



Chevron

Chevron Products Company
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San Ramon, California 94583-0904

Philip R. Briggs
Project Manager
Site Assessment & Remediation
Phone: 925-842-8376
Fax: 925-842-8370

facsimile transmittal

To: Scott Seery Fax: 510 337-9335

From: Phil Briggs Date: [REDACTED]

Re: Soil Analysis Results Pages: 26

CC:

Urgent For Review Please Comment Please Reply Estimate Request

Attached are the lab data sheets, less the quality control sheets, for the soil analysis that were taken at SS# 98139, 16304 Foothill, San Leandro. I discussed the results with the lab in Petaluma and they diluted some of samples, but it appears that they failed to note this on the data sheets. The lab said that they would correct the sheets with a note denoting which samples were diluted.

I will be on the site this afternoon about 3 PM to over excavate in the areas previously noted.

.....

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Petaluma, CA 94954
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**SEQUOIA ANALYTICAL
Petaluma Laboratory**

Fax

To: Phil Briggs From: Scott Jakes
Fax: (925) 842-8370 Pages: 3
Date: 10/30 CC:
Re: Torchstone - Chevron project 8810399

- Urgent For Review Please Comment Please Reply Please Recycle

• Comments:
Results

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October 30, 1998

Mr. Jeff Monroe
Touchstone Developments
PO Box 2554
Santa Rosa, CA 95405

RE: Chevron/General/P810399

Dear Mr. Jeff Monroe

Enclosed are the results of analyses for sample(s) received by the laboratory on October 27, 1998. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Debbie Leibensberger
Project Manager

CA ELAP Certificate Number 2245



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Touchstone Developments
PO Box 2554
Santa Rosa, CA 95405

Project: Chevron/General
Project Number: 9-8139
Project Manager: Mr. Jeff Monroe

Sampled: 10/26/98
Received: 10/27/98
Reported: 10/30/98

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes
PS10399-01								
Gasoline	8100492	10/28/98	10/28/98		1000	3900	Soil ug/kg	3.9
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		OK 5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			90.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			94.3	"	
PS10399-02								
Gasoline	8100492	10/28/98	10/28/98		1000	ND	Soil ug/kg	41.0
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		OK 5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	36.4	"	0.364
Surrogate: a,a,a-Trifluorotoluene	"	"	"			89.0	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			90.0	"	
PS10399-03								
Gasoline	8100492	10/28/98	10/28/98		1000	ND	Soil ug/kg	41.0
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		OK 5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			89.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			90.0	"	
PS10399-04								
CLR-6 Gasoline	8100492	10/28/98	10/28/98		2000	4720	Soil ug/kg	4.72
Benzene	"	"	"		10.0	ND	"	
Toluene	"	"	"		too 10.0	ND	"	40.01
Ethylbenzene	"	"	"		high 10.0	ND	"	
Xylenes (total)	"	"	"		20.0	ND	"	
Methyl tert-butyl ether	"	"	"		50.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			89.0	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			100	"	
PS10399-08								
AN-14 Gasoline	8100513	10/28/98	10/28/98		too high 400000	ND	Soil ug/kg	< 400

