



REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING



Subject:

Site Update
Phillips Plating Corporation
984 North Lake Avenue
Phillips, WI
BRRTS: 02-51-559634

Dear Phil,

The purpose of this letter is to provide you with an update for site investigation activities associated with the above referenced site. The site location is shown on Figure 1.

BACKGROUND

This site is located in the NW ¼ , SW ¼ , S07, T37N, R01E in the City of Phillips, Price County. A site vicinity map is included as an attachment. The facility is an operating plating facility which specializes in metallic plating of various plastic components.

SUMMARY OF DATES AND WORK COMPLETED

- **October 4, 2012** - REI completed Phase II Environmental Site Investigation
- **November 29, 2012** - REI reports contamination to WDNR
- **December 10, 2012** - REI prepares and submits investigation work plan
- **December 11, 2012** - REI onsite to install, develop, and sample monitoring wells 1-5
- **December 19, 2012** - REI onsite to collect soil samples around previously leaking floor drain
- **January 3, 2013** - REI onsite to sample MW5 and install, develop, and sample monitoring wells 6 and 7
- **February 14, 2013** - REI onsite to install MW8 and MW9
- **February 19, 2013** - REI onsite to develop and sample MW8 and MW9
- **March 5, 2013** - REI onsite to sample all monitoring wells

INITIAL GROUNDWATER ANALYTICAL RESULTS

A Phase II Environmental Site Investigation was completed on October 4, 2012. Groundwater samples collected from Geoprobe Hydraulic Push Borings, advanced by Geiss Soil and Samples, indicated that groundwater contamination was present on the site. Initial groundwater monitoring wells, MW1-MW5, were installed by Giles Engineering Associates. These wells were surveyed, developed and sampled for the first time on December 11, 2012. The extent of groundwater contamination was not defined. Therefore, On January 3, 2013, Giles Engineering Associates was

Rec 315/13
POT ON BRRTS
March 13, 2013 315/13
(43)

Wisconsin Department of Natural Resources

Attn: Mr. Phil Richard
875 South 4th Avenue
Park Falls, WI 54552



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4080 N. 20th Avenue Wausau, WI 54401
715-675-9784 www.REengineering.com

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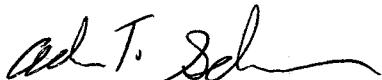
subcontracted to advance two (2) additional groundwater monitoring wells (MW6 and MW7). These wells were sampled and the horizontal extent of the contamination was not yet defined. Giles Engineering Associates was subcontracted to install two (2) additional monitoring wells (MW8 and MW9) on February 14, 2013. These wells were sampled on February 19, 2013 with analytical results revealing that the horizontal extent of the contamination was not yet defined. Figure 3c provides an updated groundwater flow map with the location of all nine (9) monitoring wells depicted. Groundwater elevation data was collected prior to sampling and is summarized on Table 3 and groundwater analytical results from the monitoring wells are summarized on Tables 4a-4i.

CONCLUSIONS AND RECOMMENDATIONS

Based on the latest groundwater analytical results, the down gradient extent of groundwater contamination needs further definition. Installation of additional monitoring wells will be necessary to completely define the extent of the contamination. Additional down gradient wells would need to be installed on the adjoining property, owned by Phillips Medisize. As of March 13, 2013, Phillips Medisize has remained resistant to the installation of monitoring wells on their property and permission has not been acquired.

Upon your review please contact me to discuss what has been presented in this update. Please contact our office at (715) 675-9784 or electronically at ascheunemann@REIengineering.com to further discuss.

Sincerely,
REI Engineering, Inc.



Adam T. Scheunemann
Environmental Scientist

Attachments

- Table 3 – Groundwater Elevation Summary
- Table 4a-4i – Groundwater Analytical Results Summaries
- Figure 3c – Groundwater Contour Map (3/5/2013)
- Attachment A – Laboratory Analytical Reports

TABLE 3
GROUNDWATER ELEVATION SUMMARY
Phillips Plating, North Lake Avenue, Phillips, WI

Well	MW1	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9
TOC Elevation	1459.82	1457.24	1461.33	1459.19	1457.51	1458.16	1453.30	1457.92	1455.91
Ground Elevation	1460.22	1457.58	1461.59	1459.52	1457.99	1458.67	1454.02	1458.23	1456.33
Top of Screen Elevation	1445.92	1442.94	1446.85	1444.85	1443.86	1448.49	1443.76	1447.86	1445.85
Well Depth	23.90	24.30	24.48	24.34	23.65	19.67	19.54	20.06	20.06
Depth to Water (from TOC)									
12/12/2012	12.76	12.58	15.43	13.79	15.70	NI	NI	NI	NI
1/3/2013	13.06	12.83	15.74	14.02	15.77	16.76	15.04	NI	NI
2/6/2013	13.49	13.24	16.08	14.19	15.84	16.85	15.19	NI	NI
2/19/2013	NC	9.78	17.39						
3/5/2013	13.76	13.50	16.33	14.46	15.74	16.76	15.12	9.78	17.37
Water Elevation									
12/12/2012	1447.06	1444.66	1445.9	1445.4	1441.81	NI	NI	NI	NI
1/3/2013	1446.76	1444.41	1445.59	1445.17	1441.74	1441.40	1438.26	NI	NI
2/6/2013	1446.33	1444.00	1445.25	1445.00	1441.67	1441.31	1438.11	NI	NI
2/19/2013	NC	1448.45	1438.94						
3/5/2013	1446.06	1443.74	1445.00	1444.73	1441.77	1441.40	1438.18	1448.14	1438.54
Average Depth to Water (from Top of Casing)	13.27	13.04	15.90	14.12	15.76	16.79	15.12	9.78	17.38
Average Elevation of Water (at Groundwater Surface)	1446.55	1444.20	1445.44	1445.08	1441.75	1441.37	1438.18	1448.30	1438.74
Minimum Depth to Water (from Top of casing)	12.76	12.58	15.43	13.79	15.70	16.76	15.04	9.78	17.37

All well elevations referenced to an on site benchmark with an assumed elevation of 1460.00

NI = Not Installed

NC = Not Collected

TABLE 4a
GROUNDWATER ANALYTICAL RESULTS SUMMARY
Phillips Plating, North Lake Avenue, Phillips, WI

PARAMETER	MW-1			
	ES	PAL	12/11/2012	3/5/2013
Metals (ug/L)				
Arsenic	10	1	<0.50	<4.4
Barium	2000	400	280	230
Cadmium	5	0.5	<0.10	<i>0.91J</i>
Total Chromium	100	10	2	<1.2
Lead	15	1.5	<0.10	1.5J
Mercury	2	0.2	<0.025	<0.10
Nickel	100	20	5.5	<i>7.7J</i>
Selenium	50	10	<2.0	<6.6
Silver	50	10	<0.13	<1.4
Chromium, Hexavalent (mg/L)			<0.0017	<0.0034

