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

June 07, 2013

Mark Wathen
The Libman Compan
220 Nort Sheldon St.
Arcola, IL 61910

RE: Project: Stormwater
Pace Project No.: 10228353

Dear Mark Wathen:
Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Nicole Benjamin

nicole.benjamin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Stormwater
Pace Project No.: 10228353

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
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 #: Pace
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Georgia Certification #: 959
Hawaii Certification #Pace
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Oklahoma Certification #: 9507
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Oregon Certification #: MN300001
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Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
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SAMPLE SUMMARY

Project: Stormwater
Pace Project No.: 10228353

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10228353001	SAMPLE #1	Water	05/08/13 13:00	05/11/13 09:03

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SAMPLE ANALYTE COUNT

Project: Stormwater
Pace Project No.: 10228353

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10228353001	**SAMPLE #1**	EPA 200.7	IP	7
		EPA 625	JLR	74
		EPA 624	LPM	73
		SM 4500-H+B	RLB	1
		SM 4500-CN-E	PH1	1

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ANALYTICAL RESULTS

Project: Stormwater
Pace Project No.: 10228353

Sample: SAMPLE #1 **Lab ID: 10228353001** Collected: 05/08/13 13:00 Received: 05/11/13 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	3.0	1	05/25/13 07:59	05/27/13 21:55	7440-43-9	
Chromium	**45.9**	ug/L	10.0	1	05/25/13 07:59	05/27/13 21:55	7440-47-3	
Copper	**488**	ug/L	10.0	1	05/25/13 07:59	05/27/13 21:55	7440-50-8	
Lead	ND	ug/L	10.0	1	05/25/13 07:59	05/27/13 21:55	7439-92-1	
Nickel	**97.5**	ug/L	20.0	1	05/25/13 07:59	05/27/13 21:55	7440-02-0	
Silver	ND	ug/L	10.0	1	05/25/13 07:59	05/27/13 21:55	7440-22-4	
Zinc	**725**	ug/L	20.0	1	05/25/13 07:59	05/27/13 21:55	7440-66-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Acenaphthene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	83-32-9	H2
Acenaphthylene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	208-96-8	H2
Anthracene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	120-12-7	H2
Benzo(a)anthracene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	56-55-3	H2
Benzo(a)pyrene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	50-32-8	H2
Benzo(b)fluoranthene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	205-99-2	H2
Benzo(g,h,i)perylene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	191-24-2	H2
Benzo(k)fluoranthene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	207-08-9	H2
Benzoic acid	**3890**	ug/L	1330	5	05/29/13 14:56	06/07/13 10:24	65-85-0	H2
Benzyl alcohol	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	100-51-6	H2
4-Bromophenylphenyl ether	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	101-55-3	H2
Butylbenzylphthalate	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	85-68-7	H2
Carbazole	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	86-74-8	H2
4-Chloro-3-methylphenol	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	59-50-7	H2
4-Chloroaniline	ND	ug/L	1330	5	05/29/13 14:56	06/07/13 10:24	106-47-8	H2
bis(2-Chloroethoxy)methane	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	111-91-1	H2
bis(2-Chloroethyl) ether	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	111-44-4	H2
bis(2-Chloroisopropyl) ether	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	108-60-1	H2
2-Chloronaphthalene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	91-58-7	H2
2-Chlorophenol	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	95-57-8	H2
4-Chlorophenylphenyl ether	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	7005-72-3	H2
Chrysene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	218-01-9	H2
Dibenz(a,h)anthracene	ND	ug/L	532	5	05/29/13 14:56	06/07/13 10:24	53-70-3	H2
Dibenzofuran	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	132-64-9	H2
1,2-Dichlorobenzene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	95-50-1	H2
1,3-Dichlorobenzene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	541-73-1	H2
1,4-Dichlorobenzene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	106-46-7	H2
3,3'-Dichlorobenzidine	ND	ug/L	532	5	05/29/13 14:56	06/07/13 10:24	91-94-1	H2
2,4-Dichlorophenol	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	120-83-2	H2
Diethylphthalate	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	84-66-2	H2
2,4-Dimethylphenol	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	105-67-9	H2,L2
Dimethylphthalate	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	131-11-3	H2
Di-n-butylphthalate	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	84-74-2	H2
4,6-Dinitro-2-methylphenol	ND	ug/L	1330	5	05/29/13 14:56	06/07/13 10:24	534-52-1	H2,L2
2,4-Dinitrophenol	ND	ug/L	1330	5	05/29/13 14:56	06/07/13 10:24	51-28-5	H2,L2
2,4-Dinitrotoluene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	121-14-2	H2
2,6-Dinitrotoluene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	606-20-2	H2
Di-n-octylphthalate	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	117-84-0	H2

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ANALYTICAL RESULTS

Project: Stormwater
Pace Project No.: 10228353

Sample: SAMPLE #1 **Lab ID: 10228353001** Collected: 05/08/13 13:00 Received: 05/11/13 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
1,2-Diphenylhydrazine	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	122-66-7	H2
bis(2-Ethylhexyl)phthalate	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	117-81-7	H2
Fluoranthene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	206-44-0	H2
Fluorene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	86-73-7	H2
Hexachloro-1,3-butadiene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	87-68-3	H2
Hexachlorobenzene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	118-74-1	H2
Hexachlorocyclopentadiene	ND	ug/L	1330	5	05/29/13 14:56	06/07/13 10:24	77-47-4	H2,L2
Hexachloroethane	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	67-72-1	H2
Indeno(1,2,3-cd)pyrene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	193-39-5	H2
Isophorone	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	78-59-1	H2
2-Methylnaphthalene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	91-57-6	H2
2-Methylphenol(o-Cresol)	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	95-48-7	H2
3&4-Methylphenol	ND	ug/L	532	5	05/29/13 14:56	06/07/13 10:24		H2
Naphthalene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	91-20-3	H2
2-Nitroaniline	ND	ug/L	1330	5	05/29/13 14:56	06/07/13 10:24	88-74-4	H2
3-Nitroaniline	ND	ug/L	1330	5	05/29/13 14:56	06/07/13 10:24	99-09-2	H2
4-Nitroaniline	ND	ug/L	1330	5	05/29/13 14:56	06/07/13 10:24	100-01-6	H2
Nitrobenzene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	98-95-3	H2
2-Nitrophenol	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	88-75-5	H2
4-Nitrophenol	ND	ug/L	1330	5	05/29/13 14:56	06/07/13 10:24	100-02-7	H2
N-Nitrosodimethylamine	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	62-75-9	H2
N-Nitroso-di-n-propylamine	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	621-64-7	H2
N-Nitrosodiphenylamine	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	86-30-6	H2
Pentachlorophenol	ND	ug/L	612	5	05/29/13 14:56	06/07/13 10:24	87-86-5	H2
Phenanthrene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	85-01-8	H2
Phenol	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	108-95-2	H2
Pyrene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	129-00-0	H2
1,2,4-Trichlorobenzene	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	120-82-1	H2
2,4,5-Trichlorophenol	ND	ug/L	1330	5	05/29/13 14:56	06/07/13 10:24	95-95-4	H2
2,4,6-Trichlorophenol	ND	ug/L	266	5	05/29/13 14:56	06/07/13 10:24	88-06-2	H2
Surrogates								
Nitrobenzene-d5 (S)	0	%	61-125	5	05/29/13 14:56	06/07/13 10:24	4165-60-0	D4,P3, S4
2-Fluorobiphenyl (S)	0	%	67-125	5	05/29/13 14:56	06/07/13 10:24	321-60-8	S4
Terphenyl-d14 (S)	0	%	64-125	5	05/29/13 14:56	06/07/13 10:24	1718-51-0	S4
Phenol-d6 (S)	0	%	30-137	5	05/29/13 14:56	06/07/13 10:24	13127-88-3	S4
2-Fluorophenol (S)	0	%	30-125	5	05/29/13 14:56	06/07/13 10:24	367-12-4	S4
2,4,6-Tribromophenol (S)	0	%	52-125	5	05/29/13 14:56	06/07/13 10:24	118-79-6	S4
624 MSV	Analytical Method: EPA 624							
Acetone	**164**	ug/L	40.0	2		05/22/13 14:23	67-64-1	
Allyl chloride	ND	ug/L	8.0	2		05/22/13 14:23	107-05-1	
Benzene	ND	ug/L	2.0	2		05/22/13 14:23	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/22/13 14:23	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		05/22/13 14:23	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		05/22/13 14:23	75-27-4	
Bromoform	ND	ug/L	8.0	2		05/22/13 14:23	75-25-2	

