NATURAL
RESOURCE
TECHNOLOGY

ENVIRONMENTAL CONSULTANTS

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Ms. Margaret Gielniewski
USEPA Region 5 – SR-6J
77 W. Jackson Boulevard
Chicago, Illinois 60604-3590

August 14, 2012
(1530)

RE: July 2012 Monthly Progress Report
Manitowoc Former MGP, Manitowoc, Wisconsin
Wisconsin Public Service Corporation

CERCLA Docket No. V-W-06-C-847
Site Spill ID – B5BW
CERCLIS ID – WIN000509949

Dear Ms. Gielniewski:

On behalf of Integrys Business Support, LLC (IBS), Natural Resource Technology, Inc. (NRT) is providing this Monthly Progress Report for Wisconsin Public Service Corporation's (WPSC) Manitowoc Former Manufactured Gas Plant (MGP) Site.

1) Progress Made During the Past Month

- Received USEPA approval of Technical Memorandum No. 3 (Revision 2) on July 12, 2012.
- Completed soil borings, monitoring wells, and soil vapor probes as described in Technical Memorandum No. 3 (Revision 2) during the week of July 30th 2012.
- During supplemental upland RI activities, elevated PID readings and odors suggested groundwater impacts may be present in west of the Winter building. This area was discussed in the Response to USEPA's December 13, 2010 Comments on the Supplemental RI Activities dated January 28th, 2011. USEPA requested a monitoring well in this vicinity (bullet comment number 3 of general comment #1). The IBS response stated: "The need for and location for an additional monitoring well should be evaluated following completion of the additional soil borings discussed under the response to specific comment #6 [i.e. soil borings west of the Winter building]". Because the soil borings west of the Winter building suggest the potential for groundwater impacts, MW23 and SV122 were installed approximately 50 feet west of the soil borings to evaluate groundwater and soil vapor west of the Winter building.

2) Analytical and Other Testing Results Received

- Supplemental RI data will be provided following data validation.
- Received the results of the sample collected between the carbon units on June 2, 2012, which is included in the attached lab report.
- Received the results of the influent and effluent samples collected on June 27, 2012, which are included in the attached lab report. Results indicate treated effluent continues to be below the respective discharge limits.

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3) Projected Work Next Month

IBS Actions

- Perform sampling of the groundwater monitoring wells and collect the first round of soil vapor samples during the week of August 6th 2012.
- Preparation for sediment sampling scheduled to begin the week of August 20th.

USEPA Actions

- None.

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4) Anticipated Schedule

A schedule for site-specific work activities was provided in the SSWP with general milestone dates below.

Deliverable or Milestone	Target Date	Actual Date
SSWP Revision 0	Original date of March 5, 2007, revised to May 15, 2007. Second revised due date of June 5, 2007.	June 5, 2007
Respond to USEPA Completion Report Comments	July 2007	July 25, 2007
Obtain SSWP Revision 0 Comments from USEPA	---	February 11, 2008
Respond to USEPA Comments and submit SSWP Revision 1	March 27, 2008, revised to April 10, 2008	April 10, 2008
USEPA Initially Approved Work Plan Items - bathymetric survey	June 2008	Week of June 9, 2008
Obtain SSWP Revision 1 Comments from USEPA	---	September 29, 2008
Sediment		
Step I Sediment Sampling, sediment poling, surface water sampling	Week of November 3, 2008	Nov. 3-7 and Nov. 13, 2008
Receive all Step I analytical and toxicity testing data	End of December 2008/Beginning of January 2009	January 2009
Step I Data Validation Completion	End of February 2009	February 28, 2009
Step I Data Interpretation/Memo	August 2009	August 19, 2009
Step II RI Activities Pre-Scoping Meeting	---	November 3, 2009
Step II Sediment Work Plan to USEPA	January 2010	December 23, 2009
Obtain Step II Sediment Sampling Comments from USEPA	--	December 3, 2010
Respond to USEPA Comments on Step II Sediment Sampling Work Plan	January 18, 2011	January 18, 2011
Conference call with USEPA on critical issues		September 28, 2011
Received Conditional Approval of the Step II Sediment Work Plan from USEPA		October 25, 2011
Submit Step II Sediment Work Plan (Revision 1)	January 31, 2012	January 31, 2012
Obtain Step II Sediment Sampling Plan (Rev 1) Comments from USEPA	--	February 24, 2012 (draft) March 14, 2012 (formal letter)
Respond to USEPA Comments on Step II Sediment Sampling Work Plan (Rev 1) and Prepare Work Plan (Rev 2)	April 30, 2012	April 30, 2012
Received Approval from USEPA of Step II Sediment Work Plan (Rev 2)		June 6, 2012
Perform Step II Sediment Sampling	August 20, 2012	

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Deliverable or Milestone	Target Date	Actual Date
Upland RI		
Upland RI field work	Scheduled for September 14 through 25, 2009	September 14 through 23, 2009
First Quarterly Round of Groundwater Monitoring	October 2009	October 26 & 27, 2009
RI Upland Soil Data Validation Completion	January 2010	January 4, 2010
RI Upland Groundwater (1st round) Data Validation Completion	February 2010	January 21, 2010
Second Quarterly Round of Groundwater Monitoring	January 26 & 27, 2010	January 26 & 27, 2010
Third Quarterly Round of Groundwater Monitoring	April 2010	April 27 & 28, 2010
RI Upland Groundwater (2nd round) Data Validation Completion	May 2010	May 26, 2010
Submit Technical Memorandum for Supplemental RI Activities to USEPA	July 2010	Submitted on July 16, 2010
Fourth Quarterly Round of Groundwater Monitoring	Late July 2010	July 26 & 27, 2010
Post-RI Semi-Annual Groundwater Monitoring	November 2010	November 2 & 3, 2010
Respond to comments on Technical Memorandum No. 3 for supplemental RI activities	January 28, 2011	January 28, 2011
Post-RI Semi-Annual Groundwater Monitoring	May 2011	May 17 & 18, 2011
Conference call with USEPA on critical issues for Supplemental RI		September 28, 2011
Perform Post-RI Semi-Annual Groundwater Monitoring	November 2011	November 1 & 2, 2011
Received Conditional Approval of the Technical Memorandum No. 3		November 10, 2011
Submit Technical Memorandum No. 3 (Revision 1) for supplemental RI	January 31, 2012	January 30, 2012
Obtain Technical Memorandum No.3 (Rev 1) Comments from USEPA	--	February 24, 2012 (draft) March 14, 2012 (formal letter)
Respond to comments on Technical Memorandum No. 3 (Rev 1) for supplemental RI activities and Prepare Tech Memo No. 3 (Rev 2)	April 30, 2012	April 30, 2012
Obtain Technical Memorandum No. 3 (Rev 2) Comments from USEPA		June 6, 2012
Received USEPA approval of Technical Memorandum No. 3 (Rev 2)		July 12, 2012
Post-RI Semi-Annual Groundwater Monitoring	August 2012	

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Deliverable or Milestone	Target Date	Actual Date
Upland RI (continued)		
Perform Supplemental RI Activities	July 2012, pending USEPA approval of Tech Memo No. 3 (Rev 2)	July 30th to August 2nd

5) Problems or Potential Problems Encountered

- None.

6) Actual or Planned Resolution of Problems or Potential Problems

- None.

If you have any questions regarding the content of this progress report, please contact Mr. Naren Prasad of IBS at 312.240.4569.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

Brian G. Hennings, PG
Hydrogeologist/Project Manager

Jennifer M. Kahler, PE
Senior Engineer

cc: Ms. Annette Weissbach, WDNR (via US Mail and email)
Mr. Naren Prasad, IBS (via email)
Ms. Catherine Schripsema, CH2M Hill (via email)

encl: Pace Project No.: 4062686
Pace Project No.: 4061723

[1530 July 2012 WPSC Manitowoc 120814.doc]

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 06, 2012

Jennifer Kahler
NATURAL RESOURCE TECHNOLOGY
23713 W. Paul Rd
Pewaukee, WI 53072

RE: Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Dear Jennifer Kahler:
Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 2012. 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

cc: Jody Barbeau, Natural Resource Technology
Brian Hennings, NATURAL RESOURCE TECHNOLOGY
Julie Zimdars, NATURAL RESOURCE TECHNOLOGY

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CERTIFICATIONS

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

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 Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Lab ID	Sample ID		Matrix	Date Collected	Date Received
4062686001	**062712001**	Effluent	Water	06/27/12 10:30	06/29/12 09:50
4062686002	**062712002**	Influent	Water	06/27/12 11:30	06/29/12 09:50
4062686003	**062712003**	Trip Blank	Water	06/27/12 00:00	06/29/12 09:50

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SAMPLE ANALYTE COUNT

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4062686001	**062712001**	EPA 8270	ARO	71
		EPA 8260	HNW	64
		EPA 9040	KMS	1
4062686002	**062712002**	EPA 8270 by SIM	RJN	20
		EPA 8260	HNW	64
4062686003	**062712003**	EPA 8260	HNW	64

