

July 12, 2013

Eric Grosjean
Atmospheric Analysis & Consult
1534 Eastman Ave
Suite A
Ventura, CA 93003

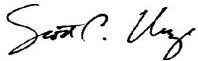
RE: Project: DNR
Pace Project No.: 10232724

Dear Eric Grosjean:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 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,



Scott Unze

scott.unze@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: DNR
Pace Project No.: 10232724

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
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: DNR
Pace Project No.: 10232724

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10232724001	U1-A PUF	Air	06/18/13 08:27	06/19/13 08:45
10232724002	D1-A PUF	Air	06/18/13 12:00	06/19/13 08:45
10232724003	BZ-1A PUF	Air	06/18/13 11:32	06/19/13 08:45
10232724004	F1-A PUF,LIQ	Air	06/17/13 14:11	06/19/13 08:45
10232724005	F2-A PUF,LIQ	Air	06/17/13 16:58	06/19/13 08:45
10232724006	F3-A PUF,LIQ	Air	06/18/13 11:00	06/19/13 08:45
10232724007	Blank	Air	06/17/13 00:00	06/19/13 08:45

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SAMPLE ANALYTE COUNT

Project: DNR
Pace Project No.: 10232724

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10232724001	U1-A PUF	TO-13	JMZ	21
10232724002	D1-A PUF	TO-13	JMZ	21
10232724003	BZ-1A PUF	TO-13	AJP	21
10232724004	F1-A PUF,LIQ	TO-13	AJP	21
10232724005	F2-A PUF,LIQ	TO-13	AJP, JMZ	21
10232724007	Blank	TO-13	JMZ	21

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DNR
Pace Project No.: 10232724

Sample: U1-A PUF		Lab ID: 10232724001	Collected: 06/18/13 08:27	Received: 06/19/13 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO13 MSSV AIR		Analytical Method: TO-13 Preparation Method: TO-13						
Acenaphthene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	83-32-9	
Acenaphthylene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	208-96-8	
Anthracene	11.5 Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	120-12-7	
Benzo(a)anthracene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	56-55-3	
Benzo(a)pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	50-32-8	
Benzo(b)fluoranthene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	205-99-2	
Benzo(e)pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	192-97-2	
Benzo(g,h,i)perylene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	191-24-2	
Benzo(k)fluoranthene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	207-08-9	
Chrysene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	218-01-9	
Dibenz(a,h)anthracene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	53-70-3	
Fluoranthene	22.3 Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	206-44-0	
Fluorene	1.3 Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	193-39-5	
1-Methylnaphthalene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	90-12-0	
2-Methylnaphthalene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	91-57-6	
Naphthalene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	91-20-3	
Phenanthrene	95.4 Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	85-01-8	
Pyrene	11.0 Total ug		1.0	10	06/24/13 19:27	07/11/13 13:15	129-00-0	
Surrogates								
Terphenyl-d14 (S)	99 %		60-120	10	06/24/13 19:27	07/11/13 13:15	1718-51-0	
2-Fluorobiphenyl (S)	94 %		60-120	10	06/24/13 19:27	07/11/13 13:15	321-60-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DNR
Pace Project No.: 10232724

Sample: D1-A PUF		Lab ID: 10232724002	Collected: 06/18/13 12:00	Received: 06/19/13 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO13 MSSV AIR		Analytical Method: TO-13 Preparation Method: TO-13						
Acenaphthene	0.32 Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	83-32-9	
Acenaphthylene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	208-96-8	
Anthracene	0.34 Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	120-12-7	
Benzo(a)anthracene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	56-55-3	
Benzo(a)pyrene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	50-32-8	
Benzo(b)fluoranthene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	205-99-2	
Benzo(e)pyrene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	192-97-2	
Benzo(g,h,i)perylene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	191-24-2	
Benzo(k)fluoranthene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	207-08-9	
Chrysene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	218-01-9	
Dibenz(a,h)anthracene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	53-70-3	
Fluoranthene	2.2 Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	206-44-0	
Fluorene	1.1 Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	193-39-5	
1-Methylnaphthalene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	90-12-0	
2-Methylnaphthalene	0.15 Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	91-57-6	
Naphthalene	0.13 Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	91-20-3	
Phenanthrene	9.2 Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	85-01-8	
Pyrene	0.84 Total ug		0.10	1	06/24/13 19:27	07/11/13 02:07	129-00-0	
Surrogates								
Terphenyl-d14 (S)	91 %		60-120	1	06/24/13 19:27	07/11/13 02:07	1718-51-0	
2-Fluorobiphenyl (S)	79 %		60-120	1	06/24/13 19:27	07/11/13 02:07	321-60-8	