Wash 0.1

classifies

Sequoia Analytical - Petaluma

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



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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 10/30/98
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
				P810399-08				
AN-14 (continued)							Soil	
Benzene	8100513	10/28/98	10/28/98		2000	ND	ug/kg	< 2
Toluene	"	"	"		2000	ND	"	"
Ethylbenzene	"	"	"		2000	ND	"	"
Xylenes (total)	"	"	"		4000	ND	"	"
Methyl tert-butyl ether	"	"	"		10000	ND	"	< 10
Surrogate: a,a,a-Trifluorotoluene	"	"	"			105	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			104	"	
				P810399-09				
AS-14							Soil	
Gasoline	8100513	10/28/98	10/28/98		40000	ND	ug/kg	< 40
Benzene	"	"	"		200	ND	"	< 0.2
Toluene	"	"	"		200	ND	"	"
Ethylbenzene	"	"	"		200	ND	"	"
Xylenes (total)	"	"	"		400	726	"	"
Methyl tert-butyl ether	"	"	"		1000	12700	"	12.7
Surrogate: a,a,a-Trifluorotoluene	"	"	"			102	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			97.3	"	
				P810399-10				
BN-14							Soil	
Gasoline	8100513	10/28/98	10/28/98		40000	154000	ug/kg	154
Benzene	"	"	"		200	ND	"	< 0.2
Toluene	"	"	"		200	ND	"	"
Ethylbenzene	"	"	"		200	875	"	"
Xylenes (total)	"	"	"		400	9860	"	9.86
Methyl tert-butyl ether	"	"	"		1000	1410	"	1.41
Surrogate: a,a,a-Trifluorotoluene	"	"	"			101	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			99.3	"	
				P810399-11				
BS-14							Soil	
Gasoline	8100513	10/28/98	10/28/98		40000	ND	ug/kg	< 40
Benzene	"	"	"		200	ND	"	< 0.2
Toluene	"	"	"		200	ND	"	"
Ethylbenzene	"	"	"		200	ND	"	"
Xylenes (total)	"	"	"		400	ND	"	"
Methyl tert-butyl ether	"	"	"		1000	7690	"	7.69
Surrogate: a,a,a-Trifluorotoluene	"	"	"			104	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			97.0	"	
				P810399-12				
CN-14							Soil	
Gasoline	8100492	10/28/98	10/28/98		1000	ND	ug/kg	
Benzene	"	"	"		5.00	ND	"	

Sequoia Analytical - Petaluma

*Refer to end of report for text of notes and definition



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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 10/30/98
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
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<u>CN-1& (continued)</u>		<u>P810399-12</u>				<u>Soil</u>
						<u>ug/kg</u>
Toluene	8100492	10/28/98	10/28/98		5.00	ND
Ethylbenzene	"	"	"		5.00	6.22
Xylenes (total)	"	"	"		10.0	17.7
Methyl tert-butyl ether	"	"	"		25.0	ND
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"			93.7
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"			96.3
<hr/>						
<u>CS-14</u>		<u>P810399-13</u>				<u>Soil</u>
Gasoline	8100513	10/28/98	10/28/98	too high	40000	ND
Benzene	"	"	"		200	ND
Toluene	"	"	"		200	ND
Ethylbenzene	"	"	"		200	ND
Xylenes (total)	"	"	"		400	ND
Methyl tert-butyl ether	"	"	"		1000	7510
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"			100
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"			96.0
<hr/>						
<u>P1-2</u>		<u>P810399-14</u>				<u>Soil</u>
Gasoline	8100492	10/28/98	10/28/98		2000	11400
Benzene	"	"	"		10.0	434
Toluene	"	"	"		10.0	359
Ethylbenzene	"	"	"		10.0	268
Xylenes (total)	"	"	"		20.0	1290
Methyl tert-butyl ether	"	"	"		50.0	3470
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"			88.3
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"			90.0
<hr/>						
<u>P2-2</u>		<u>P810399-15</u>				<u>Soil</u>
Gasoline	8100492	10/28/98	10/28/98	too high	2000	ND
Benzene	"	"	"		10.0	ND
Toluene	"	"	"		10.0	ND
Ethylbenzene	"	"	"		10.0	ND
Xylenes (total)	"	"	"		20.0	ND
Methyl tert-butyl ether	"	"	"		50.0	778
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"			87.0
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"			91.3
<hr/>						
<u>P3-2</u>		<u>P810399-16</u>				<u>Soil</u>
Gasoline	8100513	10/28/98	10/28/98	too high	400000	ND
Benzene	"	"	"		2000	ND
Toluene	"	"	"		2000	ND

