

July 9, 2018



Environmental Programs Coordinator
Appleton Wastewater Treatment Facility
2006 East Newberry Street
Appleton, Wisconsin 54915-2758

Attn: Mr. Brian Kreski (electronic)
Phone: (920) 832-2353
Mobile: (920) 419-0649
Fax: (920) 832-5949

Re: **2018 Second Quarter Compliance Monitoring Report, Industrial User (Wastewater Discharge) Permit #15-21**
N.W. Mauthe Superfund Site
725 South Outagamie Street
Appleton, Wisconsin
Terracon Project No. 58117057
BRRTS No. 02-45-000127

Dear Mr. Kreski:

Terracon Consultants, Inc. (Terracon) is pleased to submit this quarterly process compliance report for the N.W. Mauthe Superfund site, 725 South Outagamie Street, Appleton, Wisconsin. This report is submitted in conformance with the City of Appleton Industrial User No. 15-21, issued on May 31, 2015, which expired on May 31, 2018, and the new permit issued on May 31, 2018, which expires on May 31, 2021. This report covers the period of April 1, 2018, through June 30, 2018, which included monthly effluent compliance monitoring sampling. The monthly results are summarized in the attached Table 1.

The flow monitoring and sampling activities were conducted monthly at the effluent discharge point, prior to Outfall 001. During this reporting period, local limit compliance monitoring samples were collected by the City of Appleton on May 22, 2018, and by Terracon on June 7, 2018, but results from the City sampling are not yet available. Historical results are presented in the attached Table 2.

As noted in the 2012 Fourth Quarter Process Compliance Report the system was replumbed in October 2012. Consequently, a greater volume of water is retained within the equalization tank and sampling occurs directly from the port on the equalization tank discharge pipe. Due to the improvement in the system plumbing, Terracon has collected the composite effluent sample directly from the tank effluent piping during the 2018 sampling events.



Terracon Consultants, Inc. 9856 South 57th Street Franklin, Wisconsin 53132
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2018 Second Quarter Compliance Monitoring Report

N.W. Mauthe Superfund Site ■ Appleton, Wisconsin

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Approximately 250 milliliters (mL) of the collected sample was transferred to a new, clean 250-mL plastic bottle provided by the laboratory. This unfiltered and unpreserved sample was submitted to Pace Analytical (Pace) laboratory (Green Bay, Wisconsin) for analysis of hexavalent chromium. An additional aliquot of the original sample was filtered through a 0.45 micron (μm) filter and then transferred to a clean, new 250-mL plastic bottle with nitric acid preservative provided by the laboratory. This filtered, preserved sample was submitted to Pace for analysis of total dissolved chromium. The laboratory analytic test reports and chain-of-custody record for each of the three monthly sampling rounds (April, May and June 2018) are attached. After the laboratory samples were prepared, the pH of the remaining collected discharge sample was measured with an Oakton pHTestrs.

The attached table summarizes the total metered discharge readings, pH measurements, and laboratory test results. Monthly discharge totals were calculated by linear interpolation of the actual meter readings. Total discharge during the reporting period was 398,491 gallons with a mean daily flow of approximately 3,830 gallons per day. Based on the laboratory results, there were no exceedances during this reporting period from Outfall 001.

Scott A. Hodgson, P.G. performed all the sample collection and monitoring during this reporting period. The following certification statement is required by Section 2 0-106, Chapter 20, Utilities:

"I (Scott Hodgson) certify under penalty of law that this document and all attachments were prepared under my direction or supervision in conformance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

2018 Second Quarter Compliance Monitoring Report

N.W. Mauthe Superfund Site ■ Appleton, Wisconsin

July 9, 2018 ■ Terracon Project No. 58117057



Please call (920-791-9206) or email (sahodgson@terracon.com) if you have any questions or comments regarding the information provided or need additional information.

Sincerely,

Terracon

Scott A. Hodgson, P.G.

Senior Project Manager

SAH:sah\N:\Projects\2011\58117057\Working Files\Pre-Treatment Permit\Process Compliance reports\Terracon 2018\Second Quarter\Second Quarter 2018 Process Compliance.doc