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ANALYTICAL RESULTS

Project: Stormwater
Pace Project No.: 10228353

Sample: SAMPLE #1 **Lab ID: 10228353001** Collected: 05/08/13 13:00 Received: 05/11/13 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Bromomethane	ND	ug/L	8.0	2		05/22/13 14:23	74-83-9	CL
2-Butanone (MEK)	**14.4**	ug/L	10.0	2		05/22/13 14:23	78-93-3	
n-Butylbenzene	ND	ug/L	2.0	2		05/22/13 14:23	104-51-8	
sec-Butylbenzene	ND	ug/L	2.0	2		05/22/13 14:23	135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	2		05/22/13 14:23	98-06-6	
Carbon tetrachloride	ND	ug/L	2.0	2		05/22/13 14:23	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		05/22/13 14:23	108-90-7	
Chloroethane	ND	ug/L	2.0	2		05/22/13 14:23	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	20.0	2		05/22/13 14:23	110-75-8	
Chloroform	ND	ug/L	2.0	2		05/22/13 14:23	67-66-3	
Chloromethane	ND	ug/L	8.0	2		05/22/13 14:23	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		05/22/13 14:23	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		05/22/13 14:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	2		05/22/13 14:23	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		05/22/13 14:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/22/13 14:23	106-93-4	
Dibromomethane	ND	ug/L	8.0	2		05/22/13 14:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		05/22/13 14:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		05/22/13 14:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		05/22/13 14:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/22/13 14:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.0	2		05/22/13 14:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		05/22/13 14:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	2		05/22/13 14:23	75-35-4	
cis-1,2-Dichloroethene	**15.0**	ug/L	2.0	2		05/22/13 14:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/22/13 14:23	156-60-5	
Dichlorofluoromethane	ND	ug/L	2.0	2		05/22/13 14:23	75-43-4	
1,2-Dichloropropane	ND	ug/L	8.0	2		05/22/13 14:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/22/13 14:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	8.0	2		05/22/13 14:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/22/13 14:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	8.0	2		05/22/13 14:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	8.0	2		05/22/13 14:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	8.0	2		05/22/13 14:23	60-29-7	
Ethylbenzene	ND	ug/L	2.0	2		05/22/13 14:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2		05/22/13 14:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		05/22/13 14:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/22/13 14:23	99-87-6	
Methylene Chloride	ND	ug/L	8.0	2		05/22/13 14:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/22/13 14:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/22/13 14:23	1634-04-4	
Naphthalene	ND	ug/L	8.0	2		05/22/13 14:23	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	2		05/22/13 14:23	103-65-1	
Styrene	ND	ug/L	2.0	2		05/22/13 14:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/22/13 14:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/22/13 14:23	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		05/22/13 14:23	127-18-4	

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ANALYTICAL RESULTS

Project: Stormwater
Pace Project No.: 10228353

Sample: SAMPLE #1 **Lab ID: 10228353001** Collected: 05/08/13 13:00 Received: 05/11/13 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Tetrahydrofuran	ND	ug/L	20.0	2		05/22/13 14:23	109-99-9	
Toluene	ND	ug/L	2.0	2		05/22/13 14:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/22/13 14:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/22/13 14:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		05/22/13 14:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/22/13 14:23	79-00-5	
Trichloroethene	**285**	ug/L	2.0	2		05/22/13 14:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/22/13 14:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	8.0	2		05/22/13 14:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	2.0	2		05/22/13 14:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		05/22/13 14:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		05/22/13 14:23	108-67-8	
Vinyl chloride	ND	ug/L	0.80	2		05/22/13 14:23	75-01-4	
Xylene (Total)	ND	ug/L	6.0	2		05/22/13 14:23	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		05/22/13 14:23	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		05/22/13 14:23	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	75-125	2		05/22/13 14:23	17060-07-0	HS
Toluene-d8 (S)	99	%	75-125	2		05/22/13 14:23	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	2		05/22/13 14:23	460-00-4	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		05/20/13 16:02		H6
SM4500CN-E Cyanide	Analytical Method: SM 4500-CN-E							
Cyanide	**118**	ug/L	10.0	1		05/22/13 15:56	57-12-5	

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

QC Batch: MPRP/39368 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 MET
Associated Lab Samples: 10228353001

METHOD BLANK: 1437792 | Matrix: Water
Associated Lab Samples: 10228353001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	ND	3.0	05/27/13 21:47	
Chromium	ug/L	ND	10.0	05/27/13 21:47	
Copper	ug/L	ND	10.0	05/27/13 21:47	
Lead	ug/L	ND	10.0	05/27/13 21:47	
Nickel	ug/L	ND	20.0	05/27/13 21:47	
Silver	ug/L	ND	10.0	05/27/13 21:47	
Zinc	ug/L	ND	20.0	05/27/13 21:47	

LABORATORY CONTROL SAMPLE: 1437793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	1000	960	96	85-115	
Chromium	ug/L	1000	956	96	85-115	
Copper	ug/L	1000	938	94	85-115	
Lead	ug/L	1000	942	94	85-115	
Nickel	ug/L	1000	949	95	85-115	
Silver	ug/L	500	485	97	85-115	
Zinc	ug/L	1000	939	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1437794 1437795

Parameter	Units	10228353001 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	986	979	98	98	70-130	.7	30	
Chromium	ug/L	45.9	1000	1000	991	984	95	94	70-130	.7	30	
Copper	ug/L	488	1000	1000	1470	1470	98	98	70-130	.05	30	
Lead	ug/L	ND	1000	1000	936	926	93	92	70-130	1	30	
Nickel	ug/L	97.5	1000	1000	1040	1030	95	94	70-130	.9	30	
Silver	ug/L	ND	500	500	483	480	97	96	70-130	.4	30	
Zinc	ug/L	725	1000	1000	1660	1640	94	92	70-130	1	30	