Sequoia Analytical - Palmdale

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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 10/30/98
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
P3-2 (continued)				P810399-16			Soil	
Ethylbenzene	8100513	10/28/98	10/28/98		2000	ND	ug/kg	
Xylenes (total)	"	"	"		4000	ND	"	
Methyl tert-butyl ether	"	"	"		10000	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			108	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			107	"	
P4-2				P810399-17			Soil	
Gasoline	8100513	10/28/98	10/28/98		400000	1560000	ug/kg	1560
Benzene	"	"	"		2000	ND	"	< 2
Toluene	"	"	"		2000	5240	"	5.24
Ethylbenzene	"	"	"		2000	30600	"	30.6
Xylenes (total)	"	"	"		4000	8460	"	8.46
Methyl tert-butyl ether	"	"	"		10000	ND	"	< 10
Surrogate: a,a,a-Trifluorotoluene	"	"	"			108	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			146	"	1
P5-3				P810399-18			Soil	
Gasoline	8100492	10/28/98	10/28/98		1000	1060	ug/kg	1.06
Benzene	"	"	"		5.00	28.0	"	0.022
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	7.49	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	283	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			84.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			85.0	"	
P6-3				P810399-19			Soil	
Gasoline	8100492	10/28/98	10/28/98		2000	13300	ug/kg	13.3
Benzene	"	"	"		10.0	372	"	
Toluene	"	"	"		10.0	90.0	"	
Ethylbenzene	"	"	"		10.0	248	"	
Xylenes (total)	"	"	"		20.0	1150	"	
Methyl tert-butyl ether	"	"	"		50.0	2260	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			87.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			90.3	"	
UOSP-1(A-D)				P810399-20			Soil	
Gasoline	8100492	10/28/98	10/28/98		1000	ND	ug/kg	
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	

PIP
 V
 10/30/98

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Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes
<u>UOSP-1(A-D) (continued)</u>				<u>P810399-20</u>			<u>Soil</u>	
Xylenes (total)	8100492	10/28/98	10/28/98		10.0	ND	ug/kg	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"			84.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			87.0	"	
<u>SP-1(A-D)</u>				<u>P810399-21</u>			<u>Soil</u>	
Gasoline	8100492	10/28/98	10/28/98		1000	ND	ug/kg	
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	OK
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	87.9	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"			82.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			86.0	"	
<u>SP-2(A-D)</u>				<u>P810399-22</u>			<u>Soil</u>	
Gasoline	8100513	10/28/98	10/28/98		40000	342000	ug/kg	342
Benzene	"	"	"		200	ND	"	< 0.2
Toluene	"	"	"		200	1300	"	1.3
Ethylbenzene	"	"	"		200	3780	"	3.78
Xylenes (total)	"	"	"		400	11100	"	11.1
Methyl tert-butyl ether	"	"	"		1000	ND	"	< 1
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"			48.3	%	1
Surrogate: 4-Bromofluorobenzene	"	"	"			65.3	"	

find use surrogate
P810399-22
P810399-21

too high



Sequoia Analytical

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Project: Chevron/General
 Project Number: 9-8139
 Project Manager: Mr. Jeff Monroe

Sampled: 10/26/98
 Received: 10/27/98
 Reported: 10/30/98

Volatile Organic Compounds by EPA Method
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
				PS10399-01			Soil	
							ug/kg	
Bromodichloromethane	8100549	10/27/98	10/27/98		50.0	ND	"	
Bromoforn	"	"	"		50.0	ND	"	
Bromomethane	"	"	"		50.0	ND	"	
Carbon tetrachloride	"	"	"		50.0	ND	"	
Chlorobenzene	"	"	"		50.0	ND	"	
Chloroethane	"	"	"		500	ND	"	
2-Chloroethylvinyl ether	"	"	"		50.0	ND	"	
Chloroform	"	"	"		50.0	ND	"	
Chloromethane	"	"	"		50.0	ND	"	
Dibromochloromethane	"	"	"		50.0	ND	"	
1,2-Dibromoethane (EDB)	"	"	"		50.0	ND	"	
1,2-Dichlorobenzene	"	"	"		50.0	ND	"	
1,3-Dichlorobenzene	"	"	"		50.0	ND	"	
1,4-Dichlorobenzene	"	"	"		50.0	ND	"	
Dichlorodifluoromethane	"	"	"		50.0	ND	"	
1,1-Dichloroethane	"	"	"		50.0	ND	"	
1,2-Dichloroethane	"	"	"		50.0	ND	"	
1,1-Dichloroethene	"	"	"		50.0	ND	"	
cis-1,2-Dichloroethene	"	"	"		50.0	ND	"	
trans-1,2-Dichloroethene	"	"	"		50.0	ND	"	
1,2-Dichloropropane	"	"	"		50.0	ND	"	
cis-1,3-Dichloropropene	"	"	"		50.0	ND	"	
trans-1,3-Dichloropropene	"	"	"		50.0	ND	"	
Freon 113	"	"	"		50.0	ND	"	
Methylene chloride	"	"	"		50.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		50.0	ND	"	
Tetrachloroethene	"	"	"		50.0	ND	"	
1,1,2-Trichloroethane	"	"	"		50.0	ND	"	
1,1,1-Trichloroethane	"	"	"		50.0	ND	"	
Trichloroethene	"	"	"		50.0	ND	"	
Trichlorofluoromethane	"	"	"		50.0	ND	"	
Vinyl chloride	"	"	"		50.0	ND	"	
Surrogate: Bromochloromethane						102	%	
Surrogate: 1,4-Dichlorobutane						102	"	