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ANALYTICAL RESULTS

Project: DNR
Pace Project No.: 10232724

Sample: BZ-1A PUF		Lab ID: 10232724003	Collected: 06/18/13 11:32	Received: 06/19/13 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO13 MSSV AIR		Analytical Method: TO-13 Preparation Method: TO-13						
Acenaphthene	0.49 Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	83-32-9	
Acenaphthylene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	208-96-8	
Anthracene	0.54 Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	120-12-7	
Benzo(a)anthracene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	56-55-3	
Benzo(a)pyrene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	50-32-8	
Benzo(b)fluoranthene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	205-99-2	
Benzo(e)pyrene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	192-97-2	
Benzo(g,h,i)perylene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	191-24-2	
Benzo(k)fluoranthene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	207-08-9	
Chrysene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	218-01-9	
Dibenz(a,h)anthracene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	53-70-3	
Fluoranthene	2.0 Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	206-44-0	
Fluorene	0.98 Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	193-39-5	
1-Methylnaphthalene	0.23 Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	90-12-0	
2-Methylnaphthalene	0.52 Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	91-57-6	
Naphthalene	0.56 Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	91-20-3	
Phenanthrene	7.7 Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	85-01-8	
Pyrene	0.80 Total ug		0.10	1	06/24/13 19:27	07/11/13 17:27	129-00-0	
Surrogates								
Terphenyl-d14 (S)	83 %		60-120	1	06/24/13 19:27	07/11/13 17:27	1718-51-0	
2-Fluorobiphenyl (S)	78 %		60-120	1	06/24/13 19:27	07/11/13 17:27	321-60-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DNR
Pace Project No.: 10232724

Sample: F1-A PUF,LIQ		Lab ID: 10232724004	Collected: 06/17/13 14:11	Received: 06/19/13 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO13 MSSV AIR		Analytical Method: TO-13 Preparation Method: TO-13						
Acenaphthene	121 Total ug		10.0	100	06/24/13 19:27	07/12/13 13:02	83-32-9	
Acenaphthylene	3.4 Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	208-96-8	
Anthracene	2.7 Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	120-12-7	
Benzo(a)anthracene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	56-55-3	
Benzo(a)pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	50-32-8	
Benzo(b)fluoranthene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	205-99-2	
Benzo(e)pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	192-97-2	
Benzo(g,h,i)perylene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	191-24-2	
Benzo(k)fluoranthene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	207-08-9	
Chrysene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	218-01-9	
Dibenz(a,h)anthracene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	53-70-3	
Fluoranthene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	206-44-0	
Fluorene	66.9 Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	86-73-7	
Indeno(1,2,3-cd)pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	193-39-5	
1-Methylnaphthalene	109 Total ug		10.0	100	06/24/13 19:27	07/12/13 13:02	90-12-0	
2-Methylnaphthalene	219 Total ug		10.0	100	06/24/13 19:27	07/12/13 13:02	91-57-6	
Naphthalene	752 Total ug		10.0	100	06/24/13 19:27	07/12/13 13:02	91-20-3	
Phenanthrene	17.9 Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	85-01-8	
Pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 15:20	129-00-0	
Surrogates								
Terphenyl-d14 (S)	98 %		60-120	10	06/24/13 19:27	07/11/13 15:20	1718-51-0	
2-Fluorobiphenyl (S)	128 %		60-120	10	06/24/13 19:27	07/11/13 15:20	321-60-8	S5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DNR
Pace Project No.: 10232724