Attachments: Table 1
Table 2
Laboratory Analytic Test Reports

Copies to: Jennifer Borski, WDNR-Oshkosh (Electronic)
File

**TABLE 1
Influent - Effluent Compliance Summary**

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

Date Actual	OUTFALL 001						Manhole #1			Manhole #2			
	Date For Linear Interpolation	Metered Discharge Reading (gallons)	Gallons Discharged Between Meter Reading	Monthly Discharge (gallons)	pH	Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L]	Total Chromium Lab Analysis (mg/L) [Local Limit 7.0 mg/L]	Flow Totalizer #1 Reading (gallons)	pH	Hexavalent Chromium Hach Test Kit (mg/L)	Flow Totalizer #2 Reading (gallons)	pH	Hexavalent Chromium Hach Test Kit (mg/L)
02/01/16		14,533,138	33,850	45,078			0.215	1,971,254			4,316,580		
02/10/16		14,562,012	28,874		8.1	0.87	0.858	1,973,902	7.6	0.61	4,324,057	8.1	0.70
02/29/16		14,601,368	39,356					1,982,872			4,359,110		
	03/01/16	14,602,713		February			Pounds Cr						
03/01/16		14,603,747	2,379	70,091			0.501	1,983,300			4,361,401		
03/10/16		14,625,282	21,535		7.9	0.63	0.609	1,988,471	7.3	1.44	4,380,928	7.4	0.37
03/31/16		14,728,685	103,403					2,017,845			4,463,804		
	04/01/16	14,733,540		March			Pounds Cr						
04/02/16		14,751,888	23,203	130,827			0.663	2,023,638			4,482,114		
04/06/16		14,770,034	18,146		7.8	0.38	0.244	2,029,748	7.2	0.53	4,495,836	7.2	0.24
	05/01/16	14,827,634		April			Pounds Cr						
05/03/16		14,834,742	64,708	94,094			0.191	2,057,059			4,539,976		
05/12/16		14,846,704	19,070		7.6	0.70	0.645	2,062,615	7.2	0.47	4,547,811	7.1	0.69
05/17/16		14,856,181	9,477					2,067,406			4,553,472		
	06/01/16	14,889,570		May			Pounds Cr						
06/06/16		14,902,417	46,236	61,936			0.333	2,086,371			4,585,701		
06/08/16		14,906,067	3,650		7.5	0.43	0.406	2,088,096	7.1	0.69	4,587,959	7.1	0.25
06/19/16		14,946,108	40,041					2,101,451			4,617,396		
	07/01/16	14,980,911		June			Pounds Cr						
07/01/16		14,983,214	37,106	91,341			0.309	2,113,474			4,646,051		
07/07/16		14,998,455	15,241		7.4	0.50	0.430	2,119,487	7.0	0.87	4,656,766	7.1	0.20
07/31/16		15,036,518	38,063					2,138,364			4,681,191		
	08/01/16	15,036,760		July			Pounds Cr						
08/01/16		15,037,244	726	55,849			0.200	2,138,788			4,682,282		
08/11/16		15,047,013	9,769		7.4	0.61	0.583	2,144,319	7.1	0.98	4,687,103	7.1	0.12
08/24/16		15,065,460	18,447					2,152,060			4,700,186		
	09/01/16	15,080,715		August			Pounds Cr						
09/02/16		15,081,239	15,779	43,955			0.213	2,159,787			4,709,523		
09/08/16		15,093,858	12,619		7.2	0.41	0.355	2,164,508	7.1	0.60	4,718,876	6.9	0.17
09/15/16		15,117,114	23,256					2,173,196			4,734,824		
09/30/16		15,161,513	44,399					2,190,037			4,766,164		
	10/01/16	15,162,610		September			Pounds Cr						
10/01/16		15,162,976	1,463	81,895			0.242	2,190,896			4,766,917		
10/05/16		15,170,280	7,304		7.5	0.76	0.707	2,194,329	7.1	1.17	4,771,417	7.2	0.24
	11/01/16	15,218,316		October			Pounds Cr						
11/01/16		15,218,916	48,636	55,706			0.328	2,214,974			4,803,706		
11/09/16		15,231,072	12,156		7.7	0.58	0.550	2,221,415	7.3	1.02	4,810,434	7.2	0.17
11/30/16		15,257,768	26,696					2,231,705			4,829,512		
	12/01/16	15,259,593		November			Pounds Cr						
12/01/16		15,262,085	4,317	41,277			0.189	2,233,005			4,832,948		
12/08/16		15,278,159	16,074		7.7	0.90	0.832	2,240,348	7.4	1.41	4,843,138	7.3	0.26
	01/01/17	15,320,273		December			Pounds Cr						
01/05/17		15,328,203	50,044	60,680			0.420						
01/05/17		15,328,203	0			1.00	0.895	2,259,750	7.5	1.44	4,878,940	7.4	0.47
01/31/17		15,387,622	59,419					2,272,198			4,933,594		
	02/01/17	15,387,845		January			Pounds Cr						
02/01/17		15,388,387	765	67,572			0.504	2,272,625			4,933,971		
02/09/17		15,399,455	11,068		7.8	0.56	0.542	2,277,351	7.5	0.99	4,941,836	7.1	0.13
	03/01/17	15,452,749		February			Pounds Cr						
03/08/17		15,476,369	76,914	64,904			0.305						
03/08/17		15,476,369	0		7.8	0.59	0.539	2,302,121	7.3	1.14	5,002,178	7.3	0.26
03/14/17		15,497,125	20,756					2,309,539			5,016,906		
03/25/17		15,528,765	31,640					2,321,231			5,039,669		
03/29/17		15,542,291	13,526					2,325,638			5,049,699		
	04/01/17	15,558,808		March			Pounds Cr						
04/02/17		15,562,275	19,984	106,059			0.476	2,333,037			5,064,049		
04/06/17		15,582,526	20,251		7.7	0.43	0.405	2,340,089	7.3	0.57	5,064,049	7.3	0.27
04/27/17		15,676,954	94,428					2,372,953			5,146,405		