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ANALYTICAL RESULTS

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Sample: 062712001 **Lab ID: 4062686001** Collected: 06/27/12 10:30 Received: 06/29/12 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	**<0.90**	ug/L	4.7	0.90	1	07/02/12 12:00	07/02/12 19:20	83-32-9	
Acenaphthylene	**<0.94**	ug/L	4.7	0.94	1	07/02/12 12:00	07/02/12 19:20	208-96-8	
Anthracene	**<0.59**	ug/L	4.7	0.59	1	07/02/12 12:00	07/02/12 19:20	120-12-7	
Benzo(a)anthracene	**<0.58**	ug/L	4.7	0.58	1	07/02/12 12:00	07/02/12 19:20	56-55-3	
Benzo(a)pyrene	**<0.91**	ug/L	4.7	0.91	1	07/02/12 12:00	07/02/12 19:20	50-32-8	
Benzo(b)fluoranthene	**<1.4**	ug/L	4.7	1.4	1	07/02/12 12:00	07/02/12 19:20	205-99-2	
Benzo(g,h,i)perylene	**<0.73**	ug/L	4.7	0.73	1	07/02/12 12:00	07/02/12 19:20	191-24-2	
Benzo(k)fluoranthene	**<0.97**	ug/L	4.7	0.97	1	07/02/12 12:00	07/02/12 19:20	207-08-9	
4-Bromophenylphenyl ether	**<1.2**	ug/L	4.7	1.2	1	07/02/12 12:00	07/02/12 19:20	101-55-3	
Butylbenzylphthalate	**<1.0**	ug/L	4.7	1.0	1	07/02/12 12:00	07/02/12 19:20	85-68-7	
Carbazole	**<0.66**	ug/L	4.7	0.66	1	07/02/12 12:00	07/02/12 19:20	86-74-8	
4-Chloro-3-methylphenol	**<0.95**	ug/L	4.7	0.95	1	07/02/12 12:00	07/02/12 19:20	59-50-7	
4-Chloroaniline	**<0.76**	ug/L	4.7	0.76	1	07/02/12 12:00	07/02/12 19:20	106-47-8	
bis(2-Chloroethoxy)methane	**<1.1**	ug/L	4.7	1.1	1	07/02/12 12:00	07/02/12 19:20	111-91-1	
bis(2-Chloroethyl) ether	**<0.62**	ug/L	4.7	0.62	1	07/02/12 12:00	07/02/12 19:20	111-44-4	
2-Chloronaphthalene	**<0.80**	ug/L	4.7	0.80	1	07/02/12 12:00	07/02/12 19:20	91-58-7	
2-Chlorophenol	**<0.66**	ug/L	4.7	0.66	1	07/02/12 12:00	07/02/12 19:20	95-57-8	
4-Chlorophenylphenyl ether	**<1.1**	ug/L	4.7	1.1	1	07/02/12 12:00	07/02/12 19:20	7005-72-3	
Chrysene	**<0.74**	ug/L	4.7	0.74	1	07/02/12 12:00	07/02/12 19:20	218-01-9	
Dibenz(a,h)anthracene	**<1.3**	ug/L	4.7	1.3	1	07/02/12 12:00	07/02/12 19:20	53-70-3	
Dibenzofuran	**<1.0**	ug/L	4.7	1.0	1	07/02/12 12:00	07/02/12 19:20	132-64-9	
1,2-Dichlorobenzene	**<0.67**	ug/L	4.7	0.67	1	07/02/12 12:00	07/02/12 19:20	95-50-1	
1,3-Dichlorobenzene	**<0.78**	ug/L	4.7	0.78	1	07/02/12 12:00	07/02/12 19:20	541-73-1	
1,4-Dichlorobenzene	**<0.81**	ug/L	4.7	0.81	1	07/02/12 12:00	07/02/12 19:20	106-46-7	
3,3'-Dichlorobenzidine	**<1.0**	ug/L	4.7	1.0	1	07/02/12 12:00	07/02/12 19:20	91-94-1	
2,4-Dichlorophenol	**<1.1**	ug/L	4.7	1.1	1	07/02/12 12:00	07/02/12 19:20	120-83-2	
Diethylphthalate	**<1.3**	ug/L	4.7	1.3	1	07/02/12 12:00	07/02/12 19:20	84-66-2	
2,4-Dimethylphenol	**<1.1**	ug/L	4.7	1.1	1	07/02/12 12:00	07/02/12 19:20	105-67-9	
Dimethylphthalate	**<0.99**	ug/L	4.7	0.99	1	07/02/12 12:00	07/02/12 19:20	131-11-3	
Di-n-butylphthalate	**<0.84**	ug/L	4.7	0.84	1	07/02/12 12:00	07/02/12 19:20	84-74-2	
4,6-Dinitro-2-methylphenol	**<0.70**	ug/L	4.7	0.70	1	07/02/12 12:00	07/02/12 19:20	534-52-1	
2,4-Dinitrophenol	**<1.9**	ug/L	9.4	1.9	1	07/02/12 12:00	07/02/12 19:20	51-28-5	
2,4-Dinitrotoluene	**<0.76**	ug/L	4.7	0.76	1	07/02/12 12:00	07/02/12 19:20	121-14-2	
2,6-Dinitrotoluene	**<1.0**	ug/L	4.7	1.0	1	07/02/12 12:00	07/02/12 19:20	606-20-2	
Di-n-octylphthalate	**<1.4**	ug/L	4.7	1.4	1	07/02/12 12:00	07/02/12 19:20	117-84-0	
bis(2-Ethylhexyl)phthalate	**<2.4**	ug/L	4.7	2.4	1	07/02/12 12:00	07/02/12 19:20	117-81-7	
Fluoranthene	**<0.86**	ug/L	4.7	0.86	1	07/02/12 12:00	07/02/12 19:20	206-44-0	
Fluorene	**<1.1**	ug/L	4.7	1.1	1	07/02/12 12:00	07/02/12 19:20	86-73-7	
Hexachloro-1,3-butadiene	**<0.62**	ug/L	9.4	0.62	1	07/02/12 12:00	07/02/12 19:20	87-68-3	
Hexachlorobenzene	**<1.0**	ug/L	4.7	1.0	1	07/02/12 12:00	07/02/12 19:20	118-74-1	
Hexachlorocyclopentadiene	**<1.0**	ug/L	4.7	1.0	1	07/02/12 12:00	07/02/12 19:20	77-47-4	
Hexachloroethane	**<0.55**	ug/L	4.7	0.55	1	07/02/12 12:00	07/02/12 19:20	67-72-1	
Indeno(1,2,3-cd)pyrene	**<0.63**	ug/L	4.7	0.63	1	07/02/12 12:00	07/02/12 19:20	193-39-5	
Isophorone	**<1.3**	ug/L	4.7	1.3	1	07/02/12 12:00	07/02/12 19:20	78-59-1	
2-Methylnaphthalene	**<1.3**	ug/L	4.7	1.3	1	07/02/12 12:00	07/02/12 19:20	91-57-6	
2-Methylphenol(o-Cresol)	**<0.92**	ug/L	4.7	0.92	1	07/02/12 12:00	07/02/12 19:20	95-48-7	