MATRIX SPIKE SAMPLE: 1437796

Parameter	Units	10229002001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	ND	1000	948	95	70-130	
Chromium	ug/L	ND	1000	947	95	70-130	
Copper	ug/L	ND	1000	928	93	70-130	
Lead	ug/L	ND	1000	929	93	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

MATRIX SPIKE SAMPLE: 1437796

Parameter	Units	10229002001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nickel	ug/L	ND	1000	918	92	70-130	
Silver	ug/L	ND	500	480	96	70-130	
Zinc	ug/L	ND	1000	919	92	70-130	

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

QC Batch: MSV/23764 | Analysis Method: EPA 624
QC Batch Method: EPA 624 | Analysis Description: 624 MSV
Associated Lab Samples: 10228353001

METHOD BLANK: 1438085 | Matrix: Water
Associated Lab Samples: 10228353001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/22/13 12:46	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/22/13 12:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/22/13 12:46	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/22/13 12:46	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/22/13 12:46	
1,1-Dichloroethane	ug/L	ND	1.0	05/22/13 12:46	
1,1-Dichloroethene	ug/L	ND	1.0	05/22/13 12:46	
1,1-Dichloropropene	ug/L	ND	1.0	05/22/13 12:46	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/22/13 12:46	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/22/13 12:46	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/22/13 12:46	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/22/13 12:46	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/22/13 12:46	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/22/13 12:46	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/22/13 12:46	
1,2-Dichloroethane	ug/L	ND	1.0	05/22/13 12:46	
1,2-Dichloropropane	ug/L	ND	4.0	05/22/13 12:46	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/22/13 12:46	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/22/13 12:46	
1,3-Dichloropropane	ug/L	ND	1.0	05/22/13 12:46	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/22/13 12:46	
2,2-Dichloropropane	ug/L	ND	4.0	05/22/13 12:46	
2-Butanone (MEK)	ug/L	ND	5.0	05/22/13 12:46	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/22/13 12:46	
2-Chlorotoluene	ug/L	ND	1.0	05/22/13 12:46	
4-Chlorotoluene	ug/L	ND	1.0	05/22/13 12:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/22/13 12:46	
Acetone	ug/L	ND	20.0	05/22/13 12:46	
Allyl chloride	ug/L	ND	4.0	05/22/13 12:46	
Benzene	ug/L	ND	1.0	05/22/13 12:46	
Bromobenzene	ug/L	ND	1.0	05/22/13 12:46	
Bromochloromethane	ug/L	ND	1.0	05/22/13 12:46	
Bromodichloromethane	ug/L	ND	1.0	05/22/13 12:46	
Bromoform	ug/L	ND	4.0	05/22/13 12:46	
Bromomethane	ug/L	ND	4.0	05/22/13 12:46	CL
Carbon tetrachloride	ug/L	ND	1.0	05/22/13 12:46	
Chlorobenzene	ug/L	ND	1.0	05/22/13 12:46	
Chloroethane	ug/L	ND	1.0	05/22/13 12:46	
Chloroform	ug/L	ND	1.0	05/22/13 12:46	
Chloromethane	ug/L	ND	4.0	05/22/13 12:46	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/22/13 12:46	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/22/13 12:46	
Dibromochloromethane	ug/L	ND	1.0	05/22/13 12:46	

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

METHOD BLANK: 1438085 Matrix: Water

Associated Lab Samples: 10228353001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	4.0	05/22/13 12:46	
Dichlorodifluoromethane	ug/L	ND	1.0	05/22/13 12:46	
Dichlorofluoromethane	ug/L	ND	1.0	05/22/13 12:46	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/22/13 12:46	
Ethylbenzene	ug/L	ND	1.0	05/22/13 12:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/22/13 12:46	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/22/13 12:46	
m&p-Xylene	ug/L	ND	2.0	05/22/13 12:46	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/22/13 12:46	
Methylene Chloride	ug/L	ND	4.0	05/22/13 12:46	
n-Butylbenzene	ug/L	ND	1.0	05/22/13 12:46	
n-Propylbenzene	ug/L	ND	1.0	05/22/13 12:46	
Naphthalene	ug/L	ND	4.0	05/22/13 12:46	
o-Xylene	ug/L	ND	1.0	05/22/13 12:46	
p-Isopropyltoluene	ug/L	ND	1.0	05/22/13 12:46	
sec-Butylbenzene	ug/L	ND	1.0	05/22/13 12:46	
Styrene	ug/L	ND	1.0	05/22/13 12:46	
tert-Butylbenzene	ug/L	ND	1.0	05/22/13 12:46	
Tetrachloroethene	ug/L	ND	1.0	05/22/13 12:46	
Tetrahydrofuran	ug/L	ND	10.0	05/22/13 12:46	
Toluene	ug/L	ND	1.0	05/22/13 12:46	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/22/13 12:46	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/22/13 12:46	
Trichloroethene	ug/L	ND	1.0	05/22/13 12:46	
Trichlorofluoromethane	ug/L	ND	1.0	05/22/13 12:46	
Vinyl chloride	ug/L	ND	0.40	05/22/13 12:46	
Xylene (Total)	ug/L	ND	3.0	05/22/13 12:46	
1,2-Dichloroethane-d4 (S)	%	99	75-125	05/22/13 12:46	
4-Bromofluorobenzene (S)	%	103	75-125	05/22/13 12:46	
Toluene-d8 (S)	%	99	75-125	05/22/13 12:46	

LABORATORY CONTROL SAMPLE: 1438086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.7	98	75-125	
1,1,1-Trichloroethane	ug/L	20	19.0	95	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	75-125	
1,1,2-Trichloroethane	ug/L	20	20.3	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.5	92	51-134	
1,1-Dichloroethane	ug/L	20	21.8	109	74-125	
1,1-Dichloroethene	ug/L	20	22.1	111	74-125	
1,1-Dichloropropene	ug/L	20	21.8	109	73-125	
1,2,3-Trichlorobenzene	ug/L	20	20.0	100	75-125	
1,2,3-Trichloropropane	ug/L	20	18.9	95	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.6	98	75-125	