Sequoia Analytical

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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 10/30/98
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Volatile Organic Compounds by EPA Method
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
				P810399-02			Soil	
Bromodichloromethane	8100549	10/27/98	10/27/98		50.0	ND	ug/kg	
Bromoform	"	"	"		50.0	ND	"	
Bromomethane	"	"	"		50.0	ND	"	
Carbon tetrachloride	"	"	"		50.0	ND	"	
Chlorobenzene	"	"	"		50.0	ND	"	
Chloroethane	"	"	"		50.0	ND	"	
2-Chloroethylvinyl ether	"	"	"		500	ND	"	
Chloroform	"	"	"		50.0	ND	"	
Chloromethane	"	"	"		50.0	ND	"	
Dibromochloromethane	"	"	"		50.0	ND	"	
1,2-Dibromoethane (EDB)	"	"	"		50.0	ND	"	
1,2-Dichlorobenzene	"	"	"		50.0	ND	"	
1,3-Dichlorobenzene	"	"	"		50.0	ND	"	
1,4-Dichlorobenzene	"	"	"		50.0	ND	"	
Dichlorodifluoromethane	"	"	"		50.0	ND	"	
1,1-Dichloroethane	"	"	"		50.0	ND	"	
1,2-Dichloroethane	"	"	"		50.0	ND	"	
1,1-Dichloroethene	"	"	"		50.0	ND	"	
cis-1,2-Dichloroethene	"	"	"		50.0	ND	"	
trans-1,2-Dichloroethene	"	"	"		50.0	ND	"	
1,2-Dichloropropane	"	"	"		50.0	ND	"	
cis-1,3-Dichloropropene	"	"	"		50.0	ND	"	
trans-1,3-Dichloropropene	"	"	"		50.0	ND	"	
Freon 113	"	"	"		50.0	ND	"	
Methylene chloride	"	"	"		50.0	ND	"	
1,1,1,3-Tetrachloroethane	"	"	"		50.0	ND	"	
Tetrachloroethene	"	"	"		50.0	ND	"	
1,1,2-Trichloroethane	"	"	"		50.0	ND	"	
1,1,1-Trichloroethane	"	"	"		50.0	ND	"	
Trichloroethene	"	"	"		50.0	ND	"	
Trichlorofluoromethane	"	"	"		50.0	ND	"	
Vinyl chloride	"	"	"		50.0	ND	"	
Surrogate: Bromochloromethane	"	"	"			103	%	
Surrogate: 1,4-Dichlorobutane	"	"	"			102	"	