**TABLE 1
Influent - Effluent Compliance Summary**

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

Date Actual	OUTFALL 001							Manhole #1			Manhole #2		
	Date For Linear Interpolation	Metered Discharge Reading (gallons)	Gallons Discharged Between Meter Reading	Monthly Discharge (gallons)	pH	Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L]	Total Chromium Lab Analysis (mg/L) [Local Limit 7.0 mg/L]	Flow Totalizer #1 Reading (gallons)	pH	Hexavalent Chromium Hach Test Kit (mg/L)	Flow Totalizer #2 Reading (gallons)	pH	Hexavalent Chromium Hach Test Kit (mg/L)
	05/01/17	15,703,639		April			Pounds Cr						
05/04/17		15,728,166	51,212	144,831			0.488						
05/04/17		15,728,166	0		7.6	0.28		2,387,552	7.1	0.36	5,185,807	6.8	0.21
	06/01/17	15,796,047		May			Pounds Cr						
06/08/17		15,812,038	83,872	92,408			0.198						
06/08/17		15,812,038	0		7.5	0.35		2,421,837	7.1	0.36	5,243,312	7.2	0.16
	07/01/17	15,888,740		June			Pounds Cr						
07/01/17		15,891,390	79,352	92,693			0.251						
07/06/17		15,902,647	11,257		7.5	0.57		2,453,044	7.1	0.69	5,309,639	7.0	0.50
07/31/17		15,945,154	42,507					2,472,011			5,337,122		
	08/01/17	15,945,504		July			Pounds Cr						
08/01/17		15,945,880	726	56,764			0.248	2,472,438			5,337,492		
08/09/17		15,958,437	12,557		7.4	0.68		2,478,016	7.0	0.66	5,347,291	6.9	0.38
	09/01/17	15,992,489		August			Pounds Cr						
09/07/17		16,001,926	43,489	46,985			0.244	2,472,438			5,337,492		
09/07/17		16,001,926	0		7.4	0.50		2,497,770	7.1	0.68	5,375,524	6.9	0.14
09/29/17		16,031,780	29,854					2,510,609			5,395,101		
	10/01/17	16,034,956		September			Pounds Cr						
10/03/17		16,035,404	3,624	42,467			0.173	2,512,318			5,397,338		
10/05/17		16,037,996	2,592		7.5	0.44		2,513,176	7.1	1.14	5,399,232	6.7	0.12
	11/01/17	16,080,246		October			Pounds Cr						
11/07/17		16,090,463	52,467	45,290			0.155	2,536,891			5,436,850		
11/09/17		16,092,667	2,204		7.6	0.76		2,538,180	7.2	0.99	5,437,985	7.2	0.22
11/15/17		16,098,379	5,712					2,541,643			5,441,055		
11/30/17		16,109,689	11,310					2,549,030			5,450,173		
	12/01/17	16,110,147		November			Pounds Cr						
12/03/17		16,112,117	2,428	29,901			0.179	2,550,308			5,451,687		
12/07/17		16,115,265	3,148		7.4	0.82		2,551,590	7.4	1.29	5,453,973	7.4	0.20
12/14/17		16,121,000	5,735					2,551,590			5,453,973		
12/31/17		16,131,936	10,936					2,560,147			5,464,203		
	01/01/18	16,132,116		December			Pounds Cr						
01/01/18		16,132,328	392	21,969			0.138	2,560,571			5,464,203		
01/04/18		16,133,697	1,369		--	0.78		2,560,993	--	0.41	5,465,331	--	0.04
	02/01/18	16,144,665		January			Pounds Cr						
02/01/18		16,144,863	11,166	12,549			0.077	2,566,068			5,472,876		
02/08/18		16,147,315	2,452		7.8	0.75		2,567,326	7.4	1.68	5,474,376	7.2	0.16
02/28/18		16,155,889	8,574					2,570,306			5,481,207		
	03/01/18	16,156,053		February			Pounds Cr						
03/01/18		16,156,211	322	11,388			0.086	2,570,306			5,481,586		
03/08/18		16,163,746	7,535		7.7	0.52		2,574,570	7.4	0.78	5,485,747	7.2	0.20
03/27/18		16,183,153	19,407					2,585,717			5,495,623		
03/31/18		16,188,615	5,462					2,472,869*			5,499,048		
	04/01/18	16,189,199		March			Pounds Cr						
04/01/18		16,190,057	1,442	33,146			0.145	2,473,316			5,500,204		
04/05/18		16,195,349	5,292		7.7	0.60		2,476,332	7.3	0.84	5,502,874	7.4	0.35
04/10/18		16,203,721	8,372					2,480,242			5,508,217		
04/25/18		16,302,239	98,518					2,508,161			5,586,326		
04/30/18		16,328,835	26,596					2,516,938			5,606,361		
	05/01/18	16,330,212		April			Pounds Cr						
05/01/18		16,331,044	2,209	141,013			0.687	2,517,809			5,607,864		
05/04/18		16,360,268	29,224					2,526,963			5,630,632		
05/10/18		16,409,694	49,426		7.6	0.30		2,541,347	7.2	0.51	5,667,843	6.8	0.19
05/22/18		16,428,757	19,063					2,547,991			5,681,939		
05/24/18		16,455,003	26,246					2,557,801			5,698,300		
05/29/18		16,462,967	7,964					2,562,178			5,702,537		
	06/01/18	16,466,594		May			Pounds Cr						
06/01/18		16,467,299	4,332	136,382			0.358	2,563,476			5,705,975		
06/05/18		16,476,100	8,801					2,566,515			5,712,597		