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

LABORATORY CONTROL SAMPLE: 1438086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.8	99	73-125	
1,2-Dibromo-3-chloropropane	ug/L	50	43.5	87	72-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	75-125	
1,2-Dichlorobenzene	ug/L	20	19.8	99	75-125	
1,2-Dichloroethane	ug/L	20	21.1	106	75-125	
1,2-Dichloropropane	ug/L	20	21.5	107	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.0	100	75-125	
1,3-Dichlorobenzene	ug/L	20	19.6	98	75-125	
1,3-Dichloropropane	ug/L	20	20.7	103	75-125	
1,4-Dichlorobenzene	ug/L	20	19.9	100	74-125	
2,2-Dichloropropane	ug/L	20	20.2	101	70-131	
2-Butanone (MEK)	ug/L	100	93.2	93	61-125	
2-Chloroethylvinyl ether	ug/L	50	51.3	103	38-150	
2-Chlorotoluene	ug/L	20	20.3	101	71-125	
4-Chlorotoluene	ug/L	20	20.1	100	72-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.6	93	68-125	
Acetone	ug/L	100	106	106	75-125	
Allyl chloride	ug/L	20	20.2	101	75-128	
Benzene	ug/L	20	21.3	106	74-125	
Bromobenzene	ug/L	20	19.9	100	75-125	
Bromochloromethane	ug/L	20	21.5	108	75-125	
Bromodichloromethane	ug/L	20	20.4	102	75-125	
Bromoform	ug/L	20	18.4	92	75-125	
Bromomethane	ug/L	20	14.9	75	40-150	CL
Carbon tetrachloride	ug/L	20	21.4	107	75-125	
Chlorobenzene	ug/L	20	20.5	103	75-125	
Chloroethane	ug/L	20	25.4	127	68-128	
Chloroform	ug/L	20	21.6	108	75-125	
Chloromethane	ug/L	20	22.2	111	59-126	
cis-1,2-Dichloroethene	ug/L	20	22.4	112	75-125	
cis-1,3-Dichloropropene	ug/L	20	18.6	93	75-125	
Dibromochloromethane	ug/L	20	19.7	99	75-125	
Dibromomethane	ug/L	20	20.7	104	75-125	
Dichlorodifluoromethane	ug/L	20	18.2	91	43-135	
Dichlorofluoromethane	ug/L	20	24.2	121	72-125	
Diethyl ether (Ethyl ether)	ug/L	20	21.4	107	75-125	
Ethylbenzene	ug/L	20	19.8	99	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.2	106	68-127	
Isopropylbenzene (Cumene)	ug/L	20	20.8	104	75-125	
m&p-Xylene	ug/L	40	40.7	102	74-125	
Methyl-tert-butyl ether	ug/L	20	18.7	93	75-125	
Methylene Chloride	ug/L	20	21.7	109	74-125	
n-Butylbenzene	ug/L	20	20.5	103	71-125	
n-Propylbenzene	ug/L	20	20.4	102	73-125	
Naphthalene	ug/L	20	19.4	97	73-125	
o-Xylene	ug/L	20	20.8	104	74-125	
p-Isopropyltoluene	ug/L	20	20.5	103	73-125	
sec-Butylbenzene	ug/L	20	20.8	104	71-125	

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

LABORATORY CONTROL SAMPLE: 1438086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/L	20	20.5	103	75-125	
tert-Butylbenzene	ug/L	20	20.6	103	73-125	
Tetrachloroethene	ug/L	20	19.8	99	72-125	
Tetrahydrofuran	ug/L	200	213	107	67-125	
Toluene	ug/L	20	20.4	102	75-125	
trans-1,2-Dichloroethene	ug/L	20	21.3	106	72-126	
trans-1,3-Dichloropropene	ug/L	20	19.2	96	75-125	
Trichloroethene	ug/L	20	21.3	107	75-125	
Trichlorofluoromethane	ug/L	20	20.4	102	71-125	
Vinyl chloride	ug/L	20	24.2	121	69-128	
Xylene (Total)	ug/L	60	61.5	103	74-125	
1,2-Dichloroethane-d4 (S)	%			98	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 1438088

Parameter	Units	10229076001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	26.8	134	75-125	M1
1,1,1-Trichloroethane	ug/L	ND	20	28.0	140	75-134	M1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	28.0	140	75-125	M1
1,1,2-Trichloroethane	ug/L	ND	20	27.2	136	75-125	M1
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	36.1	180	75-150	M1
1,1-Dichloroethane	ug/L	ND	20	30.2	151	75-129	M1
1,1-Dichloroethene	ug/L	ND	20	33.0	165	75-141	M1
1,1-Dichloropropene	ug/L	ND	20	31.9	160	75-135	M1
1,2,3-Trichlorobenzene	ug/L	ND	20	27.6	138	72-125	M1
1,2,3-Trichloropropane	ug/L	ND	20	27.0	135	75-125	M1
1,2,4-Trichlorobenzene	ug/L	ND	20	27.4	137	75-125	M1
1,2,4-Trimethylbenzene	ug/L	ND	20	26.6	133	75-125	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	50	59.1	118	72-125	
1,2-Dibromoethane (EDB)	ug/L	ND	20	27.6	138	75-125	M1
1,2-Dichlorobenzene	ug/L	ND	20	26.9	135	75-125	M1
1,2-Dichloroethane	ug/L	ND	20	28.0	140	75-125	M1
1,2-Dichloropropane	ug/L	ND	20	29.0	145	75-125	M1
1,3,5-Trimethylbenzene	ug/L	ND	20	27.0	135	75-125	M1
1,3-Dichlorobenzene	ug/L	ND	20	26.8	134	75-125	M1
1,3-Dichloropropane	ug/L	ND	20	28.0	140	75-125	M1
1,4-Dichlorobenzene	ug/L	ND	20	26.8	134	75-125	M1
2,2-Dichloropropane	ug/L	ND	20	31.8	159	72-145	M1
2-Butanone (MEK)	ug/L	ND	100	126	126	65-125	M1
2-Chloroethylvinyl ether	ug/L	ND	50	ND	3	30-150	M1
2-Chlorotoluene	ug/L	ND	20	27.0	135	75-125	M1
4-Chlorotoluene	ug/L	ND	20	27.0	135	75-125	M1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	124	124	72-125	
Acetone	ug/L	ND	100	148	143	75-125	M1
Allyl chloride	ug/L	ND	20	28.7	144	75-138	M1