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Volatile Organic Compounds by EPA Method
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
				<u>P810399-03</u>				
							Soil	
							ug/kg	
Bromodichloromethane	8100549	10/27/98	10/27/98		50.0	ND		
Bromoform	"	"	"		50.0	ND		
Bromomethane	"	"	"		50.0	ND		
Carbon tetrachloride	"	"	"		50.0	ND		
Chlorobenzene	"	"	"		50.0	ND		
Chloroethane	"	"	"		500	ND		
2-Chloroethylvinyl ether	"	"	"		50.0	ND		
Chloroform	"	"	"		50.0	ND		
Chloromethane	"	"	"		50.0	ND		
Dibromochloromethane	"	"	"		50.0	ND		
1,2-Dibromoethane (EDB)	"	"	"		50.0	ND		
1,2-Dichlorobenzene	"	"	"		50.0	ND		
1,3-Dichlorobenzene	"	"	"		50.0	ND		
1,4-Dichlorobenzene	"	"	"		50.0	ND		
Dichlorodifluoromethane	"	"	"		50.0	ND		
1,1-Dichloroethane	"	"	"		50.0	ND		
1,2-Dichloroethane	"	"	"		50.0	ND		
1,1-Dichloroethene	"	"	"		50.0	ND		
cis-1,2-Dichloroethene	"	"	"		50.0	ND		
trans-1,2-Dichloroethene	"	"	"		50.0	ND		
1,2-Dichloropropane	"	"	"		50.0	ND		
cis-1,3-Dichloropropene	"	"	"		50.0	ND		
trans-1,3-Dichloropropene	"	"	"		50.0	ND		
Freon 113	"	"	"		50.0	ND		
Methylene chloride	"	"	"		50.0	ND		
1,1,2,2-Tetrachloroethane	"	"	"		50.0	ND		
Tetrachloroethene	"	"	"		50.0	ND		
1,1,2-Trichloroethane	"	"	"		50.0	ND		
1,1,1-Trichloroethane	"	"	"		50.0	ND		
Trichloroethene	"	"	"		50.0	ND		
Trichlorofluoromethane	"	"	"		50.0	ND		
Vinyl chloride	"	"	"		50.0	ND		
Surrogate: Bromochloromethane	"	"	"			104	%	
Surrogate: 1,4-Dichlorobutane	"	"	"			98.3	%	



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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 10/30/98
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**Volatile Organic Compounds by EPA Method 8010B
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
				<u>P810399-04</u>			<u>Soil</u>	
CLR-6							ug/kg	
Bromodichloromethane	8100549	10/27/98	10/27/98		50.0	ND	"	
Bromoform	"	"	"		50.0	ND	"	
Bromomethane	"	"	"		50.0	ND	"	
Carbon tetrachloride	"	"	"		50.0	ND	"	
Chlorobenzene	"	"	"		50.0	ND	"	
Chloroethane	"	"	"		500	ND	"	
2-Chloroethylvinyl ether	"	"	"		50.0	ND	"	
Chloroform	"	"	"		50.0	ND	"	
Chloromethane	"	"	"		50.0	ND	"	
Dibromochloromethane	"	"	"		50.0	ND	"	
1,2-Dibromoethane (EOB)	"	"	"		50.0	ND	"	
1,2-Dichlorobenzene	"	"	"		50.0	ND	"	
1,3-Dichlorobenzene	"	"	"		50.0	ND	"	
1,4-Dichlorobenzene	"	"	"		50.0	ND	"	
Dichlorodifluoromethane	"	"	"		50.0	ND	"	
1,1-Dichloroethane	"	"	"		50.0	ND	"	
1,2-Dichloroethane	"	"	"		50.0	ND	"	
1,1-Dichloroethene	"	"	"		50.0	ND	"	
cis-1,2-Dichloroethene	"	"	"		50.0	ND	"	
trans-1,2-Dichloroethene	"	"	"		50.0	ND	"	
1,3-Dichloropropane	"	"	"		50.0	ND	"	
cis-1,3-Dichloropropene	"	"	"		50.0	ND	"	
trans-1,3-Dichloropropene	"	"	"		50.0	ND	"	
Freon 113	"	"	"		50.0	ND	"	
Methylene chloride	"	"	"		50.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		50.0	ND	"	
Tetrachloroethene	"	"	"		50.0	ND	"	
1,1,2-Trichloroethane	"	"	"		50.0	ND	"	
1,1,1-Trichloroethane	"	"	"		50.0	ND	"	
Trichloroethene	"	"	"		50.0	ND	"	
Trichlorofluoromethane	"	"	"		50.0	ND	"	
Vinyl chloride	"	"	"		50.0	ND	"	
Surrogate: Bromochloromethane	"	"	"			103	%	
Surrogate: 1,4-Dichlorobutane	"	"	"			103	"	