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
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<i>Italic</i>	= Exceeds Preventative Action Limit
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NA - Not Analyzed

< - Concentration less than listed detection limit

TABLE 4b
GROUNDWATER ANALYTICAL RESULTS SUMMARY
Phillips Plating, North Lake Avenue, Phillips, WI

PARAMETER	MW-2			
	ES	PAL	12/11/2012	3/5/2013
Metals (ug/L)				
Arsenic	10	1	<0.50	<4.4
Barium	2000	400	180	190
Cadmium	5	0.5	<0.10	0.40J
Total Chromium	100	10	1.4	<1.2
Lead	15	1.5	<0.10	1.3J
Mercury	2	0.2	<0.025	<0.10
Nickel	100	20	9.0	4.5J
Selenium	50	10	<2.0	<6.6
Silver	50	10	<0.13	<1.4
Chromium, Hexavalent (mg/L)			<0.0017	<0.0034

PAL = Preventive Action Limit

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NA - Not Analyzed

< - Concentration less than listed detection limit

TABLE 4c
GROUNDWATER ANALYTICAL RESULTS SUMMARY
Phillips Plating, North Lake Avenue, Phillips, WI

MW-3

PARAMETER	ES	PAL	12/11/2012	3/5/2013
Metals (ug/L)				
Arsenic	10	1	<0.50	<4.4
Barium	2000	400	25	57.2
Cadmium	5	0.5	<0.10	<0.38
Total Chromium	100	10	2.2	<1.2
Lead	15	1.5	<0.10	2.2J
Mercury	2	0.2	<0.025	<0.10
Nickel	100	20	1.4	1.5J
Selenium	50	10	<2.0	<6.6
Silver	50	10	<0.13	<1.4
Chromium, Hexavalent (mg/L)			<0.0017	<0.0034

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
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NA - Not Analyzed

< - Concentration less than listed detection limit

TABLE 4d
GROUNDWATER ANALYTICAL RESULTS SUMMARY
Phillips Plating, North Lake Avenue, Phillips, WI

PARAMETER	MW-4			
	ES	PAL	12/11/2012	3/5/2013
Metals (ug/L)				
Arsenic	10	1	<0.50	<4.4
Barium	2000	400	45	29.2
Cadmium	5	0.5	<0.10	<0.38
Total Chromium	100	10	3.4	1.5J
Lead	15	1.5	<0.10	<1.2
Mercury	2	0.2	<0.025	<0.10
Nickel	100	20	6.8	3.5J
Selenium	50	10	<2.0	<6.6
Silver	50	10	<0.13	<1.4
Chromium, Hexavalent (mg/L)			<0.0017	<0.0034

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
<i>Italic</i>	= Exceeds Preventative Action Limit

NA - Not Analyzed

< - Concentration less than listed detection limit

TABLE 4e
GROUNDWATER ANALYTICAL RESULTS SUMMARY
Phillips Plating, North Lake Avenue, Phillips, WI

PARAMETER	ES	PAL	MW-5		
			12/11/2012	1/3/2013	3/5/2013
Metals (ug/L)					
Arsenic	10	1	<0.50	<4.7	<4.4
Barium	2000	400	110	138	686
Cadmium	5	0.5	<0.10	<0.39	1.8J
Total Chromium	100	10	430	414	359
Lead	15	1.5	<0.10	<1.4	2.5J
Mercury	2	0.2	<0.025	<0.10	<0.10
Nickel	100	20	440	787	6230
Selenium	50	10	<2.0	<5.8	<6.6
Silver	50	10	<0.13	<2.3	<1.4
Chromium, Hexavalent (mg/L)			0.59	0.46	0.33

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
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<i>Italic</i>	= Exceeds Preventative Action Limit
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NA - Not Analyzed

< - Concentration less than listed detection limit

TABLE 4f
GROUNDWATER ANALYTICAL RESULTS SUMMARY
Phillips Plating, North Lake Avenue, Phillips, WI

PARAMETER	ES	PAL	MW-6	
			1/3/2013	3/5/2013
Metals (ug/L)				
Arsenic	10	1	<4.7	<4.4
Barium	2000	400	225	112
Cadmium	5	0.5	<i>1.6J</i>	<i>0.87J</i>
Total Chromium	100	10	323	146
Lead	15	1.5	<i>2.5J</i>	<i>2.2J</i>
Mercury	2	0.2	0.28	0.23
Nickel	100	20	14100	9820
Selenium	50	10	<5.8	<6.6
Silver	50	10	<2.3	<1.4
Chromium, Hexavalent (mg/L)			0.14	0.14

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
<i>Italic</i>	= Exceeds Preventative Action Limit

NA - Not Analyzed

< - Concentration less than listed detection limit

TABLE 4g
GROUNDWATER ANALYTICAL RESULTS SUMMARY
Phillips Plating, North Lake Avenue, Phillips, WI

PARAMETER	ES	PAL	MW-7	
			1/3/2013	3/5/2013
Metals (ug/L)				
Arsenic	10	1	<4.7	<4.4
Barium	2000	400	841	661
Cadmium	5	0.5	<0.39	0.58J
Total Chromium	100	10	<2.4	<1.2
Lead	15	1.5	<1.4	<1.2
Mercury	2	0.2	<0.10	<0.10
Nickel	100	20	6.1J	4.3J
Selenium	50	10	<5.8	<6.6
Silver	50	10	<2.3	2.0J
Chromium, Hexavalent (mg/L)			<0.0039	<0.0034

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
<i>Italic</i>	= Exceeds Preventative Action Limit

NA - Not Analyzed

< - Concentration less than listed detection limit

TABLE 4h
GROUNDWATER ANALYTICAL RESULTS SUMMARY
Phillips Plating, North Lake Avenue, Phillips, WI

PARAMETER	ES	PAL	2/19/2013	3/5/2013
Metals (ug/L)				
Arsenic	10	1	<4.4	<4.4
Barium	2000	400	50.5	39.5
Cadmium	5	0.5	<0.38	<0.38
Total Chromium	100	10	537	507
Lead	15	1.5	<1.2	1.5J
Mercury	2	0.2	<0.10	<0.10
Nickel	100	20	278	546
Selenium	50	10	<6.6	<6.6
Silver	50	10	<1.4	<1.4
Chromium, Hexavalent (mg/L)			0.53	0.46

PAL = Preventive Action Limit

ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
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<i>Italic</i>	= Exceeds Preventative Action Limit
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NA - Not Analyzed

< - Concentration less than listed detection limit

TABLE 4i
GROUNDWATER ANALYTICAL RESULTS SUMMARY
Phillips Plating, North Lake Avenue, Phillips, WI

