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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 12, 2014

Mr. Myles Peterson
US COMPLIANCE
520 Third Street, Suite 100
Excelsior, MN 55331

RE: Project: Libman Company
Pace Project No.: 10258797

Dear Mr. Peterson:
Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2014. 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,

Diane J. Anderson

Diane J. Anderson
diane.anderson@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Libman Company
Pace Project No.: 10258797

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #40770
Alabama Certification #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
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Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nebraska Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
Wisconsin Certification #: 999407970
West Virginia Certification #: 382
West Virginia TO-15 Approval
West Virginia DHHR #:9952C

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SAMPLE SUMMARY

Project: Libman Company
Pace Project No.: 10258797

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10258797001	**Sample 1**	Water	02/25/14 15:20	02/26/14 10:15

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SAMPLE ANALYTE COUNT

Project: Libman Company
Pace Project No.: 10258797

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10258797001	**Sample 1**	EPA 8082	KL1	11	PASI-M
		EPA 200.7	IP	7	PASI-M
		EPA 625	JLR	74	PASI-M
		EPA 624	SH2	73	PASI-M
		SM 4500-H+B	AAD	1	PASI-M
		SM 4500-CN-E	PH1	1	PASI-M

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ANALYTICAL RESULTS

Project: Libman Company
Pace Project No.: 10258797

Sample: Sample 1 **Lab ID: 10258797001** Collected: 02/25/14 15:20 Received: 02/26/14 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	ND	ug/L	1.0	10	02/27/14 09:22	03/05/14 05:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.0	10	02/27/14 09:22	03/05/14 05:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	1.0	10	02/27/14 09:22	03/05/14 05:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	1.0	10	02/27/14 09:22	03/05/14 05:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	1.0	10	02/27/14 09:22	03/05/14 05:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	1.0	10	02/27/14 09:22	03/05/14 05:48	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	1.0	10	02/27/14 09:22	03/05/14 05:48	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/L	1.0	10	02/27/14 09:22	03/05/14 05:48	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/L	1.0	10	02/27/14 09:22	03/05/14 05:48	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	0	%.	30-150	10	02/27/14 09:22	03/05/14 05:48	877-09-8	D3,S4
Decachlorobiphenyl (S)	0	%.	30-150	10	02/27/14 09:22	03/05/14 05:48	2051-24-3	S4
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	3.0	1	03/03/14 12:23	03/04/14 14:44	7440-43-9	
Chromium	**38.8**	ug/L	10.0	1	03/03/14 12:23	03/04/14 14:44	7440-47-3	
Copper	**453**	ug/L	10.0	1	03/03/14 12:23	03/04/14 14:44	7440-50-8	
Lead	ND	ug/L	10.0	1	03/03/14 12:23	03/04/14 14:44	7439-92-1	
Nickel	**78.7**	ug/L	20.0	1	03/03/14 12:23	03/04/14 14:44	7440-02-0	
Silver	**19.4**	ug/L	10.0	1	03/03/14 12:23	03/04/14 14:44	7440-22-4	
Zinc	**866**	ug/L	20.0	1	03/03/14 12:23	03/04/14 14:44	7440-66-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Acenaphthene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	83-32-9	
Acenaphthylene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	208-96-8	
Anthracene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	120-12-7	
Benzo(a)anthracene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	56-55-3	
Benzo(a)pyrene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	207-08-9	
Benzoic acid	ND	ug/L	5320	10	02/26/14 13:12	03/04/14 17:37	65-85-0	
Benzyl alcohol	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	101-55-3	
Butylbenzylphthalate	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	85-68-7	
Carbazole	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	59-50-7	
4-Chloroaniline	ND	ug/L	5320	10	02/26/14 13:12	03/04/14 17:37	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	108-60-1	
2-Chloronaphthalene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	91-58-7	
2-Chlorophenol	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	7005-72-3	
Chrysene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	53-70-3	

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ANALYTICAL RESULTS

Project: Libman Company
Pace Project No.: 10258797

Sample: Sample 1 **Lab ID: 10258797001** Collected: 02/25/14 15:20 Received: 02/26/14 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Dibenzofuran	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	2130	10	02/26/14 13:12	03/04/14 17:37	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	120-83-2	
Diethylphthalate	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	105-67-9	
Dimethylphthalate	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	131-11-3	
Di-n-butylphthalate	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	5320	10	02/26/14 13:12	03/04/14 17:37	534-52-1	
2,4-Dinitrophenol	ND	ug/L	5320	10	02/26/14 13:12	03/04/14 17:37	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	606-20-2	
Di-n-octylphthalate	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	117-84-0	
1,2-Diphenylhydrazine	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	122-66-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	117-81-7	
Fluoranthene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	206-44-0	
Fluorene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	87-68-3	
Hexachlorobenzene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	5320	10	02/26/14 13:12	03/04/14 17:37	77-47-4	L2
Hexachloroethane	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	193-39-5	
Isophorone	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	78-59-1	
2-Methylnaphthalene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	95-48-7	
3&4-Methylphenol	ND	ug/L	2130	10	02/26/14 13:12	03/04/14 17:37		
Naphthalene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	91-20-3	
2-Nitroaniline	ND	ug/L	5320	10	02/26/14 13:12	03/04/14 17:37	88-74-4	
3-Nitroaniline	ND	ug/L	5320	10	02/26/14 13:12	03/04/14 17:37	99-09-2	
4-Nitroaniline	ND	ug/L	5320	10	02/26/14 13:12	03/04/14 17:37	100-01-6	
Nitrobenzene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	98-95-3	
2-Nitrophenol	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	88-75-5	
4-Nitrophenol	ND	ug/L	5320	10	02/26/14 13:12	03/04/14 17:37	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	86-30-6	
Pentachlorophenol	ND	ug/L	2450	10	02/26/14 13:12	03/04/14 17:37	87-86-5	
Phenanthrene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	85-01-8	
Phenol	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	108-95-2	
Pyrene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	5320	10	02/26/14 13:12	03/04/14 17:37	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1060	10	02/26/14 13:12	03/04/14 17:37	88-06-2	

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ANALYTICAL RESULTS

Project: Libman Company
Pace Project No.: 10258797

Sample: Sample 1 **Lab ID: 10258797001** Collected: 02/25/14 15:20 Received: 02/26/14 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Surrogates								
Nitrobenzene-d5 (S)	0	%.	55-125	10	02/26/14 13:12	03/04/14 17:37	4165-60-0	D3,P3, S4
2-Fluorobiphenyl (S)	0	%.	57-125	10	02/26/14 13:12	03/04/14 17:37	321-60-8	S4
Terphenyl-d14 (S)	0	%.	63-125	10	02/26/14 13:12	03/04/14 17:37	1718-51-0	S4
Phenol-d6 (S)	0	%.	53-125	10	02/26/14 13:12	03/04/14 17:37	13127-88-3	S4
2-Fluorophenol (S)	0	%.	49-125	10	02/26/14 13:12	03/04/14 17:37	367-12-4	S4
2,4,6-Tribromophenol (S)	0	%.	58-125	10	02/26/14 13:12	03/04/14 17:37	118-79-6	S4
624 MSV	Analytical Method: EPA 624							
Acetone	**145**	ug/L	20.0	1		03/10/14 21:34	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		03/10/14 21:34	107-05-1	
Benzene	ND	ug/L	1.0	1		03/10/14 21:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/10/14 21:34	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/10/14 21:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/10/14 21:34	75-27-4	
Bromoform	ND	ug/L	4.0	1		03/10/14 21:34	75-25-2	
Bromomethane	ND	ug/L	4.0	1		03/10/14 21:34	74-83-9	
2-Butanone (MEK)	**5.9**	ug/L	5.0	1		03/10/14 21:34	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/10/14 21:34	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/10/14 21:34	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/10/14 21:34	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		03/10/14 21:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/10/14 21:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/10/14 21:34	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		03/10/14 21:34	110-75-8	
Chloroform	ND	ug/L	1.0	1		03/10/14 21:34	67-66-3	
Chloromethane	ND	ug/L	4.0	1		03/10/14 21:34	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/10/14 21:34	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/10/14 21:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/10/14 21:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/10/14 21:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/10/14 21:34	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/10/14 21:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/10/14 21:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/10/14 21:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/10/14 21:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/10/14 21:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/10/14 21:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/10/14 21:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/10/14 21:34	75-35-4	
cis-1,2-Dichloroethene	**6.0**	ug/L	1.0	1		03/10/14 21:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/10/14 21:34	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/10/14 21:34	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/10/14 21:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/10/14 21:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/10/14 21:34	594-20-7	