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

MATRIX SPIKE SAMPLE: 1438088

Parameter	Units	10229076001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	29.6	148	75-129	M1
Bromobenzene	ug/L	ND	20	27.2	136	75-125	M1
Bromochloromethane	ug/L	ND	20	29.0	145	75-125	M1
Bromodichloromethane	ug/L	ND	20	26.7	134	75-125	M1
Bromoform	ug/L	ND	20	24.7	123	70-129	
Bromomethane	ug/L	ND	20	19.4	97	41-150	CL
Carbon tetrachloride	ug/L	ND	20	31.0	155	75-137	M1
Chlorobenzene	ug/L	ND	20	27.7	139	75-125	M1
Chloroethane	ug/L	ND	20	29.9	149	75-137	M1
Chloroform	ug/L	ND	20	29.4	147	75-130	M1
Chloromethane	ug/L	ND	20	26.2	131	57-150	
cis-1,2-Dichloroethene	ug/L	ND	20	30.5	152	73-139	M1
cis-1,3-Dichloropropene	ug/L	ND	20	24.9	125	75-125	
Dibromochloromethane	ug/L	ND	20	25.9	130	75-125	M1
Dibromomethane	ug/L	ND	20	28.2	141	75-125	M1
Dichlorodifluoromethane	ug/L	ND	20	30.4	152	72-150	M1
Dichlorofluoromethane	ug/L	ND	20	29.5	147	75-131	M1
Diethyl ether (Ethyl ether)	ug/L	ND	20	28.8	144	75-125	M1
Ethylbenzene	ug/L	ND	20	26.6	133	75-125	M1
Hexachloro-1,3-butadiene	ug/L	ND	20	32.0	160	74-135	M1
Isopropylbenzene (Cumene)	ug/L	ND	20	28.0	140	75-128	M1
m&p-Xylene	ug/L	ND	40	54.7	137	75-125	M1
Methyl-tert-butyl ether	ug/L	ND	20	25.9	129	75-127	M1
Methylene Chloride	ug/L	ND	20	28.7	144	74-128	M1
n-Butylbenzene	ug/L	ND	20	28.7	144	75-130	M1
n-Propylbenzene	ug/L	ND	20	28.0	140	75-127	M1
Naphthalene	ug/L	ND	20	25.9	129	64-127	M1
o-Xylene	ug/L	ND	20	27.8	139	75-125	M1
p-Isopropyltoluene	ug/L	ND	20	28.3	141	75-126	M1
sec-Butylbenzene	ug/L	ND	20	29.1	146	75-128	M1
Styrene	ug/L	ND	20	27.6	138	70-129	M1
tert-Butylbenzene	ug/L	ND	20	28.4	142	75-125	M1
Tetrachloroethene	ug/L	ND	20	28.1	140	75-132	M1
Tetrahydrofuran	ug/L	ND	200	314	157	68-125	M1
Toluene	ug/L	ND	20	28.2	141	75-125	M1
trans-1,2-Dichloroethene	ug/L	ND	20	30.6	153	75-140	M1
trans-1,3-Dichloropropene	ug/L	ND	20	26.2	131	75-125	M1
Trichloroethene	ug/L	ND	20	29.4	147	75-135	M1
Trichlorofluoromethane	ug/L	ND	20	30.0	150	75-148	M1
Vinyl chloride	ug/L	ND	20	31.2	156	75-144	M1
Xylene (Total)	ug/L	ND	60	82.5	137	75-125	ES
1,2-Dichloroethane-d4 (S)	%				97	75-125	
4-Bromofluorobenzene (S)	%				102	75-125	
Toluene-d8 (S)	%				99	75-125	

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(612)607-1700

QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

SAMPLE DUPLICATE: 1438087

Parameter	Units	10228911001 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	ND	ND		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	108	108	.6	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	CL
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	.64J		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		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: Stormwater
Pace Project No.: 10228353

SAMPLE DUPLICATE: 1438087

Parameter	Units	10228911001 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	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	101	.01		
4-Bromofluorobenzene (S)	%	103	103	.2		
Toluene-d8 (S)	%	100	100	.9		

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

QC Batch: OEXT/21835 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 10228353001

METHOD BLANK: 1443486 | Matrix: Water
Associated Lab Samples: 10228353001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	06/07/13 09:03	
1,2-Dichlorobenzene	ug/L	ND	10.0	06/07/13 09:03	
1,2-Diphenylhydrazine	ug/L	ND	10.0	06/07/13 09:03	
1,3-Dichlorobenzene	ug/L	ND	10.0	06/07/13 09:03	
1,4-Dichlorobenzene	ug/L	ND	10.0	06/07/13 09:03	
2,4,5-Trichlorophenol	ug/L	ND	50.0	06/07/13 09:03	
2,4,6-Trichlorophenol	ug/L	ND	10.0	06/07/13 09:03	
2,4-Dichlorophenol	ug/L	ND	10.0	06/07/13 09:03	
2,4-Dimethylphenol	ug/L	ND	10.0	06/07/13 09:03	
2,4-Dinitrophenol	ug/L	ND	50.0	06/07/13 09:03	
2,4-Dinitrotoluene	ug/L	ND	10.0	06/07/13 09:03	
2,6-Dinitrotoluene	ug/L	ND	10.0	06/07/13 09:03	
2-Chloronaphthalene	ug/L	ND	10.0	06/07/13 09:03	
2-Chlorophenol	ug/L	ND	10.0	06/07/13 09:03	
2-Methylnaphthalene	ug/L	ND	10.0	06/07/13 09:03	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/07/13 09:03	
2-Nitroaniline	ug/L	ND	50.0	06/07/13 09:03	
2-Nitrophenol	ug/L	ND	10.0	06/07/13 09:03	
3&4-Methylphenol	ug/L	ND	20.0	06/07/13 09:03	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/07/13 09:03	
3-Nitroaniline	ug/L	ND	50.0	06/07/13 09:03	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	06/07/13 09:03	
4-Bromophenylphenyl ether	ug/L	ND	10.0	06/07/13 09:03	
4-Chloro-3-methylphenol	ug/L	ND	10.0	06/07/13 09:03	
4-Chloroaniline	ug/L	ND	50.0	06/07/13 09:03	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	06/07/13 09:03	
4-Nitroaniline	ug/L	ND	50.0	06/07/13 09:03	
4-Nitrophenol	ug/L	ND	50.0	06/07/13 09:03	
Acenaphthene	ug/L	ND	10.0	06/07/13 09:03	
Acenaphthylene	ug/L	ND	10.0	06/07/13 09:03	
Anthracene	ug/L	ND	10.0	06/07/13 09:03	
Benzo(a)anthracene	ug/L	ND	10.0	06/07/13 09:03	
Benzo(a)pyrene	ug/L	ND	10.0	06/07/13 09:03	
Benzo(b)fluoranthene	ug/L	ND	10.0	06/07/13 09:03	
Benzo(g,h,i)perylene	ug/L	ND	10.0	06/07/13 09:03	
Benzo(k)fluoranthene	ug/L	ND	10.0	06/07/13 09:03	
Benzoic acid	ug/L	ND	50.0	06/07/13 09:03	
Benzyl alcohol	ug/L	ND	10.0	06/07/13 09:03	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	06/07/13 09:03	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	06/07/13 09:03	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	06/07/13 09:03	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	06/07/13 09:03	
Butylbenzylphthalate	ug/L	ND	10.0	06/07/13 09:03	