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

Date Actual	OUTFALL 001							Manhole #1			Manhole #2		
	Date For Linear Interpolation	Metered Discharge Reading (gallons)	Gallons Discharged Between Meter Reading	Monthly Discharge (gallons)	pH	Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L]	Total Chromium Lab Analysis (mg/L) [Local Limit 7.0 mg/L]	Flow Totalizer #1 Reading (gallons)	pH	Hexavalent Chromium Hach Test Kit (mg/L)	Flow Totalizer #2 Reading (gallons)	pH	Hexavalent Chromium Hach Test Kit (mg/L)
06/07/18		16,480,044	3,944		7.6	0.38	0.382	2,568,258	7.1	0.53	5,715,101	7.3	0.21
06/30/18		16,537,167	57,123					2,588,614			5,756,117		
	<i>07/01/18</i>	<i>16,537,690</i>		June			Pounds Cr						
07/01/18		16,538,238	1,071	71,096			0.226	2,589,032			5,756,879		
07/05/18		16,542,427	4,189		7.6			2,591,176	7.2	0.57	5,759,920	7.1	0.16

Italicized red type metered discharge reading was calculated by linear interpolation to 12 midnight.

Industrial User (Wastewater Discharge) Permit 12-21 Outfall 001 Effluent Limits		
pH	Hexavalent Chromium	Total Chromium
Between 5.0 and 12.4 s.u.	<4.5 mg/L	<7.0 mg/L

* On 3/31/18, the MH1 flowmeter face was blank. Upon replacing the batteries, the totalizer reading reverted to 2,472,869 gallons, a difference of -112,848 gallons from the previous known total.

TABLE 2
City of Appleton Compliance Limits, Outfall 001
 N.W. Mauthe Superfund Site - Appleton, WI