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ANALYTICAL RESULTS

Project: Libman Company
Pace Project No.: 10258797

Sample: Sample 1 **Lab ID: 10258797001** Collected: 02/25/14 15:20 Received: 02/26/14 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
1,1-Dichloropropene	ND	ug/L	1.0	1		03/10/14 21:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/10/14 21:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/10/14 21:34	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/10/14 21:34	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/10/14 21:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/10/14 21:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/10/14 21:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/10/14 21:34	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/10/14 21:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/10/14 21:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/10/14 21:34	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		03/10/14 21:34	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/10/14 21:34	103-65-1	
Styrene	ND	ug/L	1.0	1		03/10/14 21:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/10/14 21:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/10/14 21:34	79-34-5	
Tetrachloroethene	**3.0**	ug/L	1.0	1		03/10/14 21:34	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		03/10/14 21:34	109-99-9	
Toluene	**5.7**	ug/L	1.0	1		03/10/14 21:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/10/14 21:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/10/14 21:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/10/14 21:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/10/14 21:34	79-00-5	
Trichloroethene	**14.7**	ug/L	0.40	1		03/10/14 21:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/10/14 21:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		03/10/14 21:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/10/14 21:34	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/10/14 21:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/10/14 21:34	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		03/10/14 21:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/10/14 21:34	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/10/14 21:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/10/14 21:34	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	75-125	1		03/10/14 21:34	17060-07-0	HS
Toluene-d8 (S)	102	%.	75-125	1		03/10/14 21:34	2037-26-5	
4-Bromofluorobenzene (S)	114	%.	75-125	1		03/10/14 21:34	460-00-4	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.7**	Std. Units	0.10	1		02/27/14 13:05		H6
SM4500CN-E Cyanide	Analytical Method: SM 4500-CN-E Preparation Method: SM 4500-CN-E							
Cyanide	ND	ug/L	10.0	1	03/04/14 10:00	03/04/14 13:31	57-12-5	

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

QC Batch: MPRP/44601
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Associated Lab Samples: 10258797001

METHOD BLANK: 1632149
Matrix: Water
Associated Lab Samples: 10258797001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	ND	3.0	03/04/14 08:31	
Chromium	ug/L	ND	10.0	03/04/14 08:31	
Copper	ug/L	ND	10.0	03/04/14 08:31	
Lead	ug/L	ND	10.0	03/04/14 08:31	
Nickel	ug/L	ND	20.0	03/04/14 08:31	
Silver	ug/L	ND	10.0	03/04/14 08:31	
Zinc	ug/L	ND	20.0	03/04/14 08:31	

LABORATORY CONTROL SAMPLE: 1632150

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	1000	943	94	85-115	
Chromium	ug/L	1000	944	94	85-115	
Copper	ug/L	1000	921	92	85-115	
Lead	ug/L	1000	865	86	85-115	
Nickel	ug/L	1000	949	95	85-115	
Silver	ug/L	500	461	92	85-115	
Zinc	ug/L	1000	937	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1632151 1632152

Parameter	Units	10258408001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	ND	1000	1000	997	1000	100	100	70-130	.5	30	
Chromium	ug/L	13.4	1000	1000	973	981	96	97	70-130	.8	30	
Copper	ug/L	76.2	1000	1000	1050	1060	97	98	70-130	.9	30	
Lead	ug/L	ND	1000	1000	865	862	86	86	70-130	.3	30	
Nickel	ug/L	109	1000	1000	1080	1090	97	98	70-130	.6	30	
Silver	ug/L	ND	500	500	479	483	95	96	70-130	.9	30	
Zinc	ug/L	ND	1000	1000	973	971	96	96	70-130	.2	30	

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

QC Batch: MSV/26502 | Analysis Method: EPA 624
QC Batch Method: EPA 624 | Analysis Description: 624 MSV
Associated Lab Samples: 10258797001

METHOD BLANK: 1636096 | Matrix: Water
Associated Lab Samples: 10258797001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/10/14 19:29	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/10/14 19:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/10/14 19:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/10/14 19:29	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	03/10/14 19:29	
1,1-Dichloroethane	ug/L	ND	1.0	03/10/14 19:29	
1,1-Dichloroethene	ug/L	ND	1.0	03/10/14 19:29	
1,1-Dichloropropene	ug/L	ND	1.0	03/10/14 19:29	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/10/14 19:29	
1,2,3-Trichloropropane	ug/L	ND	4.0	03/10/14 19:29	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/10/14 19:29	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/10/14 19:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	03/10/14 19:29	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/10/14 19:29	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/10/14 19:29	
1,2-Dichloroethane	ug/L	ND	1.0	03/10/14 19:29	
1,2-Dichloropropane	ug/L	ND	4.0	03/10/14 19:29	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/10/14 19:29	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/10/14 19:29	
1,3-Dichloropropane	ug/L	ND	1.0	03/10/14 19:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/10/14 19:29	
2,2-Dichloropropane	ug/L	ND	4.0	03/10/14 19:29	
2-Butanone (MEK)	ug/L	ND	5.0	03/10/14 19:29	
2-Chloroethylvinyl ether	ug/L	ND	10.0	03/10/14 19:29	
2-Chlorotoluene	ug/L	ND	1.0	03/10/14 19:29	
4-Chlorotoluene	ug/L	ND	1.0	03/10/14 19:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/10/14 19:29	
Acetone	ug/L	ND	20.0	03/10/14 19:29	
Allyl chloride	ug/L	ND	4.0	03/10/14 19:29	
Benzene	ug/L	ND	1.0	03/10/14 19:29	
Bromobenzene	ug/L	ND	1.0	03/10/14 19:29	
Bromochloromethane	ug/L	ND	1.0	03/10/14 19:29	
Bromodichloromethane	ug/L	ND	1.0	03/10/14 19:29	
Bromoform	ug/L	ND	4.0	03/10/14 19:29	
Bromomethane	ug/L	ND	4.0	03/10/14 19:29	
Carbon tetrachloride	ug/L	ND	1.0	03/10/14 19:29	
Chlorobenzene	ug/L	ND	1.0	03/10/14 19:29	
Chloroethane	ug/L	ND	1.0	03/10/14 19:29	
Chloroform	ug/L	ND	1.0	03/10/14 19:29	
Chloromethane	ug/L	ND	4.0	03/10/14 19:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/10/14 19:29	
cis-1,3-Dichloropropene	ug/L	ND	4.0	03/10/14 19:29	
Dibromochloromethane	ug/L	ND	1.0	03/10/14 19:29	

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

METHOD BLANK: 1636096 Matrix: Water
Associated Lab Samples: 10258797001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	4.0	03/10/14 19:29	
Dichlorodifluoromethane	ug/L	ND	1.0	03/10/14 19:29	
Dichlorofluoromethane	ug/L	ND	1.0	03/10/14 19:29	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	03/10/14 19:29	
Ethylbenzene	ug/L	ND	1.0	03/10/14 19:29	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/10/14 19:29	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/10/14 19:29	
m&p-Xylene	ug/L	ND	2.0	03/10/14 19:29	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/10/14 19:29	
Methylene Chloride	ug/L	ND	4.0	03/10/14 19:29	
n-Butylbenzene	ug/L	ND	1.0	03/10/14 19:29	
n-Propylbenzene	ug/L	ND	1.0	03/10/14 19:29	
Naphthalene	ug/L	ND	4.0	03/10/14 19:29	
o-Xylene	ug/L	ND	1.0	03/10/14 19:29	
p-Isopropyltoluene	ug/L	ND	1.0	03/10/14 19:29	
sec-Butylbenzene	ug/L	ND	1.0	03/10/14 19:29	
Styrene	ug/L	ND	1.0	03/10/14 19:29	
tert-Butylbenzene	ug/L	ND	1.0	03/10/14 19:29	
Tetrachloroethene	ug/L	ND	1.0	03/10/14 19:29	
Tetrahydrofuran	ug/L	ND	10.0	03/10/14 19:29	
Toluene	ug/L	ND	1.0	03/10/14 19:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/10/14 19:29	
trans-1,3-Dichloropropene	ug/L	ND	4.0	03/10/14 19:29	
Trichloroethene	ug/L	ND	0.40	03/10/14 19:29	
Trichlorofluoromethane	ug/L	ND	1.0	03/10/14 19:29	
Vinyl chloride	ug/L	ND	0.40	03/10/14 19:29	
Xylene (Total)	ug/L	ND	3.0	03/10/14 19:29	
1,2-Dichloroethane-d4 (S)	%.	98	75-125	03/10/14 19:29	
4-Bromofluorobenzene (S)	%.	101	75-125	03/10/14 19:29	
Toluene-d8 (S)	%.	101	75-125	03/10/14 19:29	