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

METHOD BLANK: 1443486 Matrix: Water

Associated Lab Samples: 10228353001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Carbazole	ug/L	ND	10.0	06/07/13 09:03	
Chrysene	ug/L	ND	10.0	06/07/13 09:03	
Di-n-butylphthalate	ug/L	ND	10.0	06/07/13 09:03	
Di-n-octylphthalate	ug/L	ND	10.0	06/07/13 09:03	
Dibenz(a,h)anthracene	ug/L	ND	20.0	06/07/13 09:03	
Dibenzofuran	ug/L	ND	10.0	06/07/13 09:03	
Diethylphthalate	ug/L	ND	10.0	06/07/13 09:03	
Dimethylphthalate	ug/L	ND	10.0	06/07/13 09:03	
Fluoranthene	ug/L	ND	10.0	06/07/13 09:03	
Fluorene	ug/L	ND	10.0	06/07/13 09:03	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	06/07/13 09:03	
Hexachlorobenzene	ug/L	ND	10.0	06/07/13 09:03	
Hexachlorocyclopentadiene	ug/L	ND	50.0	06/07/13 09:03	
Hexachloroethane	ug/L	ND	10.0	06/07/13 09:03	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	06/07/13 09:03	
Isophorone	ug/L	ND	10.0	06/07/13 09:03	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	06/07/13 09:03	
N-Nitrosodimethylamine	ug/L	ND	10.0	06/07/13 09:03	
N-Nitrosodiphenylamine	ug/L	ND	10.0	06/07/13 09:03	
Naphthalene	ug/L	ND	10.0	06/07/13 09:03	
Nitrobenzene	ug/L	ND	10.0	06/07/13 09:03	
Pentachlorophenol	ug/L	ND	23.0	06/07/13 09:03	
Phenanthrene	ug/L	ND	10.0	06/07/13 09:03	
Phenol	ug/L	ND	10.0	06/07/13 09:03	
Pyrene	ug/L	ND	10.0	06/07/13 09:03	
2,4,6-Tribromophenol (S)	%	144	52-125	06/07/13 09:03	S3
2-Fluorobiphenyl (S)	%	122	67-125	06/07/13 09:03	
2-Fluorophenol (S)	%	113	30-125	06/07/13 09:03	
Nitrobenzene-d5 (S)	%	115	61-125	06/07/13 09:03	
Phenol-d6 (S)	%	121	30-137	06/07/13 09:03	
Terphenyl-d14 (S)	%	155	64-125	06/07/13 09:03	S3

LABORATORY CONTROL SAMPLE & LCSD: 1443487 1443488

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	41.0	40.4	82	81	59-125	2	20	
1,2-Dichlorobenzene	ug/L	50	39.5	38.2	79	76	53-125	3	20	
1,2-Diphenylhydrazine	ug/L	50	55.2	49.3	110	99	69-125	11	20	
1,3-Dichlorobenzene	ug/L	50	38.8	37.3	78	75	51-125	4	20	
1,4-Dichlorobenzene	ug/L	50	38.8	38.1	78	76	52-125	2	20	
2,4,5-Trichlorophenol	ug/L	50	51.5	49.8J	103	100	68-125		20	
2,4,6-Trichlorophenol	ug/L	50	50.5	49.9	101	100	68-125	1	20	
2,4-Dichlorophenol	ug/L	50	45.4	45.5	91	91	67-125	2	20	
2,4-Dimethylphenol	ug/L	50	12.5	25.3	25	51	32-125	67	20	L0,R1
2,4-Dinitrophenol	ug/L	50	38.3J	9.8J	77	20	30-142		20	CH,L0

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

LABORATORY CONTROL SAMPLE & LCSD: 1443487 1443488

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4-Dinitrotoluene	ug/L	50	58.6	50.4	117	101	69-125	15	20	
2,6-Dinitrotoluene	ug/L	50	54.2	49.7	108	99	69-125	9	20	
2-Chloronaphthalene	ug/L	50	48.4	45.0	97	90	69-125	7	20	
2-Chlorophenol	ug/L	50	40.0	40.2	80	80	58-125	.6	20	
2-Methylnaphthalene	ug/L	50	47.8	48.3	96	97	67-125	1	20	
2-Methylphenol(o-Cresol)	ug/L	50	38.8	40.0	78	80	56-125	3	20	
2-Nitroaniline	ug/L	50	57.1	50.9	114	102	63-125	11	20	
2-Nitrophenol	ug/L	50	47.2	29.1	94	58	55-125	47	20	R1
3&4-Methylphenol	ug/L	50	41.8	42.7	84	85	59-125	2	20	
3,3'-Dichlorobenzidine	ug/L	50	51.6	52.2	103	104	30-150	1	20	
3-Nitroaniline	ug/L	50	53.7	56.5	107	113	30-150	5	20	
4,6-Dinitro-2-methylphenol	ug/L	50	46.3J	10.7J	93	21	30-150		20	L0
4-Bromophenylphenyl ether	ug/L	50	50.6	48.4	101	97	71-125	4	20	
4-Chloro-3-methylphenol	ug/L	50	51.9	49.7	104	99	69-125	4	20	
4-Chloroaniline	ug/L	50	42.9J	48.6J	86	97	30-150		20	
4-Chlorophenylphenyl ether	ug/L	50	51.9	50.3	104	101	72-125	3	20	
4-Nitroaniline	ug/L	50	54.3	54.0	109	108	30-138	.4	20	
4-Nitrophenol	ug/L	50	56.1	47.5J	112	95	62-125		20	
Acenaphthene	ug/L	50	50.1	46.0	100	92	68-125	9	20	
Acenaphthylene	ug/L	50	49.5	46.3	99	93	69-125	7	20	
Anthracene	ug/L	50	49.8	47.7	100	95	71-125	4	20	
Benzo(a)anthracene	ug/L	50	51.3	49.4	103	99	73-125	4	20	
Benzo(a)pyrene	ug/L	50	50.7	48.7	101	97	71-125	4	20	
Benzo(b)fluoranthene	ug/L	50	52.9	51.7	106	103	73-125	2	20	
Benzo(g,h,i)perylene	ug/L	50	55.8	51.9	112	104	72-125	7	20	
Benzo(k)fluoranthene	ug/L	50	53.8	48.9	108	98	72-125	10	20	
Benzoic acid	ug/L	50	39.4J	48.6J	79	97	30-125		20	
Benzyl alcohol	ug/L	50	45.9	43.4	92	87	64-125	6	20	
bis(2-Chloroethoxy)methane	ug/L	50	46.7	45.0	93	90	64-125	4	20	
bis(2-Chloroethyl) ether	ug/L	50	40.4	38.2	81	76	53-125	6	20	
bis(2-Chloroisopropyl) ether	ug/L	50	39.5	37.7	79	75	37-125	5	20	
bis(2-Ethylhexyl)phthalate	ug/L	50	55.4	51.6	111	103	68-125	7	20	
Butylbenzylphthalate	ug/L	50	53.7	50.8	107	102	65-125	6	20	
Carbazole	ug/L	50	51.8	49.0	104	98	70-125	6	20	
Chrysene	ug/L	50	52.2	50.3	104	101	75-125	4	20	
Di-n-butylphthalate	ug/L	50	55.0	51.4	110	103	69-125	7	20	
Di-n-octylphthalate	ug/L	50	55.5	52.5	111	105	67-125	6	20	
Dibenz(a,h)anthracene	ug/L	50	54.7	51.6	109	103	72-125	6	20	
Dibenzofuran	ug/L	50	50.9	48.3	102	97	71-125	5	20	
Diethylphthalate	ug/L	50	55.5	51.1	111	102	73-125	8	20	
Dimethylphthalate	ug/L	50	52.2	50.0	104	100	73-125	4	20	
Fluoranthene	ug/L	50	53.5	50.5	107	101	74-125	6	20	
Fluorene	ug/L	50	52.1	49.6	104	99	72-125	5	20	
Hexachloro-1,3-butadiene	ug/L	50	40.6	39.6	81	79	57-125	3	20	
Hexachlorobenzene	ug/L	50	51.5	49.7	103	99	72-125	4	20	
Hexachlorocyclopentadiene	ug/L	50	8.1J	ND	16	8	30-125		20	L0
Hexachloroethane	ug/L	50	39.6	33.4	79	67	37-125	17	20	
Indeno(1,2,3-cd)pyrene	ug/L	50	55.0	51.5	110	103	72-125	6	20	

