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541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

May 12, 2005

Erin Lynch  
Ecology & Environment  
333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

RE: Lacamas Lab Explosion

Enclosed are the results of analyses for samples received by the laboratory on 05/10/05 14:40.  
The following list is a summary of the NCA Work Orders contained in this report.  
If you have any questions concerning this report, please feel free to contact me.

<u>Work</u>	<u>Project</u>	<u>ProjectNumber</u>
P5E0405	Lacamas Lab Explosion	1281.0490.01RZ

Thank You,

Joy D. Chang, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
phone: (425) 420.9200 fax: (425) 420.9210  
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**Ecology & Environment**

333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
05050900	P5E0405-01	Water	05/09/05 12:24	05/10/05 14:40
05050901	P5E0405-02	Water	05/09/05 12:34	05/10/05 14:40
05050902	P5E0405-03	Water	05/10/05 10:30	05/10/05 14:40

North Creek Analytical - Portland

Joy D. Chang, Project Manager

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**Ecology & Environment**

 333 SW Fifth Avenue, Suite 608  
 Portland, OR 97204

 Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-01</b>	<b>Water</b>	<b>05050900</b>	<b>Sampled: 05/09/05 12:24</b>							
<b>tert-Butyl alcohol</b>	EPA 8260B	<b>18900</b>	----	10000	ug/l	200x	5050402	05/10/05	05/11/05 04:01	
Acetone	"	ND	----	5000	"	"	"	"	"	
Benzene	"	ND	----	200	"	"	"	"	"	
Bromobenzene	"	ND	----	200	"	"	"	"	"	
Bromochloromethane	"	ND	----	200	"	"	"	"	"	
Bromodichloromethane	"	ND	----	200	"	"	"	"	"	
Bromoform	"	ND	----	200	"	"	"	"	"	
Bromomethane	"	ND	----	1000	"	"	"	"	"	
n-Butylbenzene	"	ND	----	1000	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	200	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	200	"	"	"	"	"	
Carbon disulfide	"	ND	----	2000	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	200	"	"	"	"	"	
Chlorobenzene	"	ND	----	200	"	"	"	"	"	
Chloroethane	"	ND	----	200	"	"	"	"	"	
Chloroform	"	ND	----	200	"	"	"	"	"	
Chloromethane	"	ND	----	1000	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	200	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	1000	"	"	"	"	"	
Dibromochloromethane	"	ND	----	200	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	200	"	"	"	"	"	
Dibromomethane	"	ND	----	200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	1000	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	200	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	200	"	"	"	"	"	
Ethylbenzene	"	ND	----	200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	800	"	"	"	"	"	
2-Hexanone	"	ND	----	2000	"	"	"	"	"	
Isopropylbenzene	"	ND	----	400	"	"	"	"	"	

North Creek Analytical - Portland

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Joy D. Chang, Project Manager

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

**Ecology & Environment**

 333 SW Fifth Avenue, Suite 608  
 Portland, OR 97204

 Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-01</b>	<b>Water</b>	<b>05050900</b>	<b>Sampled: 05/09/05 12:24</b>							
p-Isopropyltoluene	EPA 8260B	ND	----	400	ug/l	200x	5050402	05/10/05	05/11/05 04:01	
4-Methyl-2-pentanone	"	ND	----	1000	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	200	"	"	"	"	"	
Methylene chloride	"	ND	----	1000	"	"	"	"	"	
Naphthalene	"	ND	----	400	"	"	"	"	"	
n-Propylbenzene	"	ND	----	200	"	"	"	"	"	
Styrene	"	ND	----	200	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	200	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	200	"	"	"	"	"	
Tetrachloroethene	"	ND	----	200	"	"	"	"	"	
Toluene	"	ND	----	200	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	200	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	200	"	"	"	"	"	
Trichloroethene	"	ND	----	200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	200	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	200	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	200	"	"	"	"	"	
Vinyl chloride	"	ND	----	200	"	"	"	"	"	
o-Xylene	"	ND	----	200	"	"	"	"	"	
m,p-Xylene	"	ND	----	400	"	"	"	"	"	
<b>Surrogate(s): 4-BFB</b>										
		Recovery:	91.0%	Limits:	75 - 120 %	1x				
1,2-DCA-d4			110%		77 - 129 %	"				
Dibromofluoromethane			106%		80 - 121 %	"				
Toluene-d8			106%		80 - 120 %	"				

**P5E0405-01RE1**    **Water**    **05050900**    **Sampled: 05/09/05 12:24**

<b>2-Butanone</b>	EPA 8260B	<b>139000</b>	----	10000	ug/l	1000x	5050438	05/11/05	05/11/05 11:47	
<b>Surrogate(s): 4-BFB</b>										
		Recovery:	87.0%	Limits:	75 - 120 %	1x				
1,2-DCA-d4			110%		77 - 129 %	"				
Dibromofluoromethane			104%		80 - 121 %	"				
Toluene-d8			102%		80 - 120 %	"				