PARAMETER	ES	PAL	2/19/2013	3/5/2013
Metals (ug/L)				
Arsenic	10	1	<i><4.4</i>	<i><4.4</i>
Barium	2000	400	214	150
Cadmium	5	0.5	<i>0.63J</i>	15.0
Total Chromium	100	10	2,160	862
Lead	15	1.5	<i>3.1J</i>	<i>4.8J</i>
Mercury	2	0.2	<i><0.10</i>	<i><0.10</i>
Nickel	100	20	<i>65.8</i>	17.8
Selenium	50	10	<i><6.6</i>	<i><6.6</i>
Silver	50	10	<i><1.4</i>	<i><1.4</i>
Chromium, Hexavalent (mg/L)			2.3	0.85

PAL = Preventive Action Limit

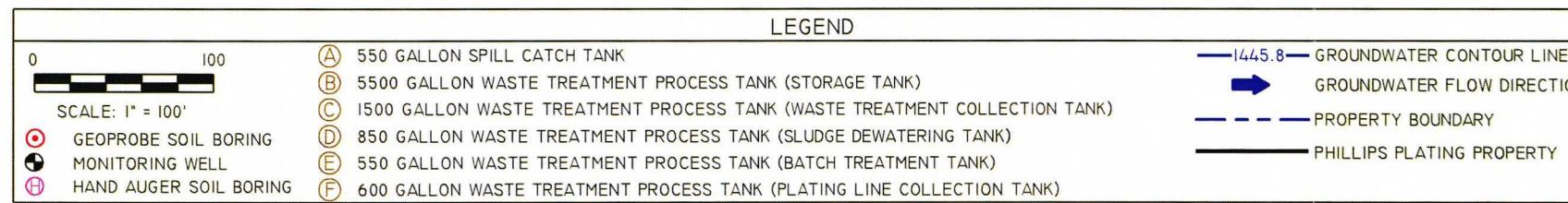
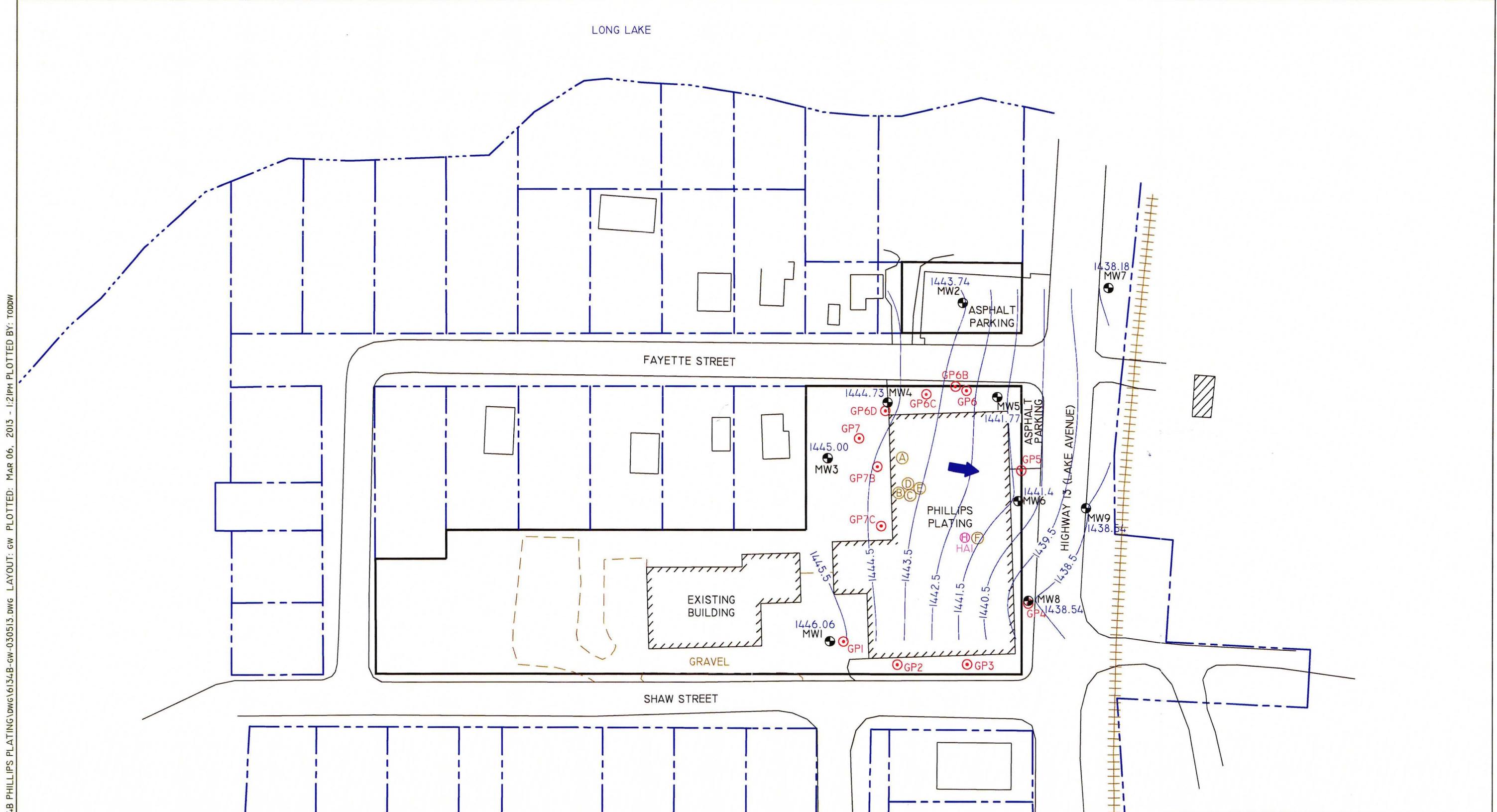
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
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<i>Italic</i>	= Exceeds Preventative Action Limit
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NA - Not Analyzed

< - Concentration less than listed detection limit



PHILLIPS PLATING CORP.
984 N LAKE AVENUE
PHILLIPS, WISCONSIN
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

FIGURE 3c : GROUNDWATER CONTOUR MAP (03/05/2013)

PROJECT No.	DRAWN BY:	DATE:
6134B	TAW	3/6/2013

February 26, 2013

Adam Scheunemann
REI
4680 N 20th Ave
Wausau, WI 54401

RE: Project: Phillips Plating Corp 6134B
Pace Project No.: 4074148

Dear Adam Scheunemann:

Enclosed are the analytical results for sample(s) received by the laboratory on February 20, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

Page 1 of 10

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CERTIFICATIONS

Project: Phillips Plating Corp 6134B
Pace Project No.: 4074148

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334

New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Page 2 of 10

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SAMPLE SUMMARY

Project: Phillips Plating Corp 6134B

Pace Project No.: 4074148

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4074148001	MW8	Water	02/19/13 13:00	02/20/13 11:24
4074148002	MW9	Water	02/19/13 12:30	02/20/13 11:24

