LABORATORY CONTROL SAMPLE: 2480056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.3	0.28	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2480057 2480058

Parameter	Units	40253646002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	<0.0073	0.3	0.3	0.17	0.18	56	58	90-110	4	20	M0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: TECUMSEH NEW HOLSTEIN  
Pace Project No.: 40253646

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TECUMSEH NEW HOLSTEIN  
Pace Project No.: 40253646

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40253646001	NH-7	EPA 3010A	429839	EPA 6010D	429942
40253646002	NH-26	EPA 3010A	429839	EPA 6010D	429942
40253646003	MW-E	EPA 3010A	429839	EPA 6010D	429942
40253646004	MW-A	EPA 3010A	429839	EPA 6010D	429942
40253646005	MW-B	EPA 3010A	429839	EPA 6010D	429942
40253646006	MW-F	EPA 3010A	429839	EPA 6010D	429942
40253646007	TEC-4	EPA 3010A	429839	EPA 6010D	429942
40253646008	TEC-3	EPA 3010A	429839	EPA 6010D	429942
40253646009	TEC-1	EPA 3010A	429839	EPA 6010D	429942
40253646010	TEC-1A	EPA 3010A	429839	EPA 6010D	429942
40253646011	MW-8	EPA 3010A	429839	EPA 6010D	429942
40253646012	MW-5	EPA 3010A	429839	EPA 6010D	429942
40253646013	DUP-1	EPA 3010A	429839	EPA 6010D	429942
40253646001	NH-7	SM 3500-Cr B	430648		
40253646002	NH-26	SM 3500-Cr B	430648		
40253646003	MW-E	SM 3500-Cr B	430648		
40253646004	MW-A	SM 3500-Cr B	430648		
40253646005	MW-B	SM 3500-Cr B	430648		
40253646006	MW-F	SM 3500-Cr B	430648		
40253646007	TEC-4	SM 3500-Cr B	430648		
40253646008	TEC-3	SM 3500-Cr B	430648		
40253646009	TEC-1	SM 3500-Cr B	430648		
40253646010	TEC-1A	SM 3500-Cr B	430648		
40253646011	MW-8	SM 3500-Cr B	430648		
40253646012	MW-5	SM 3500-Cr B	430648		
40253646013	DUP-1	SM 3500-Cr B	430648		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **TRC**  
 Branch/Location: **Chicago**  
 Project Contact: **Chr.'s Harvey**  
 Phone: **charvey@trclabs.com**  
 Project Number:  
 Project Name: **Tellurish New Holstein**  
 Project State: **WI**  
 Sampled By (Print): **Adam Jankko, Andrew Ruetten**  
 Sampled By (Sign): *[Signature]*  
 PO #:



UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436

**40253046**

### CHAIN OF CUSTODY

**\*Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

Y/N	Pick Letter	Analyses Requested
Y		Toluene
Y		Hexavalent Chromium

Quote #:  
 Mail To Contact:  
 Mail To Company:  
 Mail To Address:  
 Invoice To Contact:  
 Invoice To Company:  
 Invoice To Address:  
 Invoice To Phone:  
 CLIENT COMMENTS  
 LAB COMMENTS (Lab Use Only)  
 Profile #

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD** (billable)  
 On your sample  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	NH-7	10/25/22	1010	W
002	NH-26		1045	
003	MW-E		1105	
004	MW-A		1140	
005	MW-B		1210	
006	MW-F		1240	
007	TEL-4		0935	
008	TEL-3		1015	
009	TEL-1		1055	
010	TEL-A		1125	
011	MV-8		1200	
012	MW-5		1235	
013	DUP-1			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: **Standard TAT**

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <i>[Signature]</i> Date/Time: <b>10/25 14:20</b>	Received By: <i>[Signature]</i> Date/Time: <b>1420</b>
Relinquished By: <i>[Signature]</i> Date/Time: <b>10/25 14:20</b>	Received By: <i>[Signature]</i> Date/Time: <b>10/25/22</b>
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____

PACE Project No. **40253046**

Receipt Temp = **3°** °C

Sample Receipt pH **OK / Adjusted**

Cooler Custody Seal **Present / Not Present**  
**Intact / Not Intact**



Sample Condition Upon Receipt Form (SCUR)

Project #: \_\_\_\_\_

Client Name: TRC

WO#: 40253646

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_



Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR - 110 Type of Ice: Wet Blue Dry None  Meltwater Only

Cooler Temperature Uncorr: - / Corr: 3°

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 10/25/22 Initials: mp  
 Labeled By Initials: \_\_\_\_\_

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. Mail/invoice, preservation, proj#,
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. py# 10/25/22 mp
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample log in  
 Page 2 of 2