		Aluminum (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Chromium Total (mg/L)	Copper (mg/L)	Cyanide (mg/L)	Lead (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Hexavalent Chromium (mg/L)
Permit #12-21 Limits		70	1.0	0.3	7.0	3.5	1.0	2.0	0.002	2.0	10.0	4.5
Sampler	Sample Date											
CH2M Hill	02/20/97	<.02	<.003	<.00050	0.04	<.01	<.00001	<.005	<.0002	<.005	0.0051	<.01
CH2M Hill	03/24/98	0.0152	<.002	<.00004	0.0637	<.0095	<.0017	<.0006	<.000015	<.0095	0.0046	0.1000
Appleton	04/29/98	<.011	<.002	<.005	0.2200	<.05	0.0020	<.1	<.0002	<.04	<.005	NA
Appleton	10/07/98	<.011	<.002	0.0050	0.1700	<.05	<.001	<.1	<.0002	<.04	0.0250	NA
MCO	03/18/99	<.009	<.003	<.00031	NA	.00068****	<.000032	<.0024	<.00005	.00351****	<.012	<.0036
Appleton	03/18/99	<.011	<.002	<.005	<.05	<.05	0.0010	0.1000	<.00005	0.0400	0.0180	NA
Appleton	09/21/99	<.011	<.002	<.005	<.05	<.05	0.0030	<.1	<.00015	<.04	0.0080	NA
Appleton	02/15/00	<.015	<.0020	<.005	0.0900	<.05	<.001	<.1	<.00013	<.04	0.0280	NA
MCO	03/13/00	<.009	<.003	<.00031	0.1400	<.0006	<.0044	<.0024	<.00005	0.0012	<.012	NA
Appleton	02/21/01	<.015	<.002	<.005	0.11	<.05	0.001	<.1	<.00013	<.04	0.042	NA
MCO	03/01/01	<.034	<.0027	.012****	0.25	.0088****	<.0033	<.17	<.00005	.036****	0.015	<.0036
Appleton	10/02/01	0.016	<.002	<.005	0.14	<.05	<.001	<.1	<.00013	<.04	0.065	NA
MCO	03/19/02	<.034	<.0027	<.0075	0.36	<.0077	<.0027	<.17	<.00005	<.017	<.012	<.0036
Appleton	05/02/02	<.049	<.012	<.014	0.362	<.015	<.0014	<.060	<.00011	<.011	<.009	NA
Appleton	11/12/02	0.027	<.0082	<.00053	0.23	<.009	<.0007	<.00084	<.000028	0.0044	0.0081	NA
Appleton	02/11/03	<.027	<.0082	<.00053	0.086	<.0009	<.0014	<.0013	<.000028	0.0036	<.0025	NA
Appleton	03/24/03	<.045	<.0027	<.0088	0.13	0.075	<.0050	<.16	<.000050	<.019	<.0044	<.0036
Appleton	10/23/03	0.0045	0.0013	<.0001	0.221	<.0008	<.005	<.0006	0.0002	<.025	<.010	NA
Appleton	03/24/04	<.050	<.0026	<.010	0.15	<.0060	<.0050	<.16	<.000025	<.020	<.010	NA
Appleton	11/09/04	0.0071	<.0012	<.0001	0.04	0.0008	<.005	<.008	<.0002	0.0013	<.01	NA
MCO	08/08/05	0.023	<.0035	<.0003	0.039	0.0019	<.0037	<.0011	<.000026	<.0044	0.0024	<.005
Appleton	11/05/06	0.0052	<.0012	<.0001	0.088	<.0005	<.005	<.0008	<.0002	0.0017	<.010	NA
Appleton	02/23/06	0.0021	<.0012	<.0001	0.08	<.0005	<.0005	<.0008	<.0002	0.0022	<.010	NA
MCO	03/23/06	<.020	<.0076	<.00074	0.32	0.0018	0.0043	<.0034	<.000026	0.0033	<.020	NA
Appleton	06/27/06	<.0200	<.0076	<.00074	0.700	0.0016	<.0094	<.0034	<.000072	0.0021	<.020	<.0350
Appleton	10/05/06	0.037	<.00011	<.0001	4.575	0.0068	0.01	<.001	<.0002	0.0026	<.010	NA
Appleton	03/22/07	<.07	<.07	<.01	1.9	3.5	<.004	<.03	<.0002	<.04	<.01	NA
MCO	04/02/07	0.0383	0.00024	0.000086	1.41	0.0041	<.0094	0.00013	<.00019	0.0035	0.009	NA
Appleton	12/04/07	<.07	<.001	<.01	3.4	<.01	0.008	<.03	<.0002	<.04	<.01	1.5
Appleton	01/16/08	0.21	<.005	<.01	<.03	0.02	0.017	0.06	0.0003	<.04	0.04	NA
OMNNI	04/08/08	0.0114	0.00043	0.00011	0.864	0.0043	0.014 J	0.000095 J	<.0001	0.0024	0.0071	0.063
Appleton	08/19/08	<.08	<.001	<.01	0.95	<.01	0.005	<.03	0.0002	<.02	<.01	NA
Appleton	03/31/09	<.09	<.012	<.01	0.99	<.01	<.008	<.05	<.0002	<.02	<.01	NA
OMNNI	04/07/09	<.0151	0.003 J	0.00040 J	0.767	0.0024 J	<.0060	<.0014	<.00010	0.0016 J	0.0137 J	0.84
Appleton	09/22/09	<.08	<.006	<.01	2.3	<.01	<.008	<.05	<.0002	<.02	<.01	NA
Appleton	03/02/10	<.06	<.002	<.01	1.6	<.01	<.008	<.03	<.0002	<.01	<.01	NA
OMNNI	04/06/10	0.0501 J	<.0014	0.00043 J	1.16	0.0024 J	<.0061	<.00075	<.0001	0.0023 J	0.0046 J	1.3
Appleton	11/02/10	<.10	<.010	<.01	0.71	<.01	<.008	<.03	<.0002	<.01	<.01	NA
Appleton	02/24/11	<.08	<.001	<.01	1.5	<.01	0.008	<.04	<.0002	<.02	<.01	NA
OMNNI	04/05/11	0.0725 J	0.0025 J	<.00026	0.401	0.0028 J	<.0061	<.0014	<.00010	0.00053 J	0.0023 J	0.40
Appleton	10/26/11	<.08	<.005	<.01	1.2	<.01	0.007	<.04	<.0002	<.02	<.01	NA
Appleton	03/21/12	<.11	<.004	<.01	1.3	0.01	0.007	<.04	<.0002	<.02	<.01	NA
Terracon	04/05/12	<.0695	<.0047	<.00039	0.696	0.014 J	<.0061	<.0014	<.00010	0.001 J	<.0053	0.83
Appleton	10/04/12	0.0865	0.0051	0.00049	1.43	0.0028 J	0.026	0.0022	0.0001	0.00019 J	<.0053	NA
Terracon	04/11/13	0.078	<.004	<.00048	0.431	0.0024 J	<.0038	<.027	<.00010	0.00013 J	<.0024	0.42
Appleton	04/17/13	<.0714	<.0042	<.00048	0.279	0.0029 J	<.0038	<.027	<.00010	0.00062 J	<.0024	NA
Appleton	11/20/13	<.0714	<.0042	<.00048	1.13	0.0018 J	0.0044 J	<.027	<.00010	0.00085 J	0.0034 J	NA
Appleton	04/15/14	0.119 J	<.0068	<.001	0.27	0.0036 J	<.060	<.0016	<.00010	<.0013	<.0058	NA
Terracon	05/13/14	0.116 J	<.0068	<.001	0.273	0.0034 J	<.060	0.0040 J	<.00010	<.0013	0.0064 J	0.28
Appleton	9/24/2014	<.0655	<.0068	<.001	0.757	<.0034	<.010	<.0016	<.00010	<.0013	<.0058	NA
Terracon	4/15/2015	0.054 J	<.0072	<.00060	0.858	0.0041 J	<.010	<.0030	<.00010	<.0014	0.0026 J	0.92
Appleton	6/3/2015	<.0655	<.0068	<.001	0.504	<.0034	<.020	<.0016	<.00010	0.0013 J	<.0058	NA
Appleton	10/21/2015	0.105 J	<.0068	<.0010	0.676	<.0034	<.010	0.0024 J	<.00010	<.0013	0.0078 J	NA
Terracon	5/12/2016	0.0637 J	<.0072	<.00060	0.645	<.0036	<.0068	<.0030	<.00013	0.0018 J	<.0013	0.70
Appleton	5/17/2016	<.090	<.001	<.010	0.530	<.010	<.007	<.030	<.0002	<.020	<.01	NA
Appleton	11/1/2016	<.090	<.010	<.010	0.560	<.010	<.007	<.030	<.0002	<.020	<.010	NA
Appleton	4/27/2017	<.060	<.001	<.010	0.370	<.010	0.007	<.030	<.0002	<.020	<.010	NA
Terracon	6/8/2017	<.0555	<.0083	<.0013	0.345	<.0063	<.0068	<.0043	<.00013	<.0026	<.0093	0.35
Appleton	11/9/2017	<.060	0.001	0.010	0.770	<.010	<.007	<.030	<.0002	<.020	<.010	NA
Appleton	5/22/2018	Results Not Available										NA
Terracon	6/7/2017	0.0713 J	<.0083	<.0013	0.382	<.0063	<.014	<.0043	<.00013	<.0026	<.0093	0.38