REPORT OF LABORATORY ANALYSIS

Page 3 of 10

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SAMPLE ANALYTE COUNT

Project: Phillips Plating Corp 6134B
 Pace Project No.: 4074148

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4074148001	MW8	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1
4074148002	MW9	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1

REPORT OF LABORATORY ANALYSIS

Page 4 of 10

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ANALYTICAL RESULTS

Project: Phillips Plating Corp 6134B

Pace Project No.: 4074148

Sample: MW8 Lab ID: 4074148001 Collected: 02/19/13 13:00 Received: 02/20/13 11:24 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		02/26/13 09:34	7440-38-2	
Barium, Dissolved	50.5 ug/L		5.0	1.1	1		02/26/13 09:34	7440-39-3	
Cadmium, Dissolved	<0.38 ug/L		5.0	0.38	1		02/26/13 09:34	7440-43-9	
Chromium, Dissolved	537 ug/L		5.0	1.2	1		02/26/13 09:34	7440-47-3	
Lead, Dissolved	<1.2 ug/L		7.5	1.2	1		02/26/13 09:34	7439-92-1	
Nickel, Dissolved	278 ug/L		10.0	0.75	1		02/26/13 09:34	7440-02-0	
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		02/26/13 09:34	7782-49-2	
Silver, Dissolved	<1.4 ug/L		10.0	1.4	1		02/26/13 09:34	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	<0.10 ug/L		0.20	0.10	1	02/25/13 11:05	02/25/13 17:03	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	0.53 mg/L		0.10	0.017	5		02/20/13 11:40	18540-29-9	M0

Sample: MW9 Lab ID: 4074148002 Collected: 02/19/13 12:30 Received: 02/20/13 11:24 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		02/26/13 09:36	7440-38-2	
Barium, Dissolved	214 ug/L		5.0	1.1	1		02/26/13 09:36	7440-39-3	
Cadmium, Dissolved	0.63J ug/L		5.0	0.38	1		02/26/13 09:36	7440-43-9	
Chromium, Dissolved	2160 ug/L		5.0	1.2	1		02/26/13 09:36	7440-47-3	
Lead, Dissolved	3.1J ug/L		7.5	1.2	1		02/26/13 09:36	7439-92-1	
Nickel, Dissolved	65.8 ug/L		10.0	0.75	1		02/26/13 09:36	7440-02-0	
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		02/26/13 09:36	7782-49-2	
Silver, Dissolved	<1.4 ug/L		10.0	1.4	1		02/26/13 09:36	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	<0.10 ug/L		0.20	0.10	1	02/25/13 11:05	02/25/13 17:13	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	2.3 mg/L		0.10	0.017	5		02/20/13 11:40	18540-29-9	

QUALITY CONTROL DATA

Project: Phillips Plating Corp 6134B

Pace Project No.: 4074148

QC Batch:	ICP/7175	Analysis Method:	EPA 6010
QC Batch Method:	EPA 6010	Analysis Description:	ICP Metals, Trace, Dissolved
Associated Lab Samples: 4074148001, 4074148002			

METHOD BLANK: 752816 Matrix: Water

Associated Lab Samples: 4074148001, 4074148002

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Arsenic, Dissolved	ug/L	<4.4	20.0	02/22/13 13:04	
Barium, Dissolved	ug/L	<1.1	5.0	02/22/13 13:04	
Cadmium, Dissolved	ug/L	<0.38	5.0	02/22/13 13:04	
Chromium, Dissolved	ug/L	<1.2	5.0	02/22/13 13:04	
Lead, Dissolved	ug/L	<1.2	7.5	02/22/13 13:04	
Nickel, Dissolved	ug/L	<0.75	10.0	02/22/13 13:04	
Selenium, Dissolved	ug/L	<6.6	20.0	02/22/13 13:04	
Silver, Dissolved	ug/L	<1.4	10.0	02/22/13 13:04	

LABORATORY CONTROL SAMPLE: 752817

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Arsenic, Dissolved	ug/L	500	444	89	80-120	
Barium, Dissolved	ug/L	500	446	89	80-120	
Cadmium, Dissolved	ug/L	500	452	90	80-120	
Chromium, Dissolved	ug/L	500	467	93	80-120	
Lead, Dissolved	ug/L	500	463	93	80-120	
Nickel, Dissolved	ug/L	500	465	93	80-120	
Selenium, Dissolved	ug/L	500	445	89	80-120	
Silver, Dissolved	ug/L	250	224	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 752818 752819

Parameter	Units	MS		MSD		MS	MSD	% Rec	% Rec	Max		
		4073818011	Spike	Spike	MSD					RPD	RPD	Qual
Arsenic, Dissolved	ug/L	<100	2500	2500	2490	2530	99	101	75-125	2	20	
Barium, Dissolved	ug/L	795	1000	1000	1620	1650	83	86	75-125	2	20	
Cadmium, Dissolved	ug/L	<10.0	1000	1000	909	921	91	92	75-125	1	20	
Chromium, Dissolved	ug/L	<10.0	1000	1000	900	922	90	92	75-125	2	20	
Lead, Dissolved	ug/L	<15.0	1000	1000	913	925	91	92	75-125	1	20	
Nickel, Dissolved	ug/L	<20.0	1000	1000	922	937	92	93	75-125	2	20	
Selenium, Dissolved	ug/L	<40.0	1000	1000	898	943	90	94	75-125	5	20	
Silver, Dissolved	ug/L	<20.0	500	500	451	457	90	91	75-125	1	20	

QUALITY CONTROL DATA

Project: Phillips Plating Corp 6134B

Pace Project No.: 4074148

QC Batch:	MERP/3523	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury Dissolved
Associated Lab Samples:	4074148001, 4074148002		

METHOD BLANK: 753560 Matrix: Water

Associated Lab Samples: 4074148001, 4074148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.10	0.20	02/25/13 16:59	

METHOD BLANK: 753566 Matrix: Water

Associated Lab Samples: 4074148001, 4074148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.10	0.20	02/25/13 17:35	1q

LABORATORY CONTROL SAMPLE: 753561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 753562 753563

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.10	5	5	4.9	4.9	98	98	85-115	0	20

QUALITY CONTROL DATA

Project: Phillips Plating Corp 6134B

Pace Project No.: 4074148

QC Batch:	WETA/16371	Analysis Method:	SM 3500-Cr B (Online)
QC Batch Method:	SM 3500-Cr B (Online)	Analysis Description:	Chromium, Hexavalent by 3500
Associated Lab Samples: 4074148001, 4074148002			