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ANALYTICAL RESULTS

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Sample: 062712001 **Lab ID: 4062686001** Collected: 06/27/12 10:30 Received: 06/29/12 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
3&4-Methylphenol(m&p Cresol)	**<0.72**	ug/L	4.7	0.72	1	07/02/12 12:00	07/02/12 19:20		
Naphthalene	**<0.66**	ug/L	4.7	0.66	1	07/02/12 12:00	07/02/12 19:20	91-20-3	
2-Nitroaniline	**<0.79**	ug/L	4.7	0.79	1	07/02/12 12:00	07/02/12 19:20	88-74-4	
3-Nitroaniline	**<0.91**	ug/L	4.7	0.91	1	07/02/12 12:00	07/02/12 19:20	99-09-2	
4-Nitroaniline	**<1.0**	ug/L	4.7	1.0	1	07/02/12 12:00	07/02/12 19:20	100-01-6	
Nitrobenzene	**<1.3**	ug/L	4.7	1.3	1	07/02/12 12:00	07/02/12 19:20	98-95-3	
2-Nitrophenol	**<1.3**	ug/L	4.7	1.3	1	07/02/12 12:00	07/02/12 19:20	88-75-5	
4-Nitrophenol	**<0.82**	ug/L	9.4	0.82	1	07/02/12 12:00	07/02/12 19:20	100-02-7	
N-Nitroso-di-n-propylamine	**<1.0**	ug/L	4.7	1.0	1	07/02/12 12:00	07/02/12 19:20	621-64-7	
N-Nitrosodiphenylamine	**<2.3**	ug/L	9.4	2.3	1	07/02/12 12:00	07/02/12 19:20	86-30-6	
2,2'-Oxybis(1-chloropropane)	**<0.78**	ug/L	4.7	0.78	1	07/02/12 12:00	07/02/12 19:20	108-60-1	
Pentachlorophenol	**<1.0**	ug/L	9.4	1.0	1	07/02/12 12:00	07/02/12 19:20	87-86-5	
Phenanthrene	**<0.60**	ug/L	4.7	0.60	1	07/02/12 12:00	07/02/12 19:20	85-01-8	
Phenol	**<0.98**	ug/L	4.7	0.98	1	07/02/12 12:00	07/02/12 19:20	108-95-2	
Pyrene	**<1.5**	ug/L	4.7	1.5	1	07/02/12 12:00	07/02/12 19:20	129-00-0	
1,2,4,5-Tetrachlorobenzene	**<4.7**	ug/L	4.7	4.7	1	07/02/12 12:00	07/02/12 19:20	95-94-3	
1,2,4-Trichlorobenzene	**<0.82**	ug/L	4.7	0.82	1	07/02/12 12:00	07/02/12 19:20	120-82-1	
2,4,5-Trichlorophenol	**<0.94**	ug/L	4.7	0.94	1	07/02/12 12:00	07/02/12 19:20	95-95-4	
2,4,6-Trichlorophenol	**<1.0**	ug/L	4.7	1.0	1	07/02/12 12:00	07/02/12 19:20	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	83	%.	41-130		1	07/02/12 12:00	07/02/12 19:20	4165-60-0	
2-Fluorobiphenyl (S)	82	%.	51-130		1	07/02/12 12:00	07/02/12 19:20	321-60-8	
Terphenyl-d14 (S)	81	%.	38-130		1	07/02/12 12:00	07/02/12 19:20	1718-51-0	
Phenol-d6 (S)	32	%.	13-130		1	07/02/12 12:00	07/02/12 19:20	13127-88-3	
2-Fluorophenol (S)	47	%.	24-130		1	07/02/12 12:00	07/02/12 19:20	367-12-4	
2,4,6-Tribromophenol (S)	87	%.	38-130		1	07/02/12 12:00	07/02/12 19:20	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**3.2**	ug/L	1.0	0.41	1		07/03/12 19:21	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		07/03/12 19:21	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		07/03/12 19:21	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		07/03/12 19:21	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		07/03/12 19:21	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		07/03/12 19:21	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		07/03/12 19:21	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		07/03/12 19:21	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		07/03/12 19:21	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		07/03/12 19:21	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		07/03/12 19:21	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		07/03/12 19:21	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/03/12 19:21	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		07/03/12 19:21	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		07/03/12 19:21	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		07/03/12 19:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		07/03/12 19:21	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		07/03/12 19:21	124-48-1	

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Sample: 062712001 **Lab ID: 4062686001** Collected: 06/27/12 10:30 Received: 06/29/12 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		07/03/12 19:21	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		07/03/12 19:21	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		07/03/12 19:21	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		07/03/12 19:21	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		07/03/12 19:21	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		07/03/12 19:21	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		07/03/12 19:21	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		07/03/12 19:21	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		07/03/12 19:21	75-35-4	
cis-1,2-Dichloroethene	**4.7**	ug/L	1.0	0.83	1		07/03/12 19:21	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		07/03/12 19:21	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		07/03/12 19:21	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		07/03/12 19:21	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		07/03/12 19:21	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		07/03/12 19:21	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		07/03/12 19:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		07/03/12 19:21	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		07/03/12 19:21	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		07/03/12 19:21	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		07/03/12 19:21	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		07/03/12 19:21	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		07/03/12 19:21	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		07/03/12 19:21	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		07/03/12 19:21	1634-04-4	L2,M0
Naphthalene	**2.1J**	ug/L	5.0	0.89	1		07/03/12 19:21	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		07/03/12 19:21	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		07/03/12 19:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		07/03/12 19:21	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		07/03/12 19:21	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		07/03/12 19:21	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		07/03/12 19:21	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		07/03/12 19:21	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	5.0	0.97	1		07/03/12 19:21	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		07/03/12 19:21	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		07/03/12 19:21	79-00-5	
Trichloroethene	**3.3**	ug/L	1.0	0.48	1		07/03/12 19:21	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		07/03/12 19:21	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		07/03/12 19:21	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		07/03/12 19:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		07/03/12 19:21	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/03/12 19:21	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		07/03/12 19:21	179601-23-1	
o-Xylene	**1.0**	ug/L	1.0	0.83	1		07/03/12 19:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	70-130		1		07/03/12 19:21	460-00-4	
Dibromofluoromethane (S)	89	%.	70-130		1		07/03/12 19:21	1868-53-7	

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ANALYTICAL RESULTS

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Sample: 062712001 **Lab ID: 4062686001** Collected: 06/27/12 10:30 Received: 06/29/12 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	99	%.	70-130		1		07/03/12 19:21	2037-26-5	
9040 pH	Analytical Method: EPA 9040								
pH	**7.3**	Std. Units	0.10	0.010	1		06/29/12 18:29		H6

Sample: 062712002 **Lab ID: 4062686002** Collected: 06/27/12 11:30 Received: 06/29/12 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**2.0J**	ug/L	4.7	0.45	100	07/02/12 12:00	07/03/12 10:39	83-32-9	
Acenaphthylene	**4.2J**	ug/L	4.7	0.36	100	07/02/12 12:00	07/03/12 10:39	208-96-8	
Anthracene	**0.032J**	ug/L	0.047	0.0057	1	07/02/12 12:00	07/03/12 09:29	120-12-7	
Benzo(a)anthracene	**<0.0036**	ug/L	0.047	0.0036	1	07/02/12 12:00	07/03/12 09:29	56-55-3	
Benzo(a)pyrene	**<0.0029**	ug/L	0.047	0.0029	1	07/02/12 12:00	07/03/12 09:29	50-32-8	
Benzo(b)fluoranthene	**<0.0034**	ug/L	0.047	0.0034	1	07/02/12 12:00	07/03/12 09:29	205-99-2	
Benzo(g,h,i)perylene	**<0.0048**	ug/L	0.047	0.0048	1	07/02/12 12:00	07/03/12 09:29	191-24-2	
Benzo(k)fluoranthene	**<0.0044**	ug/L	0.047	0.0044	1	07/02/12 12:00	07/03/12 09:29	207-08-9	
Chrysene	**<0.0035**	ug/L	0.047	0.0035	1	07/02/12 12:00	07/03/12 09:29	218-01-9	
Dibenz(a,h)anthracene	**<0.0032**	ug/L	0.047	0.0032	1	07/02/12 12:00	07/03/12 09:29	53-70-3	
Fluoranthene	**<0.0044**	ug/L	0.047	0.0044	1	07/02/12 12:00	07/03/12 09:29	206-44-0	
Fluorene	**0.50**	ug/L	0.047	0.0048	1	07/02/12 12:00	07/03/12 09:29	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0047**	ug/L	0.047	0.0047	1	07/02/12 12:00	07/03/12 09:29	193-39-5	
1-Methylnaphthalene	**14.4**	ug/L	4.7	0.50	100	07/02/12 12:00	07/03/12 10:39	90-12-0	
2-Methylnaphthalene	**2.0J**	ug/L	4.7	0.39	100	07/02/12 12:00	07/03/12 10:39	91-57-6	
Naphthalene	**31.7**	ug/L	4.7	0.48	100	07/02/12 12:00	07/03/12 10:39	91-20-3	B
Phenanthrene	**0.23**	ug/L	0.047	0.0081	1	07/02/12 12:00	07/03/12 09:29	85-01-8	
Pyrene	**<0.0047**	ug/L	0.047	0.0047	1	07/02/12 12:00	07/03/12 09:29	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%.	27-130		1	07/02/12 12:00	07/03/12 09:29	321-60-8	
Terphenyl-d14 (S)	93	%.	66-140		1	07/02/12 12:00	07/03/12 09:29	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**22.4**	ug/L	1.0	0.41	1		07/03/12 23:13	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		07/03/12 23:13	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		07/03/12 23:13	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		07/03/12 23:13	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		07/03/12 23:13	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		07/03/12 23:13	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		07/03/12 23:13	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		07/03/12 23:13	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		07/03/12 23:13	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		07/03/12 23:13	56-23-5	

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ANALYTICAL RESULTS

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Sample: 062712002 **Lab ID: 4062686002** Collected: 06/27/12 11:30 Received: 06/29/12 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		07/03/12 23:13	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		07/03/12 23:13	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/03/12 23:13	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		07/03/12 23:13	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		07/03/12 23:13	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		07/03/12 23:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		07/03/12 23:13	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		07/03/12 23:13	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		07/03/12 23:13	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		07/03/12 23:13	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		07/03/12 23:13	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		07/03/12 23:13	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		07/03/12 23:13	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		07/03/12 23:13	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		07/03/12 23:13	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		07/03/12 23:13	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		07/03/12 23:13	75-35-4	
cis-1,2-Dichloroethene	**8.7**	ug/L	1.0	0.83	1		07/03/12 23:13	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		07/03/12 23:13	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		07/03/12 23:13	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		07/03/12 23:13	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		07/03/12 23:13	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		07/03/12 23:13	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		07/03/12 23:13	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		07/03/12 23:13	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		07/03/12 23:13	108-20-3	
Ethylbenzene	**54.4**	ug/L	1.0	0.54	1		07/03/12 23:13	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		07/03/12 23:13	87-68-3	
Isopropylbenzene (Cumene)	**4.0**	ug/L	1.0	0.59	1		07/03/12 23:13	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		07/03/12 23:13	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		07/03/12 23:13	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		07/03/12 23:13	1634-04-4	L2
Naphthalene	**261**	ug/L	5.0	0.89	1		07/03/12 23:13	91-20-3	
n-Propylbenzene	**1.6**	ug/L	1.0	0.81	1		07/03/12 23:13	103-65-1	
Styrene	**9.6**	ug/L	1.0	0.86	1		07/03/12 23:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		07/03/12 23:13	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		07/03/12 23:13	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		07/03/12 23:13	127-18-4	
Toluene	**28.1**	ug/L	1.0	0.67	1		07/03/12 23:13	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		07/03/12 23:13	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	5.0	0.97	1		07/03/12 23:13	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		07/03/12 23:13	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		07/03/12 23:13	79-00-5	
Trichloroethene	**33.7**	ug/L	1.0	0.48	1		07/03/12 23:13	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		07/03/12 23:13	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		07/03/12 23:13	96-18-4	