LABORATORY CONTROL SAMPLE: 1636097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	75-125	
1,1,1-Trichloroethane	ug/L	20	20.9	105	74-125	
1,1,2,2-Tetrachloroethane	ug/L	20	18.3	92	74-125	
1,1,2-Trichloroethane	ug/L	20	20.3	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	24.0	120	54-130	
1,1-Dichloroethane	ug/L	20	21.8	109	72-125	
1,1-Dichloroethene	ug/L	20	18.9	94	72-125	
1,1-Dichloropropene	ug/L	20	19.7	98	75-125	
1,2,3-Trichlorobenzene	ug/L	20	19.6	98	75-125	
1,2,3-Trichloropropane	ug/L	20	20.4	102	73-125	
1,2,4-Trichlorobenzene	ug/L	20	19.4	97	75-125	

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

LABORATORY CONTROL SAMPLE: 1636097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.2	96	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.3	99	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	18.7	94	75-125	
1,2-Dichlorobenzene	ug/L	20	19.7	98	75-125	
1,2-Dichloroethane	ug/L	20	20.0	100	73-125	
1,2-Dichloropropane	ug/L	20	20.6	103	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.1	95	74-125	
1,3-Dichlorobenzene	ug/L	20	19.3	96	75-125	
1,3-Dichloropropane	ug/L	20	19.1	95	75-125	
1,4-Dichlorobenzene	ug/L	20	20.1	100	75-125	
2,2-Dichloropropane	ug/L	20	20.6	103	75-125	
2-Butanone (MEK)	ug/L	100	98.9	99	60-130	
2-Chloroethylvinyl ether	ug/L	50	50.6	101	68-125	
2-Chlorotoluene	ug/L	20	18.6	93	75-125	
4-Chlorotoluene	ug/L	20	19.2	96	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.3	96	69-129	
Acetone	ug/L	100	109	109	74-128	
Allyl chloride	ug/L	20	18.9	95	72-125	
Benzene	ug/L	20	18.9	95	75-125	
Bromobenzene	ug/L	20	20.1	100	75-125	
Bromochloromethane	ug/L	20	21.2	106	75-125	
Bromodichloromethane	ug/L	20	20.6	103	75-125	
Bromoform	ug/L	20	19.1	95	70-126	
Bromomethane	ug/L	20	8.9	44	30-150	
Carbon tetrachloride	ug/L	20	19.4	97	73-125	
Chlorobenzene	ug/L	20	19.4	97	75-125	
Chloroethane	ug/L	20	20.7	104	61-140	
Chloroform	ug/L	20	21.2	106	75-125	
Chloromethane	ug/L	20	18.8	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.5	97	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.2	101	75-125	
Dibromochloromethane	ug/L	20	19.2	96	75-126	
Dibromomethane	ug/L	20	19.7	98	75-125	
Dichlorodifluoromethane	ug/L	20	18.0	90	49-128	
Dichlorofluoromethane	ug/L	20	20.3	101	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	23.9	119	75-125	
Ethylbenzene	ug/L	20	19.5	98	74-125	
Hexachloro-1,3-butadiene	ug/L	20	20.4	102	73-131	
Isopropylbenzene (Cumene)	ug/L	20	19.4	97	74-128	
m&p-Xylene	ug/L	40	38.6	97	75-125	
Methyl-tert-butyl ether	ug/L	20	22.0	110	70-127	
Methylene Chloride	ug/L	20	19.4	97	75-125	
n-Butylbenzene	ug/L	20	20.9	104	75-128	
n-Propylbenzene	ug/L	20	19.0	95	74-125	
Naphthalene	ug/L	20	20.0	100	75-125	
o-Xylene	ug/L	20	19.3	97	74-125	
p-Isopropyltoluene	ug/L	20	20.5	102	75-125	
sec-Butylbenzene	ug/L	20	19.5	97	73-129	

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

LABORATORY CONTROL SAMPLE: 1636097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/L	20	19.4	97	75-127	
tert-Butylbenzene	ug/L	20	19.2	96	73-126	
Tetrachloroethene	ug/L	20	18.7	94	71-125	
Tetrahydrofuran	ug/L	200	215	108	72-128	
Toluene	ug/L	20	19.0	95	75-125	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	75-125	
trans-1,3-Dichloropropene	ug/L	20	20.2	101	69-129	
Trichloroethene	ug/L	20	19.8	99	73-125	
Trichlorofluoromethane	ug/L	20	21.0	105	75-125	
Vinyl chloride	ug/L	20	19.4	97	71-127	
Xylene (Total)	ug/L	60	57.9	97	75-125	
1,2-Dichloroethane-d4 (S)	%.			107	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			101	75-125	

MATRIX SPIKE SAMPLE: 1636840

Parameter	Units	10259534001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.5	102	67-136	
1,1,1-Trichloroethane	ug/L	ND	20	21.5	107	64-142	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.5	88	59-140	
1,1,2-Trichloroethane	ug/L	ND	20	20.2	101	67-134	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	24.4	122	69-150	
1,1-Dichloroethane	ug/L	ND	20	21.5	107	64-131	
1,1-Dichloroethene	ug/L	ND	20	19.6	98	60-142	
1,1-Dichloropropene	ug/L	ND	20	21.2	106	67-137	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.5	103	53-141	
1,2,3-Trichloropropane	ug/L	ND	20	18.4	92	59-137	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.6	98	53-143	
1,2,4-Trimethylbenzene	ug/L	ND	20	19.2	96	60-138	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	47.3	95	72-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.3	91	72-125	
1,2-Dichlorobenzene	ug/L	ND	20	19.5	97	63-132	
1,2-Dichloroethane	ug/L	ND	20	19.2	96	63-127	
1,2-Dichloropropane	ug/L	ND	20	20.5	103	68-128	
1,3,5-Trimethylbenzene	ug/L	ND	20	19.6	98	54-144	
1,3-Dichlorobenzene	ug/L	ND	20	19.5	98	63-132	
1,3-Dichloropropane	ug/L	ND	20	18.8	94	73-125	
1,4-Dichlorobenzene	ug/L	ND	20	20.5	103	67-125	
2,2-Dichloropropane	ug/L	ND	20	19.5	98	45-150	
2-Butanone (MEK)	ug/L	ND	100	84.1	84	49-133	
2-Chloroethylvinyl ether	ug/L	ND	50	ND	.5	30-150	M1
2-Chlorotoluene	ug/L	ND	20	18.7	94	60-137	
4-Chlorotoluene	ug/L	ND	20	19.3	96	60-136	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	89.9	90	59-138	
Acetone	ug/L	ND	100	120	120	44-150	
Allyl chloride	ug/L	ND	20	18.9	94	55-145	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