Sequoia Analytical - Petaluma

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



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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General	Sampled: 10/26/98
	Project Number: 9-8139	Received: 10/27/98
	Project Manager: Mr. Jeff Monroe	Reported: 10/30/98

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
U0SP-1(A-D)				P810399-20			Soil	
Acetone	8100510	10/29/98	10/29/98		20.0	ND	ug/kg	
Benzene	"	"	"		5.00	ND	"	
Bromobenzene	"	"	"		5.00	ND	"	
Bromochloromethane	"	"	"		5.00	ND	"	
Bromodichloromethane	"	"	"		5.00	ND	"	
Bromoform	"	"	"		5.00	ND	"	
Bromomethane	"	"	"		10.0	ND	"	
2-Butanone	"	"	"		5.00	ND	"	
n-Butylbenzene	"	"	"		5.00	ND	"	
sec-Butylbenzene	"	"	"		5.00	ND	"	
tert-Butylbenzene	"	"	"		10.0	ND	"	
Carbon disulfide	"	"	"		5.00	ND	"	
Carbon tetrachloride	"	"	"		5.00	ND	"	
Chlorobenzene	"	"	"		5.00	ND	"	
Chloroethane	"	"	"		5.00	ND	"	
2-Chloroethylvinyl ether	"	"	"		5.00	ND	"	
Chloroform	"	"	"		5.00	ND	"	
Chloromethane	"	"	"		5.00	ND	"	
2-Chlorotoluene	"	"	"		5.00	ND	"	
4-Chlorotoluene	"	"	"		5.00	ND	"	
Dibromochloromethane	"	"	"		5.00	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		5.00	ND	"	
1,2-Dibromoethane (EDB)	"	"	"		5.00	ND	"	
Dibromomethane	"	"	"		5.00	ND	"	
1,2-Dichlorobenzene	"	"	"		5.00	ND	"	
1,3-Dichlorobenzene	"	"	"		5.00	ND	"	
1,4-Dichlorobenzene	"	"	"		5.00	ND	"	
Dichlorodifluoromethane	"	"	"		5.00	ND	"	
1,1-Dichloroethane	"	"	"		5.00	ND	"	
1,2-Dichloroethane	"	"	"		5.00	ND	"	
1,1-Dichloroethene	"	"	"		5.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		5.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		5.00	ND	"	
1,2-Dichloropropane	"	"	"		5.00	ND	"	
1,3-Dichloropropane	"	"	"		5.00	ND	"	
2,2-Dichloropropane	"	"	"		5.00	ND	"	
1,1-Dichloropropene	"	"	"		5.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		5.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Front 113	"	"	"		5.00	ND	"	

Sequoia Analytical - Petaluma

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Touchstone Developments
PO Box 2554
Santa Rosa, CA 95405

Project: Chevron/General
Project Number: 9-8139
Project Manager: Mr. Jeff Monroe

Sampled: 10/26/98
Received: 10/27/98
Reported: 10/30/98

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
UOSP-1(A-D) (continued)				P810399-20			Soil	
Hexachlorobutadiene	8100510	10/29/98	10/29/98		5.00	ND	ug/kg	
2-Hexanone	"	"	"		10.0	ND	"	
Isopropylbenzene	"	"	"		5.00	ND	"	
n-Isopropyltoluene	"	"	"		5.00	ND	"	2
4-Methyl-2-pentanone	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
n-Propylbenzene	"	"	"		5.00	ND	"	
Styrene	"	"	"		5.00	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		5.00	ND	"	
1,1,1,2-Tetrachloroethane	"	"	"		5.00	ND	"	
Tetrachloroethene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
1,2,3-Trichlorobenzene	"	"	"		5.00	ND	"	
1,2,4-Trichlorobenzene	"	"	"		5.00	ND	"	
1,1,2-Trichloroethane	"	"	"		5.00	ND	"	
1,1,1-Trichloroethane	"	"	"		5.00	ND	"	
Trichloroethene	"	"	"		5.00	ND	"	
Trichlorofluoromethane	"	"	"		5.00	ND	"	
1,3,3-Trichloropropane	"	"	"		5.00	ND	"	
1,3,5-Trimethylbenzene	"	"	"		5.00	ND	"	
1,2,4-Trimethylbenzene	"	"	"		10.0	ND	"	
Vinyl acetate	"	"	"		5.00	ND	"	
Vinyl chloride	"	"	"		5.00	ND	"	
m,p-Xylene	"	"	"		5.00	ND	"	
o-Xylene	"	"	"		5.00	ND	"	
Surrogate: Dibromofluoromethane	"	"	"	80.0-130		96.8	%	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	80.0-130		92.8	"	
Surrogate: Toluene-d8	"	"	"	81.0-117		86.6	"	
Surrogate: 4-Bromofluorobenzene	"	"	"	74.0-121		88.6	"	