Sample: F2-A PUF,LIQ		Lab ID: 10232724005	Collected: 06/17/13 16:58	Received: 06/19/13 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO13 MSSV AIR		Analytical Method: TO-13 Preparation Method: TO-13						
Acenaphthene	34.3 Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	83-32-9	
Acenaphthylene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	208-96-8	
Anthracene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	120-12-7	
Benzo(a)anthracene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	56-55-3	
Benzo(a)pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	50-32-8	
Benzo(b)fluoranthene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	205-99-2	
Benzo(e)pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	192-97-2	
Benzo(g,h,i)perylene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	191-24-2	
Benzo(k)fluoranthene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	207-08-9	
Chrysene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	218-01-9	
Dibenz(a,h)anthracene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	53-70-3	
Fluoranthene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	206-44-0	
Fluorene	8.2 Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	193-39-5	
1-Methylnaphthalene	65.8 Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	90-12-0	
2-Methylnaphthalene	109 Total ug		5.0	50	06/24/13 19:27	07/11/13 15:41	91-57-6	
Naphthalene	220 Total ug		5.0	50	06/24/13 19:27	07/11/13 15:41	91-20-3	
Phenanthrene	1.8 Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	85-01-8	
Pyrene	ND Total ug		1.0	10	06/24/13 19:27	07/11/13 12:33	129-00-0	
Surrogates								
Terphenyl-d14 (S)	99 %		60-120	10	06/24/13 19:27	07/11/13 12:33	1718-51-0	
2-Fluorobiphenyl (S)	103 %		60-120	10	06/24/13 19:27	07/11/13 12:33	321-60-8	

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ANALYTICAL RESULTS

Project: DNR
Pace Project No.: 10232724

Sample: Blank		Lab ID: 10232724007	Collected: 06/17/13 00:00	Received: 06/19/13 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO13 MSSV AIR		Analytical Method: TO-13 Preparation Method: TO-13						
Acenaphthene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	83-32-9	
Acenaphthylene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	208-96-8	
Anthracene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	120-12-7	
Benzo(a)anthracene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	56-55-3	
Benzo(a)pyrene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	50-32-8	
Benzo(b)fluoranthene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	205-99-2	
Benzo(e)pyrene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	192-97-2	
Benzo(g,h,i)perylene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	191-24-2	
Benzo(k)fluoranthene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	207-08-9	
Chrysene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	218-01-9	
Dibenz(a,h)anthracene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	53-70-3	
Fluoranthene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	206-44-0	
Fluorene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	193-39-5	
1-Methylnaphthalene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	90-12-0	
2-Methylnaphthalene	5.7 Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	91-57-6	
Naphthalene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	91-20-3	
Phenanthrene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	85-01-8	
Pyrene	ND Total ug		2.0	20	06/24/13 19:27	07/11/13 12:54	129-00-0	
Surrogates								
Terphenyl-d14 (S)	94 %		60-120	20	06/24/13 19:27	07/11/13 12:54	1718-51-0	
2-Fluorobiphenyl (S)	88 %		60-120	20	06/24/13 19:27	07/11/13 12:54	321-60-8	

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QUALITY CONTROL DATA

Project: DNR
Pace Project No.: 10232724

QC Batch: OEXT/22084 Analysis Method: TO-13
QC Batch Method: TO-13 Analysis Description: TO13 MSS AIR
Associated Lab Samples: 10232724001, 10232724002, 10232724003, 10232724004, 10232724005, 10232724007

METHOD BLANK: 1464433 Matrix: Air
Associated Lab Samples: 10232724001, 10232724002, 10232724003, 10232724004, 10232724005, 10232724007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	Total ug	ND	0.10	07/11/13 11:31	
2-Methylnaphthalene	Total ug	ND	0.10	07/11/13 11:31	
Acenaphthene	Total ug	ND	0.10	07/11/13 11:31	
Acenaphthylene	Total ug	ND	0.10	07/11/13 11:31	
Anthracene	Total ug	ND	0.10	07/11/13 11:31	
Benzo(a)anthracene	Total ug	ND	0.10	07/11/13 11:31	
Benzo(a)pyrene	Total ug	ND	0.10	07/11/13 11:31	
Benzo(b)fluoranthene	Total ug	ND	0.10	07/11/13 11:31	
Benzo(e)pyrene	Total ug	ND	0.10	07/11/13 11:31	
Benzo(g,h,i)perylene	Total ug	ND	0.10	07/11/13 11:31	
Benzo(k)fluoranthene	Total ug	ND	0.10	07/11/13 11:31	
Chrysene	Total ug	ND	0.10	07/11/13 11:31	
Dibenz(a,h)anthracene	Total ug	ND	0.10	07/11/13 11:31	
Fluoranthene	Total ug	ND	0.10	07/11/13 11:31	
Fluorene	Total ug	ND	0.10	07/11/13 11:31	
Indeno(1,2,3-cd)pyrene	Total ug	ND	0.10	07/11/13 11:31	
Naphthalene	Total ug	ND	0.10	07/11/13 11:31	
Phenanthrene	Total ug	ND	0.10	07/11/13 11:31	
Pyrene	Total ug	ND	0.10	07/11/13 11:31	
2-Fluorobiphenyl (S)	%	71	60-120	07/11/13 11:31	
Terphenyl-d14 (S)	%	86	60-120	07/11/13 11:31	

LABORATORY CONTROL SAMPLE & LCSD: 1464434 1464435

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	Total ug	1	0.69	0.94	69	94	60-120	30	30	
2-Methylnaphthalene	Total ug	1	0.89	1.0	89	103	60-120	15	30	
Acenaphthene	Total ug	1	0.81	0.92	81	92	60-120	13	30	
Acenaphthylene	Total ug	1	0.75	0.78	75	78	60-120	5	30	
Anthracene	Total ug	1	0.83	0.83	83	83	60-120	.2	30	
Benzo(a)anthracene	Total ug	1	0.84	0.92	84	92	60-120	10	30	
Benzo(a)pyrene	Total ug	1	0.84	0.97	84	97	60-120	14	30	
Benzo(b)fluoranthene	Total ug	1	0.92	0.96	92	96	60-120	5	30	
Benzo(e)pyrene	Total ug	1	0.84	0.99	84	99	60-120	16	30	
Benzo(g,h,i)perylene	Total ug	1	0.81	0.99	81	99	60-120	20	30	
Benzo(k)fluoranthene	Total ug	1	0.89	0.92	89	92	60-120	4	30	
Chrysene	Total ug	1	0.82	0.88	82	88	60-120	8	30	
Dibenz(a,h)anthracene	Total ug	1	0.83	1.0	83	101	60-120	20	30	
Fluoranthene	Total ug	1	0.87	0.98	87	98	60-120	12	30	
Fluorene	Total ug	1	0.82	0.82	82	82	60-120	.2	30	
Indeno(1,2,3-cd)pyrene	Total ug	1	0.82	0.99	82	99	60-120	19	30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DNR
Pace Project No.: 10232724

LABORATORY CONTROL SAMPLE & LCSD:		1464434	1464435							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Naphthalene	Total ug	1	0.83	0.98	83	98	60-120	17	30	
Phenanthrene	Total ug	1	0.87	0.94	87	94	60-120	7	30	
Pyrene	Total ug	1	0.89	0.90	89	90	60-120	1	30	
2-Fluorobiphenyl (S)	%				77	86	60-120			
Terphenyl-d14 (S)	%				81	87	60-120			

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: DNR
Pace Project No.: 10232724

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DNR
Pace Project No.: 10232724

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10232724001	U1-A PUF	TO-13	OEXT/22084	TO-13	MSSV/9456
10232724002	D1-A PUF	TO-13	OEXT/22084	TO-13	MSSV/9456
10232724003	BZ-1A PUF	TO-13	OEXT/22084	TO-13	MSSV/9456
10232724004	F1-A PUF,LIQ	TO-13	OEXT/22084	TO-13	MSSV/9456
10232724005	F2-A PUF,LIQ	TO-13	OEXT/22084	TO-13	MSSV/9456
10232724007	Blank	TO-13	OEXT/22084	TO-13	MSSV/9456

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

1140

10232724

Section A
Required Client Information:

Company: **SWARE**
 Address: **1640 FIFTH ST, STE 204
 SANTA MONICA CA 90401**
 Email: **ROSENFELD.PAUL@SWARE.COM**
 Phone: **310-334-0110** Fax:
 Requested Due Date/TAT:

Section B
Required Project Information:

Report To: **PAUL ROSENFELD**
 Copy To: **ROB RESSE**
 Address: **RRESSE@SWARE.COM**
 Purchase Order No.:
 Project Name: **DNR**
 Project Number:

Section C
Invoice Information:

Attention: **BETH GLICKMAN**
 Company Name: **SWARE**
 Address: **SAME**
 Pace Quote Reference:
 Pace Project Manager: **GLOTT UNZE**
 Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location STATE: **MO**

Section D
Required Client Information:

Matrix Codes
 MATRIX CODE
 Drinking Water DW
 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 #	Section D Required Client Information	Matrix Codes MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME						
1	U1-A PUF		AL C	6/19/13 0827	6/19/13 0827	1	Unpreserved				10232724
2	D1-A PUF		AL C	6/17/13 0905	6/18/13 1200	1					002
3	B2-A PUF		AL C	6/17/13 1428	6/18/13 1152	1					003
4	E1-A PUF		AL C	6/17/13 1211	6/18/13 1411	1					Combine PUF w/ condensate
5	F1-A LIQ		AL C	6/17/13 1455	6/17/13 1658	1					Combine PUF w/ condensate
6	F2-A PUF		AL C	6/17/13 1455	6/17/13 1658	1					Combine PUF w/ condensate
7	F3-A LIQ		AL C	6/17/13 900	6/18/13 1100	1					Combine PUF w/ condensate
8	F3-A PUF		AL C	6/18/13 900	6/18/13 1100	1					Combine PUF w/ condensate
9	F3-A LIQ		AL C	6/18/13 900	6/18/13 1100	1					Combine PUF w/ condensate

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
SAMPLE VOLUMES TO BE SUPPLIED	TRACY WIEGAR / Wiegler for SW	6/18/2013	1300	Eric Wiegler	6/19/13	0845	Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **ERIC WIEGAR**
 SIGNATURE of SAMPLER: *Eric Wiegler*
 DATE Signed (MM/DD/YY): **06/18/2013**

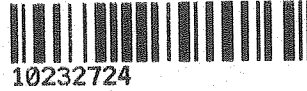
Sample Condition
Upon Receipt

Client Name:

SWAPE

Project #:

WO#: **10232724**



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

Tracking Number: 6010 9129 1442

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: B88A912167504 80512447 72337080 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 12.3 Cooler Temp Corrected (°C): 12.8 Biological Tissue Frozen? Yes No

Temp should be above freezing to 6°C Correction Factor: 10.5 Date and Initials of Person Examining Contents: 06/19/13

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: <u>PUFF/WT</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. "Blank PUFF received & not on COC"
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13. All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl Sample # Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (If purchased):		

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Rob H.

Field Data Required? Yes No

Date/Time: 06/19/13

Comments/Resolution: _____

Analyze PUF blank as sample 007.

Project Manager Review:

@

Date: 06/19/13

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)