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ANALYTICAL RESULTS

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Sample: 062712002 **Lab ID: 4062686002** Collected: 06/27/12 11:30 Received: 06/29/12 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,4-Trimethylbenzene	**18.6**	ug/L	1.0	0.97	1		07/03/12 23:13	95-63-6	
1,3,5-Trimethylbenzene	**3.9**	ug/L	1.0	0.83	1		07/03/12 23:13	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/03/12 23:13	75-01-4	
m&p-Xylene	**31.5**	ug/L	2.0	1.8	1		07/03/12 23:13	179601-23-1	
o-Xylene	**34.2**	ug/L	1.0	0.83	1		07/03/12 23:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	70-130		1		07/03/12 23:13	460-00-4	
Dibromofluoromethane (S)	90	%.	70-130		1		07/03/12 23:13	1868-53-7	
Toluene-d8 (S)	100	%.	70-130		1		07/03/12 23:13	2037-26-5	

Sample: 062712003 **Lab ID: 4062686003** Collected: 06/27/12 00:00 Received: 06/29/12 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		07/03/12 20:08	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		07/03/12 20:08	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		07/03/12 20:08	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		07/03/12 20:08	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		07/03/12 20:08	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		07/03/12 20:08	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		07/03/12 20:08	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		07/03/12 20:08	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		07/03/12 20:08	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		07/03/12 20:08	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		07/03/12 20:08	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		07/03/12 20:08	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/03/12 20:08	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		07/03/12 20:08	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		07/03/12 20:08	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		07/03/12 20:08	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		07/03/12 20:08	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		07/03/12 20:08	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		07/03/12 20:08	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		07/03/12 20:08	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		07/03/12 20:08	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		07/03/12 20:08	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		07/03/12 20:08	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		07/03/12 20:08	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		07/03/12 20:08	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		07/03/12 20:08	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		07/03/12 20:08	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		07/03/12 20:08	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		07/03/12 20:08	156-60-5	

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ANALYTICAL RESULTS

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Sample: 062712003 **Lab ID: 4062686003** Collected: 06/27/12 00:00 Received: 06/29/12 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		07/03/12 20:08	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		07/03/12 20:08	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		07/03/12 20:08	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		07/03/12 20:08	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		07/03/12 20:08	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		07/03/12 20:08	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		07/03/12 20:08	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		07/03/12 20:08	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		07/03/12 20:08	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		07/03/12 20:08	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		07/03/12 20:08	99-87-6	
Methylene Chloride	**1.6**	ug/L	1.0	0.43	1		07/03/12 20:08	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		07/03/12 20:08	1634-04-4	L2
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		07/03/12 20:08	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		07/03/12 20:08	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		07/03/12 20:08	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		07/03/12 20:08	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		07/03/12 20:08	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		07/03/12 20:08	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		07/03/12 20:08	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		07/03/12 20:08	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	5.0	0.97	1		07/03/12 20:08	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		07/03/12 20:08	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		07/03/12 20:08	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		07/03/12 20:08	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		07/03/12 20:08	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		07/03/12 20:08	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		07/03/12 20:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		07/03/12 20:08	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/03/12 20:08	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		07/03/12 20:08	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		07/03/12 20:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	70-130		1		07/03/12 20:08	460-00-4	
Dibromofluoromethane (S)	91	%.	70-130		1		07/03/12 20:08	1868-53-7	
Toluene-d8 (S)	101	%.	70-130		1		07/03/12 20:08	2037-26-5	

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

QC Batch: MSV/15738 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4062686001, 4062686002, 4062686003

METHOD BLANK: 630565 Matrix: Water
Associated Lab Samples: 4062686001, 4062686002, 4062686003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	07/03/12 17:26	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	07/03/12 17:26	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	07/03/12 17:26	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	07/03/12 17:26	
1,1-Dichloroethane	ug/L	<0.75	1.0	07/03/12 17:26	
1,1-Dichloroethene	ug/L	<0.57	1.0	07/03/12 17:26	
1,1-Dichloropropene	ug/L	<0.75	1.0	07/03/12 17:26	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	07/03/12 17:26	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	07/03/12 17:26	
1,2,4-Trichlorobenzene	ug/L	<0.97	5.0	07/03/12 17:26	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	07/03/12 17:26	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	07/03/12 17:26	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	07/03/12 17:26	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	07/03/12 17:26	
1,2-Dichloroethane	ug/L	<0.36	1.0	07/03/12 17:26	
1,2-Dichloropropane	ug/L	<0.49	1.0	07/03/12 17:26	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	07/03/12 17:26	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	07/03/12 17:26	
1,3-Dichloropropane	ug/L	<0.61	1.0	07/03/12 17:26	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	07/03/12 17:26	
2,2-Dichloropropane	ug/L	<0.62	1.0	07/03/12 17:26	
2-Chlorotoluene	ug/L	<0.85	1.0	07/03/12 17:26	
4-Chlorotoluene	ug/L	<0.74	1.0	07/03/12 17:26	
Benzene	ug/L	<0.41	1.0	07/03/12 17:26	
Bromobenzene	ug/L	<0.82	1.0	07/03/12 17:26	
Bromochloromethane	ug/L	<0.97	1.0	07/03/12 17:26	
Bromodichloromethane	ug/L	<0.56	1.0	07/03/12 17:26	
Bromoform	ug/L	<0.94	1.0	07/03/12 17:26	
Bromomethane	ug/L	<0.91	1.0	07/03/12 17:26	
Carbon tetrachloride	ug/L	<0.49	1.0	07/03/12 17:26	
Chlorobenzene	ug/L	<0.41	1.0	07/03/12 17:26	
Chloroethane	ug/L	<0.97	1.0	07/03/12 17:26	
Chloroform	ug/L	<1.3	5.0	07/03/12 17:26	
Chloromethane	ug/L	<0.24	1.0	07/03/12 17:26	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	07/03/12 17:26	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	07/03/12 17:26	
Dibromochloromethane	ug/L	<0.81	1.0	07/03/12 17:26	
Dibromomethane	ug/L	<0.60	1.0	07/03/12 17:26	
Dichlorodifluoromethane	ug/L	<0.99	1.0	07/03/12 17:26	
Diisopropyl ether	ug/L	<0.76	1.0	07/03/12 17:26	
Ethylbenzene	ug/L	<0.54	1.0	07/03/12 17:26	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	07/03/12 17:26	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	07/03/12 17:26	

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

METHOD BLANK: 630565 Matrix: Water

Associated Lab Samples: 4062686001, 4062686002, 4062686003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	07/03/12 17:26	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	07/03/12 17:26	
Methylene Chloride	ug/L	<0.43	1.0	07/03/12 17:26	
n-Butylbenzene	ug/L	<0.93	1.0	07/03/12 17:26	
n-Propylbenzene	ug/L	<0.81	1.0	07/03/12 17:26	
Naphthalene	ug/L	<0.89	5.0	07/03/12 17:26	
o-Xylene	ug/L	<0.83	1.0	07/03/12 17:26	
p-Isopropyltoluene	ug/L	<0.67	1.0	07/03/12 17:26	
sec-Butylbenzene	ug/L	<0.89	5.0	07/03/12 17:26	
Styrene	ug/L	<0.86	1.0	07/03/12 17:26	
tert-Butylbenzene	ug/L	<0.97	1.0	07/03/12 17:26	
Tetrachloroethene	ug/L	<0.45	1.0	07/03/12 17:26	
Toluene	ug/L	<0.67	1.0	07/03/12 17:26	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	07/03/12 17:26	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	07/03/12 17:26	
Trichloroethene	ug/L	<0.48	1.0	07/03/12 17:26	
Trichlorofluoromethane	ug/L	<0.79	1.0	07/03/12 17:26	
Vinyl chloride	ug/L	<0.18	1.0	07/03/12 17:26	
4-Bromofluorobenzene (S)	%.	97	70-130	07/03/12 17:26	
Dibromofluoromethane (S)	%.	89	70-130	07/03/12 17:26	
Toluene-d8 (S)	%.	101	70-130	07/03/12 17:26	