METHOD BLANK: 752008 Matrix: Water

Associated Lab Samples: 4074148001, 4074148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0034	0.020	02/20/13 11:40	

LABORATORY CONTROL SAMPLE: 752009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.32	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 752010 752011

Parameter	Units	4074148001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Chromium, Hexavalent	mg/L	0.53	1.5	1.5	2.6	2.4	139	127	90-110	7	20	M0

QUALIFIERS

Project: Phillips Plating Corp 6134B

Pace Project No.: 4074148

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

1q FILTER BLANK FOR SAMPLE 4074216038.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Phillips Plating Corp 6134B
 Pace Project No.: 4074148

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4074148001	MW8	EPA 6010	ICP/7175		
4074148002	MW9	EPA 6010	ICP/7175		
4074148001	MW8	EPA 7470	MERP/3523	EPA 7470	MERC/4298
4074148002	MW9	EPA 7470	MERP/3523	EPA 7470	MERC/4298
4074148001	MW8	SM 3500-Cr B (Online)	WETA/16371		
4074148002	MW9	SM 3500-Cr B (Online)	WETA/16371		

(Please Print Clearly)

Company Name:	RLT Engineering
Branch/Location:	Wausau
Project Contact:	Adam Schenemann
Phone:	715 675 9784
Project Number:	613413
Project Name:	Phillips Plating Corp.
Project State:	WI
Sampled By (Print):	Jared Scens
Sampled By (Sign):	Jared Scens
PO #:	
Data Package Options (billable)	
<input type="checkbox"/> EPA Level III	<input type="checkbox"/> On your sample (billable)
<input type="checkbox"/> EPA Level IV	<input type="checkbox"/> NOT needed on your sample
MS/MSD	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
SL = Sludge	WP = Wipe

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

Page 1 of

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

Y

Y

Y

Pick
Letter

D

D

A

Analyses Requested

RCRA Metals

UJ

Hex Chrome

Regulatory
Program:

Quote #:			
Mail To Contact:	Adam Schenemann		
Mail To Company:	RLT Engineering		
Mail To Address:	4080 N 20th Ave Wausau WI 54401		
Invoice To Contact:	Adam Schenemann		
Invoice To Company:	RLT Engineering		
Invoice To Address:	SKA		
Invoice To Phone:	715-675-9784		
CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #	
	3-250ml p ADD		
	↓		
Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: 2/25/13	Relinquished By: <i>Jared Scens RLT 2/19/13 2 pm</i>	Date/Time: 2-20-13 11:24:46	PACE Project No. 4074148
Transmit Prelim Rush Results by (complete what you want):	Relinquished By:	Date/Time:	Receipt Temp = ROT °C
Email #1:	Relinquished By:	Received By:	Sample Receipt pH
Email #2:	Relinquished By:	Date/Time:	OK / Adjusted
Telephone:	Relinquished By:	Received By:	Cooler Custody Seal
Fax:	Relinquished By:	Date/Time:	Present / Not Present
Samples on HOLD are subject to special pricing and release of liability	Relinquished By:	Received By:	Intact / Not Intact

Rush Turnaround Time Requested - Prelims

(Rush TAT subject to approval/surcharge)

Date Needed: 2/25/13

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



Sample Condition Upon Receipt

Client Name: REI

Project # 4074148

Courier: FedEx UPS USPS Client Commercial 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 _____

Optional

Proj. Due Date:

Proj. Name:

Thermometer Used: NA

Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun.

Cooler Temperature: 20°

Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Comments: _____

Person examining contents:

Date: 2/20/13

Initials: CHG

Temp should be above freezing to 6°C for all sample except Biota.

Biota Samples should be received ≤ 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.
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>2/25/13</u> <u>NET 2/20/13</u>
Sufficient Volume: <u>2/20/13</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. Unpreserved bottles received 100ml in CVA 2/20/13
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	
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>N</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>pH ≤ 2 days 2/20/13</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed <u>2/20/13</u> Lot # of added preservative _____
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
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:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BB

Date: 2-20-13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

March 08, 2013

Adam Scheunemann
REI
4680 N 20th Ave
Wausau, WI 54401

RE: Project: 6134B PHILLIPS PLATING
Pace Project No.: 4074595

Dear Adam Scheunemann:

Enclosed are the analytical results for sample(s) received by the laboratory on March 06, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Steven Mleczko for
Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6134B PHILLIPS PLATING
Pace Project No.: 4074595

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334

New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Page 2 of 14

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SAMPLE SUMMARY

Project: 6134B PHILLIPS PLATING
 Pace Project No.: 4074595

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4074595001	MW1	Water	03/05/13 12:00	03/06/13 08:15
4074595002	MW2	Water	03/05/13 12:30	03/06/13 08:15
4074595003	MW3	Water	03/05/13 12:15	03/06/13 08:15
4074595004	MW4	Water	03/05/13 13:00	03/06/13 08:15
4074595005	MW5	Water	03/05/13 13:15	03/06/13 08:15
4074595006	MW6	Water	03/05/13 13:30	03/06/13 08:15
4074595007	MW7	Water	03/05/13 12:45	03/06/13 08:15
4074595008	MW8	Water	03/05/13 13:45	03/06/13 08:15
4074595009	MW9	Water	03/05/13 14:00	03/06/13 08:15

REPORT OF LABORATORY ANALYSIS

Page 3 of 14

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SAMPLE ANALYTE COUNT

Project: 6134B PHILLIPS PLATING
 Pace Project No.: 4074595

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4074595001	MW1	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1
4074595002	MW2	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1
4074595003	MW3	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1
4074595004	MW4	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1
4074595005	MW5	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1
4074595006	MW6	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1
4074595007	MW7	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1
4074595008	MW8	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1
4074595009	MW9	EPA 6010	DLB	8
		EPA 7470	CMS	1
		SM 3500-Cr B (Online)	DEY	1