April 13, 2018

Scott Hodgson
Terracon, Inc. - Franklin
9856 South 57th Street
Franklin, WI 53132

RE: Project: 58117057 MAUTHE
Pace Project No.: 40167021

Dear Scott Hodgson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 58117057 MAUTHE

Pace Project No.: 40167021

Green Bay Certification IDs

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

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 58117057 MAUTHE

Pace Project No.: 40167021

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40167021001	OUTFALL-001	Water	04/05/18 07:40	04/05/18 14:02

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 58117057 MAUTHE
Pace Project No.: 40167021

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40167021001	OUTFALL-001	EPA 6010	JLD	1	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 58117057 MAUTHE

Pace Project No.: 40167021

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40167021001	OUTFALL-001					
EPA 6010	Chromium, Dissolved	585	ug/L	10.0	04/06/18 22:13	
SM 3500-Cr B (Online)	Chromium, Hexavalent	0.60	mg/L	0.086	04/05/18 15:00	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 58117057 MAUTHE

Pace Project No.: 40167021

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Terracon, Inc. - Franklin

Date: April 13, 2018

General Information:

1 sample was analyzed for EPA 6010. 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.

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: 58117057 MAUTHE

Pace Project No.: 40167021

Method: SM 3500-Cr B (Online)

Description: Chromium, Hexavalent

Client: Terracon, Inc. - Franklin

Date: April 13, 2018

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). 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.

Additional Comments:

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: 58117057 MAUTHE

Pace Project No.: 40167021

Sample: OUTFALL-001 **Lab ID: 40167021001** Collected: 04/05/18 07:40 Received: 04/05/18 14:02 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Chromium, Dissolved	585	ug/L	10.0	2.5	1		04/06/18 22:13	7440-47-3	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	0.60	mg/L	0.086	0.026	5		04/05/18 15:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 MAUTHE

Pace Project No.: 40167021

QC Batch: 285445

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40167021001

METHOD BLANK: 1670515

Matrix: Water

Associated Lab Samples: 40167021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Dissolved	ug/L	<2.5	10.0	04/09/18 17:52	

LABORATORY CONTROL SAMPLE: 1670516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	500	505	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1670517 1670518

Parameter	Units	40166868001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Chromium, Dissolved	ug/L	<2.5	500	500	496	484	99	97	75-125	3	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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 MAUTHE
Pace Project No.: 40167021

QC Batch: 285328	Analysis Method: SM 3500-Cr B (Online)
QC Batch Method: SM 3500-Cr B (Online)	Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 40167021001	

METHOD BLANK: 1669766 Matrix: Water
Associated Lab Samples: 40167021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0051	0.017	04/05/18 15:00	

LABORATORY CONTROL SAMPLE: 1669767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.30	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1669768 1669769

Parameter	Units	1669768		1669769		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40167021001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chromium, Hexavalent	mg/L	0.60	1.5	1.5	2.1	2.2	103	107	90-110	3	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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 58117057 MAUTHE

Pace Project No.: 40167021

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58117057 MAUTHE
Pace Project No.: 40167021

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40167021001	OUTFALL-001	EPA 6010	285445		
40167021001	OUTFALL-001	SM 3500-Cr B (Online)	285328		

REPORT OF LABORATORY ANALYSIS

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 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Testacon

Project #: **WO# : 40167021**

Courier: CS Logistics Fed Ex Speedee UPS Walco
 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 - N/A Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT ICorr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 4/5/18
 Initials: DS

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
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 <input type="checkbox"/> N/A	5.
- 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 <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	MS/MSD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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 checked="" type="checkbox"/> No <input 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:
 Person Contacted: _____ Date/Time: _____ If checked, see attached form for additional comments
 Comments/ Resolution: _____

Project Manager Review: AC for DM

Date: 4/5/18

May 18, 2018

Scott Hodgson
Terracon, Inc. - Franklin
9856 South 57th Street
Franklin, WI 53132

RE: Project: 58117057 MAUTHE
Pace Project No.: 40168916

Dear Scott Hodgson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 58117057 MAUTHE

Pace Project No.: 40168916

Green Bay Certification IDs

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

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 58117057 MAUTHE

Pace Project No.: 40168916

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40168916001	OUTFALL-001	Water	05/10/18 07:37	05/10/18 16:27

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 58117057 MAUTHE
Pace Project No.: 40168916

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40168916001	OUTFALL-001	EPA 6010	JLD	1	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 58117057 MAUTHE

Pace Project No.: 40168916

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40168916001	OUTFALL-001					
EPA 6010	Chromium, Dissolved	315	ug/L	10.0	05/11/18 14:07	
SM 3500-Cr B (Online)	Chromium, Hexavalent	0.30	mg/L	0.086	05/11/18 07:25	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 58117057 MAUTHE

Pace Project No.: 40168916

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Terracon, Inc. - Franklin

Date: May 18, 2018

General Information:

1 sample was analyzed for EPA 6010. 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.