LABORATORY CONTROL SAMPLE & LCSD: 630566 630567

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.4	50.0	99	100	70-133	1	20	
1,1,2,2-Tetrachloroethane	ug/L	50	55.5	56.9	111	114	70-130	2	20	
1,1,2-Trichloroethane	ug/L	50	56.0	56.6	112	113	70-130	1	20	
1,1-Dichloroethane	ug/L	50	48.8	49.1	98	98	70-130	1	20	
1,1-Dichloroethene	ug/L	50	51.5	51.6	103	103	70-130	0	20	
1,2,4-Trichlorobenzene	ug/L	50	52.6	53.4	105	107	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	50	49.3	48.9	99	98	50-150	1	20	
1,2-Dibromoethane (EDB)	ug/L	50	56.9	58.3	114	117	70-130	2	20	
1,2-Dichlorobenzene	ug/L	50	53.9	54.6	108	109	70-130	1	20	
1,2-Dichloroethane	ug/L	50	55.9	55.8	112	112	70-145	0	20	
1,2-Dichloropropane	ug/L	50	51.2	51.1	102	102	70-130	0	20	
1,3-Dichlorobenzene	ug/L	50	51.6	52.1	103	104	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	51.3	51.8	103	104	70-130	1	20	
Benzene	ug/L	50	49.8	49.4	100	99	70-130	1	20	
Bromodichloromethane	ug/L	50	51.9	51.6	104	103	70-130	1	20	
Bromoform	ug/L	50	53.6	54.5	107	109	70-130	2	20	
Bromomethane	ug/L	50	43.2	46.3	86	93	52-155	7	20	
Carbon tetrachloride	ug/L	50	54.0	54.5	108	109	70-153	1	20	
Chlorobenzene	ug/L	50	54.8	54.2	110	108	70-130	1	20	
Chloroethane	ug/L	50	52.3	51.6	105	103	70-130	1	20	

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

LABORATORY CONTROL SAMPLE & LCSD: 630566 630567

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	50	52.1	51.9	104	104	70-130	0	20	
Chloromethane	ug/L	50	59.4	59.5	119	119	50-130	0	20	
cis-1,2-Dichloroethene	ug/L	50	47.5	48.1	95	96	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	48.4	47.8	97	96	70-130	1	20	
Dibromochloromethane	ug/L	50	56.9	57.5	114	115	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	61.8	59.5	124	119	50-150	4	20	
Ethylbenzene	ug/L	50	57.0	56.5	114	113	70-130	1	20	
Isopropylbenzene (Cumene)	ug/L	50	57.9	56.8	116	114	70-130	2	20	
m&p-Xylene	ug/L	100	111	110	111	110	70-130	0	20	
Methyl-tert-butyl ether	ug/L	50	31.3	31.5	63	63	70-130	1	20	L0
Methylene Chloride	ug/L	50	46.5	46.3	93	93	70-130	0	20	
o-Xylene	ug/L	50	56.6	55.6	113	111	70-130	2	20	
Styrene	ug/L	50	54.3	53.3	109	107	70-130	2	20	
Tetrachloroethene	ug/L	50	53.5	52.4	107	105	70-130	2	20	
Toluene	ug/L	50	56.8	56.8	114	114	70-130	0	20	
trans-1,2-Dichloroethene	ug/L	50	50.0	50.7	100	101	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	51.2	52.0	102	104	70-130	2	20	
Trichloroethene	ug/L	50	53.0	52.7	106	105	70-130	1	20	
Trichlorofluoromethane	ug/L	50	58.4	57.8	117	116	50-150	1	20	
Vinyl chloride	ug/L	50	55.4	55.1	111	110	66-130	1	20	
4-Bromofluorobenzene (S)	%.				104	102	70-130			
Dibromofluoromethane (S)	%.				89	90	70-130			
Toluene-d8 (S)	%.				101	102	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 630788 630789

Parameter	Units	4062686001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	50.9	52.0	102	104	70-133	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	58.2	60.3	116	121	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	56.8	57.7	114	115	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	50.1	50.8	100	102	70-133	1	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	53.5	53.7	107	107	70-130	0	20	
1,2,4-Trichlorobenzene	ug/L	<0.97	50	50	54.6	56.4	108	112	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	50	50	51.4	52.2	103	104	50-150	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.56	50	50	58.3	58.9	117	118	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.83	50	50	54.6	56.2	109	112	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.36	50	50	56.3	57.4	113	115	70-145	2	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	52.5	53.2	105	106	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.87	50	50	52.7	54.3	105	108	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.95	50	50	51.9	53.8	103	107	70-130	4	20	
Benzene	ug/L	3.2	50	50	54.0	54.9	102	103	70-130	2	20	
Bromodichloromethane	ug/L	<0.56	50	50	52.1	52.7	104	105	70-130	1	20	
Bromoform	ug/L	<0.94	50	50	54.4	54.7	109	109	70-130	1	20	
Bromomethane	ug/L	<0.91	50	50	48.1	51.3	95	101	52-155	6	20	
Carbon tetrachloride	ug/L	<0.49	50	50	56.2	57.1	112	114	70-158	2	20	
Chlorobenzene	ug/L	<0.41	50	50	55.4	56.7	111	113	70-130	2	20	

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 630788 630789

Parameter	Units	4062686001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloroethane	ug/L	<0.97	50	50	52.3	54.0	105	108	70-130	3	20	
Chloroform	ug/L	<1.3	50	50	53.1	54.2	105	108	70-130	2	20	
Chloromethane	ug/L	<0.24	50	50	61.2	64.0	122	128	46-130	4	20	
cis-1,2-Dichloroethene	ug/L	4.7	50	50	53.1	53.8	97	98	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	48.7	49.7	97	99	70-130	2	20	
Dibromochloromethane	ug/L	<0.81	50	50	58.8	59.0	118	118	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.99	50	50	60.6	64.0	121	128	50-150	5	20	
Ethylbenzene	ug/L	<0.54	50	50	58.4	59.3	116	118	70-130	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.59	50	50	60.0	60.0	120	120	70-130	0	20	
m&p-Xylene	ug/L	<1.8	100	100	116	115	115	114	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<0.61	50	50	31.7	32.2	63	64	70-130	2	20	M0
Methylene Chloride	ug/L	<0.43	50	50	47.2	48.2	94	96	70-130	2	20	
o-Xylene	ug/L	1.0	50	50	60.1	59.5	118	117	70-130	1	20	
Styrene	ug/L	<0.86	50	50	54.9	55.8	109	111	19-157	2	20	
Tetrachloroethene	ug/L	<0.45	50	50	54.3	54.9	109	110	70-130	1	20	
Toluene	ug/L	<0.67	50	50	59.0	59.2	117	117	70-130	0	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	51.5	52.5	103	105	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	53.1	53.2	106	106	70-130	0	20	
Trichloroethene	ug/L	3.3	50	50	56.2	56.6	106	107	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.79	50	50	59.1	60.7	118	121	50-150	3	20	
Vinyl chloride	ug/L	<0.18	50	50	57.0	58.2	114	116	62-130	2	20	
4-Bromofluorobenzene (S)	%.						105	103	70-130			
Dibromofluoromethane (S)	%.						90	91	70-130			
Toluene-d8 (S)	%.						102	102	70-130			

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

QC Batch: OEXT/15047
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 4062686002

METHOD BLANK: 630224
Matrix: Water
Associated Lab Samples: 4062686002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0053	0.050	07/02/12 13:27	
2-Methylnaphthalene	ug/L	<0.0041	0.050	07/02/12 13:27	
Acenaphthene	ug/L	<0.0048	0.050	07/02/12 13:27	
Acenaphthylene	ug/L	<0.0038	0.050	07/02/12 13:27	
Anthracene	ug/L	<0.0061	0.050	07/02/12 13:27	
Benzo(a)anthracene	ug/L	<0.0038	0.050	07/02/12 13:27	
Benzo(a)pyrene	ug/L	<0.0030	0.050	07/02/12 13:27	
Benzo(b)fluoranthene	ug/L	<0.0036	0.050	07/02/12 13:27	
Benzo(g,h,i)perylene	ug/L	<0.0051	0.050	07/02/12 13:27	
Benzo(k)fluoranthene	ug/L	<0.0046	0.050	07/02/12 13:27	
Chrysene	ug/L	<0.0037	0.050	07/02/12 13:27	
Dibenz(a,h)anthracene	ug/L	<0.0034	0.050	07/02/12 13:27	
Fluoranthene	ug/L	<0.0047	0.050	07/02/12 13:27	
Fluorene	ug/L	<0.0051	0.050	07/02/12 13:27	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0050	0.050	07/02/12 13:27	
Naphthalene	ug/L	0.0075J	0.050	07/02/12 13:27	
Phenanthrene	ug/L	<0.0086	0.050	07/02/12 13:27	
Pyrene	ug/L	<0.0050	0.050	07/02/12 13:27	
2-Fluorobiphenyl (S)	%.	58	27-130	07/02/12 13:27	
Terphenyl-d14 (S)	%.	73	66-140	07/02/12 13:27	