MATRIX SPIKE SAMPLE: 1636840

Parameter	Units	10259534001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	18.8	94	65-128	
Bromobenzene	ug/L	ND	20	19.8	99	70-127	
Bromochloromethane	ug/L	ND	20	19.6	98	73-126	
Bromodichloromethane	ug/L	ND	20	21.4	107	67-133	
Bromoform	ug/L	ND	20	19.0	95	60-135	
Bromomethane	ug/L	ND	20	12.6	63	30-150	
Carbon tetrachloride	ug/L	ND	20	19.5	97	69-138	
Chlorobenzene	ug/L	ND	20	19.3	96	69-129	
Chloroethane	ug/L	ND	20	20.8	104	53-150	
Chloroform	ug/L	ND	20	20.3	102	56-142	
Chloromethane	ug/L	ND	20	20.1	100	55-147	
cis-1,2-Dichloroethene	ug/L	ND	20	19.2	95	69-128	
cis-1,3-Dichloropropene	ug/L	ND	20	20.7	103	62-129	
Dibromochloromethane	ug/L	ND	20	19.0	95	69-134	
Dibromomethane	ug/L	ND	20	20.1	100	72-127	
Dichlorodifluoromethane	ug/L	ND	20	20.2	101	75-150	
Dichlorofluoromethane	ug/L	ND	20	21.7	109	70-136	
Diethyl ether (Ethyl ether)	ug/L	ND	20	22.6	113	63-125	
Ethylbenzene	ug/L	ND	20	20.1	100	64-132	
Hexachloro-1,3-butadiene	ug/L	ND	20	20.4	102	40-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	19.8	99	59-145	
m&p-Xylene	ug/L	ND	40	38.6	96	66-136	
Methyl-tert-butyl ether	ug/L	ND	20	20.4	102	60-130	
Methylene Chloride	ug/L	ND	20	19.3	97	60-126	
n-Butylbenzene	ug/L	ND	20	21.5	107	46-150	
n-Propylbenzene	ug/L	ND	20	19.7	98	57-141	
Naphthalene	ug/L	ND	20	19.9	99	63-130	
o-Xylene	ug/L	ND	20	19.7	99	64-141	
p-Isopropyltoluene	ug/L	ND	20	21.2	106	55-144	
sec-Butylbenzene	ug/L	ND	20	20.2	101	48-150	
Styrene	ug/L	ND	20	19.4	97	65-138	
tert-Butylbenzene	ug/L	ND	20	19.7	99	54-147	
Tetrachloroethene	ug/L	ND	20	19.8	99	60-143	
Tetrahydrofuran	ug/L	ND	200	228	114	67-128	
Toluene	ug/L	ND	20	19.4	97	69-127	
trans-1,2-Dichloroethene	ug/L	ND	20	18.9	95	61-132	
trans-1,3-Dichloropropene	ug/L	ND	20	20.2	101	58-136	
Trichloroethene	ug/L	ND	20	20.7	104	67-133	
Trichlorofluoromethane	ug/L	ND	20	23.2	116	75-150	
Vinyl chloride	ug/L	ND	20	20.8	104	63-150	
Xylene (Total)	ug/L	ND	60	58.3	97	67-136	
1,2-Dichloroethane-d4 (S)	%.				100	75-125	
4-Bromofluorobenzene (S)	%.				101	75-125	
Toluene-d8 (S)	%.				101	75-125	

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(612)607-1700

QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

SAMPLE DUPLICATE: 1636841

Parameter	Units	10259535001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	1.4	1.3	7	30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	1.2	1.1	10	30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

SAMPLE DUPLICATE: 1636841

Parameter	Units	10259535001 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	1.6	0.90	57	30	D6
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	98	95	3		
4-Bromofluorobenzene (S)	%.	99	102	3		
Toluene-d8 (S)	%.	100	100	.5		

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

QC Batch: OEXT/24464 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 10258797001

METHOD BLANK: 1630468 | Matrix: Water
Associated Lab Samples: 10258797001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	03/03/14 14:54	
1,2-Dichlorobenzene	ug/L	ND	10.0	03/03/14 14:54	
1,2-Diphenylhydrazine	ug/L	ND	10.0	03/03/14 14:54	
1,3-Dichlorobenzene	ug/L	ND	10.0	03/03/14 14:54	
1,4-Dichlorobenzene	ug/L	ND	10.0	03/03/14 14:54	
2,4,5-Trichlorophenol	ug/L	ND	50.0	03/03/14 14:54	
2,4,6-Trichlorophenol	ug/L	ND	10.0	03/03/14 14:54	
2,4-Dichlorophenol	ug/L	ND	10.0	03/03/14 14:54	
2,4-Dimethylphenol	ug/L	ND	10.0	03/03/14 14:54	
2,4-Dinitrophenol	ug/L	ND	50.0	03/03/14 14:54	
2,4-Dinitrotoluene	ug/L	ND	10.0	03/03/14 14:54	
2,6-Dinitrotoluene	ug/L	ND	10.0	03/03/14 14:54	
2-Chloronaphthalene	ug/L	ND	10.0	03/03/14 14:54	
2-Chlorophenol	ug/L	ND	10.0	03/03/14 14:54	
2-Methylnaphthalene	ug/L	ND	10.0	03/03/14 14:54	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	03/03/14 14:54	
2-Nitroaniline	ug/L	ND	50.0	03/03/14 14:54	
2-Nitrophenol	ug/L	ND	10.0	03/03/14 14:54	
3&4-Methylphenol	ug/L	ND	20.0	03/03/14 14:54	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	03/03/14 14:54	
3-Nitroaniline	ug/L	ND	50.0	03/03/14 14:54	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	03/03/14 14:54	
4-Bromophenylphenyl ether	ug/L	ND	10.0	03/03/14 14:54	
4-Chloro-3-methylphenol	ug/L	ND	10.0	03/03/14 14:54	
4-Chloroaniline	ug/L	ND	50.0	03/03/14 14:54	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	03/03/14 14:54	
4-Nitroaniline	ug/L	ND	50.0	03/03/14 14:54	
4-Nitrophenol	ug/L	ND	50.0	03/03/14 14:54	
Acenaphthene	ug/L	ND	10.0	03/03/14 14:54	
Acenaphthylene	ug/L	ND	10.0	03/03/14 14:54	
Anthracene	ug/L	ND	10.0	03/03/14 14:54	
Benzo(a)anthracene	ug/L	ND	10.0	03/03/14 14:54	
Benzo(a)pyrene	ug/L	ND	10.0	03/03/14 14:54	
Benzo(b)fluoranthene	ug/L	ND	10.0	03/03/14 14:54	
Benzo(g,h,i)perylene	ug/L	ND	10.0	03/03/14 14:54	
Benzo(k)fluoranthene	ug/L	ND	10.0	03/03/14 14:54	
Benzoic acid	ug/L	ND	50.0	03/03/14 14:54	
Benzyl alcohol	ug/L	ND	10.0	03/03/14 14:54	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	03/03/14 14:54	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	03/03/14 14:54	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	03/03/14 14:54	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	03/03/14 14:54	
Butylbenzylphthalate	ug/L	ND	10.0	03/03/14 14:54	

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

METHOD BLANK: 1630468 Matrix: Water
Associated Lab Samples: 10258797001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Carbazole	ug/L	ND	10.0	03/03/14 14:54	
Chrysene	ug/L	ND	10.0	03/03/14 14:54	
Di-n-butylphthalate	ug/L	ND	10.0	03/03/14 14:54	
Di-n-octylphthalate	ug/L	ND	10.0	03/03/14 14:54	
Dibenz(a,h)anthracene	ug/L	ND	10.0	03/03/14 14:54	
Dibenzofuran	ug/L	ND	10.0	03/03/14 14:54	
Diethylphthalate	ug/L	ND	10.0	03/03/14 14:54	
Dimethylphthalate	ug/L	ND	10.0	03/03/14 14:54	
Fluoranthene	ug/L	ND	10.0	03/03/14 14:54	
Fluorene	ug/L	ND	10.0	03/03/14 14:54	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	03/03/14 14:54	
Hexachlorobenzene	ug/L	ND	10.0	03/03/14 14:54	
Hexachlorocyclopentadiene	ug/L	ND	50.0	03/03/14 14:54	
Hexachloroethane	ug/L	ND	10.0	03/03/14 14:54	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	03/03/14 14:54	
Isophorone	ug/L	ND	10.0	03/03/14 14:54	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	03/03/14 14:54	
N-Nitrosodimethylamine	ug/L	ND	10.0	03/03/14 14:54	
N-Nitrosodiphenylamine	ug/L	ND	10.0	03/03/14 14:54	
Naphthalene	ug/L	ND	10.0	03/03/14 14:54	
Nitrobenzene	ug/L	ND	10.0	03/03/14 14:54	
Pentachlorophenol	ug/L	ND	23.0	03/03/14 14:54	
Phenanthrene	ug/L	ND	10.0	03/03/14 14:54	
Phenol	ug/L	ND	10.0	03/03/14 14:54	
Pyrene	ug/L	ND	10.0	03/03/14 14:54	
2,4,6-Tribromophenol (S)	%.	87	58-125	03/03/14 14:54	
2-Fluorobiphenyl (S)	%.	82	57-125	03/03/14 14:54	
2-Fluorophenol (S)	%.	80	49-125	03/03/14 14:54	
Nitrobenzene-d5 (S)	%.	78	55-125	03/03/14 14:54	
Phenol-d6 (S)	%.	83	53-125	03/03/14 14:54	
Terphenyl-d14 (S)	%.	95	63-125	03/03/14 14:54	