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: 58117057 MAUTHE

Pace Project No.: 40168916

Method: SM 3500-Cr B (Online)

Description: Chromium, Hexavalent

Client: Terracon, Inc. - Franklin

Date: May 18, 2018

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). 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.

Additional Comments:

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: 58117057 MAUTHE

Pace Project No.: 40168916

Sample: OUTFALL-001 **Lab ID: 40168916001** Collected: 05/10/18 07:37 Received: 05/10/18 16:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Chromium, Dissolved	315	ug/L	10.0	2.5	1		05/11/18 14:07	7440-47-3	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	0.30	mg/L	0.086	0.026	5		05/11/18 07:25		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 MAUTHE
Pace Project No.: 40168916

QC Batch: 288607 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40168916001

METHOD BLANK: 1688992 Matrix: Water
Associated Lab Samples: 40168916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Dissolved	ug/L	<2.5	10.0	05/11/18 13:42	

LABORATORY CONTROL SAMPLE: 1688993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	500	505	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1688994 1688995

Parameter	Units	40168838044 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Dissolved	ug/L	<2.5	500	500	509	508	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: 58117057 MAUTHE

Pace Project No.: 40168916

QC Batch: 288549	Analysis Method: SM 3500-Cr B (Online)
QC Batch Method: SM 3500-Cr B (Online)	Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 40168916001	

METHOD BLANK: 1688676 Matrix: Water
Associated Lab Samples: 40168916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0051	0.017	05/11/18 07:25	

LABORATORY CONTROL SAMPLE: 1688677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.30	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1688678 1688679

Parameter	Units	40168916001 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	0.30	1.5	1.5	1.9	1.8	104	99	90-110	3	20	

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QUALIFIERS

Project: 58117057 MAUTHE

Pace Project No.: 40168916

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58117057 MAUTHE

Pace Project No.: 40168916

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40168916001	OUTFALL-001	EPA 6010	288607		
40168916001	OUTFALL-001	SM 3500-Cr B (Online)	288549		

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(Please Print Clearly)

Company Name: TERRACON

Branch/Location: WILWAUKER

Project Contact: SCOTT HODGSON

Phone: 414-209-7640

Project Number: 58117057

Project Name: Mauithe

Project State: WI

Sampled By (Print): Scott A. Hodgson

Sampled By (Sign): [Signature]

PO #: _____

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	DATE	TIME	MATRIX
Y	N	Total Chromium	5/10/18	0737	WW
D	A	HxC Chromium	5/10/18	1:20	WW

Data Package Options (billable)

EPA Level III

EPA Level IV

MS/MSD

On your sample (billable)

NOT needed on your sample

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID
001	OUTFALL-001

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 #

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

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

Email #1: _____

Email #2: _____

Telephone: _____

Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: [Signature] Date/Time: 5/10/18 0830

Relinquished By: [Signature] Date/Time: 5/10/18 1027

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received By: [Signature] Date/Time: 5/10/18 0950

Received By: [Signature] Date/Time: 5/10/18 1027

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

PACE Project No. 40168916

Receipt Temp = Rt °C

Sample Receipt pH 9.1 / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Terlacor Project #: **WO#: 40168916**
 Courier: CS Logistics Fed Ex Speedee UPS Walco
 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 - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: Red /Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Person examining contents:
 Date: 5/10/18
 Initials: SSM

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
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.
- 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.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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: _____

Project Manager Review: AL for DM Date: 5/10/18

June 19, 2018

Scott Hodgson
Terracon, Inc. - Franklin
9856 South 57th Street
Franklin, WI 53132

RE: Project: 58117057 MAUTHE
Pace Project No.: 40170421

Dear Scott Hodgson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 58117057 MAUTHE

Pace Project No.: 40170421

Green Bay Certification IDs

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

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 58117057 MAUTHE

Pace Project No.: 40170421

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40170421001	OUTFALL-001	Water	06/07/18 07:35	06/07/18 13:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 58117057 MAUTHE
Pace Project No.: 40170421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40170421001	OUTFALL-001	EPA 6010	JLD	7	PASI-G
		EPA 6010	JLD	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G
		EPA 335.4	DAW	1	PASI-G

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SUMMARY OF DETECTION

Project: 58117057 MAUTHE

Pace Project No.: 40170421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40170421001	OUTFALL-001					
EPA 6010	Aluminum	71.3J	ug/L	500	06/15/18 15:11	
EPA 6010	Chromium, Dissolved	382	ug/L	10.0	06/08/18 12:39	
SM 3500-Cr B (Online)	Chromium, Hexavalent	0.38	mg/L	0.086	06/07/18 14:10	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 58117057 MAUTHE

Pace Project No.: 40170421

Method: EPA 6010

Description: 6010 MET ICP

Client: Terracon, Inc. - Franklin

Date: June 19, 2018

General Information:

1 sample was analyzed for EPA 6010. 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 3010 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: 58117057 MAUTHE

Pace Project No.: 40170421

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Terracon, Inc. - Franklin

Date: June 19, 2018

General Information:

1 sample was analyzed for EPA 6010. 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.