REPORT OF LABORATORY ANALYSIS

Page 4 of 14

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ANALYTICAL RESULTS

Project: 6134B PHILLIPS PLATING
Pace Project No.: 4074595

Sample: MW1	Lab ID: 4074595001	Collected: 03/05/13 12:00	Received: 03/06/13 08:15	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		03/06/13 12:38	7440-38-2	
Barium, Dissolved	230 ug/L		5.0	1.1	1		03/06/13 12:38	7440-39-3	
Cadmium, Dissolved	0.91J ug/L		5.0	0.38	1		03/06/13 12:38	7440-43-9	
Chromium, Dissolved	<1.2 ug/L		5.0	1.2	1		03/06/13 12:38	7440-47-3	
Lead, Dissolved	1.5J ug/L		7.5	1.2	1		03/06/13 12:38	7439-92-1	
Nickel, Dissolved	7.7J ug/L		10.0	0.75	1		03/06/13 12:38	7440-02-0	
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		03/06/13 12:38	7782-49-2	
Silver, Dissolved	<1.4 ug/L		10.0	1.4	1		03/06/13 12:38	7440-22-4	M0,R1
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	<0.10 ug/L		0.20	0.10	1	03/06/13 19:10	03/07/13 10:47	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	<0.0034 mg/L		0.020	0.0034	1		03/06/13 10:15	18540-29-9	
Sample: MW2	Lab ID: 4074595002	Collected: 03/05/13 12:30	Received: 03/06/13 08:15	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		03/06/13 12:44	7440-38-2	
Barium, Dissolved	190 ug/L		5.0	1.1	1		03/06/13 12:44	7440-39-3	
Cadmium, Dissolved	0.40J ug/L		5.0	0.38	1		03/06/13 12:44	7440-43-9	
Chromium, Dissolved	<1.2 ug/L		5.0	1.2	1		03/06/13 12:44	7440-47-3	
Lead, Dissolved	1.3J ug/L		7.5	1.2	1		03/06/13 12:44	7439-92-1	
Nickel, Dissolved	4.5J ug/L		10.0	0.75	1		03/06/13 12:44	7440-02-0	
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		03/06/13 12:44	7782-49-2	
Silver, Dissolved	<1.4 ug/L		10.0	1.4	1		03/06/13 12:44	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	<0.10 ug/L		0.20	0.10	1	03/06/13 19:10	03/07/13 10:53	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	<0.0034 mg/L		0.020	0.0034	1		03/06/13 10:15	18540-29-9	
Sample: MW3	Lab ID: 4074595003	Collected: 03/05/13 12:15	Received: 03/06/13 08:15	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		03/06/13 12:46	7440-38-2	
Barium, Dissolved	57.2 ug/L		5.0	1.1	1		03/06/13 12:46	7440-39-3	

Date: 03/08/2013 12:04 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 14

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ANALYTICAL RESULTS

Project: 6134B PHILLIPS PLATING

Pace Project No.: 4074595

Sample: MW3 Lab ID: 4074595003 Collected: 03/05/13 12:15 Received: 03/06/13 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	<0.38 ug/L		5.0	0.38	1		03/06/13 12:46	7440-43-9	
Chromium, Dissolved	<1.2 ug/L		5.0	1.2	1		03/06/13 12:46	7440-47-3	
Lead, Dissolved	2.2J ug/L		7.5	1.2	1		03/06/13 12:46	7439-92-1	
Nickel, Dissolved	1.5J ug/L		10.0	0.75	1		03/06/13 12:46	7440-02-0	
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		03/06/13 12:46	7782-49-2	
Silver, Dissolved	<1.4 ug/L		10.0	1.4	1		03/06/13 12:46	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	<0.10 ug/L		0.20	0.10	1	03/06/13 19:10	03/07/13 11:00	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	<0.0034 mg/L		0.020	0.0034	1		03/06/13 10:15	18540-29-9	

Sample: MW4 Lab ID: 4074595004 Collected: 03/05/13 13:00 Received: 03/06/13 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		03/06/13 12:49	7440-38-2	
Barium, Dissolved	29.2 ug/L		5.0	1.1	1		03/06/13 12:49	7440-39-3	
Cadmium, Dissolved	<0.38 ug/L		5.0	0.38	1		03/06/13 12:49	7440-43-9	
Chromium, Dissolved	1.5J ug/L		5.0	1.2	1		03/06/13 12:49	7440-47-3	
Lead, Dissolved	<1.2 ug/L		7.5	1.2	1		03/06/13 12:49	7439-92-1	
Nickel, Dissolved	3.5J ug/L		10.0	0.75	1		03/06/13 12:49	7440-02-0	
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		03/06/13 12:49	7782-49-2	
Silver, Dissolved	<1.4 ug/L		10.0	1.4	1		03/06/13 12:49	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	<0.10 ug/L		0.20	0.10	1	03/06/13 19:10	03/07/13 11:02	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	<0.0034 mg/L		0.020	0.0034	1		03/06/13 10:15	18540-29-9	

Sample: MW5 Lab ID: 4074595005 Collected: 03/05/13 13:15 Received: 03/06/13 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		03/06/13 12:51	7440-38-2	
Barium, Dissolved	686 ug/L		5.0	1.1	1		03/06/13 12:51	7440-39-3	
Cadmium, Dissolved	1.8J ug/L		5.0	0.38	1		03/06/13 12:51	7440-43-9	
Chromium, Dissolved	359 ug/L		5.0	1.2	1		03/06/13 12:51	7440-47-3	

Date: 03/08/2013 12:04 PM

REPORT OF LABORATORY ANALYSIS

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Page 6 of 14

ANALYTICAL RESULTS

Project: 6134B PHILLIPS PLATING

Pace Project No.: 4074595

Sample: MW5	Lab ID: 4074595005	Collected: 03/05/13 13:15	Received: 03/06/13 08:15	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Lead, Dissolved	2.5J ug/L		7.5	1.2	1		03/06/13 12:51	7439-92-1	
Nickel, Dissolved	6230 ug/L		10.0	0.75	1		03/06/13 12:51	7440-02-0	
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		03/06/13 12:51	7782-49-2	
Silver, Dissolved	<1.4 ug/L		10.0	1.4	1		03/06/13 12:51	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	<0.10 ug/L		0.20	0.10	1	03/06/13 19:10	03/07/13 11:04	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	0.33 mg/L		0.020	0.0034	1		03/06/13 10:15	18540-29-9	
Sample: MW6	Lab ID: 4074595006	Collected: 03/05/13 13:30	Received: 03/06/13 08:15	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		03/06/13 12:53	7440-38-2	
Barium, Dissolved	112 ug/L		5.0	1.1	1		03/06/13 12:53	7440-39-3	
Cadmium, Dissolved	0.87J ug/L		5.0	0.38	1		03/06/13 12:53	7440-43-9	
Chromium, Dissolved	146 ug/L		5.0	1.2	1		03/06/13 12:53	7440-47-3	
Lead, Dissolved	2.2J ug/L		7.5	1.2	1		03/06/13 12:53	7439-92-1	
Nickel, Dissolved	9820 ug/L		10.0	0.75	1		03/06/13 12:53	7440-02-0	
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		03/06/13 12:53	7782-49-2	
Silver, Dissolved	<1.4 ug/L		10.0	1.4	1		03/06/13 12:53	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	0.23 ug/L		0.20	0.10	1	03/06/13 19:10	03/07/13 11:06	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	0.14 mg/L		0.020	0.0034	1		03/06/13 10:15	18540-29-9	
Sample: MW7	Lab ID: 4074595007	Collected: 03/05/13 12:45	Received: 03/06/13 08:15	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		03/06/13 13:00	7440-38-2	
Barium, Dissolved	661 ug/L		5.0	1.1	1		03/06/13 13:00	7440-39-3	
Cadmium, Dissolved	0.58J ug/L		5.0	0.38	1		03/06/13 13:00	7440-43-9	
Chromium, Dissolved	<1.2 ug/L		5.0	1.2	1		03/06/13 13:00	7440-47-3	
Lead, Dissolved	<1.2 ug/L		7.5	1.2	1		03/06/13 13:00	7439-92-1	
Nickel, Dissolved	4.3J ug/L		10.0	0.75	1		03/06/13 13:00	7440-02-0	