LABORATORY CONTROL SAMPLE & LCSD: 1630469 1630470

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.7	39.8	79	80	56-125	.1	20	
1,2-Dichlorobenzene	ug/L	50	38.8	37.5	78	75	45-125	3	20	
1,2-Diphenylhydrazine	ug/L	50	43.0	43.6	86	87	64-125	1	20	
1,3-Dichlorobenzene	ug/L	50	38.9	37.3	78	75	43-125	4	20	
1,4-Dichlorobenzene	ug/L	50	38.9	37.3	78	75	44-125	4	20	
2,4,5-Trichlorophenol	ug/L	50	42.4J	42.4J	85	85	69-125		20	
2,4,6-Trichlorophenol	ug/L	50	42.6	41.8	85	84	68-125	2	20	
2,4-Dichlorophenol	ug/L	50	40.5	40.7	81	81	63-125	.5	20	
2,4-Dimethylphenol	ug/L	50	32.6	27.7	65	55	30-125	16	20	
2,4-Dinitrophenol	ug/L	50	39.5J	40.9J	79	82	30-139		20	

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

LABORATORY CONTROL SAMPLE & LCSD: 1630469 1630470

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4-Dinitrotoluene	ug/L	50	43.7	44.9	87	90	72-125	3	20	
2,6-Dinitrotoluene	ug/L	50	43.0	42.9	86	86	72-125	.3	20	
2-Chloronaphthalene	ug/L	50	41.2	40.5	82	81	68-125	2	20	
2-Chlorophenol	ug/L	50	39.6	40.2	79	80	52-125	1	20	
2-Methylnaphthalene	ug/L	50	41.7	40.3	83	81	62-125	3	20	
2-Methylphenol(o-Cresol)	ug/L	50	39.3	39.8	79	80	48-125	1	20	
2-Nitroaniline	ug/L	50	43.5J	43.2J	87	86	65-125		20	
2-Nitrophenol	ug/L	50	41.1	40.9	82	82	56-125	.6	20	
3&4-Methylphenol	ug/L	50	40.0	40.5	80	81	55-125	1	20	
3,3'-Dichlorobenzidine	ug/L	50	35.3	42.3	71	85	30-150	18	20	
3-Nitroaniline	ug/L	50	36.6J	42.9J	73	86	30-150		20	
4,6-Dinitro-2-methylphenol	ug/L	50	40.5J	42J	81	84	30-142		20	
4-Bromophenylphenyl ether	ug/L	50	42.7	42.9	85	86	72-125	.4	20	
4-Chloro-3-methylphenol	ug/L	50	42.8	41.7	86	83	64-125	3	20	
4-Chloroaniline	ug/L	50	21.3J	30.7J	43	61	30-140		20	
4-Chlorophenylphenyl ether	ug/L	50	43.1	42.9	86	86	72-125	.5	20	
4-Nitroaniline	ug/L	50	41.4J	43.4J	83	87	50-126		20	
4-Nitrophenol	ug/L	50	43.2J	43.7J	86	87	52-127		20	
Acenaphthene	ug/L	50	42.1	41.1	84	82	68-125	2	20	
Acenaphthylene	ug/L	50	41.8	41.1	84	82	70-125	2	20	
Anthracene	ug/L	50	41.6	42.1	83	84	71-125	1	20	
Benzo(a)anthracene	ug/L	50	42.0	43.5	84	87	74-125	4	20	
Benzo(a)pyrene	ug/L	50	42.5	43.0	85	86	73-125	1	20	
Benzo(b)fluoranthene	ug/L	50	45.1	43.4	90	87	74-125	4	20	
Benzo(g,h,i)perylene	ug/L	50	43.4	43.8	87	88	73-125	.8	20	
Benzo(k)fluoranthene	ug/L	50	42.4	44.7	85	89	75-125	5	20	
Benzoic acid	ug/L	50	27J	29.5J	54	59	30-126		20	
Benzyl alcohol	ug/L	50	40.5	40.7	81	81	48-125	.3	20	
bis(2-Chloroethoxy)methane	ug/L	50	40.7	40.2	81	80	57-125	1	20	
bis(2-Chloroethyl) ether	ug/L	50	39.5	39.7	79	79	44-125	.7	20	
bis(2-Chloroisopropyl) ether	ug/L	50	38.8	40.1	78	80	41-125	3	20	
bis(2-Ethylhexyl)phthalate	ug/L	50	43.6	44.5	87	89	72-125	2	20	
Butylbenzylphthalate	ug/L	50	43.2	43.4	86	87	72-125	.6	20	
Carbazole	ug/L	50	42.0	42.0	84	84	68-125	.06	20	
Chrysene	ug/L	50	43.4	43.7	87	87	74-125	.7	20	
Di-n-butylphthalate	ug/L	50	43.3	43.7	87	87	73-125	.8	20	
Di-n-octylphthalate	ug/L	50	43.9	43.7	88	87	71-125	.5	20	
Dibenz(a,h)anthracene	ug/L	50	43.0	43.1	86	86	75-125	.2	20	
Dibenzofuran	ug/L	50	42.6	42.1	85	84	71-125	1	20	
Diethylphthalate	ug/L	50	42.6	43.9	85	88	71-125	3	20	
Dimethylphthalate	ug/L	50	43.3	43.5	87	87	73-125	.6	20	
Fluoranthene	ug/L	50	42.7	43.2	85	86	72-125	1	20	
Fluorene	ug/L	50	42.7	42.2	85	84	71-125	1	20	
Hexachloro-1,3-butadiene	ug/L	50	39.2	39.4	78	79	52-125	.5	20	
Hexachlorobenzene	ug/L	50	42.8	43.4	86	87	71-125	2	20	
Hexachlorocyclopentadiene	ug/L	50	16.8J	13.2J	34	26	30-125		20	L0
Hexachloroethane	ug/L	50	38.5	36.8	77	74	40-125	4	20	
Indeno(1,2,3-cd)pyrene	ug/L	50	43.5	43.7	87	87	74-125	.5	20	

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

LABORATORY CONTROL SAMPLE & LCSD: 1630469 1630470

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Isophorone	ug/L	50	41.3	40.4	83	81	62-125	2	20	
N-Nitroso-di-n-propylamine	ug/L	50	40.6	39.6	81	79	51-125	2	20	
N-Nitrosodimethylamine	ug/L	50	40.3	40.6	81	81	39-125	.7	20	
N-Nitrosodiphenylamine	ug/L	50	42.4	41.8	85	84	58-125	1	20	
Naphthalene	ug/L	50	39.6	39.0	79	78	58-125	1	20	
Nitrobenzene	ug/L	50	40.3	40.3	81	81	55-125	.1	20	
Pentachlorophenol	ug/L	50	41.4	42.4	83	85	30-140	3	20	
Phenanthrene	ug/L	50	41.8	42.4	84	85	73-125	1	20	
Phenol	ug/L	50	40.6	40.6	81	81	52-125	.05	20	
Pyrene	ug/L	50	41.5	42.0	83	84	74-125	1	20	
2,4,6-Tribromophenol (S)	%.				90	92	58-125			
2-Fluorobiphenyl (S)	%.				79	75	57-125			
2-Fluorophenol (S)	%.				77	78	49-125			
Nitrobenzene-d5 (S)	%.				76	75	55-125			
Phenol-d6 (S)	%.				79	81	53-125			
Terphenyl-d14 (S)	%.				84	84	63-125			