Sequoia Analytical - Petaluma

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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 10/30/98
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Semivolatile Organic Compounds by EPA Method
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
				P810399-01			Soil	
Acenaphthene	8100483	10/27/98	10/27/98		330	ND	ug/kg	
Acenaphthylene	"	"	"		330	ND	"	
Anthracene	"	"	"		330	ND	"	
Benzoic acid	"	"	"		1670	ND	"	
Benzo (a) anthracene	"	"	"		330	ND	"	
Benzo (b) fluoranthene	"	"	"		330	ND	"	
Benzo (k) fluoranthene	"	"	"		330	ND	"	
Benzo (g,h,i) perylene	"	"	"		330	ND	"	
Benzo (a) pyrene	"	"	"		660	ND	"	
Benzyl alcohol	"	"	"		330	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		330	ND	"	
Bis(2-chloroethyl)ether	"	"	"		330	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		330	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		330	ND	"	
4-Bromophenyl phenyl ether	"	"	"		330	ND	"	
Butyl benzyl phthalate	"	"	"		660	ND	"	
4-Chloroaniline	"	"	"		660	ND	"	
4-Chloro-3-methylphenol	"	"	"		330	ND	"	
2-Chloronaphthalene	"	"	"		330	ND	"	
2-Chlorophenol	"	"	"		330	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		330	ND	"	
Chrysene	"	"	"		330	ND	"	
Dibenz (a,h) anthracene	"	"	"		330	ND	"	
Dibenzofuran	"	"	"		330	ND	"	
Di-n-butyl phthalate	"	"	"		330	ND	"	
1,2-Dichlorobenzene	"	"	"		330	ND	"	
1,3-Dichlorobenzene	"	"	"		330	ND	"	
1,4-Dichlorobenzene	"	"	"		660	ND	"	
3,3'-Dichlorobenzidine	"	"	"		330	ND	"	
2,4-Dichlorophenol	"	"	"		330	ND	"	
Diethyl phthalate	"	"	"		330	ND	"	
2,4-Dimethylphenol	"	"	"		330	ND	"	
Dimethyl phthalate	"	"	"		1670	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		1670	ND	"	
2,4-Dinitrophenol	"	"	"		330	ND	"	
2,4-Dinitrotoluene	"	"	"		330	ND	"	
2,6-Dinitrotoluene	"	"	"		330	ND	"	
Di-n-octyl phthalate	"	"	"		330	ND	"	
Fluoranthene	"	"	"		330	ND	"	
Hexachlorobenzene	"	"	"		330	ND	"	