Date: 03/08/2013 12:04 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 14

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ANALYTICAL RESULTS

Project: 6134B PHILLIPS PLATING

Pace Project No.: 4074595

Sample: MW7 Lab ID: 4074595007 Collected: 03/05/13 12:45 Received: 03/06/13 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		03/06/13 13:00	7782-49-2	
Silver, Dissolved	2.0J ug/L		10.0	1.4	1		03/06/13 13:00	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	<0.10 ug/L		0.20	0.10	1	03/06/13 19:10	03/07/13 11:08	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	<0.0034 mg/L		0.020	0.0034	1		03/06/13 10:15	18540-29-9	

Sample: MW8 Lab ID: 4074595008 Collected: 03/05/13 13:45 Received: 03/06/13 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		03/06/13 13:02	7440-38-2	
Barium, Dissolved	39.5 ug/L		5.0	1.1	1		03/06/13 13:02	7440-39-3	
Cadmium, Dissolved	<0.38 ug/L		5.0	0.38	1		03/06/13 13:02	7440-43-9	
Chromium, Dissolved	507 ug/L		5.0	1.2	1		03/06/13 13:02	7440-47-3	
Lead, Dissolved	1.5J ug/L		7.5	1.2	1		03/06/13 13:02	7439-92-1	
Nickel, Dissolved	546 ug/L		10.0	0.75	1		03/06/13 13:02	7440-02-0	
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		03/06/13 13:02	7782-49-2	
Silver, Dissolved	<1.4 ug/L		10.0	1.4	1		03/06/13 13:02	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	<0.10 ug/L		0.20	0.10	1	03/06/13 19:10	03/07/13 11:10	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	0.46 mg/L		0.020	0.0034	1		03/06/13 10:15	18540-29-9	

Sample: MW9 Lab ID: 4074595009 Collected: 03/05/13 14:00 Received: 03/06/13 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	<4.4 ug/L		20.0	4.4	1		03/06/13 13:04	7440-38-2	
Barium, Dissolved	150 ug/L		5.0	1.1	1		03/06/13 13:04	7440-39-3	
Cadmium, Dissolved	15.0 ug/L		5.0	0.38	1		03/06/13 13:04	7440-43-9	
Chromium, Dissolved	862 ug/L		5.0	1.2	1		03/06/13 13:04	7440-47-3	
Lead, Dissolved	4.8J ug/L		7.5	1.2	1		03/06/13 13:04	7439-92-1	
Nickel, Dissolved	17.8 ug/L		10.0	0.75	1		03/06/13 13:04	7440-02-0	
Selenium, Dissolved	<6.6 ug/L		20.0	6.6	1		03/06/13 13:04	7782-49-2	
Silver, Dissolved	<1.4 ug/L		10.0	1.4	1		03/06/13 13:04	7440-22-4	

Date: 03/08/2013 12:04 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 14

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ANALYTICAL RESULTS

Project: 6134B PHILLIPS PLATING

Pace Project No.: 4074595

Sample: MW9	Lab ID: 4074595009	Collected: 03/05/13 14:00	Received: 03/06/13 08:15	Matrix: Water
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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	<0.10	ug/L	0.20	0.10	1	03/06/13 19:10	03/07/13 11:12	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	0.85	mg/L	0.050	0.0086	2.5		03/06/13 10:15	18540-29-9	

QUALITY CONTROL DATA

Project: 6134B PHILLIPS PLATING

Pace Project No.: 4074595

QC Batch:	ICP/7219	Analysis Method:	EPA 6010
QC Batch Method:	EPA 6010	Analysis Description:	ICP Metals, Trace, Dissolved
Associated Lab Samples:	4074595001, 4074595002, 4074595003, 4074595004, 4074595005, 4074595006, 4074595007, 4074595008, 4074595009		

METHOD BLANK: 756992 Matrix: Water

Associated Lab Samples: 4074595001, 4074595002, 4074595003, 4074595004, 4074595005, 4074595006, 4074595007, 4074595008,
4074595009

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Arsenic, Dissolved	ug/L	<4.4	20.0	03/06/13 12:34	
Barium, Dissolved	ug/L	<1.1	5.0	03/06/13 12:34	
Cadmium, Dissolved	ug/L	<0.38	5.0	03/06/13 12:34	
Chromium, Dissolved	ug/L	<1.2	5.0	03/06/13 12:34	
Lead, Dissolved	ug/L	<1.2	7.5	03/06/13 12:34	
Nickel, Dissolved	ug/L	<0.75	10.0	03/06/13 12:34	
Selenium, Dissolved	ug/L	<6.6	20.0	03/06/13 12:34	
Silver, Dissolved	ug/L	<1.4	10.0	03/06/13 12:34	

LABORATORY CONTROL SAMPLE: 756993

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Arsenic, Dissolved	ug/L	500	479	96	80-120	
Barium, Dissolved	ug/L	500	487	97	80-120	
Cadmium, Dissolved	ug/L	500	480	96	80-120	
Chromium, Dissolved	ug/L	500	483	97	80-120	
Lead, Dissolved	ug/L	500	488	98	80-120	
Nickel, Dissolved	ug/L	500	487	97	80-120	
Selenium, Dissolved	ug/L	500	472	94	80-120	
Silver, Dissolved	ug/L	250	237	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 756994 756995

Parameter	Units	4074595001		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result						
Arsenic, Dissolved	ug/L	<4.4	500	500	470	485	94	97	75-125	3	20
Barium, Dissolved	ug/L	230	500	500	705	710	95	96	75-125	1	20
Cadmium, Dissolved	ug/L	0.91J	500	500	482	490	96	98	75-125	2	20
Chromium, Dissolved	ug/L	<1.2	500	500	479	485	96	97	75-125	1	20
Lead, Dissolved	ug/L	1.5J	500	500	474	488	95	97	75-125	3	20
Nickel, Dissolved	ug/L	7.7J	500	500	482	494	95	97	75-125	3	20
Selenium, Dissolved	ug/L	<6.6	500	500	397	415	79	83	75-125	4	20
Silver, Dissolved	ug/L	<1.4	250	250	177	226	71	90	75-125	24	20 M0,R1