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

QC Batch: OEXT/24475 | Analysis Method: EPA 8082
QC Batch Method: EPA 3510 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 10258797001

METHOD BLANK: 1630932 | Matrix: Water
Associated Lab Samples: 10258797001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.10	03/05/14 05:16	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.10	03/05/14 05:16	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.10	03/05/14 05:16	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.10	03/05/14 05:16	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.10	03/05/14 05:16	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.10	03/05/14 05:16	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.10	03/05/14 05:16	
PCB-1262 (Aroclor 1262)	ug/L	ND	0.10	03/05/14 05:16	
PCB-1268 (Aroclor 1268)	ug/L	ND	0.10	03/05/14 05:16	
Decachlorobiphenyl (S)	%.	81	30-150	03/05/14 05:16	
Tetrachloro-m-xylene (S)	%.	48	30-150	03/05/14 05:16	

LABORATORY CONTROL SAMPLE & LCSD: 1630933 1630934

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2	1.5	1.5	76	74	58-125	2	20	
PCB-1260 (Aroclor 1260)	ug/L	2	1.7	1.8	85	89	53-125	4	20	
Decachlorobiphenyl (S)	%.				84	86	30-150			
Tetrachloro-m-xylene (S)	%.				58	53	30-150			

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

QC Batch: WET/34493
QC Batch Method: SM 4500-H+B
Associated Lab Samples: 10258797001

Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH

LABORATORY CONTROL SAMPLE: 1630744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	4.9	98	98-102	H6

SAMPLE DUPLICATE: 1630745

Parameter	Units	10258466001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	6.9	1	3	H6

SAMPLE DUPLICATE: 1630746

Parameter	Units	10258813002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.7	5.6	1	3	H6

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QUALITY CONTROL DATA

Project: Libman Company
Pace Project No.: 10258797

QC Batch: WETA/17438
QC Batch Method: SM 4500-CN-E
Associated Lab Samples: 10258797001

Analysis Method: SM 4500-CN-E
Analysis Description: SM4500CN-E Cyanide

METHOD BLANK: 1632504
Matrix: Water
Associated Lab Samples: 10258797001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	03/04/14 13:14	

LABORATORY CONTROL SAMPLE: 1632505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	250	240	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1632506 1632507

Parameter	Units	10258367001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	28.3	250	250	213	203	74	70	80-120	5	30	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1632508 1632509

Parameter	Units	10258678001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	68.5	250	250	257	143	75	30	80-120	57	30	M1,R1

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Libman Company
Pace Project No.: 10258797

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.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

WORKORDER QUALIFIERS

WO: 10258797

[1] This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed.

BATCH QUALIFIERS

Batch: MSSV/10348

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

Batch: GCSV/12909

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

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
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.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Libman Company
Pace Project No.: 10258797

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Libman Company
Pace Project No.: 10258797

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10258797001	**Sample 1**	EPA 3510	OEXT/24475	EPA 8082	GCSV/12909
10258797001	**Sample 1**	EPA 200.7	MPRP/44601	EPA 200.7	ICP/18831
10258797001	**Sample 1**	EPA 625	OEXT/24464	EPA 625	MSSV/10348
10258797001	**Sample 1**	EPA 624	MSV/26502		
10258797001	**Sample 1**	SM 4500-H+B	WET/34493		
10258797001	**Sample 1**	SM 4500-CN-E	WETA/17438	SM 4500-CN-E	WETA/17448

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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10258797

Page: of

Section A
Required Client Information:

Company:	US Compliance
Address:	4350 Baker Road Ste.100
	Minnetonka MN 55343
Email To:	mpeterson@uscompliance.com
Phone: 952-567-5625	Fax:
Requested Due Date/TAT:	Standard

Section B
Required Project Information:

Report To:	Myles Peterson
Copy To:	
Purchase Order No.:	
Project Name:	Libman Company
Project Number:	

Section C
Invoice Information:

Attention:	Accounts Payable (e-mail)
Company Name:	US Compliance
Address:	
Pace Quote Reference:	
Pace Project Manager:	Diane Anderson
Pace Profile #:	US Compliance

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: IL

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	pH (if needed)	Metals200.7	Total CN	624	625	Pesticides	PCB	Dioxin	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Sample 1	WT							11										1	1	1	3	2	1	1	1		001
2	Trip Blank								2																			
3	69590	WT	G	2/25/14	3:20pm	2/25/14	3:20pm		1					✓														
4	851226	WT	G	2/25/14	3:20pm	2/25/14	3:20pm		1	1																		
5	851228	WT	G	2/25/14	3:20pm	2/25/14	3:20pm		1	1																		
6	484992	WT	G	2-25-14	3:20pm	2/25/14	3:20pm		1			1																
7	851229	WT	G	2-25-14	3:20pm	2-25-14	3:20pm		1	1																		
8	851224	WT	G	2-25-14	3:20pm	2-25-14	3:20pm		1	1																		
9	472638	WT	G	2-25-14	3:20pm	2-25-14	3:20pm		1	1																		
10	851225	WT	G	2-25-14	3:20pm	2-25-14	3:20pm		1	1																		
11	310590 310664 310516	WT	G	2-25-14	3:40pm	2-25-14	3:40pm		3				✓															
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Metals include Cd, Cr, Cu, Ni, Pb, Ag, Zn per 10/2013 email.				[illegible] Pace	2/26/14	1015	4 Y L Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Kevin Good
SIGNATURE of SAMPLER:	[signature]
DATE Signed (MM/DD/YY):	2/25/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 07Nov2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.08	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: US Compliance

Project #: WO#: 10258797

10258797

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 581239186836

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

Thermom. Used: ☐ 80512447 ☐ 72387080 ☐ B88A912167504 ☒ B88A9132521491 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.8 **Cooler Temp Corrected (°C):** 1.4 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** -0.4 **Date and Initials of Person Examining Contents:** BD 2/26/14

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☐ Yes	☒ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT BD 2/26/14	☒ Yes	☒ No	☐ N/A	12. Trip blanks indicated on COC, no trip blanks present
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☒ Yes	☐ No	☐ N/A	13. ½ ☒ HNO_3 ☐ H_2SO_4 ½ ☒ NaOH ☐ HCl Sample # 01
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☒ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water) DOC	☒ Yes	☐ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☒ Yes	☐ No	☐ N/A	14. 310590 310664, + 310516
Trip Blank Present?	☐ Yes	☒ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Myles Peterson Date/Time: 2/27/14 pm email

Comments/Resolution: Re: Pesticides - will be done in DOCH - they are WI certified. - Oked by Myles 2:35 pm 2/27/14

Project Manager Review: AF **Date:** 2/26/14

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

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

March 11, 2014

Diane Anderson
PASI Minnesota
1700 Elm Street
Suite 200
Minneapolis, MN 55414

RE: Project 20165832
Project ID: 10258797/US Compliance

Dear Diane Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 28, 2014. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerly,

Regina Ste. Marie

Regina Ste. Marie
regina.ste.marie@pacelabs.com

REPORT OF LABORATORY ANALYSIS

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Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20165832

Client: PASI Minnesota

Project ID: 10258797/US Compliance

Washington Department of Ecology C2078
Oregon Environmental Laboratory Accreditation - LA200001
U.S. Dept. of Agriculture Foreign Soil Import P330-10-00119
Pennsylviania Dept. of Env Protection (NELAC) 68-04202
Texas Commission on Env. Quality (NELAC) T104704405-09-TX
Kansas Department of Health and Environment (NELAC) E-10266
Florida Department of Health (NELAC) E87595
Oklahoma Department of Environmental Quality - 2010-139
Illinois Environmental Protection Agency - 0025721
California Env. Lab Accreditation Program Branch - 11277CA
Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20165832