LABORATORY CONTROL SAMPLE & LCSD: 630225 630226

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.12	0.11	60	54	32-130	11	50	
2-Methylnaphthalene	ug/L	.2	0.12	0.11	60	53	29-130	11	50	
Acenaphthene	ug/L	.2	0.11	0.098	57	49	30-130	16	49	
Acenaphthylene	ug/L	.2	0.10	0.091	51	45	23-130	11	48	
Anthracene	ug/L	.2	0.089	0.075	45	37	20-130	17	46	
Benzo(a)anthracene	ug/L	.2	0.16	0.15	81	77	34-130	4	21	
Benzo(a)pyrene	ug/L	.2	0.14	0.13	69	66	41-130	4	20	
Benzo(b)fluoranthene	ug/L	.2	0.18	0.18	88	89	31-131	1	24	
Benzo(g,h,i)perylene	ug/L	.2	0.18	0.17	90	87	51-130	4	20	
Benzo(k)fluoranthene	ug/L	.2	0.17	0.17	87	86	56-130	2	23	
Chrysene	ug/L	.2	0.17	0.17	87	87	55-130	0	20	
Dibenz(a,h)anthracene	ug/L	.2	0.18	0.17	89	87	40-130	2	20	
Fluoranthene	ug/L	.2	0.16	0.13	80	67	38-130	19	40	
Fluorene	ug/L	.2	0.11	0.098	57	49	27-130	15	50	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.18	0.17	89	87	48-130	3	20	
Naphthalene	ug/L	.2	0.12	0.10	60	51	33-130	16	50	
Phenanthrene	ug/L	.2	0.14	0.11	68	56	28-130	19	47	

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

LABORATORY CONTROL SAMPLE & LCSD: 630225 630226

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Pyrene	ug/L	.2	0.16	0.13	78	65	41-130	18	40	
2-Fluorobiphenyl (S)	%.				52	47	27-130			
Terphenyl-d14 (S)	%.				87	78	66-140			

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

QC Batch: OEXT/15044 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 4062686001

METHOD BLANK: 630181 | Matrix: Water
Associated Lab Samples: 4062686001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	<5.0	5.0	07/02/12 13:19	
1,2,4-Trichlorobenzene	ug/L	<0.87	5.0	07/02/12 13:19	
1,2-Dichlorobenzene	ug/L	<0.71	5.0	07/02/12 13:19	
1,3-Dichlorobenzene	ug/L	<0.83	5.0	07/02/12 13:19	
1,4-Dichlorobenzene	ug/L	<0.86	5.0	07/02/12 13:19	
2,2'-Oxybis(1-chloropropane)	ug/L	<0.82	5.0	07/02/12 13:19	
2,4,5-Trichlorophenol	ug/L	<1.0	5.0	07/02/12 13:19	
2,4,6-Trichlorophenol	ug/L	<1.1	5.0	07/02/12 13:19	
2,4-Dichlorophenol	ug/L	<1.1	5.0	07/02/12 13:19	
2,4-Dimethylphenol	ug/L	<1.1	5.0	07/02/12 13:19	
2,4-Dinitrophenol	ug/L	<2.1	10.0	07/02/12 13:19	
2,4-Dinitrotoluene	ug/L	<0.80	5.0	07/02/12 13:19	
2,6-Dinitrotoluene	ug/L	<1.1	5.0	07/02/12 13:19	
2-Chloronaphthalene	ug/L	<0.84	5.0	07/02/12 13:19	
2-Chlorophenol	ug/L	<0.70	5.0	07/02/12 13:19	
2-Methylnaphthalene	ug/L	<1.4	5.0	07/02/12 13:19	
2-Methylphenol(o-Cresol)	ug/L	<0.97	5.0	07/02/12 13:19	
2-Nitroaniline	ug/L	<0.84	5.0	07/02/12 13:19	
2-Nitrophenol	ug/L	<1.4	5.0	07/02/12 13:19	
3&4-Methylphenol(m&p Cresol)	ug/L	<0.77	5.0	07/02/12 13:19	
3,3'-Dichlorobenzidine	ug/L	<1.1	5.0	07/02/12 13:19	
3-Nitroaniline	ug/L	<0.97	5.0	07/02/12 13:19	
4,6-Dinitro-2-methylphenol	ug/L	<0.75	5.0	07/02/12 13:19	
4-Bromophenylphenyl ether	ug/L	<1.3	5.0	07/02/12 13:19	
4-Chloro-3-methylphenol	ug/L	<1.0	5.0	07/02/12 13:19	
4-Chloroaniline	ug/L	<0.81	5.0	07/02/12 13:19	
4-Chlorophenylphenyl ether	ug/L	<1.2	5.0	07/02/12 13:19	
4-Nitroaniline	ug/L	<1.1	5.0	07/02/12 13:19	
4-Nitrophenol	ug/L	<0.87	10.0	07/02/12 13:19	
Acenaphthene	ug/L	<0.95	5.0	07/02/12 13:19	
Acenaphthylene	ug/L	<1.0	5.0	07/02/12 13:19	
Anthracene	ug/L	<0.63	5.0	07/02/12 13:19	
Benzo(a)anthracene	ug/L	<0.61	5.0	07/02/12 13:19	
Benzo(a)pyrene	ug/L	<0.97	5.0	07/02/12 13:19	
Benzo(b)fluoranthene	ug/L	<1.4	5.0	07/02/12 13:19	
Benzo(g,h,i)perylene	ug/L	<0.77	5.0	07/02/12 13:19	
Benzo(k)fluoranthene	ug/L	<1.0	5.0	07/02/12 13:19	
bis(2-Chloroethoxy)methane	ug/L	<1.2	5.0	07/02/12 13:19	
bis(2-Chloroethyl) ether	ug/L	<0.66	5.0	07/02/12 13:19	
bis(2-Ethylhexyl)phthalate	ug/L	<2.6	5.0	07/02/12 13:19	
Butylbenzylphthalate	ug/L	<1.1	5.0	07/02/12 13:19	
Carbazole	ug/L	<0.69	5.0	07/02/12 13:19	
Chrysene	ug/L	<0.78	5.0	07/02/12 13:19	

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

METHOD BLANK: 630181 Matrix: Water

Associated Lab Samples: 4062686001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-butylphthalate	ug/L	<0.90	5.0	07/02/12 13:19	
Di-n-octylphthalate	ug/L	<1.5	5.0	07/02/12 13:19	
Dibenz(a,h)anthracene	ug/L	<1.4	5.0	07/02/12 13:19	
Dibenzofuran	ug/L	<1.1	5.0	07/02/12 13:19	
Diethylphthalate	ug/L	<1.3	5.0	07/02/12 13:19	
Dimethylphthalate	ug/L	<1.0	5.0	07/02/12 13:19	
Fluoranthene	ug/L	<0.91	5.0	07/02/12 13:19	
Fluorene	ug/L	<1.1	5.0	07/02/12 13:19	
Hexachloro-1,3-butadiene	ug/L	<0.66	10.0	07/02/12 13:19	
Hexachlorobenzene	ug/L	<1.1	5.0	07/02/12 13:19	
Hexachlorocyclopentadiene	ug/L	<1.1	5.0	07/02/12 13:19	
Hexachloroethane	ug/L	<0.58	5.0	07/02/12 13:19	
Indeno(1,2,3-cd)pyrene	ug/L	<0.67	5.0	07/02/12 13:19	
Isophorone	ug/L	<1.4	5.0	07/02/12 13:19	
N-Nitroso-di-n-propylamine	ug/L	<1.1	5.0	07/02/12 13:19	
N-Nitrosodiphenylamine	ug/L	<2.5	10.0	07/02/12 13:19	
Naphthalene	ug/L	<0.70	5.0	07/02/12 13:19	
Nitrobenzene	ug/L	<1.4	5.0	07/02/12 13:19	
Pentachlorophenol	ug/L	<1.1	10.0	07/02/12 13:19	
Phenanthrene	ug/L	<0.63	5.0	07/02/12 13:19	
Phenol	ug/L	<1.0	5.0	07/02/12 13:19	
Pyrene	ug/L	<1.6	5.0	07/02/12 13:19	
2,4,6-Tribromophenol (S)	%.	72	38-130	07/02/12 13:19	
2-Fluorobiphenyl (S)	%.	62	51-130	07/02/12 13:19	
2-Fluorophenol (S)	%.	42	24-130	07/02/12 13:19	
Nitrobenzene-d5 (S)	%.	69	41-130	07/02/12 13:19	
Phenol-d6 (S)	%.	29	13-130	07/02/12 13:19	
Terphenyl-d14 (S)	%.	80	38-130	07/02/12 13:19	

LABORATORY CONTROL SAMPLE: 630182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	33.2	66	53-130	
1,2-Dichlorobenzene	ug/L	50	32.4	65	41-130	
1,3-Dichlorobenzene	ug/L	50	30.4	61	35-130	
1,4-Dichlorobenzene	ug/L	50	31.1	62	36-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	33.6	67	54-130	
2,4,5-Trichlorophenol	ug/L	50	39.3	79	65-130	
2,4,6-Trichlorophenol	ug/L	50	36.8	74	60-130	
2,4-Dichlorophenol	ug/L	50	39.0	78	63-130	
2,4-Dimethylphenol	ug/L	50	31.4	63	17-130	
2,4-Dinitrophenol	ug/L	50	39.2	78	23-130	
2,4-Dinitrotoluene	ug/L	50	41.0	82	58-131	
2,6-Dinitrotoluene	ug/L	50	37.1	74	65-130	
2-Chloronaphthalene	ug/L	50	33.0	66	64-130	

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

LABORATORY CONTROL SAMPLE: 630182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorophenol	ug/L	50	35.2	70	49-130	
2-Methylnaphthalene	ug/L	50	35.8	72	66-130	
2-Methylphenol(o-Cresol)	ug/L	50	34.3	69	36-130	
2-Nitroaniline	ug/L	50	40.9	82	66-130	
2-Nitrophenol	ug/L	50	35.4	71	48-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	30.6	61	34-130	
3,3'-Dichlorobenzidine	ug/L	50	33.7	67	43-130	
3-Nitroaniline	ug/L	50	41.7	83	53-130	
4,6-Dinitro-2-methylphenol	ug/L	50	34.5	69	41-133	
4-Bromophenylphenyl ether	ug/L	50	33.4	67	70-130	L0
4-Chloro-3-methylphenol	ug/L	50	39.0	78	42-130	
4-Chloroaniline	ug/L	50	40.1	80	48-130	
4-Chlorophenylphenyl ether	ug/L	50	35.9	72	67-130	
4-Nitroaniline	ug/L	50	48.9	98	46-130	
4-Nitrophenol	ug/L	50	20.4	41	14-130	
Acenaphthene	ug/L	50	34.0	68	70-130	L0
Acenaphthylene	ug/L	50	33.2	66	70-130	L0
Anthracene	ug/L	50	36.6	73	70-130	
Benzo(a)anthracene	ug/L	50	34.1	68	70-130	L0
Benzo(a)pyrene	ug/L	50	30.5	61	65-130	L0
Benzo(b)fluoranthene	ug/L	50	31.6	63	56-130	
Benzo(g,h,i)perylene	ug/L	50	30.8	62	49-136	
Benzo(k)fluoranthene	ug/L	50	34.8	70	62-130	
bis(2-Chloroethoxy)methane	ug/L	50	36.4	73	66-130	
bis(2-Chloroethyl) ether	ug/L	50	37.7	75	58-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	31.2	62	58-138	
Butylbenzylphthalate	ug/L	50	33.2	66	44-152	
Carbazole	ug/L	50	38.8	78	68-130	
Chrysene	ug/L	50	34.1	68	70-130	L0
Di-n-butylphthalate	ug/L	50	32.1	64	66-130	L0
Di-n-octylphthalate	ug/L	50	31.7	63	64-134	L0
Dibenz(a,h)anthracene	ug/L	50	31.8	64	50-131	
Dibenzofuran	ug/L	50	35.5	71	67-130	
Diethylphthalate	ug/L	50	33.6	67	61-130	
Dimethylphthalate	ug/L	50	35.2	70	61-130	
Fluoranthene	ug/L	50	36.8	74	59-130	
Fluorene	ug/L	50	36.9	74	70-130	
Hexachloro-1,3-butadiene	ug/L	50	29.9	60	40-130	
Hexachlorobenzene	ug/L	50	32.4	65	67-130	L0
Hexachlorocyclopentadiene	ug/L	50	14.0	28	10-130	
Hexachloroethane	ug/L	50	29.6	59	28-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	29.1	58	41-132	
Isophorone	ug/L	50	32.4	65	40-130	
N-Nitroso-di-n-propylamine	ug/L	50	36.6	73	57-130	
N-Nitrosodiphenylamine	ug/L	50	45.8	92	59-144	
Naphthalene	ug/L	50	33.9	68	64-130	
Nitrobenzene	ug/L	50	33.5	67	59-130	
Pentachlorophenol	ug/L	50	27.2	54	45-130	

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

LABORATORY CONTROL SAMPLE: 630182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	50	35.5	71	70-130	
Phenol	ug/L	50	19.5	39	26-130	
Pyrene	ug/L	50	36.6	73	51-130	
2,4,6-Tribromophenol (S)	%.			71	38-130	
2-Fluorobiphenyl (S)	%.			59	51-130	
2-Fluorophenol (S)	%.			45	24-130	
Nitrobenzene-d5 (S)	%.			64	41-130	
Phenol-d6 (S)	%.			33	13-130	
Terphenyl-d14 (S)	%.			70	38-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 630183 630184

Parameter	Units	4062624001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	<4.1	47.6	47.6	36.0	35.0	76	74	45-130	3	22	
1,2-Dichlorobenzene	ug/L	<3.4	47.6	47.6	36.0	34.0	76	71	39-130	5	34	
1,3-Dichlorobenzene	ug/L	<3.9	47.6	47.6	33.2	33.4	70	70	34-130	1	40	
1,4-Dichlorobenzene	ug/L	<4.1	47.6	47.6	33.6	32.7	70	69	33-130	2	38	
2,2'-Oxybis(1-chloropropane)	ug/L	<3.9	47.6	47.6	39.3	36.9	82	78	44-130	6	20	
2,4,5-Trichlorophenol	ug/L	<142	47.6	47.6	45.9	41.7	96	88	65-130	10	20	
2,4,6-Trichlorophenol	ug/L	<142	47.6	47.6	41.7	37.7	88	79	60-130	10	20	
2,4-Dichlorophenol	ug/L	<142	47.6	47.6	42.2	38.3	89	81	57-130	9	20	
2,4-Dimethylphenol	ug/L	7.1J	47.6	47.6	50.3	40.8	91	71	10-145	21	27	
2,4-Dinitrophenol	ug/L	<9.8	47.6	47.6	42.1J	38.0J	88	80	10-153		33	
2,4-Dinitrotoluene	ug/L	<3.8	47.6	47.6	43.1	40.1	91	84	35-139	7	20	
2,6-Dinitrotoluene	ug/L	<5.1	47.6	47.6	40.6	38.0	85	80	40-138	7	20	
2-Chloronaphthalene	ug/L	<4.0	47.6	47.6	37.6	35.4	79	74	64-130	6	20	
2-Chlorophenol	ug/L	<3.3	47.6	47.6	35.9	32.4	75	68	49-130	10	20	
2-Methylnaphthalene	ug/L	<6.4	47.6	47.6	41.1	38.4	86	81	42-136	7	20	
2-Methylphenol(o-Cresol)	ug/L	4.7J	47.6	47.6	39.8	34.8	74	63	28-130	14	21	
2-Nitroaniline	ug/L	<4.0	47.6	47.6	45.5	40.8	96	86	46-132	11	20	
2-Nitrophenol	ug/L	<6.5	47.6	47.6	37.4	36.4	78	76	48-130	3	20	
3&4-Methylphenol(m&p Cresol)	ug/L	<3.7	47.6	47.6	33.3	27.5	70	58	34-130	19	20	
3,3'-Dichlorobenzidine	ug/L	<5.3	47.6	47.6	23.3J	21.0J	49	44	10-136		28	
3-Nitroaniline	ug/L	<4.6	47.6	47.6	44.6	39.8	94	84	20-132	11	21	
4,6-Dinitro-2-methylphenol	ug/L	<3.5	47.6	47.6	40.0	38.7	84	81	29-145	3	21	
4-Bromophenylphenyl ether	ug/L	<6.2	47.6	47.6	36.9	34.2	78	72	66-130	8	20	
4-Chloro-3-methylphenol	ug/L	<4.8	47.6	47.6	44.7	36.8	94	77	42-130	20	20	
4-Chloroaniline	ug/L	<3.9	47.6	47.6	41.0	38.9	86	82	10-130	5	29	
4-Chlorophenylphenyl ether	ug/L	<5.7	47.6	47.6	41.9	37.0	88	78	63-130	13	20	
4-Nitroaniline	ug/L	<5.2	47.6	47.6	50.1	43.5	105	91	10-154	14	21	
4-Nitrophenol	ug/L	<4.2	47.6	47.6	16.7J	13.7J	35	29	10-130		38	
Acenaphthene	ug/L	<4.5	47.6	47.6	41.1	37.0	86	78	58-130	10	20	
Acenaphthylene	ug/L	<4.7	47.6	47.6	40.2	36.1	84	76	62-130	11	20	
Anthracene	ug/L	<3.0	47.6	47.6	40.4	38.1	85	80	62-130	6	20	
Benzo(a)anthracene	ug/L	<2.9	47.6	47.6	37.6	34.8	79	73	64-130	8	20	

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 630183 630184

Parameter	Units	4062624001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzo(a)pyrene	ug/L	<4.6	47.6	47.6	31.8	26.9	67	56	46-130	17	20	
Benzo(b)fluoranthene	ug/L	<6.9	47.6	47.6	34.2	29.9	72	63	51-130	14	20	
Benzo(g,h,i)perylene	ug/L	<3.7	47.6	47.6	29.6	30.5	62	64	47-136	3	36	
Benzo(k)fluoranthene	ug/L	<4.9	47.6	47.6	37.4	33.7	78	71	45-140	10	23	
bis(2-Chloroethoxy)methane	ug/L	<5.7	47.6	47.6	42.1	39.2	88	82	64-130	7	20	
bis(2-Chloroethyl) ether	ug/L	<3.1	47.6	47.6	41.3	40.2	87	84	57-130	3	20	
bis(2-Ethylhexyl)phthalate	ug/L	<12.4	47.6	47.6	33.5	28.2	70	59	28-173	17	20	
Butylbenzylphthalate	ug/L	<5.2	47.6	47.6	33.4	30.3	70	64	32-152	10	20	
Carbazole	ug/L	<3.3	47.6	47.6	46.2	42.2	97	89	56-130	9	20	
Chrysene	ug/L	<3.7	47.6	47.6	40.9	37.6	86	79	65-130	8	20	
Di-n-butylphthalate	ug/L	<4.3	47.6	47.6	38.9	34.1	82	72	51-141	13	20	
Di-n-octylphthalate	ug/L	<7.3	47.6	47.6	32.5	28.2	68	59	29-176	14	20	
Dibenz(a,h)anthracene	ug/L	<6.6	47.6	47.6	30.0	29.8	63	63	44-131	1	33	
Dibenzofuran	ug/L	<5.0	47.6	47.6	42.0	37.3	88	78	57-136	12	20	
Diethylphthalate	ug/L	<6.4	47.6	47.6	38.4	35.3	81	74	61-130	8	20	
Dimethylphthalate	ug/L	<5.0	47.6	47.6	39.4	36.6	83	77	61-130	7	20	
Fluoranthene	ug/L	<4.3	47.6	47.6	46.8	40.1	98	84	55-130	15	20	
Fluorene	ug/L	<5.4	47.6	47.6	43.2	38.7	91	81	51-131	11	20	
Hexachloro-1,3-butadiene	ug/L	<3.1	47.6	47.6	33.2J	31.8J	70	67	29-130		38	
Hexachlorobenzene	ug/L	<5.3	47.6	47.6	34.9	36.0	73	76	46-152	3	20	
Hexachlorocyclopentadiene	ug/L	<5.2	47.6	47.6	16.9J	13.2J	35	28	10-130		50	
Hexachloroethane	ug/L	<2.8	47.6	47.6	31.7	30.2	67	63	24-130	5	47	
Indeno(1,2,3-cd)pyrene	ug/L	<3.2	47.6	47.6	28.5	25.6	60	54	41-132	11	36	
Isophorone	ug/L	<6.5	47.6	47.6	36.4	34.5	76	72	40-130	5	20	
N-Nitroso-di-n-propylamine	ug/L	<5.1	47.6	47.6	42.8	40.0	90	84	57-134	7	20	
N-Nitrosodiphenylamine	ug/L	<11.7	47.6	47.6	43.9J	44.9J	92	94	50-145		42	
Naphthalene	ug/L	<3.3	47.6	47.6	40.1	38.5	83	80	55-130	4	20	
Nitrobenzene	ug/L	<6.5	47.6	47.6	38.1	37.0	80	78	59-130	3	20	
Pentachlorophenol	ug/L	3600	47.6	47.6	3550	2890	-109	-1500	10-164	21	27	M6
Phenanthrene	ug/L	<3.0	47.6	47.6	40.7	38.3	85	81	63-130	6	20	
Phenol	ug/L	<4.9	47.6	47.6	19.8J	18.3J	42	38	22-130		22	
Pyrene	ug/L	<7.7	47.6	47.6	34.8	34.3	73	72	51-130	1	23	
2,4,6-Tribromophenol (S)	%.						87	75	38-130			
2-Fluorobiphenyl (S)	%.						77	72	51-130			
2-Fluorophenol (S)	%.						46	43	24-130			
Nitrobenzene-d5 (S)	%.						74	70	41-130			
Phenol-d6 (S)	%.						35	34	13-130			
Terphenyl-d14 (S)	%.						71	66	38-130			

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

QC Batch: WET/12123
QC Batch Method: EPA 9040
Analysis Method: EPA 9040
Analysis Description: 9040 pH
Associated Lab Samples: 4062686001

SAMPLE DUPLICATE: 629827

Parameter	Units	4062686001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.3	7.3	0	20	H6

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QUALIFIERS

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

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.

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSSV/4761

[IP]	Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.
[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSSV/4762

[1]	There were several compound failures in the LCS, so the MS/MSD which had recoveries within LCS acceptance criteria are being used in place of the LCS to show accuracy.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1530 MANITOWOC FORMER MGP
Pace Project No.: 4062686

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4062686002	**062712002**	EPA 3510	OEXT/15047	EPA 8270 by SIM	MSSV/4761
4062686001	**062712001**	EPA 3510	OEXT/15044	EPA 8270	MSSV/4762
4062686001	**062712001**	EPA 8260	MSV/15738		
4062686002	**062712002**	EPA 8260	MSV/15738		
4062686003	**062712003**	EPA 8260	MSV/15738		
4062686001	**062712001**	EPA 9040	WET/12123		

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June 18, 2012

Jennifer Kahler
NATURAL RESOURCE TECHNOLOGY
23713 W. Paul Rd
Pewaukee, WI 53072

RE: Project: 1530 MANITOWOC MGP
Pace Project No.: 4061723

Dear Jennifer Kahler:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2012. 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

cc: Jody Barbeau, Natural Resource Technology
Brian Hennings, NATURAL RESOURCE TECHNOLOGY
Julie Zimdars, NATURAL RESOURCE TECHNOLOGY

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CERTIFICATIONS

Project: 1530 MANITOWOC MGP
Pace Project No.: 4061723

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 Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: 1530 MANITOWOC MGP
Pace Project No.: 4061723

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4061723001	**INTERMEDIATE**	Water	06/12/12 09:30	06/12/12 12:20
4061723002	**TRIP BLANK**	Water	06/12/12 09:30	06/12/12 12:20

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SAMPLE ANALYTE COUNT

Project: 1530 MANITOWOC MGP
Pace Project No.: 4061723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4061723001	**INTERMEDIATE**	EPA 8021	LCM	6
4061723002	**TRIP BLANK**	EPA 8021	LCM	6

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ANALYTICAL RESULTS

Project: 1530 MANITOWOC MGP
Pace Project No.: 4061723

Sample: INTERMEDIATE **Lab ID: 4061723001** Collected: 06/12/12 09:30 Received: 06/12/12 12:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**21.1**	ug/L	1.0	0.39	1		06/14/12 14:39	71-43-2	
Ethylbenzene	**<0.41**	ug/L	1.0	0.41	1		06/14/12 14:39	100-41-4	
Naphthalene	**97.8**	ug/L	1.0	0.40	1		06/14/12 14:39	91-20-3	
Toluene	**<0.42**	ug/L	1.0	0.42	1		06/14/12 14:39	108-88-3	
Xylene (Total)	**23.0**	ug/L	3.0	1.3	1		06/14/12 14:39	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%.	80-120		1		06/14/12 14:39	98-08-8	

Sample: TRIP BLANK **Lab ID: 4061723002** Collected: 06/12/12 09:30 Received: 06/12/12 12:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.39**	ug/L	1.0	0.39	1		06/15/12 10:01	71-43-2	
Ethylbenzene	**<0.41**	ug/L	1.0	0.41	1		06/15/12 10:01	100-41-4	
Naphthalene	**<0.40**	ug/L	1.0	0.40	1		06/15/12 10:01	91-20-3	
Toluene	**<0.42**	ug/L	1.0	0.42	1		06/15/12 10:01	108-88-3	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		06/15/12 10:01	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%.	80-120		1		06/15/12 10:01	98-08-8	

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QUALITY CONTROL DATA

Project: 1530 MANITOWOC MGP
Pace Project No.: 4061723

QC Batch: GCV/8520 | Analysis Method: EPA 8021
QC Batch Method: EPA 8021 | Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4061723001, 4061723002

METHOD BLANK: 620485 | Matrix: Water
Associated Lab Samples: 4061723001, 4061723002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.39	1.0	06/14/12 11:12	
Ethylbenzene	ug/L	<0.41	1.0	06/14/12 11:12	
Naphthalene	ug/L	<0.40	1.0	06/14/12 11:12	
Toluene	ug/L	<0.42	1.0	06/14/12 11:12	
Xylene (Total)	ug/L	<1.3	3.0	06/14/12 11:12	
a,a,a-Trifluorotoluene (S)	%.	103	80-120	06/14/12 11:12	

LABORATORY CONTROL SAMPLE & LCSD: 620486 620487

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	21.6	21.6	108	108	80-120	0	20	
Ethylbenzene	ug/L	20	21.1	21.2	106	106	80-120	0	20	
Naphthalene	ug/L	20	18.8	18.9	94	95	80-120	0	20	
Toluene	ug/L	20	21.2	21.2	106	106	80-120	0	20	
Xylene (Total)	ug/L	60	62.6	62.5	104	104	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%.				103	103	80-120			

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QUALIFIERS

Project: 1530 MANITOWOC MGP
Pace Project No.: 4061723

DEFINITIONS

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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.

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: GCV/8520

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1530 MANITOWOC MGP
Pace Project No.: 4061723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4061723001	**INTERMEDIATE**	EPA 8021	GCV/8520		
4061723002	**TRIP BLANK**	EPA 8021	GCV/8520		

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