QUALITY CONTROL DATA

Project: 6134B PHILLIPS PLATING

Pace Project No.: 4074595

QC Batch: MERP/3547 Analysis Method: EPA 7470

QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved

Associated Lab Samples: 4074595001, 4074595002, 4074595003, 4074595004, 4074595005, 4074595006, 4074595007, 4074595008,
4074595009

METHOD BLANK: 757198 Matrix: Water

Associated Lab Samples: 4074595001, 4074595002, 4074595003, 4074595004, 4074595005, 4074595006, 4074595007, 4074595008,
4074595009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.10	0.20	03/07/13 10:43	

LABORATORY CONTROL SAMPLE: 757199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 757200 757201

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD % Rec	MS % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.10	5	5	5	5.1	5.0	101	99	85-115	2	20

QUALITY CONTROL DATA

Project: 6134B PHILLIPS PLATING

Pace Project No.: 4074595

QC Batch:	WETA/16541	Analysis Method:	SM 3500-Cr B (Online)
QC Batch Method:	SM 3500-Cr B (Online)	Analysis Description:	Chromium, Hexavalent by 3500
Associated Lab Samples:	4074595001, 4074595002, 4074595003, 4074595004, 4074595005, 4074595006, 4074595007, 4074595008, 4074595009		

METHOD BLANK: 757355 Matrix: Water

Associated Lab Samples: 4074595001, 4074595002, 4074595003, 4074595004, 4074595005, 4074595006, 4074595007, 4074595008,
4074595009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0034	0.020	03/06/13 10:15	

LABORATORY CONTROL SAMPLE: 757356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.31	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 757357 757358

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD % Rec	MS % Rec	% Rec Limits	RPD RPD	Max Qual
Chromium, Hexavalent	mg/L	<0.0034	.3	.3	0.30	0.30	100	100	90-110	1 20	

QUALIFIERS

Project: 6134B PHILLIPS PLATING

Pace Project No.: 4074595

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6134B PHILLIPS PLATING

Pace Project No.: 4074595

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4074595001	MW1	EPA 6010	ICP/7219		
4074595002	MW2	EPA 6010	ICP/7219		
4074595003	MW3	EPA 6010	ICP/7219		
4074595004	MW4	EPA 6010	ICP/7219		
4074595005	MW5	EPA 6010	ICP/7219		
4074595006	MW6	EPA 6010	ICP/7219		
4074595007	MW7	EPA 6010	ICP/7219		
4074595008	MW8	EPA 6010	ICP/7219		
4074595009	MW9	EPA 6010	ICP/7219		
4074595001	MW1	EPA 7470	MERP/3547	EPA 7470	MERC/4343
4074595002	MW2	EPA 7470	MERP/3547	EPA 7470	MERC/4343
4074595003	MW3	EPA 7470	MERP/3547	EPA 7470	MERC/4343
4074595004	MW4	EPA 7470	MERP/3547	EPA 7470	MERC/4343
4074595005	MW5	EPA 7470	MERP/3547	EPA 7470	MERC/4343
4074595006	MW6	EPA 7470	MERP/3547	EPA 7470	MERC/4343
4074595007	MW7	EPA 7470	MERP/3547	EPA 7470	MERC/4343
4074595008	MW8	EPA 7470	MERP/3547	EPA 7470	MERC/4343
4074595009	MW9	EPA 7470	MERP/3547	EPA 7470	MERC/4343
4074595001	MW1	SM 3500-Cr B (Online)	WETA/16541		
4074595002	MW2	SM 3500-Cr B (Online)	WETA/16541		
4074595003	MW3	SM 3500-Cr B (Online)	WETA/16541		
4074595004	MW4	SM 3500-Cr B (Online)	WETA/16541		
4074595005	MW5	SM 3500-Cr B (Online)	WETA/16541		
4074595006	MW6	SM 3500-Cr B (Online)	WETA/16541		
4074595007	MW7	SM 3500-Cr B (Online)	WETA/16541		
4074595008	MW8	SM 3500-Cr B (Online)	WETA/16541		
4074595009	MW9	SM 3500-Cr B (Online)	WETA/16541		

(Please Print Clearly)

Company Name:	RLI Engineering	
Branch/Location:	Wausau	
Project Contact:	Adam Schaeemann	
Phone:	715 675 9784	
Project Number:	6134B	
Project Name:	Phillips Platiz	
Project State:	WI	
Sampled By (Print):	Adam Schaeemann	
Sampled By (Sign):		
PO #:	Regulatory Program:	

Data Package Options

(billable)

- EPA Level III
 EPA Level IV

- On your sample (billable)
 NOT needed on your sample

MS/MSD

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

DATE

TIME

MATRIX

001 MW1

3/5/13 12:00 GLW

Analyses Requested

R/R/R/S Metals

N.J.

Hex Chrome

002 MW2

1 12:30

003 MW3

12:15

004 MW4

1:00

005 MW5

1:15

006 MW6

1:30

007 MW7

12:45

008 MW8

1:45

009 MW9

2:00

Quote #:		
Mail To Contact:	Adam Schaeemann	
Mail To Company:	RLI Engineering	
Mail To Address:	4080 N 20th Ave Wausau WI 54401	
Invoice To Contact:	SKA	
Invoice To Company:	SKA	
Invoice To Address:	SKA	
Invoice To Phone:	715 675 9784	
CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: 3/11/13		
Transmit Prelim Rush Results by (complete what you want):		
Email #1:	Relinquished By:	Date/Time:
Email #2:	Relinquished By:	Date/Time:
Telephone:	Relinquished By:	Date/Time:
Fax:	Relinquished By:	Date/Time:
Samples on HOLD are subject to special pricing and release of liability		
Relinquished By: Date/Time: Received By: Date/Time: PACE Project No.		
Relinquished By: Date/Time: Received By: Date/Time: 4074595		
Relinquished By: Date/Time: Received By: Date/Time: Receipt Temp = R01 °C		
Relinquished By: Date/Time: Received By: Date/Time: Sample Receipt pH OK / Adjusted		
Relinquished By: Date/Time: Received By: Date/Time: Cooler Custody Seal Present / Not Present		
Relinquished By: Date/Time: Received By: Date/Time: Intact / Not Intact		

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

Page 1 of



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

Y

D

Y

D

Y

A

4074595



Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: REI Eng.

Project # 4074595

Courier: FedEx UPS USPS Client Commercial Pace Other WATTCO

Tracking #: 311364

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 NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: R0 Biological Tissue is Frozen: yes

Temp Blank Present: yes no no

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Person examining contents:
Date: 3/6/13
Initials: GAT

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. 3/11/13 after 3/16/13		
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. all bottles only have about 50-100mls date 3/6/13		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.		
-Pace Containers Used:	<input 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:	W			
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct		
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lab Std #/ID of preservative	Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.		
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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: _____

Date: 3/6/13