Client: PASI Minnesota

Project ID: 10258797/US Compliance

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
SAMPLE 1	201167847	Water	25-Feb-14 15:20	28-Feb-14 10:00

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20165832

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: PASI Minnesota

Client ID: SAMPLE 1
Project ID: 10258797/US Compliance
Lab ID: 201167847
Description: None
Method: EPA 8081
8081 Pests Water

Project: 20165832
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 227761
Collected: 25-Feb-14
Received: 28-Feb-14
Prepared: 28-Feb-14

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
309-00-2	Aldrin	5	ND	D2,P12	0.500		11-Mar-14 13:52	SLF
319-84-6	alpha-BHC	5	ND	D2,P12	0.500		11-Mar-14 13:52	SLF
319-85-7	beta-BHC	5	ND	D2,P12	0.500		11-Mar-14 13:52	SLF
319-86-8	delta-BHC	5	ND	D2,P12	0.500		11-Mar-14 13:52	SLF
58-89-9	gamma-BHC (Lindane)	5	ND	D2,P12	0.500		11-Mar-14 13:52	SLF
5103-71-9	alpha-Chlordane	5	ND	D2,P12	0.500		11-Mar-14 13:52	SLF
5103-74-2	gamma-Chlordane	5	ND	D2,P12	0.500		11-Mar-14 13:52	SLF
72-54-8	4,4'-DDD	5	ND	D2,P12	1.00		11-Mar-14 13:52	SLF
72-55-9	4,4'-DDE	5	ND	D2,P12	1.00		11-Mar-14 13:52	SLF
50-29-3	4,4'-DDT	5	ND	D2,P12	1.00		11-Mar-14 13:52	SLF
60-57-1	Dieldrin	5	ND	D2,P12	1.00		11-Mar-14 13:52	SLF
959-98-8	Endosulfan I	5	ND	D2,P12	0.500		11-Mar-14 13:52	SLF
33213-65-9	Endosulfan II	5	ND	D2,P12	1.00		11-Mar-14 13:52	SLF
1031-07-8	Endosulfan sulfate	5	ND	D2,P12	1.00		11-Mar-14 13:52	SLF
72-20-8	Endrin	5	ND	D2,P12	1.00		11-Mar-14 13:52	SLF
7421-93-4	Endrin aldehyde	5	ND	D2,P12	1.00		11-Mar-14 13:52	SLF
53494-70-5	Endrin ketone	5	ND	D2,P12	1.00		11-Mar-14 13:52	SLF
76-44-8	Heptachlor	5	ND	D2,P12	0.500		11-Mar-14 13:52	SLF
1024-57-3	Heptachlor epoxide	5	ND	D2,P12	0.500		11-Mar-14 13:52	SLF
72-43-5	Methoxychlor	5	ND	D2,P12	5.00		11-Mar-14 13:52	SLF
8001-35-2	Toxaphene	5	ND	D2,P12	20.0		11-Mar-14 13:52	SLF

21 compound(s) reported

Protocol 3/11/2014 17:53:42

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 227761 **Project:** 20165832

Method: Water GC Semivolatile Organics

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
201167673	227761 BLANK 1		66	68	49	48				
201167674	227761 LCS 1		57	58	40	42				
201167847	SAMPLE 1	G1	56	45	97	0 D				
	QC limits:		16-125	14-126	10-115	10-119				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

Surrogates 3/11/2014 17:53:44

Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 227761 **Project:** 20165832 **LCS:** 201167674 07-Mar-14 13:39

Method: Water GC Semivolatile Organics **MS:**

Units: ug/L **MSD:**

Original for MS:

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Aldrin	0.500	0.164	33								10-115			Q5
alpha-BHC	0.500	0.232	46								27-124			Q5
beta-BHC	0.500	0.275	55								32-131			Q5
delta-BHC	0.500	0.303	61								28-134			Q5
gamma-BHC (Lindane)	0.500	0.279	56								28-128			Q5
alpha-Chlordane	0.500	0.262	52								21-116			Q5
gamma-Chlordane	0.500	0.270	54								16-116			Q5
4,4'-DDD	0.500	0.297	59								29-130			Q5
4,4'-DDE	0.500	0.233	47								15-115			Q5
4,4'-DDT	0.500	0.241	48								24-115			Q5
Dieldrin	0.500	0.268	54								31-121			Q5
Endosulfan I	0.500	0.252	50								13-115			Q5
Endosulfan II	0.500	0.274	55								14-115			Q5
Endosulfan sulfate	0.500	0.233	47								33-133			Q5
Endrin	0.500	0.299	60								20-153			Q5
Endrin aldehyde	0.500	0.301	60								27-129			Q5
Endrin ketone	0.500	0.299	60								34-129			Q5
Heptachlor	0.500	0.219	44								10-115			Q5
Heptachlor epoxide	0.500	0.279	56								30-119			Q5
Methoxychlor	0.500	0.285	57								21-150			Q5

20 compound(s) reported

*** denotes recovery outside of QC limits.**
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 227761 BLANK 1 **Project:** 20165832

Lab ID: 201167673

Prep Level: Water **Batch:** 227761

Method: Water GC Semivolatile Organics

Prepared: 28-Feb-14

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis	
309-00-2	Aldrin	1	ND		0.0500	07-Mar-14 13:24	SLF
319-84-6	alpha-BHC	1	ND		0.0500	07-Mar-14 13:24	SLF
319-85-7	beta-BHC	1	ND		0.0500	07-Mar-14 13:24	SLF
319-86-8	delta-BHC	1	ND		0.0500	07-Mar-14 13:24	SLF
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	07-Mar-14 13:24	SLF
5103-71-9	alpha-Chlordane	1	ND		0.0500	07-Mar-14 13:24	SLF
5103-74-2	gamma-Chlordane	1	ND		0.0500	07-Mar-14 13:24	SLF
72-54-8	4,4'-DDD	1	ND		0.100	07-Mar-14 13:24	SLF
72-55-9	4,4'-DDE	1	ND		0.100	07-Mar-14 13:24	SLF
50-29-3	4,4'-DDT	1	ND		0.100	07-Mar-14 13:24	SLF
60-57-1	Dieldrin	1	ND		0.100	07-Mar-14 13:24	SLF
959-98-8	Endosulfan I	1	ND		0.0500	07-Mar-14 13:24	SLF
33213-65-9	Endosulfan II	1	ND		0.100	07-Mar-14 13:24	SLF
1031-07-8	Endosulfan sulfate	1	ND		0.100	07-Mar-14 13:24	SLF
72-20-8	Endrin	1	ND		0.100	07-Mar-14 13:24	SLF
7421-93-4	Endrin aldehyde	1	ND		0.100	07-Mar-14 13:24	SLF
53494-70-5	Endrin ketone	1	ND		0.100	07-Mar-14 13:24	SLF
76-44-8	Heptachlor	1	ND		0.0500	07-Mar-14 13:24	SLF
1024-57-3	Heptachlor epoxide	1	ND		0.0500	07-Mar-14 13:24	SLF
72-43-5	Methoxychlor	1	ND		0.500	07-Mar-14 13:24	SLF
8001-35-2	Toxaphene	1	ND		2.00	07-Mar-14 13:24	SLF

21 compound(s) reported

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Protocol Blank 3/11/2014 17:53:4

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20165832

Value	Description
D2	The analysis was performed at a dilution due to the presence of matrix interferences.
G1	Interferences are present which caused poor surrogate recovery.
P12	A reduced sample aliquot was prepared because of the observed nature of the sample matrix.
Q5	Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
LCS	Laboratory Control Sample.
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

Pace Analytical Services, In
1000 Riverbend Blvd. Suite F
St. Rose, LA 7008
(504) 469-033

Chains of Custody

20165832 PASI-MINN

Chain of Custody

Workorder: 10258797 **Workorder Name:** Libman Company **Owner Received Date:** 2/26/2014 **Results Requested By:** 3/11/2014

Report To

Diane J. Anderson
Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone (612)607-1700
Fax (612)607-6444