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: 58117057 MAUTHE

Pace Project No.: 40170421

Method: EPA 7470

Description: 7470 Mercury

Client: Terracon, Inc. - Franklin

Date: June 19, 2018

General Information:

1 sample was analyzed for EPA 7470. 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 7470 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:

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PROJECT NARRATIVE

Project: 58117057 MAUTHE

Pace Project No.: 40170421

Method: SM 3500-Cr B (Online)

Description: Chromium, Hexavalent

Client: Terracon, Inc. - Franklin

Date: June 19, 2018

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). 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.

Additional Comments:

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PROJECT NARRATIVE

Project: 58117057 MAUTHE

Pace Project No.: 40170421

Method: EPA 335.4

Description: 335.4 Cyanide, Total

Client: Terracon, Inc. - Franklin

Date: June 19, 2018

General Information:

1 sample was analyzed for EPA 335.4. 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 335.4 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:

Analyte Comments:

QC Batch: 291345

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

- OUTFALL-001 (Lab ID: 40170421001)
 - Cyanide

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: 58117057 MAUTHE
Pace Project No.: 40170421

Sample: OUTFALL-001 **Lab ID: 40170421001** Collected: 06/07/18 07:35 Received: 06/07/18 13:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Aluminum	71.3J	ug/L	500	55.5	1	06/14/18 12:40	06/15/18 15:11	7429-90-5	
Arsenic	<8.3	ug/L	25.0	8.3	1	06/14/18 12:40	06/15/18 15:11	7440-38-2	
Cadmium	<1.3	ug/L	5.0	1.3	1	06/14/18 12:40	06/15/18 15:11	7440-43-9	
Copper	<6.3	ug/L	20.0	6.3	1	06/14/18 12:40	06/15/18 15:11	7440-50-8	
Lead	<4.3	ug/L	13.0	4.3	1	06/14/18 12:40	06/15/18 15:11	7439-92-1	
Nickel	<2.6	ug/L	10.0	2.6	1	06/14/18 12:40	06/15/18 15:11	7440-02-0	
Zinc	<9.3	ug/L	40.0	9.3	1	06/14/18 12:40	06/15/18 15:11	7440-66-6	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Chromium, Dissolved	382	ug/L	10.0	2.5	1		06/08/18 12:39	7440-47-3	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.13	ug/L	0.42	0.13	1	06/13/18 10:15	06/14/18 09:40	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM 3500-Cr B (Online)							
Chromium, Hexavalent	0.38	mg/L	0.086	0.026	5		06/07/18 14:10		
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4							
Cyanide	<0.014	mg/L	0.045	0.014	1	06/08/18 09:10	06/08/18 11:01	57-12-5	D3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 MAUTHE

Pace Project No.: 40170421

QC Batch: 291383

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40170421001

METHOD BLANK: 1703873

Matrix: Water

Associated Lab Samples: 40170421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Dissolved	ug/L	<2.5	10.0	06/08/18 11:35	

LABORATORY CONTROL SAMPLE: 1703874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	500	502	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1703875 1703876

Parameter	Units	1703875		1703876		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40170383001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chromium, Dissolved	ug/L	<2.5	500	500	503	505	101	101	75-125	0	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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 MAUTHE
Pace Project No.: 40170421

QC Batch: 291291	Analysis Method: SM 3500-Cr B (Online)
QC Batch Method: SM 3500-Cr B (Online)	Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 40170421001	

METHOD BLANK: 1703267 Matrix: Water
Associated Lab Samples: 40170421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0051	0.017	06/07/18 14:10	

LABORATORY CONTROL SAMPLE: 1703268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.30	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1703269 1703270

Parameter	Units	1703269		1703270		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40170421001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chromium, Hexavalent	mg/L	0.38	1.5	1.5	1.9	1.9	101	101	90-110	0	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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 MAUTHE
Pace Project No.: 40170421

QC Batch: 291345 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 40170421001

METHOD BLANK: 1703653 Matrix: Water
Associated Lab Samples: 40170421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0068	0.023	06/08/18 10:48	

LABORATORY CONTROL SAMPLE: 1703654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1703655 1703656

Parameter	Units	1703655		1703656		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40170421001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Cyanide	mg/L	<0.014	.2	.2	0.22	0.21	104	99	90-110	5	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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 58117057 MAUTHE

Pace Project No.: 40170421

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58117057 MAUTHE

Pace Project No.: 40170421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40170421001	OUTFALL-001	EPA 3010	291892	EPA 6010	291966
40170421001	OUTFALL-001	EPA 6010	291383		
40170421001	OUTFALL-001	EPA 7470	291712	EPA 7470	291824
40170421001	OUTFALL-001	SM 3500-Cr B (Online)	291291		
40170421001	OUTFALL-001	EPA 335.4	291345	EPA 335.4	291365

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Document Name: **Sample Condition Upon Receipt (SCUR)**
Document No.: **F-GB-C-031-Rev.07**

Document Revised: 25Apr2018
Issuing Authority: **Pace Green Bay Quality Office**

Sample Condition Upon Receipt Form (SCUR)

Client Name: Termon

Project #: **WO#: 40170421**

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 - N/A Type of Ice: Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RoI /Corr: _____

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

Person examining contents:
Date: 6/7/18
Initials: SSM

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. No PO #, use #, mail to info, invoice info sent 6/7/18
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
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.
- 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.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
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: _____

Project Manager Review: Rmk for DM Date: 6/7/18