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

LABORATORY CONTROL SAMPLE & LCSD: 1443487 1443488

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Isophorone	ug/L	50	50.2	45.6	100	91	69-125	10	20	
N-Nitroso-di-n-propylamine	ug/L	50	46.0	43.8	92	88	63-125	5	20	
N-Nitrosodimethylamine	ug/L	50	42.8	40.0	86	80	49-125	7	20	
N-Nitrosodiphenylamine	ug/L	50	48.5	46.7	97	93	68-125	4	20	
Naphthalene	ug/L	50	42.4	41.5	85	83	61-125	2	20	
Nitrobenzene	ug/L	50	45.2	41.7	90	83	62-125	8	20	
Pentachlorophenol	ug/L	50	48.2	54.5	96	109	37-128	12	20	
Phenanthrene	ug/L	50	51.8	49.1	104	98	73-125	5	20	
Phenol	ug/L	50	42.3	40.9	85	82	60-125	3	20	
Pyrene	ug/L	50	51.3	49.0	103	98	69-125	5	20	
2,4,6-Tribromophenol (S)	%				123	121	52-125			
2-Fluorobiphenyl (S)	%				100	93	67-125			
2-Fluorophenol (S)	%				83	80	30-125			
Nitrobenzene-d5 (S)	%				91	82	61-125			
Phenol-d6 (S)	%				92	87	30-137			
Terphenyl-d14 (S)	%				116	110	64-125			

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QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

QC Batch: WET/30494
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 10228353001

LABORATORY CONTROL SAMPLE: 1435724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	100	98-102	H6

SAMPLE DUPLICATE: 1435722

Parameter	Units	10228050001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.0	1	3	H6

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

QUALITY CONTROL DATA

Project: Stormwater
Pace Project No.: 10228353

QC Batch: WETA/14945
QC Batch Method: SM 4500-CN-E
Analysis Method: SM 4500-CN-E
Analysis Description: SM4500CN-E Cyanide
Associated Lab Samples: 10228353001

METHOD BLANK: 1437616
Matrix: Water
Associated Lab Samples: 10228353001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	05/22/13 15:52	

LABORATORY CONTROL SAMPLE: 1437617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	250	236	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1437618 1437619

Parameter	Units	10228353001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	118	250	250	419	346	120	91	80-120	19	30	1M

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1437620 1437621

Parameter	Units	10229207006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	36.7	250	250	303	307	107	108	80-120	1	30	

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Stormwater
Pace Project No.: 10228353

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.

BATCH QUALIFIERS

Batch: MSSV/9333

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

ANALYTE QUALIFIERS

1M	Sample was spiked post-distillation due to laboratory error.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D4	Sample was diluted due to the presence of high levels of target analytes.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
H2	Extraction or preparation was conducted outside of the recognized method holding time.
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.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stormwater
Pace Project No.: 10228353

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10228353001	**SAMPLE #1**	EPA 200.7	MPRP/39368	EPA 200.7	ICP/16506
10228353001	**SAMPLE #1**	EPA 625	OEXT/21835	EPA 625	MSSV/9333
10228353001	**SAMPLE #1**	EPA 624	MSV/23764		
10228353001	**SAMPLE #1**	SM 4500-H+B	WET/30494		
10228353001	**SAMPLE #1**	SM 4500-CN-E	WETA/14945		

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7152

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1586524

Pace Analytical®
www.pacelabs.com

Section A
Required Client Information:
Company: Libman
Address: 220 N Sheldon St.
Arcola, IL 61910
Email To:
Phone: 217-268-2169 Fax:
Requested Due Date/TAT:

Section B
Required Project Information:
Report To: Mark Wathen
Copy To: Matt Smith Safety clean
Purchase Order No.:
Project Name:
Project Number:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE:

Requested Analysis Filtered (Y/N)

Section D
Required Client Information

Matrix Codes
MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

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

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	764293	WW	G	5/8/13	1pm	5/8/13	1pm	72	1	✓										
2	764288	"	"	"	"	"	"	72	1	✓										
3	764292	"	"	"	"	"	"	72	1	✓										
4	764287	"	"	"	"	"	"	72	1				✓							
5	349637	"	"	"	"	"	"	72	1				✓							
6	349638	"	"	"	"	"	"	72	1					✓						
7	349634	"	"	"	"	"	"	72	1				✓							
8	790679	"	"	"	"	"	"	72	1	✓										
9	315134	"	"	"	"	"	"	72	1	✓										
10	2605910	"	"	"	"	"	"	72												
11	764294																			
12																				

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
			TN Pace	5/8/13	9:03	Temp in °C: 22; Received on Ice (Y/N): Y; Custody Sealed Cooler (Y/N): Y; Y

ADDITIONAL COMMENTS

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kevin Good
SIGNATURE of SAMPLER: Kevin Good
DATE Signed (MM/DD/YY): 5/8/13.

F-ALL-Q-020rev.07, 15-May-200

Pace Analytical 1700 Elm St. Ste 200 Minneapolis, MN 55414 (612) 607-1700

BOTTLE ORDER # 52007

5/23/2012 10:08:43 AM

Contact: Puhl, Ben
Company: United States Compliance
Address: 4350 Baker Rd. Suite 100
City, St, Zip: Minnetonka, MN, 55343
Phone: (952) 567-5633 **Ext.**
Initiator: Diane J. Anderson **PM:** DA1

Ship To:
Contact: Gauna, Janice
Company: The Libman Company
Address: 220 North Sheldon Suite 100
City, St, Zip: Arcola, IL, 61910
Phone: (952) 567-5633 **Ext.**

Return To:
Contact:
Lab Name: PACE - MN
Address: 1700 Elm Street Ste 200
City, St, Zip: Minneapolis, MN, 55414
Phone: (612) 607-1700 **Ext.**

Proj. Description: Libman Co Arcola Ill
Quote Number:
Profile Number:
Shipping Method: FedEx
Needs Bottles by: 04/25/2013 - PM
Expected Date Ret:

Return Shipping Labels
- [x] No Shipper #
- [ ] With Shipper #

COC's
- [x] Blank # 1
- [ ] Preprinted

Bottle Labels
- [ ] Blank
- [ ] Pre-Printed - With Sample IDs
- [x] Pre-Printed - No Sample IDs

Bottles
- [ ] Boxed Cases
- [x] Individually Wrapped
- [ ] Grouped By Sample ID / Matrix

Trip Blank [ ]

Misc
- [x] Sampling Instructions
- [ ] Custody Seal
- [x] Temp. Blanks
- [x] Coolers:
- [ ] Extra Bubble Wrap
- [ ] 10 mL Cut-Off Syringes
- [ ] Short Hold / Rush Stickers
- [ ] DI Water 0 Liter(s)

Qty	Total	Matrix	Method	BottleType	LotNumber	Note
1	1	Water	pH by 4500H+pH	250mL plastic unpres.		
1	1	Water	Metals	250mL plastic HNO3-nitric acid		
1	1	Water	Cyanide, total by SM 4500 CNC	250mL plastic NaOH-sodium hydroxide		
1	3	Water	VOC by 624	3-40ml clear vial HCl-hydrochloric acid		
1	2	Water	SVOC by 625	2-1L amber glass unpres.		
3	3	Water	other extractable organics	1L amber glass unpres.		