Submit To

Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087
Phone (504)469-0333

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preservation						Pesticides (FL Cert)												LAB USE ONLY
1	Sample 1	PS	2/25/2014 15:20	10258797001	Water	1						X												201167847
2																								
3																								
4																								
5																								

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	Diane J Anderson	2/27/14		
2	KdSX	2-28-14 1000	J Miller	2-28-14 1000
3				

Cooler Temperature on Receipt 1-1 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

20165832 PASI-MINN

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Conditi

Courier: ☐ Pace Courier ☐ Hired Courier ☒ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☒ Yes ☐ No

Therometer Used: ☐ Therm Fisher IR 5 ☐ Therm Fisher IR 6 ☒ Therm Fisher IR 7

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Date and Initials of person examining contents: 02-28-14 MS

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Temp must be measured from Temperature blank when present

					Comments:
Temperature Blank Present"?	☐Yes	☒No	☐N/A	1	
Chain of Custody Present:	☒Yes	☐No	☐N/A	2	
Chain of Custody Complete:	☒Yes	☐No	☐N/A	3	
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	4	
Sampler Name & Signature on COC:	☐Yes	☐No	☒N/A	5	SUB COC
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	6	
Sufficient Volume:	☒Yes	☐No	☐N/A	7	
Correct Containers Used:	☒Yes	☐No	☐N/A	8	
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☒N/A	9	
Sample Labels match COC:	☐Yes	☒No	☐N/A	10	sample time on Container is 15:30
All containers received within manafacture's precautionary and/or expiration dates.	☒Yes	☐No	☐N/A	11	
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	☐Yes	☐No	☒N/A	12	
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	13	If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14	
Trip Blank Present:	☐Yes	☒No		15	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.08, 15Feb2013 SCUR Form - mod

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

www.pacelabs.com

Report Prepared for:

Miles Peterson
US COMPLIANCE
4350 Baker Road
Minnetonka MN 55343

REPORT OF LABORATORY ANALYSIS FOR TCDD

Report Information:

Pace Project #: 10258799
Sample Receipt Date: 02/26/2014
Client Project #: Libman Company
Client Sub PO #: N/A
State Cert #: 200012

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 2,3,7,8-TCDD Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

March 12, 2014

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:
March 12, 2014

Report of Laboratory Analysis

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The results relate only to the samples included in this report.

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of US Compliance. The sample was analyzed for the presence or absence of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) using USEPA Method 1613B. The reporting limits were set to correspond to the lowest calibration point and a nominal 1-Liter sample amount.

The isotopically-labeled TCDD internal standard in the sample extract was recovered at 85%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native TCDD was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show that 2,3,7,8-TCDD was not detected, indicating that the sample processing steps were free of background levels of this congener.

Laboratory spike samples were also prepared using clean water that had been fortified with native standard material. The results show that the spiked native TCDD was recovered at 89-91% with a relative percent difference of 2.2%. These results indicate high degrees of accuracy and precision for these determinations. Matrix spikes were not prepared with the sample batch.

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota	027-053-137
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New York (NEL	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Puerto Rico	MN00064
Indiana	C-MN-01	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10258799

~~10258799~~

Page: of

Section A Required Client Information:

Company:	US Compliance
Address:	4350 Baker Road Ste.100
	Minnetonka MN 55343
Email To:	mpeterson@uscompliance.com
Phone: 952-567-5625	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Myles Peterson
Copy To:	
Purchase Order No.:	
Project Name:	Libman Company
Project Number:	

Section C Invoice Information:

Attention:	Accounts Payable (e-mail)
Company Name:	US Compliance
Address:	
Pace Quote Reference:	
Pace Project Manager:	Diane Anderson
Pace Profile #:	US Compliance

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	pH (if needed)	Metals200.7	Total CN	624	625	Pesticides	PCB	Dioxin	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Sample 1	WT							11										1	1	1	3	2	1	1	1		001
2	Trip Blank								2																			
3	651990	WT	G	3/24	7:00	3/24	7:00		1					X														
4	651216	WT	G	3/24	7:00	3/24	7:00		1		X																	
5	651225	WT	G	3/24	7:00	3/24	7:00		1		X																	
6	434992	WT	G	3/24	7:00	3/24	7:00		1			X																
7	651229	WT	G	3/24	7:00	3/24	7:00		1		X																	
8	651224	WT	G	3/24	7:00	3/24	7:00		1		X																	
9	472638	WT	G	3/24	7:00	3/24	7:00		1		X																	
10	651225	WT	G	3/24	7:00	3/24	7:00		1		X																	
11	310590 310464 310516	WT	G	3/24	7:00	3/24	7:00		3			X																
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Metals include Cd, Cr, Cu, Ni, Pb, Ag, Zn per 10/2013 email.				[illegible]	3/24/14	1:45	LW	Y	L	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kevin Good					
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY): 3/25/14				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 07Nov2013 Page 1 of 1
	Document No.: **F-MN-L-213-rev.08**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: US Compliance

Project #: WO#: 10258799 (10258799)

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 581239186836

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermom. Used: ☐ 80512447 ☐ 72337080 ☐ B88A912167504 ☒ B88A9132521491 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.8 **Cooler Temp Corrected (°C):** 1.4 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** -0.4 **Date and Initials of Person Examining Contents:** BD 2/26/14

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☐ Yes	☒ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT BD 2/26/14	~~☒ Yes~~	☒ No	☐ N/A	12. Trip blanks indicated on COC, no trip blanks present
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☒ Yes	☐ No	☐ N/A	13. ½ ☒ HNO_3 ☐ H_2SO_4 ½ ☒ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☒ Yes	☐ No	☐ N/A	Sample # 01
Exceptions: VOA Coliform, TOC, Oil and Grease, WI-DRO (water) DOC	☒ Yes	☐ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☒ Yes	☐ No	☐ N/A	14. 310590, 310664, & 310516
Trip Blank Present?	☐ Yes	☒ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: (W) **Date:** 02/25/14

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

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

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Appendix B

Sample Analysis Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - US COMPLIANCE

Client's Sample ID	Sample 1		
Lab Sample ID	10258799001		
Filename	U140311A_14		
Injected By	SMT		
Total Amount Extracted	939 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	02/25/2014 15:30
ICAL ID	U140306	Received	02/26/2014 10:15
CCal Filename(s)	U140311A_01	Extracted	03/04/2014 16:15
Method Blank ID	BLANK-39484	Analyzed	03/11/2014 19:43

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	----	10	2,3,7,8-TCDD-13C	2.00	85
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	99

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 1613B Blank Analysis Results

Lab Sample Name			
Lab Sample ID	BLANK-39484	Matrix	Water
Filename	U140311A_13	Dilution	NA
Total Amount Extracted	982 mL	Extracted	03/04/2014 16:15
ICAL ID	U140306	Analyzed	03/11/2014 18:59
CCal Filename(s)	U140311A_01	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	-----	10	2,3,7,8-TCDD-13C	2.00	77
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	76

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-39485		
Filename	U140311A_15	Matrix	Water
Total Amount Extracted	993 mL	Dilution	NA
ICAL ID	U140306	Extracted	03/04/2014 16:15
CCal Filename	U140311A_01	Analyzed	03/11/2014 20:28
Method Blank ID	BLANK-39484	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	9.1	7.3	14.6	91
2,3,7,8-TCDD-37Cl4	10	8.8	3.7	15.8	88
2,3,7,8-TCDD-13C	100	83	25.0	141.0	83

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-39525		
Filename	U140311A_16	Matrix	Water
Total Amount Extracted	979 mL	Dilution	NA
ICAL ID	U140306	Extracted	03/04/2014 16:15
CCal Filename	U140311A_01	Analyzed	03/11/2014 21:13
Method Blank ID	BLANK-39484	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	8.9	7.3	14.6	89
2,3,7,8-TCDD-37Cl4	10	7.3	3.7	15.8	73
2,3,7,8-TCDD-13C	100	76	25.0	141.0	76

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client	US COMPLIANCE		
Spike 1 ID	LCS-39485	Spike 2 ID	LCSD-39525
Spike 1 Filename	U140311A_15	Spike 2 Filename	U140311A_16

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDD	91	89	2.2

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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