North Creek Analytical - Portland

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Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-02</b>	<b>Water</b>	<b>05050901</b>	<b>Sampled: 05/09/05 12:34</b>							
<b>tert-Butyl alcohol</b>	EPA 8260B	<b>20200</b>	----	10000	ug/l	200x	5050402	05/10/05	05/11/05 04:27	
Acetone	"	ND	----	5000	"	"	"	"	"	
Benzene	"	ND	----	200	"	"	"	"	"	
Bromobenzene	"	ND	----	200	"	"	"	"	"	
Bromochloromethane	"	ND	----	200	"	"	"	"	"	
Bromodichloromethane	"	ND	----	200	"	"	"	"	"	
Bromoform	"	ND	----	200	"	"	"	"	"	
Bromomethane	"	ND	----	1000	"	"	"	"	"	
n-Butylbenzene	"	ND	----	1000	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	200	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	200	"	"	"	"	"	
Carbon disulfide	"	ND	----	2000	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	200	"	"	"	"	"	
Chlorobenzene	"	ND	----	200	"	"	"	"	"	
Chloroethane	"	ND	----	200	"	"	"	"	"	
Chloroform	"	ND	----	200	"	"	"	"	"	
Chloromethane	"	ND	----	1000	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	200	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	1000	"	"	"	"	"	
Dibromochloromethane	"	ND	----	200	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	200	"	"	"	"	"	
Dibromomethane	"	ND	----	200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	1000	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	200	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	200	"	"	"	"	"	
Ethylbenzene	"	ND	----	200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	800	"	"	"	"	"	
2-Hexanone	"	ND	----	2000	"	"	"	"	"	
Isopropylbenzene	"	ND	----	400	"	"	"	"	"	

North Creek Analytical - Portland

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Joy D. Chang, Project Manager

 North Creek Analytical, Inc.  
 Environmental Laboratory Network

**Ecology & Environment**

 333 SW Fifth Avenue, Suite 608  
 Portland, OR 97204

 Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-02</b>	<b>Water</b>	<b>05050901</b>	<b>Sampled: 05/09/05 12:34</b>							
p-Isopropyltoluene	EPA 8260B	ND	----	400	ug/l	200x	5050402	05/10/05	05/11/05 04:27	
4-Methyl-2-pentanone	"	ND	----	1000	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	200	"	"	"	"	"	
Methylene chloride	"	ND	----	1000	"	"	"	"	"	
Naphthalene	"	ND	----	400	"	"	"	"	"	
n-Propylbenzene	"	ND	----	200	"	"	"	"	"	
Styrene	"	ND	----	200	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	200	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	200	"	"	"	"	"	
Tetrachloroethene	"	ND	----	200	"	"	"	"	"	
Toluene	"	ND	----	200	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	200	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	200	"	"	"	"	"	
Trichloroethene	"	ND	----	200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	200	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	200	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	200	"	"	"	"	"	
Vinyl chloride	"	ND	----	200	"	"	"	"	"	
o-Xylene	"	ND	----	200	"	"	"	"	"	
m,p-Xylene	"	ND	----	400	"	"	"	"	"	
<i>Surrogate(s): 4-BFB</i>										
		Recovery:	88.5%	Limits:	75 - 120 %	1x				
			108%		77 - 129 %	"				
			104%		80 - 121 %	"				
			102%		80 - 120 %	"				

<b>P5E0405-02RE1</b>	<b>Water</b>	<b>05050901</b>	<b>Sampled: 05/09/05 12:34</b>							
<b>2-Butanone</b>	EPA 8260B	<b>103000</b>	----	10000	ug/l	1000x	5050438	05/11/05	05/11/05 12:14	
<i>Surrogate(s): 4-BFB</i>										
		Recovery:	87.5%	Limits:	75 - 120 %	1x				
			108%		77 - 129 %	"				
			106%		80 - 121 %	"				
			103%		80 - 120 %	"				

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Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-03RE1</b>	<b>Water</b>	<b>05050902</b>	<b>Sampled: 05/10/05 10:30</b>							
tert-Butyl alcohol	EPA 8260B	ND	----	50.0	ug/l	1x	5050438	05/11/05	05/11/05 12:41	
Acetone	"	ND	----	25.0	"	"	"	"	"	
Benzene	"	ND	----	1.00	"	"	"	"	"	
Bromobenzene	"	ND	----	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromoform	"	ND	----	1.00	"	"	"	"	"	
Bromomethane	"	ND	----	5.00	"	"	"	"	"	
<b>2-Butanone</b>	"	<b>50.0</b>	----	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	----	5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	----	10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.00	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	1.00	"	"	"	"	"	
Chloromethane	"	ND	----	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	1.00	"	"	"	"	"	
Dibromomethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.0	"	"	"	"	"	

North Creek Analytical - Portland

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Joy D. Chang, Project Manager

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**Environmental Laboratory Network**



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phone: (425) 420.9200 fax: (425) 420.9210  
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Portland, OR 97204

Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-03RE1</b>	<b>Water</b>	<b>05050902</b>	<b>Sampled: 05/10/05 10:30</b>							
Isopropylbenzene	EPA 8260B	ND	----	2.00	ug/l	1x	5050438	05/11/05	05/11/05 12:41	
p-Isopropyltoluene	"	ND	----	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Surrogate(s): 4-BFB		Recovery: 86.5%		Limits: 75 - 120 %		"				"
1,2-DCA-d4		108%		77 - 129 %		"				"
Dibromofluoromethane		105%		80 - 121 %		"				"
Toluene-d8		102%		80 - 120 %		"				"

North Creek Analytical - Portland

Joy D. Chang, Project Manager

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**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

**Ecology & Environment**

 333 SW Fifth Avenue, Suite 608  
 Portland, OR 97204

 Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Semivolatile Organic Compounds per EPA Method 8270C**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-01</b>	<b>Water</b>	<b>05050900</b>	<b>Sampled: 05/09/05 12:24</b>							<b>R-05</b>
Acenaphthene	EPA 8270C	ND	----	25.0	ug/l	5x	5050424	05/10/05	05/11/05 02:26	
Acenaphthylene	"	ND	----	25.0	"	"	"	"	"	
Anthracene	"	ND	----	25.0	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	25.0	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	25.0	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	25.0	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	25.0	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	25.0	"	"	"	"	"	
Benzoic Acid	"	ND	----	250	"	"	"	"	"	
Benzyl alcohol	"	ND	----	50.0	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	25.0	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	25.0	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	25.0	"	"	"	"	"	
4-Chloroaniline	"	ND	----	100	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	50.0	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	25.0	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	50.0	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	25.0	"	"	"	"	"	
2-Chlorophenol	"	ND	----	25.0	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	25.0	"	"	"	"	"	
Chrysene	"	ND	----	25.0	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	25.0	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	25.0	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	25.0	"	"	"	"	"	
Dibenzofuran	"	ND	----	25.0	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	25.0	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	25.0	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	25.0	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	25.0	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	25.0	"	"	"	"	"	
Diethyl phthalate	"	ND	----	25.0	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	50.0	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	25.0	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	50.0	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	125	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	25.0	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	25.0	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	50.0	"	"	"	"	"	
Fluoranthene	"	ND	----	25.0	"	"	"	"	"	
Fluorene	"	ND	----	25.0	"	"	"	"	"	
Hexachlorobenzene	"	ND	----	25.0	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	50.0	"	"	"	"	"	

North Creek Analytical - Portland

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Joy D. Chang, Project Manager

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

**Ecology & Environment**

333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Semivolatile Organic Compounds per EPA Method 8270C**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-01</b>	<b>Water</b>	<b>05050900</b>	<b>Sampled: 05/09/05 12:24</b>							<b>R-05</b>
Hexachlorocyclopentadiene	EPA 8270C	ND	----	50.0	ug/l	5x	5050424	05/10/05	05/11/05 02:26	
Hexachloroethane	"	ND	----	50.0	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	25.0	"	"	"	"	"	
Isophorone	"	ND	----	25.0	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	25.0	"	"	"	"	"	
2-Methylphenol	"	ND	----	50.0	"	"	"	"	"	
3-,4-Methylphenol	"	ND	----	25.0	"	"	"	"	"	
Naphthalene	"	ND	----	25.0	"	"	"	"	"	
2-Nitroaniline	"	ND	----	25.0	"	"	"	"	"	
3-Nitroaniline	"	ND	----	50.0	"	"	"	"	"	
4-Nitroaniline	"	ND	----	50.0	"	"	"	"	"	
Nitrobenzene	"	ND	----	25.0	"	"	"	"	"	
2-Nitrophenol	"	ND	----	25.0	"	"	"	"	"	
4-Nitrophenol	"	ND	----	125	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	50.0	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	25.0	"	"	"	"	"	
Pentachlorophenol	"	ND	----	50.0	"	"	"	"	"	
Phenanthrene	"	ND	----	25.0	"	"	"	"	"	
Phenol	"	ND	----	25.0	"	"	"	"	"	
Pyrene	"	ND	----	25.0	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	25.0	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	25.0	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	25.0	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl		Recovery: 108%		Limits: 26 - 135 %		"				"
2-Fluorophenol		51.9%		6 - 124 %		"				"
Nitrobenzene-d5		93.8%		23 - 147 %		"				"
Phenol-d6		34.2%		11 - 130 %		"				"
p-Terphenyl-d14		106%		38 - 149 %		"				"
2,4,6-Tribromophenol		101%		19 - 126 %		"				"



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
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**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
phone: (509) 924.9200 fax: (509) 924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
phone: (503) 906.9200 fax: (503) 906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
phone: (541) 383.9310 fax: 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
phone: (907) 563.9200 fax: (907) 563.9210

**Ecology & Environment**

333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Semivolatile Organic Compounds per EPA Method 8270C**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-02</b>	<b>Water</b>	<b>05050901</b>	<b>Sampled: 05/09/05 12:34</b>							<b>R-05</b>
Acenaphthene	EPA 8270C	ND	----	25.0	ug/l	5x	5050424	05/10/05	05/11/05 03:09	
Acenaphthylene	"	ND	----	25.0	"	"	"	"	"	
Anthracene	"	ND	----	25.0	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	25.0	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	25.0	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	25.0	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	25.0	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	25.0	"	"	"	"	"	
Benzoic Acid	"	ND	----	250	"	"	"	"	"	
Benzyl alcohol	"	ND	----	50.0	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	25.0	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	25.0	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	25.0	"	"	"	"	"	
4-Chloroaniline	"	ND	----	100	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	50.0	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	25.0	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	50.0	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	25.0	"	"	"	"	"	
2-Chlorophenol	"	ND	----	25.0	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	25.0	"	"	"	"	"	
Chrysene	"	ND	----	25.0	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	25.0	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	25.0	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	25.0	"	"	"	"	"	
Dibenzofuran	"	ND	----	25.0	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	25.0	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	25.0	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	25.0	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	25.0	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	25.0	"	"	"	"	"	
Diethyl phthalate	"	ND	----	25.0	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	50.0	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	25.0	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	50.0	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	125	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	25.0	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	25.0	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	50.0	"	"	"	"	"	
Fluoranthene	"	ND	----	25.0	"	"	"	"	"	
Fluorene	"	ND	----	25.0	"	"	"	"	"	
Hexachlorobenzene	"	ND	----	25.0	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	50.0	"	"	"	"	"	

North Creek Analytical - Portland

Joy D. Chang, Project Manager

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**Environmental Laboratory Network**

**Ecology & Environment**

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 Portland, OR 97204

 Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Semivolatile Organic Compounds per EPA Method 8270C**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-02</b>	<b>Water</b>	<b>05050901</b>	<b>Sampled: 05/09/05 12:34</b>							<b>R-05</b>
Hexachlorocyclopentadiene	EPA 8270C	ND	----	50.0	ug/l	5x	5050424	05/10/05	05/11/05 03:09	
Hexachloroethane	"	ND	----	50.0	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	25.0	"	"	"	"	"	
Isophorone	"	ND	----	25.0	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	25.0	"	"	"	"	"	
2-Methylphenol	"	ND	----	50.0	"	"	"	"	"	
3-,4-Methylphenol	"	ND	----	25.0	"	"	"	"	"	
Naphthalene	"	ND	----	25.0	"	"	"	"	"	
2-Nitroaniline	"	ND	----	25.0	"	"	"	"	"	
3-Nitroaniline	"	ND	----	50.0	"	"	"	"	"	
4-Nitroaniline	"	ND	----	50.0	"	"	"	"	"	
Nitrobenzene	"	ND	----	25.0	"	"	"	"	"	
2-Nitrophenol	"	ND	----	25.0	"	"	"	"	"	
4-Nitrophenol	"	ND	----	125	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	50.0	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	25.0	"	"	"	"	"	
Pentachlorophenol	"	ND	----	50.0	"	"	"	"	"	
Phenanthrene	"	ND	----	25.0	"	"	"	"	"	
Phenol	"	ND	----	25.0	"	"	"	"	"	
Pyrene	"	ND	----	25.0	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	25.0	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	25.0	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	25.0	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl		Recovery: 106%		Limits: 26 - 135 %		"				"
2-Fluorophenol		49.4%		6 - 124 %		"				"
Nitrobenzene-d5		96.6%		23 - 147 %		"				"
Phenol-d6		34.8%		11 - 130 %		"				"
p-Terphenyl-d14		103%		38 - 149 %		"				"
2,4,6-Tribromophenol		103%		19 - 126 %		"				"

North Creek Analytical - Portland



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Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Semivolatile Organic Compounds per EPA Method 8270C**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-03</b>	<b>Water</b>	<b>05050902</b>	<b>Sampled: 05/10/05 10:30</b>							
Acenaphthene	EPA 8270C	ND	----	5.00	ug/l	1x	5050424	05/10/05	05/11/05 03:52	
Acenaphthylene	"	ND	----	5.00	"	"	"	"	"	
Anthracene	"	ND	----	5.00	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	5.00	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	5.00	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	5.00	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	5.00	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	5.00	"	"	"	"	"	
Benzoic Acid	"	ND	----	50.0	"	"	"	"	"	
Benzyl alcohol	"	ND	----	10.0	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	5.00	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	5.00	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	5.00	"	"	"	"	"	
4-Chloroaniline	"	ND	----	20.0	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	10.0	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	5.00	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	10.0	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	5.00	"	"	"	"	"	
2-Chlorophenol	"	ND	----	5.00	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	5.00	"	"	"	"	"	
Chrysene	"	ND	----	5.00	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	5.00	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	5.00	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	5.00	"	"	"	"	"	
Dibenzofuran	"	ND	----	5.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	5.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	5.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	5.00	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	5.00	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	5.00	"	"	"	"	"	
Diethyl phthalate	"	ND	----	5.00	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	10.0	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	5.00	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	10.0	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	25.0	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	5.00	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	5.00	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	10.0	"	"	"	"	"	
Fluoranthene	"	ND	----	5.00	"	"	"	"	"	
Fluorene	"	ND	----	5.00	"	"	"	"	"	
Hexachlorobenzene	"	ND	----	5.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	10.0	"	"	"	"	"	

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Joy D. Chang, Project Manager

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 Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Semivolatile Organic Compounds per EPA Method 8270C**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5E0405-03</b>	<b>Water</b>	<b>05050902</b>	<b>Sampled: 05/10/05 10:30</b>							
Hexachlorocyclopentadiene	EPA 8270C	ND	----	10.0	ug/l	1x	5050424	05/10/05	05/11/05 03:52	
Hexachloroethane	"	ND	----	10.0	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	5.00	"	"	"	"	"	
Isophorone	"	ND	----	5.00	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	5.00	"	"	"	"	"	
2-Methylphenol	"	ND	----	10.0	"	"	"	"	"	
3-,4-Methylphenol	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	5.00	"	"	"	"	"	
2-Nitroaniline	"	ND	----	5.00	"	"	"	"	"	
3-Nitroaniline	"	ND	----	10.0	"	"	"	"	"	
4-Nitroaniline	"	ND	----	10.0	"	"	"	"	"	
Nitrobenzene	"	ND	----	5.00	"	"	"	"	"	
2-Nitrophenol	"	ND	----	5.00	"	"	"	"	"	
4-Nitrophenol	"	ND	----	25.0	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	10.0	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	5.00	"	"	"	"	"	
Pentachlorophenol	"	ND	----	10.0	"	"	"	"	"	
Phenanthrene	"	ND	----	5.00	"	"	"	"	"	
Phenol	"	ND	----	5.00	"	"	"	"	"	
Pyrene	"	ND	----	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	5.00	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	5.00	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	5.00	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl		Recovery: 67.9%		Limits: 26 - 135 %		"				"
2-Fluorophenol		41.5%		6 - 124 %		"				"
Nitrobenzene-d5		75.3%		23 - 147 %		"				"
Phenol-d6		29.1%		11 - 130 %		"				"
p-Terphenyl-d14		91.9%		38 - 149 %		"				"
2,4,6-Tribromophenol		82.4%		19 - 126 %		"				"

# Ecology & Environment

333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

Project Name: Lacamas Lab Explosion

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

## Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

North Creek Analytical - Portland

QC Batch: 5050402

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC (Limits)	% RPD (Limits)	Analyzed	Notes
<b>Blank (5050402-BLK1)</b>										Extracted: 05/10/05 16:28		
Acetone	EPA 8260B	ND	---	25.0	ug/l	1x	--	--	--	--	05/10/05 20:27	
Benzene	"	ND	---	1.00	"	"	--	--	--	--		
Bromobenzene	"	ND	---	1.00	"	"	--	--	--	--		
Bromochloromethane	"	ND	---	1.00	"	"	--	--	--	--		
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--		
Bromoform	"	ND	---	1.00	"	"	--	--	--	--		
Bromomethane	"	ND	---	5.00	"	"	--	--	--	--		
2-Butanone	"	ND	---	10.0	"	"	--	--	--	--		
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--		
sec-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--		
tert-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--		
Carbon disulfide	"	ND	---	10.0	"	"	--	--	--	--		
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--		
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--		
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--		
Chloroform	"	ND	---	1.00	"	"	--	--	--	--		
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--		
2-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--		
4-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--		
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	--	--	--	--		
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--		
1,2-Dibromoethane	"	ND	---	1.00	"	"	--	--	--	--		
Dibromomethane	"	ND	---	1.00	"	"	--	--	--	--		
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--		
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--		
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--		
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--		
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--		
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--		
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--		
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--		
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--		
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--		
1,3-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--		
2,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--		
1,1-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--		
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--		
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--		
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--		
Hexachlorobutadiene	"	ND	---	4.00	"	"	--	--	--	--		
2-Hexanone	"	ND	---	10.0	"	"	--	--	--	--		

North Creek Analytical - Portland



Joy D. Chang, Project Manager

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**Ecology & Environment**

333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results**

North Creek Analytical - Portland

QC Batch: 5050402

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (5050402-BLK1)</b>										Extracted: 05/10/05 16:28				
Isopropylbenzene	EPA 8260B	ND	---	2.00	ug/l	1x	--	--	--	--	--	--	05/10/05 20:27	
p-Isopropyltoluene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB		Recovery:	90.0%	Limits:	75-120%								05/10/05 20:27	
1,2-DCA-d4			104%		77-129%								"	
Dibromofluoromethane			102%		80-121%								"	
Toluene-d8			101%		80-120%								"	

North Creek Analytical - Portland

Joy D. Chang, Project Manager

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Environmental Laboratory Network



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333 SW Fifth Avenue, Suite 608  
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Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results****North Creek Analytical - Portland**

QC Batch: 5050402

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

**LCS (5050402-BS1)**

Extracted: 05/10/05 16:28

Benzene	EPA 8260B	21.3	---	1.00	ug/l	1x	--	20.0	106%	(80-120)	--	--	05/10/05 18:14	
Chlorobenzene	"	20.8	---	1.00	"	"	--	"	104%	(80-124)	--	--	"	
1,1-Dichloroethene	"	18.7	---	1.00	"	"	--	"	93.5%	(78-120)	--	--	"	
Toluene	"	21.0	---	1.00	"	"	--	"	105%	(80-124)	--	--	"	
Trichloroethene	"	23.4	---	1.00	"	"	--	"	117%	(80-132)	--	--	"	

Surrogate(s): 4-BFB	Recovery:	97.0%	Limits:	75-120%	"	05/10/05 18:14
1,2-DCA-d4		106%		77-129%	"	"
Dibromofluoromethane		102%		80-121%	"	"
Toluene-d8		109%		80-120%	"	"

**Matrix Spike (5050402-MS1)**

QC Source: P5E0309-02

Extracted: 05/10/05 16:28

Benzene	EPA 8260B	21.1	---	1.00	ug/l	1x	ND	20.0	106%	(80-124)	--	--	05/10/05 18:41	
Chlorobenzene	"	20.2	---	1.00	"	"	ND	"	101%	(72.9-134)	--	--	"	
1,1-Dichloroethene	"	20.6	---	1.00	"	"	ND	"	103%	(79.3-127)	--	--	"	
Toluene	"	20.4	---	1.00	"	"	ND	"	102%	(79.7-131)	--	--	"	
Trichloroethene	"	20.3	---	1.00	"	"	ND	"	102%	(68.4-130)	--	--	"	

Surrogate(s): 4-BFB	Recovery:	91.0%	Limits:	75-120%	"	05/10/05 18:41
1,2-DCA-d4		104%		77-129%	"	"
Dibromofluoromethane		98.0%		80-121%	"	"
Toluene-d8		104%		80-120%	"	"

**Matrix Spike Dup (5050402-MSD1)**

QC Source: P5E0309-02

Extracted: 05/10/05 16:28

Benzene	EPA 8260B	23.5	---	1.00	ug/l	1x	ND	20.0	118%	(80-124)	10.8% (25)	05/10/05 19:07	
Chlorobenzene	"	22.6	---	1.00	"	"	ND	"	113%	(72.9-134)	11.2%	"	"
1,1-Dichloroethene	"	22.7	---	1.00	"	"	ND	"	114%	(79.3-127)	9.70%	"	"
Toluene	"	23.1	---	1.00	"	"	ND	"	116%	(79.7-131)	12.4%	"	"
Trichloroethene	"	22.8	---	1.00	"	"	ND	"	114%	(68.4-130)	11.6%	"	"

Surrogate(s): 4-BFB	Recovery:	90.0%	Limits:	75-120%	"	05/10/05 19:07
1,2-DCA-d4		102%		77-129%	"	"
Dibromofluoromethane		96.5%		80-121%	"	"
Toluene-d8		104%		80-120%	"	"

North Creek Analytical - Portland

Joy D. Chang, Project Manager

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North Creek Analytical, Inc.  
Environmental Laboratory Network

# Ecology & Environment

333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

Project Name: Lacamas Lab Explosion

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

## Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

North Creek Analytical - Portland

QC Batch: 5050438

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (5050438-BLK1)							Extracted: 05/11/05 08:00							
Acetone	EPA 8260B	ND	---	25.0	ug/l	1x	--	--	--	--	--	--	05/11/05 10:27	
Benzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	

North Creek Analytical - Portland



Joy D. Chang, Project Manager

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Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results**

North Creek Analytical - Portland

QC Batch: 5050438

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (5050438-BLK1)</b>										Extracted: 05/11/05 08:00				
Isopropylbenzene	EPA 8260B	ND	---	2.00	ug/l	1x	--	--	--	--	--	--	05/11/05 10:27	
p-Isopropyltoluene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 4-BFB</i>														05/11/05 10:27
		<i>Recovery:</i>	89.0%	<i>Limits:</i>	75-120%									"
			108%		77-129%									"
			103%		80-121%									"
			102%		80-120%									"

North Creek Analytical - Portland

Joy D. Chang, Project Manager

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Environmental Laboratory Network



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**Ecology & Environment**

333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results**

North Creek Analytical - Portland

QC Batch: 5050438

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

**LCS (5050438-BS1)**

Extracted: 05/11/05 08:00

Benzene	EPA 8260B	21.9	---	1.00	ug/l	1x	--	20.0	110%	(80-120)	--	--	05/11/05 08:41	
Chlorobenzene	"	21.2	---	1.00	"	"	--	"	106%	(80-124)	--	--	"	
1,1-Dichloroethene	"	19.2	---	1.00	"	"	--	"	96.0%	(78-120)	--	--	"	
Toluene	"	21.7	---	1.00	"	"	--	"	108%	(80-124)	--	--	"	
Trichloroethene	"	21.4	---	1.00	"	"	--	"	107%	(80-132)	--	--	"	
Surrogate(s): 4-BFB		Recovery:	91.5%	Limits:	75-120%	"							05/11/05 08:41	
1,2-DCA-d4			104%		77-129%	"							"	
Dibromofluoromethane			98.0%		80-121%	"							"	
Toluene-d8			106%		80-120%	"							"	

**Matrix Spike (5050438-MS1)**

QC Source: P5E0364-01

Extracted: 05/11/05 08:00

Benzene	EPA 8260B	20.6	---	1.00	ug/l	1x	ND	20.0	103%	(80-124)	--	--	05/11/05 09:07	
Chlorobenzene	"	20.1	---	1.00	"	"	ND	"	100%	(72.9-134)	--	--	"	
1,1-Dichloroethene	"	19.0	---	1.00	"	"	ND	"	95.0%	(79.3-127)	--	--	"	
Toluene	"	19.3	---	1.00	"	"	ND	"	96.5%	(79.7-131)	--	--	"	
Trichloroethene	"	20.0	---	1.00	"	"	ND	"	100%	(68.4-130)	--	--	"	
Surrogate(s): 4-BFB		Recovery:	88.0%	Limits:	75-120%	"							05/11/05 09:07	
1,2-DCA-d4			102%		77-129%	"							"	
Dibromofluoromethane			94.5%		80-121%	"							"	
Toluene-d8			99.5%		80-120%	"							"	

**Matrix Spike Dup (5050438-MSD1)**

QC Source: P5E0364-01

Extracted: 05/11/05 08:00

Benzene	EPA 8260B	21.1	---	1.00	ug/l	1x	ND	20.0	106%	(80-124)	2.40% (25)		05/11/05 09:34	
Chlorobenzene	"	20.9	---	1.00	"	"	ND	"	104%	(72.9-134)	3.90%	"	"	
1,1-Dichloroethene	"	19.4	---	1.00	"	"	ND	"	97.0%	(79.3-127)	2.08%	"	"	
Toluene	"	19.8	---	1.00	"	"	ND	"	99.0%	(79.7-131)	2.56%	"	"	
Trichloroethene	"	20.5	---	1.00	"	"	ND	"	102%	(68.4-130)	2.47%	"	"	
Surrogate(s): 4-BFB		Recovery:	89.0%	Limits:	75-120%	"							05/11/05 09:34	
1,2-DCA-d4			100%		77-129%	"							"	
Dibromofluoromethane			96.5%		80-121%	"							"	
Toluene-d8			102%		80-120%	"							"	

North Creek Analytical - Portland

Joy D. Chang, Project Manager

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Environmental Laboratory Network

**Ecology & Environment**

 333 SW Fifth Avenue, Suite 608  
 Portland, OR 97204

 Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results**

North Creek Analytical - Portland

QC Batch: 5050424

Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC (Limits)	% RPD (Limits)	Analyzed	Notes
<b>Blank (5050424-BLK1)</b>										Extracted: 05/10/05 15:45		
Acenaphthene	EPA 8270C	ND	---	5.00	ug/l	1x	--	--	--	--	05/10/05 22:07	
Acenaphthylene	"	ND	---	5.00	"	"	--	--	--	--		
Anthracene	"	ND	---	5.00	"	"	--	--	--	--		
Benzo (a) anthracene	"	ND	---	5.00	"	"	--	--	--	--		
Benzo (a) pyrene	"	ND	---	5.00	"	"	--	--	--	--		
Benzo (b) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--		
Benzo (ghi) perylene	"	ND	---	5.00	"	"	--	--	--	--		
Benzo (k) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--		
Benzoic Acid	"	ND	---	50.0	"	"	--	--	--	--		
Benzyl alcohol	"	ND	---	10.0	"	"	--	--	--	--		
4-Bromophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--		
Butyl benzyl phthalate	"	ND	---	5.00	"	"	--	--	--	--		
4-Chloro-3-methylphenol	"	ND	---	5.00	"	"	--	--	--	--		
4-Chloroaniline	"	ND	---	20.0	"	"	--	--	--	--		
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--		
Bis(2-chloroethyl)ether	"	ND	---	5.00	"	"	--	--	--	--		
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--		
2-Chloronaphthalene	"	ND	---	5.00	"	"	--	--	--	--		
2-Chlorophenol	"	ND	---	5.00	"	"	--	--	--	--		
4-Chlorophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--		
Chrysene	"	ND	---	5.00	"	"	--	--	--	--		
Di-n-butyl phthalate	"	ND	---	5.00	"	"	--	--	--	--		
Di-n-octyl phthalate	"	ND	---	5.00	"	"	--	--	--	--		
Dibenzo (a,h) anthracene	"	ND	---	5.00	"	"	--	--	--	--		
Dibenzofuran	"	ND	---	5.00	"	"	--	--	--	--		
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--		
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--		
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--		
3,3'-Dichlorobenzidine	"	ND	---	5.00	"	"	--	--	--	--		
2,4-Dichlorophenol	"	ND	---	5.00	"	"	--	--	--	--		
Diethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--		
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--		
Dimethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--		
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--		
2,4-Dinitrophenol	"	ND	---	25.0	"	"	--	--	--	--		
2,4-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--		
2,6-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--		
Bis(2-ethylhexyl)phthalate	"	ND	---	10.0	"	"	--	--	--	--		
Fluoranthene	"	ND	---	5.00	"	"	--	--	--	--		
Fluorene	"	ND	---	5.00	"	"	--	--	--	--		
Hexachlorobenzene	"	ND	---	5.00	"	"	--	--	--	--		

North Creek Analytical - Portland

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Joy D. Chang, Project Manager

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**Ecology & Environment**

333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results**

North Creek Analytical - Portland

QC Batch: 5050424

Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC (Limits)	% RPD (Limits)	Analyzed	Notes
<b>Blank (5050424-BLK1)</b>										Extracted: 05/10/05 15:45		
Hexachlorobutadiene	EPA 8270C	ND	---	10.0	ug/l	1x	--	--	--	--	05/10/05 22:07	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	5.00	"	"	--	--	--	--	"	
Isophorone	"	ND	---	5.00	"	"	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	5.00	"	"	--	--	--	--	"	
2-Methylphenol	"	ND	---	10.0	"	"	--	--	--	--	"	
3-,4-Methylphenol	"	ND	---	5.00	"	"	--	--	--	--	"	
Naphthalene	"	ND	---	5.00	"	"	--	--	--	--	"	
2-Nitroaniline	"	ND	---	5.00	"	"	--	--	--	--	"	
3-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	"	
4-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	"	
Nitrobenzene	"	ND	---	5.00	"	"	--	--	--	--	"	
2-Nitrophenol	"	ND	---	5.00	"	"	--	--	--	--	"	
4-Nitrophenol	"	ND	---	25.0	"	"	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	5.00	"	"	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	"	
Phenanthrene	"	ND	---	5.00	"	"	--	--	--	--	"	
Phenol	"	ND	---	5.00	"	"	--	--	--	--	"	
Pyrene	"	ND	---	5.00	"	"	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	"	
2,4,5-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	"	
<hr/>												
Surrogate(s): 2-Fluorobiphenyl		Recovery:	91.5%	Limits:	26-135%	"						
2-Fluorophenol			55.0%		6-124%	"						
Nitrobenzene-d5			97.2%		23-147%	"						
Phenol-d6			39.8%		11-130%	"						
p-Terphenyl-d14			93.9%		38-149%	"						
2,4,6-Tribromophenol			94.7%		19-126%	"						