Notes: Ship to alternate address.
Include 12 Tips sheet.

Hazard Shipping Placard In Place : YES

Shipped Date: 4/23/1
Shipped By:
Verified By:

*Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with you project manager.
*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.
*Payment term are net 30 days.
*Please include the proposal number on the chain of custody to insure proper billing.

FALLC005rev.00 11March2008

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form Document No.: F-MN-L-213-rev.06	Page 1 of 1 Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Project #: **WO#: 10228353**

10228353

Client Name: Lehman

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

Tracking Number: 12 6651 922 0 3 4895 8042

Optional: Proj. Due Date: Proj. Name:

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: Blue ☐ None ☐ Samples on ice, cooling process has begun

Thermom. Used: ☐ B88A912167504 ☐ 80512447 ☒ 92337080 Type of Ice: ☒ Wet Biological Tissue Frozen? ☐ Yes ☐ No

Cooler Temp Read (°C): 1.6 Cooler Temp Corrected (°C): 2.2 Date and Initials of Person Examining Contents: 5/13 TN

Correction Factor: +.6

Temp should be above freezing to 6°C

				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	10.
Containers Intact?	☒ Yes	☐ No	☐ N/A	11.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	12.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	13.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☒ Yes	☐ No	☐ N/A	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☒ Yes	☐ No		
Headspace in VOA Vials (>6mm)?	☐ Yes	☒ No	☐ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

☒ HNO_3 ☐ H_2SO_4 ☒ NaOH ☐ HCl

Sample # 790679 I
315139 I

Initial when completed: TN Lot # of added preservative:

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION Date/Time:

Person Contacted:

Comments/Resolution:

Date: 5/22/13

Project Manager Review:

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 Of
hold, incorrect preservative, out of temp, incorrect containers)

INVOICE

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

www.pacelabs.com

Invoice Number: 13100031872
Date: 06/07/2013
Total Amount Due: $438.00

Sold To:
Mark Wathen
The Libman Compan
220 Nort Sheldon St.
Arcola, IL 61910
(217)268-2167

Please Remit To:
Pace Analytical Services, Inc.
P.O. Box 684056
Chicago, IL 60695-4056

Client Number/Client ID	Purchase Order No	Pace Project Mgr	Terms	Page
10-112516 / LIBMAN CO		Nicole Benjamin	Net 30 Days**	1

Client Project: Stormwater
Client Name: The Libman Company
Pace Project No: 10228353
Sample Received: 5/11/2013
Report Sent To: Mark Wathen, The Libman Compan
Comments:

ANALYTICAL CHARGES

Quantity	Unit	Description	Method	Matrix	Price	Total
1	Ea	200.7 MET ICP	EPA 200.7	Water	$78.00	$78.00
1	Ea	4500H+B pH, Electrometric	SM 4500-H+B	Water	$5.00	$5.00
1	Ea	624 MSV	EPA 624	Water	$130.00	$130.00
1	Ea	625 MSSV	EPA 625	Water	$195.00	$195.00
1	Ea	SM4500CN-E Cyanide	SM 4500-CN-E	Water	$30.00	$30.00
					Analytical Subtotal	$438.00

Total Number of Charges 5 **Total Invoice Amount** **$438.00**

If you have any questions or to pay by credit card, please contact Nicole Benjamin at Pace.
Phone: (612)607-6452 Email: nicole.benjamin@pacelabs.com

****1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS OR TERMS OF CONTRACT.**
PLEASE REFERENCE THE INVOICE NUMBER ON ALL REMITTANCE ADVICE.

AN EQUAL OPPORTUNITY EMPLOYER

Please complete and return copy of invoice with your payment.

INVOICE TOTAL **$438.00**

Amount Paid: $ _____

Check No: _____

Customer No: 10-112516 Invoice No: 13100031872

Pace Analytical®

BOTTLE ORDER # 52007

5/23/2012 10:08:22 AM

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

Contact:	Puhl, Ben	**Ship To:**		**Return To:**	
Company:	United States Compliance	**Contact:**	Gauna, Janice	**Contact:**	
Address:	4350 Baker Rd.	**Company:**	The Libman Company	**Lab Name:**	PACE - MN
	Suite 100	**Address:**	220 North Sheldon	**Address:**	1700 Elm Street
City, St, Zip:	Minnetonka ,MN,55343		Suite 100		Ste 200
Phone:	(952) 567-5633 **Ext.**	**City, St, Zip:**	Arcola , IL ,61910	**City, St, Zip:**	Minneapolis ,MN ,55414
Initiator:	Diane J. Anderson **PM:** DAT	**Phone:**	(952) 567-5633 **Ext.**	**Phone:**	(612) 607-1700 **Ext.**

Proj. Description: Libman Co Arcola Ill **Quote Number:** **Profile Number:**

Needs Bottles by: 05/25/2012 - PM **Expected Date Rec:** **Shipping Method:** FedEx

Return Shipping Labels
- ☑ No Shipper #
- ☐ With Shipper #

COC's
- ☑ Blank # 1
- ☐ Preprinted

Bottle Labels
- ☐ Blank
- ☐ Pre-Printed - With Sample IDs
- ☑ Pre-Printed - No Sample IDs

Bottles
- ☐ Boxed Cases
- ☑ Individually Wrapped
- ☐ Grouped By Sample ID / Matrix

Misc
- ☑ Sampling Instructions
- ☑ Coolers:
- ☐ Custody Seal
- ☐ Extra Bubble Wrap
- ☐ Short Hold / Rush Stickers
- ☑ Temp. Blanks
- ☐ 10 mL Cut-Off Syringes
- ☐ DI Water 0 Liter(s)

Trip Blank ☐

Qty	Total	Matrix	Method	BottleType	LotNumber	Note
1	1	Water	pH by 4500H+pH	250mL plastic unpres.		
1	1	Water	Metals	250mL plastic HNO3-nitric acid		
1	1	Water	Cyanide, total by SM 4500 CNC	250mL plastic NaOH-sodium hydroxide		
1	3	Water	VOC by 624	3-40ml clear vial HCl-hydrochloric acid		
1	2	Water	SVOC by 625	2-1L amber glass unpres.		
3	3	Water	other extractable organics	1L amber glass unpres.		

Notes: Ship to alternate address.
Include 12 Tips sheet.

Hazard Shipping Placard In Place : YES

*Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with you project manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

Shipped Date: 05/30/12
Shipped By:
Verified By: