

Pinnacle GeoSciences



RECEIVED

APR 09 2012

DEPT OF ECOLOGY
TCP - NWRO

13620 NE 20th Street, Suite J
Bellevue, Washington 98005-4901
Tel: 425.649.7535
Fax: 425.649.7537

September 14, 1999

Mr. Mark Gavin
Scott Dry Cleaners
201 - 4th Place South
Renton, Washington 98055

Interim Report
Soil Sampling
Scott Dry Cleaners Property
Renton, Washington
File No. 0145-002

Dear Mr. Gavin,

This letter transmits our interim report summarizing our findings and recommendations with regard to soil sampling services at the Scott Dry Cleaners property located at 201 - 4th Place South in Renton, Washington. Pinnacle GeoSciences sampled soil beneath the concrete floor in close proximity to the facility's dry cleaning equipment on August 21, 1999. We were prepared to also sample ground water at the site but groundwater was not encountered in either of the explorations advanced.

Chlorinated solvents related to dry-cleaning processes and Stoddard Solvent were encountered in the soil samples obtained. The primary chlorinated solvent detected was tetrachloroethene, also known as perchloroethylene, PCE or PERC. Other chlorinated solvents were detected that are breakdown products of PERC. Small concentrations of other organic compounds that may be related to textile dyeing were also detected in the soil.

MTCA (the Model Toxics Control Act) is the regulation that addresses releases of hazardous substances to the environment. This regulation is administered by Ecology (the Washington State Department of Ecology). MTCA includes soil and ground water cleanup levels for dry-cleaning solvents and their breakdown products. The concentrations observed at the site exceed the MTCA cleanup levels that are appropriate for this site (Method A). The table below shows the concentrations detected in the soil samples collected and the corresponding MTCA Method A cleanup level. Many other compounds were detected in each of the soil samples collected but those shown in this table are the compounds of greatest concern with respect to MTCA. Copies of the laboratory report are attached to this letter.

Exploration	PERC		
	Tetrachloroethene	Trichloroethene	Stoddard Solvent
HA-1-7.5	43.1 mg/Kg	53.3 mg/Kg	< 25.0 mg/Kg
HA-2-0.5	6,580 mg/Kg	1.40 mg/Kg	409 mg/Kg
HA-2-5.0	407 mg/Kg	0.763 mg/Kg	25.0 mg/Kg
MTCA Method A Soil Cleanup Level	0.5 mg/Kg	0.5 mg/Kg	200 mg/Kg

It is unknown at this time whether this soil contamination is localized or more wide spread and whether it had impacted ground water. We did not encounter ground water in our explorations. If ground water has been impacted it is possible that the resulting area of contamination extends beyond the property boundary.

The contamination identified poses a liability under MTCA and there are reporting requirements in MTCA that will need to be fulfilled. We have no obligation to report this release under MTCA. The owner's obligation calls for notification of Ecology within 90 days of discovery of the release (starting on September 7, 1999 when we notified you of the release). It is very common to delay the reporting until the end of this 90-day period so that more information can be collected. In some cases, the release is remediated prior to the 90-day deadline in which case the release is still reported but may not be entered into Ecology's data base.

At this time we recommend that you take action to ascertain the extent of the release. This could be done by advancing several soil probe explorations outside the limits of the building. These explorations would allow for the retrieval of soil and ground water samples. The soil samples could be screened for the presence of chlorinated solvents using Synsodyne testing tubes to minimize chemical testing costs. Selected soil and ground water samples should be analyzed for Stoddard Solvent and PERC. We can provide these services to you.

We propose that three explorations be advanced to a maximum depth of about 20 feet. Prior to drilling we would contract a private locate service to identify locations of buried utilities in the areas to be explored. A total of six soil samples and three ground water samples would be analyzed for PERC and Stoddard Solvent. Upon completion, the small

Mr. Mark Gavin
September 14, 1999
Page 3

diameter probe holes would be backfilled and sealed at the surface. At this time we propose that no provisions be made for preparing a formal written report of our findings in the event that further sampling and analysis is required. We will, however, prepare a brief written letter or memorandum summarizing the findings from these explorations.

Our fee to provide these services would be approximately \$ 5,100. Of this fee, \$1,050 would be for the drilling contractor and \$2,500 would be for chemical testing services. Another approximately \$200 would be for the private locate and the specialized testing tubes proposed for screening soil samples for PERC. We would need about two to three weeks lead time prior to conducting the explorations to obtain the Synsodyne tubes and to schedule the drilling contractor.

We can provide these services as an extension to our prior agreement. On your request we can provide a confirming agreement for these services. Pinnacle GeoSciences appreciates the opportunity to provide these services to you. Please call if you have questions concerning this letter or our proposed services..

Sincerely,
Pinnacle GeoSciences, Inc.



Stephen C. Perrigo
Principal

2 copies submitted
SCP
Attachment: Laboratory Report



Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite 8, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7568

Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, WA 98005

Project: Scott Cleaners
Project Number: 0145-001
Project Manager: Norm Puri

Sampled: 8/21/99
Received: 8/23/99
Reported: 9/3/99 14:02

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
HA-1-7.5	B908498-01	Soil	8/21/99
HA-2-0.5	B908498-02	Soil	8/21/99
HA-2-5.0	B908498-03	Soil	8/21/99

North Creek Analytical - Bothell

*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.*

David Vandel, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 1 of 14



Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 503.906.9200 fax 503.906.9210
 509.924.9200 fax 509.924.9290
 541.383.9310 fax 541.382.7588

Pinnacle GeoSciences
 13620 NE 20th Street, Suite J
 Bellevue, WA 98005
 Project: Scott Cleaners
 Project Number: 0145-001
 Project Manager: Norm Puri
 Sampled: 8/21/99
 Received: 8/23/99
 Reported: 9/3/99 14:02

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 North Creek Analytical - Bothell

Analyte	Batch	Date	Prepared	Analyzed	Surrogate	Reporting	Limit	Result	Units	Notes*
---------	-------	------	----------	----------	-----------	-----------	-------	--------	-------	--------

HA-1-7.5	Mineral Spirits Range Hydrocarbons	0891023	8/28/99	8/30/99	B908498-01	50.0-150	25.0	ND	mg/kg dry	Soil
HA-2-0.5	Mineral Spirits Range Hydrocarbons	0891023	8/28/99	8/30/99	B908498-02	50.0-150	25.0	409	mg/kg dry	Soil
HA-2-5.0	Mineral Spirits Range Hydrocarbons	0891023	8/28/99	8/30/99	B908498-03	50.0-150	25.0	25.0	mg/kg dry	Soil
Surrogate: 2-FBP								58.3	%	

* Refer to end of report for text of notes and definitions.

David Vandel, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
Spokane 425.420.9200 fax 425.420.9210
East 1115 Montgomery, Suite B, Spokane, WA 99206-4776
Portland 509.924.9200 fax 509.924.9290
4405 SW Nthrup Avenue, Beaverton, OR 97008-7132
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, WA 98005

Project: Scott Cleaners
Project Number: 0145-001
Project Manager: Norm Puri

Sampled: 8/21/99
Received: 8/23/99
Reported: 9/3/99 14:02

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Batch	Date	Prepared	Analysed	Surrogate	Limit	Result	Units	Notes*
---------	-------	------	----------	----------	-----------	-------	--------	-------	--------

HA-1-7.5
Acetone
Benzene
0891074 8/30/99 8/30/99
B908498-01
Soil mg/kg dry

Bromobenzene	"	"	"	"	"	0.100	ND		
Bromochloromethane	"	"	"	"	"	0.100	ND		
Bromodichloromethane	"	"	"	"	"	0.100	ND		
Bromoform	"	"	"	"	"	0.100	ND		
Bromomethane	"	"	"	"	"	0.100	ND		
2-Butanone	"	"	"	"	"	0.100	ND		
n-Butylbenzene	"	"	"	"	"	1.00	ND		
sec-Butylbenzene	"	"	"	"	"	0.100	0.111		
tert-Butylbenzene	"	"	"	"	"	0.100	0.109		
Carbon disulfide	"	"	"	"	"	0.100	ND		
Carbon tetrachloride	"	"	"	"	"	0.100	ND		
arobenzene	"	"	"	"	"	0.100	ND		
Chloroethane	"	"	"	"	"	0.100	ND		
Chloroform	"	"	"	"	"	0.100	ND		
Chloromethane	"	"	"	"	"	0.100	ND		
2-Chlorotoluene	"	"	"	"	"	0.500	ND		
4-Chlorotoluene	"	"	"	"	"	0.100	ND		
Dibromochloromethane	"	"	"	"	"	0.100	ND		
1,2-Dibromo-3-chloropropane	"	"	"	"	"	0.100	ND		
1,2-Dibromomethane	"	"	"	"	"	0.500	ND		
Dibromomethane	"	"	"	"	"	0.100	ND		
1,2-Dichlorobenzene	"	"	"	"	"	0.100	ND		
1,3-Dichlorobenzene	"	"	"	"	"	0.100	ND		
1,4-Dichlorobenzene	"	"	"	"	"	0.100	ND		
Dichlorodifluoromethane	"	"	"	"	"	0.100	ND		
1,1-Dichloroethane	"	"	"	"	"	0.100	ND		
1,2-Dichloroethane	"	"	"	"	"	0.100	ND		
1,1-Dichloroethene	"	"	"	"	"	0.100	ND		
cis-1,2-Dichloroethene	"	"	"	"	"	0.100	ND		
trans-1,2-Dichloroethene	"	"	"	"	"	0.100	6.34		
1,2-Dichloropropane	"	"	"	"	"	0.100	ND		
1,3-Dichloropropane	"	"	"	"	"	0.100	ND		
2,2-Dichloropropane	"	"	"	"	"	0.100	ND		
1,1-Dichloropropene	"	"	"	"	"	0.100	ND		
cis-1,3-Dichloropropene	"	"	"	"	"	0.100	ND		
trans-1,3-Dichloropropene	"	"	"	"	"	0.100	ND		

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

David Vandel, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite 8, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, WA 98005

Project: Scott Cleaners
Project Number: 0145-001
Project Manager: Norm Puri

Sampled: 8/21/99
Received: 8/23/99
Reported: 9/3/99 14:02

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>HA-I-7.5 (continued)</u>								
Ethylbenzene	0891074	8/30/99	8/30/99		0.100	ND	mg/kg dry	
Hexachlorobutadiene	"	"	"		0.100	ND	"	
2-Hexanone	"	"	"		1.00	ND	"	
Isopropylbenzene	"	"	"		0.100	ND	"	
p-Isopropyltoluene	"	"	"		0.100	0.193	"	
Methylene chloride	"	"	"		1.00	1.30	"	
4-Methyl-2-pentanone	"	"	"		1.00	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
n-Propylbenzene	"	"	"		0.100	ND	"	
Styrene	"	"	"		0.100	ND	"	
1,1,1,2-Tetrachloroethane	"	"	"		0.100	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.100	ND	"	
Tetrachloroethene	"	"	8/31/99		2.00	43.1	"	
uene	"	"	8/30/99		0.100	ND	"	
1,2,3-Trichlorobenzene	"	"	"		0.100	ND	"	
1,2,4-Trichlorobenzene	"	"	"		0.100	ND	"	
1,1,1-Trichloroethane	"	"	"		0.100	ND	"	
1,1,2-Trichloroethane	"	"	"		0.100	ND	"	
Trichloroethene	"	"	8/31/99		2.00	53.3	"	
Trichlorofluoromethane	"	"	8/30/99		0.100	ND	"	
1,2,3-Trichloropropane	"	"	"		0.100	ND	"	
1,2,4-Trimethylbenzene	"	"	"		0.100	ND	"	
1,3,5-Trimethylbenzene	"	"	"		0.100	0.154	"	
Vinyl chloride	"	"	"		0.100	ND	"	
m,p-Xylene	"	"	"		0.200	ND	"	
o-Xylene	"	"	"		0.100	ND	"	
Surrogate: 2-Bromopropene	"	"	"	70.0-130		55.0	%	1
Surrogate: 1,2-DCA-d4	"	"	"	70.0-130		63.8	"	1
Surrogate: Toluene-d8	"	"	"	70.0-130		73.2	"	
Surrogate: 4-BFB	"	"	"	70.0-130		68.1	"	1

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

David Vandel, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 4 of 14



Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
Spokane 425.420.9200 fax 425.420.9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
Portland 509.924.9200 fax 509.924.9290
9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
Bend 503.906.9200 fax 503.906.9210
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7568

Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, WA 98005

Project: Scott Cleaners
Project Number: 0145-001
Project Manager: Norm Puri

Sampled: 8/21/99
Received: 8/23/99
Reported: 9/3/99 14:02

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Batch	Number	Date	Prepared	Surrogate	Limit	Reporting	Units	Notes*
---------	-------	--------	------	----------	-----------	-------	-----------	-------	--------

HA-2-0.5	0891074	8/30/99	8/30/99	B908498-02	Soil	1.00	ND	mg/kg dry	
----------	---------	---------	---------	------------	------	------	----	-----------	--

Acetone	"	"	"	"	ND	0.100	ND		
Benzene	"	"	"	"	ND	0.100	ND		
Bromobenzene	"	"	"	"	ND	0.100	ND		
Bromochloromethane	"	"	"	"	ND	0.100	ND		
Bromodichloromethane	"	"	"	"	ND	0.100	ND		
Bromoform	"	"	"	"	ND	0.100	ND		
Bromomethane	"	"	"	"	ND	0.100	ND		
2-Butanone	"	"	"	"	ND	1.00	ND		
n-Butylbenzene	"	"	"	"	ND	0.100	ND		
sec-Butylbenzene	"	"	"	"	ND	0.100	ND		
tert-Butylbenzene	"	"	"	"	ND	0.100	ND		
Carbon disulfide	"	"	"	"	ND	0.100	ND		
Carbon tetrachloride	"	"	"	"	ND	0.100	ND		
orobenzene	"	"	"	"	ND	0.100	ND		
Chloroethane	"	"	"	"	ND	0.100	0.391		
Chloroform	"	"	"	"	ND	0.100	ND		
Chloromethane	"	"	"	"	ND	0.100	ND		
2-Chlorotoluene	"	"	"	"	ND	0.500	ND		
4-Chlorotoluene	"	"	"	"	ND	0.100	ND		
Dibromochloromethane	"	"	"	"	ND	0.100	ND		
1,2-Dibromo-3-chloropropane	"	"	"	"	ND	0.100	ND		
1,2-Dibromomethane	"	"	"	"	ND	0.500	ND		
Dibromomethane	"	"	"	"	ND	0.100	ND		
1,2-Dichlorobenzene	"	"	"	"	ND	0.100	ND		
1,3-Dichlorobenzene	"	"	"	"	ND	0.100	0.454		
1,4-Dichlorobenzene	"	"	"	"	ND	0.100	ND		
Dichlorodifluoromethane	"	"	"	"	ND	0.100	0.229		
1,1-Dichloroethane	"	"	"	"	ND	0.100	ND		
1,2-Dichloroethane	"	"	"	"	ND	0.100	ND		
cis-1,2-Dichloroethene	"	"	"	"	ND	0.100	ND		
trans-1,2-Dichloroethene	"	"	"	"	ND	0.100	ND		
1,2-Dichloropropane	"	"	"	"	ND	0.100	ND		
1,3-Dichloropropane	"	"	"	"	ND	0.100	ND		
2,2-Dichloropropane	"	"	"	"	ND	0.100	ND		
1,1-Dichloropropene	"	"	"	"	ND	0.100	ND		
cis-1,3-Dichloropropene	"	"	"	"	ND	0.100	ND		
trans-1,3-Dichloropropene	"	"	"	"	ND	0.100	ND		

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

David Vandel, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



www.ncalabs.com

Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, WA 98005

Project: Scott Cleaners
Project Number: 0145-001
Project Manager: Norm Puri

Sampled: 8/21/99
Received: 8/23/99
Reported: 9/3/99 14:02

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Batch	Date	Prepared	Date	Surrogate	Limit	Result	Units	Notes*
---------	-------	------	----------	------	-----------	-------	--------	-------	--------

HA-2-0.5 (continued)

Ethylbenzene	0891074	8/30/99	8/30/99	0.100	ND	mg/kg dry			
Hexachlorobutadiene	"	"	"	0.100	ND				
2-Hexanone	"	"	"	1.00	ND				
Isopropylbenzene	"	"	"	0.100	ND				
p-Isopropyltoluene	"	"	"	0.100	0.943				
Methylene chloride	"	"	"	0.100	0.217				
4-Methyl-2-pentanone	"	"	"	1.00	ND				
Naphthalene	"	"	"	1.00	ND				
n-Propylbenzene	"	"	"	0.100	ND				
Styrene	"	"	"	0.100	1.15				
1,1,2-Tetrachloroethane	"	"	"	0.100	ND				
1,1,2,2-Tetrachloroethane	"	"	"	0.100	0.586				
Tetrachloroethene	"	"	"	0.100	ND				
luene	"	"	"	50.0	6580				
1,2,3-Trichlorobenzene	"	"	"	0.100	0.109				
1,1,1-Trichloroethane	"	"	"	0.100	ND				
1,1,2-Trichloroethane	"	"	"	0.100	ND				
Trichloroethene	"	"	"	0.100	ND				
Trichlorofluoromethane	"	"	"	0.100	1.40				
1,2,3-Trichloropropane	"	"	"	0.100	ND				
1,2,4-Trichlorobenzene	"	"	"	0.100	ND				
1,3,5-Trichlorobenzene	"	"	"	0.100	0.716				
Vinyl chloride	"	"	"	0.100	1.86				
m,p-Xylene	"	"	"	0.100	ND				
o-Xylene	"	"	"	0.200	ND				
Surrogate: 2-Bromopropene	"	"	"	70.0-130	57.7	%			
Surrogate: 1,2-DC4-d4	"	"	"	70.0-130	72.1				
Surrogate: Toluene-d8	"	"	"	70.0-130	85.3				
Surrogate: 4-BFB	"	"	"	70.0-130	74.0				

h Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

David Vandel, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

**Refer to end of report for text of notes and definitions.*

h Creek Analytical - Bothell

[illegible]

HA-2-5.0

B908498-03

[illegible]

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Project: Scott Cleaners
Project Number: 0145-001
Project Manager: Norm Puri
Bellevue, WA 98005
13620 NE 20th Street, Suite J
Business Resources

Bellevue, WA 98005

13620 NE 20th Street, Suite J
Bellevue, WA 98004

Project Number: 0145-001

Project: Scott Cleaners

Project Manager: Norm Puri

Reported: 9/3/57 14:02

Received: 8/23/99

Sampled: 8/21/99
Revised: 8/23/99

Sampled: 8/21/99

Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
Portland 5405 SW Nimsup Avenue, Beaverton, OR 97008-7132
Bend 203032 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588



www.ncslabs.com



Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
Spokane 425.420.9200 fax 425.420.9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
Portland 509.924.9200 fax 509.924.9250
503 SW Nimbus Avenue, Beaverton, OR 97008-7132
Bend 503.906.9200 fax 503.906.9210
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.389.9310 fax 541.382.7568

Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, WA 98005

Project: Scott Cleaners
Project Number: 0145-001
Project Manager: Norm Puri

Sampled: 8/21/99
Received: 8/23/99
Reported: 9/3/99 14:02

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Batch	Date	Date	Surrogate	Reporting	Result	Units	Notes*
---------	-------	------	------	-----------	-----------	--------	-------	--------

HA-2-S-0 (continued)

0891074 8/30/99 8/30/99 B908498-03
Soil mg/kg dry

Ethylbenzene
Hexachlorobutadiene

2-Hexanone
Isopropylbenzene

p-Isopropyltoluene
Methylene chloride

4-Methyl-2-pentanone
Naphthalene

n-Propylbenzene
Styrene

1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane

trichloroethene
toluene

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene

1,1,1-Trichloroethane
1,1,2-Trichloroethane

Trichloroethene
Trichlorofluoromethane

1,2,3-Trichloropropane
1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene
Vinyl chloride

m,p-Xylene
o-Xylene

Surrogate: 2-Bromopropene
Surrogate: 1,2-DCA-d4

Surrogate: Toluene-d8
Surrogate: 4-BFB

70.0-130 70.0-130 70.0-130 70.0-130
60.2 % 72.4 79.6 69.2

North Creek Analytical - Bothell
David Vandel, Project Manager
*Refer to end of report for text of notes and definitions.

North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Result	Units
HA-1-7.5	B908498-01	Soil	67.0	%
HA-2-0.5	B908498-02	Soil	75.4	%
HA-2-5.0	B908498-03	Soil	71.8	%

Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, WA 98005

Project: Scott Cleaners
Project Number: 0145-001
Project Manager: Norm Puri

Sampled: 8/21/99
Received: 8/23/99
Reported: 9/3/99 14:02

Dry Weight Determination
North Creek Analytical - Bothell

Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
 Spokane East 11115 Monticomey, Suite B, Spokane, WA 99206-4776
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 425.420.9200 fax 425.420.9210
 509.924.9200 fax 509.924.9290
 503.906.9200 fax 503.906.9210
 541.383.9310 fax 541.382.7588





Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
 425.420.9200 fax 425.420.9210
 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.806.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Pinnacle GeoSciences 13620 NE 20th Street, Suite J Bellevue, WA 98005	Project: Scott Cleaners Project Number: 0145-001 Project Manager: Norm Puri	Sampled: 8/21/99 Received: 8/23/99 Reported: 9/3/99 14:02
---	---	---

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)/Quality Control
 North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0891023										
Blank										
		Date Prepared: 8/28/99			Extraction Method: EPA 3550B					
		0891023-BLK1								
Mineral Spirits Range Hydrocarbons	8/30/99			ND	mg/kg dry	25.0				
Surrogate: 2-FBP	"	10.7		5.71	"	50.0-150	53.4			
LCS										
		0891023-BS1								
Diesel Range Hydrocarbons	8/30/99	66.7		54.8	mg/kg dry	50.0-150	82.2			
Surrogate: 2-FBP	"	10.7		8.58	"	50.0-150	80.2			
Duplicate										
		0891023-DUP1			B908496-01					
Mineral Spirits Range Hydrocarbons	8/30/99		ND	ND	mg/kg dry			50.0		
Surrogate: 2-FBP	"	14.5		10.6	"	50.0-150	73.1			

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

David Vandel, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 10 of 14

**Refer to end of report for text of notes and definitions.*

th Creek Analytical - Bothell

Sample	Concentration (mg/kg dry)	Extraction Method
Blank	1.00	EPA 5030B [MeOH]
Acetone	1.00	EPA 5030B [MeOH]
Benzene	1.00	EPA 5030B [MeOH]
Bromobenzene	0.100	EPA 5030B [MeOH]
Bromochloromethane	0.100	EPA 5030B [MeOH]
Bromodichloromethane	0.100	EPA 5030B [MeOH]
Bromoflorm	0.100	EPA 5030B [MeOH]
Bromomethane	0.100	EPA 5030B [MeOH]
2-Butanone	0.100	EPA 5030B [MeOH]
n-Butylbenzene	1.00	EPA 5030B [MeOH]
sec-Butylbenzene	0.100	EPA 5030B [MeOH]
tert-Butylbenzene	0.100	EPA 5030B [MeOH]
Carbon disulfide	0.100	EPA 5030B [MeOH]
Carbon tetrachloride	0.100	EPA 5030B [MeOH]
Chlorobenzene	0.100	EPA 5030B [MeOH]
Chloroethane	0.100	EPA 5030B [MeOH]
Chloroform	0.100	EPA 5030B [MeOH]
Chloromethane	0.100	EPA 5030B [MeOH]
2-Chlorotoluene	0.500	EPA 5030B [MeOH]
4-Chlorotoluene	0.100	EPA 5030B [MeOH]
Dibromochloromethane	0.100	EPA 5030B [MeOH]
1,2-Dibromo-3-chloropropane	0.500	EPA 5030B [MeOH]
1,2-Dibromomethane	0.100	EPA 5030B [MeOH]
1,2-Dichlorobenzene	0.100	EPA 5030B [MeOH]
1,3-Dichlorobenzene	0.100	EPA 5030B [MeOH]
1,4-Dichlorobenzene	0.100	EPA 5030B [MeOH]
Dichlorodifluoromethane	0.100	EPA 5030B [MeOH]
1,1-Dichloroethane	0.100	EPA 5030B [MeOH]
1,2-Dichloroethane	0.100	EPA 5030B [MeOH]
cis-1,2-Dichloroethene	0.100	EPA 5030B [MeOH]
trans-1,2-Dichloroethene	0.100	EPA 5030B [MeOH]
1,2-Dichloropropane	0.100	EPA 5030B [MeOH]
1,3-Dichloropropane	0.100	EPA 5030B [MeOH]
2,2-Dichloropropane	0.100	EPA 5030B [MeOH]
1,1-Dichloropropene	0.100	EPA 5030B [MeOH]
cis-1,3-Dichloropropene	0.100	EPA 5030B [MeOH]

Extraction Method: EPA 5030B [MeOH]

Date Prepared: 8/30/99

Batch: 0891074

Analyte	Date	Spike Level	Sample Result	QC Result	Reporting Units	Recovery Limit	% Recovery	RPD Limit	RPD	% Notes*
---------	------	-------------	---------------	-----------	-----------------	----------------	------------	-----------	-----	----------

North Creek Analytical - Bothell

Sampled:	8/21/99
Received:	8/23/99
Reported:	9/3/99 14:02

Project:	Scott Cleaners
Project Number:	0145-001
Project Manager:	Norm Puri

Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, WA 98005

Pinnacle GeoSciences

Plumage Characteristics

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26



www.ncslabs.com

Seallie
18393 1201th Avenue NE, Suite 101, Bothell, WA 98011-9508
425-420,2900 fax 425-420,2910
East 1115 Montgomerly, Suite 3, Spokane, WA 99206-4776
509-924,9200 fax 509-924,9290
Portland
9405 SW Nilpmus Avenue, Beaverton, OR 97008-7132
503-906,9200 fax 503-503,9210
Bend
20323 Empire Avenue, Suite 1-1, Bend, OR 97071-5711
541-383,9310 fax 541-382,7588



Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Pinnacle GeoSciences 13620 NE 20th Street, Suite J Bellevue, WA 98005	Project: Scott Cleaners Project Number: 0145-001 Project Manager: Norm Puri	Sampled: 8/21/99 Received: 8/23/99 Reported: 9/3/99 14:02
---	---	---

Volatile Organic Compounds by EPA Method 8260B/Quality Control
North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recovery Limits	Recovery %	RPD Limit	RPD %	Notes*
Blank (continued)										
	0891074-BLK1									
trans-1,3-Dichloropropene	9/1/99			ND	mg/kg dry	0.100				
Ethylbenzene	"			ND	"	0.100				
Hexachlorobutadiene	"			ND	"	0.100				
2-Hexanone	"			ND	"	1.00				
Isopropylbenzene	"			ND	"	0.100				
p-Isopropyltoluene	"			ND	"	0.100				
Methylene chloride	"			ND	"	1.00				
4-Methyl-2-pentanone	"			ND	"	1.00				
Naphthalene	"			ND	"	0.100				
n-Propylbenzene	"			ND	"	0.100				
Styrene	"			ND	"	0.100				
1,1,1,2-Tetrachloroethane	"			ND	"	0.100				
1,1,2,2-Tetrachloroethane	"			ND	"	0.100				
Trichloroethene	"			ND	"	0.100				
Toluene	"			ND	"	0.100				
1,2,3-Trichlorobenzene	"			ND	"	0.100				
1,2,4-Trichlorobenzene	"			ND	"	0.100				
1,1,1-Trichloroethane	"			ND	"	0.100				
1,1,2-Trichloroethane	"			ND	"	0.100				
Trichloroethene	"			ND	"	0.100				
Trichlorofluoromethane	"			ND	"	0.100				
1,2,3-Trichloropropane	"			ND	"	0.100				
1,2,4-Trimethylbenzene	"			ND	"	0.100				
1,3,5-Trimethylbenzene	"			ND	"	0.100				
Vinyl chloride	"			ND	"	0.100				
m,p-Xylene	"			ND	"	0.200				
o-Xylene	"			ND	"	0.100				
Surrogate: 2-Bromopropene	"	2.00		1.46	"	70.0-130	73.0			
Surrogate: 1,2-DCA-d4	"	2.00		1.63	"	70.0-130	81.5			
Surrogate: Toluene-d8	"	2.00		2.01	"	70.0-130	100			
Surrogate: 4-BFB	"	2.00		1.84	"	70.0-130	92.0			
LCS										
	0891074-BS1									
Benzene	8/30/99	1.00		0.972	mg/kg dry	70.0-130	97.2			
Chlorobenzene	"	1.00		0.948	"	70.0-130	94.8			
1,1-Dichloroethene	"	1.00		0.804	"	70.0-130	80.4			
Toluene	"	1.00		0.946	"	70.0-130	94.6			
Trichloroethene	"	1.00		0.995	"	70.0-130	99.5			

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

David Vandell, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 12 of 14



Seattle 1839 120th Avenue NE, Suite 101, Bothell, WA 98011-9508
Spokane 425.420.9200 fax 425.420.9210
East 1115 Montgomery, Suite B, Spokane, WA 99205-4775
Portland 509.924.9200 fax 509.924.9290
9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Pinnacle GeoSciences
13620 NE 20th Street, Suite J
Bellevue, WA 98005

Project: Scott Cleaners
Project Number: 0145-001
Project Manager: Norm Puri

Sampled: 8/21/99
Received: 8/23/99
Reported: 9/3/99 14:02

Volatile Organic Compounds by EPA Method 8260B/Quality Control

North Creek Analytical - Bothell

Analyte	Date	Spike	Sample	QC	Units	Reporting Limit	Recovery	% Limit	RPD	% Notes
---------	------	-------	--------	----	-------	-----------------	----------	---------	-----	---------

LCS (continued)										
Surrogate: 2-Bromopropene	8/30/99	2.00	1.56	mg/kg dry	70.0-130	78.0				
Surrogate: 1,2-DCA-d4		2.00	1.57	"	70.0-130	78.5				
Surrogate: Toluene-d8		2.00	1.92	"	70.0-130	96.0				
Surrogate: 4-BFB		2.00	1.78	"	70.0-130	89.0				

Matrix Spike										
Benzenes	0891074-MS1	8/31/99	1.15	ND	1.00	mg/kg dry	70.0-130	87.0		
Chlorobenzene			1.15	ND	0.973		70.0-130	84.6		
1,1-Dichloroethene			1.15	ND	0.780		70.0-130	67.8		
Toluene			1.15	ND	0.954		70.0-130	83.0		
Trichloroethene			1.15	ND	1.05		70.0-130	91.3		
Surrogate: 2-Bromopropene		2.31	1.61	"	70.0-130	69.7				
Surrogate: 1,2-DCA-d4		2.31	1.73	"	70.0-130	74.9				
Surrogate: Toluene-d8		2.31	2.06	"	70.0-130	89.2				
Surrogate: 4-BFB		2.31	1.82	"	70.0-130	78.8				

Matrix Spike Dup										
Benzenes	0891074-MSD1	8/31/99	1.15	ND	0.988	mg/kg dry	70.0-130	85.9		
Chlorobenzene			1.15	ND	1.00		70.0-130	87.0		
1,1-Dichloroethene			1.15	ND	0.769		70.0-130	66.9		
Toluene			1.15	ND	0.970		70.0-130	84.3		
Trichloroethene			1.15	ND	0.996		70.0-130	86.6		
Surrogate: 2-Bromopropene		2.31	1.58	"	70.0-130	68.4				
Surrogate: 1,2-DCA-d4		2.31	1.64	"	70.0-130	71.0				
Surrogate: Toluene-d8		2.31	1.96	"	70.0-130	84.8				
Surrogate: 4-BFB		2.31	1.77	"	70.0-130	76.6				

h Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

North Creek Analytical, Inc.
Environmental Laboratory Network



**ORTH
CREEK
ANALYTICAL**
Environmental Laboratory Services

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

(425) 420-9200 FAX 420-9210
(509) 924-9200 FAX 924-9290
(503) 906-9200 FAX 906-9210

CHAIN OF CUSTODY REPORT

Work Order #

B908498

REPORT TO: *Pinnacle Geosciences*

ATTENTION: *Norm Puri*

ADDRESS:

PHONE: *425.649.1108*

FAX: *425.649.7537*

PROJECT NAME: *Scott Cleaners*

PROJECT NUMBER: *Q145-001*

SAMPLED BY: *NLP*

INVOICE TO:

ATTENTION:

ADDRESS:

P.O. NUMBER:

NCA QUOTE #:

Analysis
Request:

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses

☒ 10	☐ 7	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1	☐ Same Day
--	----------------------------	----------------------------	----------------------------	----------------------------	----------------------------	----------------------------	-----------------------------------

Fuels & Hydrocarbon Analyses

☐ 5	☐ 3-4	☐ 2	☐ 1	☐ Same Day
----------------------------	------------------------------	----------------------------	----------------------------	-----------------------------------

OTHER

Specify:

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)											MATRIX (W. S. A. O)	# OF CONTAINERS	COMMENTS
1. HA-1-7.5	8/21 190	B908498-01	X	X									5	2	
2. HA-2-0.5	1035	02	X	X									↓	↓	
3. HA-2-5.0	1100	03	X	X											
4.															
5.															
6.															
7.															
8.															
9.															
10.															

RELINQUISHED BY (Signature): <i>[Signature]</i>	DATE: <i>8/23/99</i>	RECEIVED BY (Signature): <i>Bille Kunithocm</i>	DATE: <i>8/23/99</i>
PRINT NAME: <i>Norman L. Puri</i>	FIRM: <i>Pinnacle GeoSci</i>	PRINT NAME: <i>Bille Kunithocm</i>	FIRM: <i>NCA</i>
RELINQUISHED BY (Signature): <i>[Signature]</i>	DATE: <i>14:00</i>	RECEIVED BY (Signature): <i>Cathy Nichols</i>	DATE: <i>8/23/99</i>
PRINT NAME:	FIRM: <i>NCA</i>	PRINT NAME: <i>Cathy Nichols</i>	FIRM: <i>NCA</i>
ADDITIONAL REMARKS: <i>Quantity NWTPH-G to what ever standard most closely matches Stoddard solvent. Please contact Steve Porriago or Norm Puri before testing it 8021 analytes list does not include carbon tetrachloride. Each sample consists of two containers. Please use the containers marked "1/2" for TPH-G and "1/2" for 8021</i>		20.6 <i>u</i> 0	