North Creek Analytical - Portland

Joy D. Chang, Project Manager

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333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results**

North Creek Analytical - Portland

QC Batch: 5050424

Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

**LCS (5050424-BS1)**

Extracted: 05/10/05 15:45

Acenaphthene	EPA 8270C	67.2	---	5.00	ug/l	1x	--	75.0	89.6%	(47-145)	--	--	05/10/05 22:51	
4-Chloro-3-methylphenol	"	123	---	5.00	"	"	--	150	82.0%	(22-147)	--	--	"	
2-Chlorophenol	"	123	---	5.00	"	"	--	"	82.0%	(23-134)	--	--	"	
1,4-Dichlorobenzene	"	49.2	---	5.00	"	"	--	75.0	65.6%	(8-124)	--	--	"	
2,4-Dinitrotoluene	"	61.1	---	5.00	"	"	--	"	81.5%	(39-139)	--	--	"	
4-Nitrophenol	"	55.2	---	25.0	"	"	--	150	36.8%	(1-132)	--	--	"	
N-Nitrosodi-n-propylamine	"	72.0	---	10.0	"	"	--	75.0	96.0%	(1-230)	--	--	"	
Pentachlorophenol	"	131	---	10.0	"	"	--	150	87.3%	(14-176)	--	--	"	
Phenol	"	61.7	---	5.00	"	"	--	"	41.1%	(5-112)	--	--	"	
Pyrene	"	68.4	---	5.00	"	"	--	75.0	91.2%	(52-122)	--	--	"	
1,2,4-Trichlorobenzene	"	49.4	---	5.00	"	"	--	"	65.9%	(11-142)	--	--	"	

Surrogate(s): 2-Fluorobiphenyl	Recovery:	82.0%	Limits:	26-135%	"	05/10/05 22:51
2-Fluorophenol		59.4%		6-124%	"	"
Nitrobenzene-d5		97.2%		23-147%	"	"
Phenol-d6		40.1%		11-130%	"	"
p-Terphenyl-d14		97.3%		38-149%	"	"
2,4,6-Tribromophenol		101%		19-126%	"	"

**LCS Dup (5050424-BS1)**

Extracted: 05/10/05 15:45

Acenaphthene	EPA 8270C	65.0	---	5.00	ug/l	1x	--	75.0	86.7%	(47-145)	3.33% (50)	05/10/05 23:34	
4-Chloro-3-methylphenol	"	117	---	5.00	"	"	--	150	78.0%	(22-147)	5.00% "	"	
2-Chlorophenol	"	118	---	5.00	"	"	--	"	78.7%	(23-134)	4.15% "	"	
1,4-Dichlorobenzene	"	48.6	---	5.00	"	"	--	75.0	64.8%	(8-124)	1.23% "	"	
2,4-Dinitrotoluene	"	61.0	---	5.00	"	"	--	"	81.3%	(39-139)	0.164% "	"	
4-Nitrophenol	"	51.0	---	25.0	"	"	--	150	34.0%	(1-132)	7.91% "	"	
N-Nitrosodi-n-propylamine	"	72.6	---	10.0	"	"	--	75.0	96.8%	(1-230)	0.830% "	"	
Pentachlorophenol	"	127	---	10.0	"	"	--	150	84.7%	(14-176)	3.10% "	"	
Phenol	"	58.4	---	5.00	"	"	--	"	38.9%	(5-112)	5.50% "	"	
Pyrene	"	67.3	---	5.00	"	"	--	75.0	89.7%	(52-122)	1.62% "	"	
1,2,4-Trichlorobenzene	"	49.3	---	5.00	"	"	--	"	65.7%	(11-142)	0.203% "	"	

Surrogate(s): 2-Fluorobiphenyl	Recovery:	79.9%	Limits:	26-135%	"	05/10/05 23:34
2-Fluorophenol		56.7%		6-124%	"	"
Nitrobenzene-d5		94.1%		23-147%	"	"
Phenol-d6		38.3%		11-130%	"	"
p-Terphenyl-d14		92.8%		38-149%	"	"
2,4,6-Tribromophenol		96.0%		19-126%	"	"

North Creek Analytical - Portland

Joy D. Chang, Project Manager

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Environmental Laboratory Network

**Ecology & Environment**

333 SW Fifth Avenue, Suite 608  
Portland, OR 97204

Project Name: **Lacamas Lab Explosion**

Project Number: 1281.0490.01RZ

Project Manager: Erin Lynch

Report Created:

05/12/05 17:16

**Notes and Definitions****Report Specific Notes:**

- R-05 - Reporting limits raised due to dilution necessary for analysis. Sample contains high levels of reported analyte, non-target analyte, and/or matrix interference.

**Laboratory Reporting Conventions:**

**DET** - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.

**ND** - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).

**NR / NA** - Not Reported / Not Available

**dry** - Sample results reported on a dry weight basis. Reporting Limits are corrected for %Solids when %Solids are <50%.

**wet** - Sample results and reporting limits reported on a wet weight basis (as received).

**RPD** - Relative Percent Difference. (RPDs calculated using Results, not Percent Recoveries).

**MRL** - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

**MDL\*** - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated results.

**Dil** - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

**Reporting limits** - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