Sequoia Analytical - Petaluma

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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. JCH Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 10/30/98
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**Semivolatile Organic Compounds by EPA Method 8270B
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes
(continued)				<u>P810399-01</u>				Soil
Hexachlorobutadiene	8100483	10/27/98	10/27/98		330	ND	ug/kg	
Hexachlorocyclopentadiene	"	"	"		330	ND	"	
Hexachloroethane	"	"	"		330	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		330	ND	"	
Isophorone	"	"	"		330	ND	"	
3-Methylnaphthalene	"	"	"		330	ND	"	
2-Methylphenol	"	"	"		330	ND	"	
4-Methylphenol	"	"	"		330	ND	"	
Naphthalene	"	"	"		1670	ND	"	
2-Nitroaniline	"	"	"		1670	ND	"	
3-Nitroaniline	"	"	"		1670	ND	"	
4-Nitroaniline	"	"	"		330	ND	"	
Nitrobenzene	"	"	"		330	ND	"	
2-Nitrophenol	"	"	"		1670	ND	"	
4-Nitrophenol	"	"	"		330	ND	"	
N-Nitrosodiphenylamine	"	"	"		330	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		1670	ND	"	
Pentachlorophenol	"	"	"		330	ND	"	
Phenanthracene	"	"	"		330	ND	"	
Phenol	"	"	"		330	ND	"	
Pyrene	"	"	"		330	ND	"	
1,2,4-Trichlorobenzene	"	"	"		330	ND	"	
2,4,5-Trichlorophenol	"	"	"		330	ND	"	
2,4,6-Trichlorophenol	"	"	"		330	ND	"	
Surrogate: 2-Fluorophenol	"	"	"			72.0	"	
Surrogate: Phenol-d6	"	"	"			81.4	"	
Surrogate: Nitrobenzene-d5	"	"	"			78.7	"	
Surrogate: 2-Fluorobiphenyl	"	"	"			66.4	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"			62.0	"	
Surrogate: Terphenyl-d14	"	"	"				"	

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

Sequoia Analytical - Petaluma



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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 11/30/98
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**Semivolatile Organic Compounds by EPA Meth [redacted]
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
[redacted]	8100483	10/27/98	10/27/98	<u>F810399-02</u>	330	ND	Soil ug/kg	
Accenaphthene	"	"	"		330	ND	"	
Accenaphthylene	"	"	"		330	ND	"	
Anthracene	"	"	"		1670	ND	"	
Benzoic acid	"	"	"		330	ND	"	
Benzo (a) anthracene	"	"	"		330	ND	"	
Benzo (b) fluoranthene	"	"	"		330	ND	"	
Benzo (k) fluoranthene	"	"	"		330	ND	"	
Benzo (g,h,i) perylene	"	"	"		330	ND	"	
Benzo (a) pyrene	"	"	"		660	ND	"	
Benzyl alcohol	"	"	"		330	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		330	ND	"	
Bis(2-chloroethyl)ether	"	"	"		330	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		330	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		330	ND	"	
4-Bromophenyl phenyl ether	"	"	"		330	ND	"	
Butyl benzyl phthalate	"	"	"		660	ND	"	
4-Chloroaniline	"	"	"		660	ND	"	
4-Chloro-3-methylphenol	"	"	"		330	ND	"	
2-Chloronaphthalene	"	"	"		330	ND	"	
2-Chlorophenol	"	"	"		330	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		330	ND	"	
Chrysene	"	"	"		330	ND	"	
Dibenz (a,h) anthracene	"	"	"		330	ND	"	
Dibenzofuran	"	"	"		330	ND	"	
Di-n-butyl phthalate	"	"	"		330	ND	"	
1,2-Dichlorobenzene	"	"	"		330	ND	"	
1,3-Dichlorobenzene	"	"	"		330	ND	"	
1,4-Dichlorobenzene	"	"	"		660	ND	"	
3,3'-Dichlorobenzidine	"	"	"		330	ND	"	
2,4-Dichlorophenol	"	"	"		330	ND	"	
Diethyl phthalate	"	"	"		330	ND	"	
2,4-Dimethylphenol	"	"	"		330	ND	"	
Dimethyl phthalate	"	"	"		1670	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		1670	ND	"	
2,4-Dinitrophenol	"	"	"		330	ND	"	
2,4-Dinitrotoluene	"	"	"		330	ND	"	
2,6-Dinitrotoluene	"	"	"		330	ND	"	
Di-n-octyl phthalate	"	"	"		330	ND	"	
Fluoranthene	"	"	"		330	ND	"	
Fluorene	"	"	"		330	ND	"	
Hexachlorobenzene	"	"	"					

*Refer to end of report for text of notes and definition

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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General	Sampled: 10/26/98
	Project Number: 9-8139	Received: 10/27/98
	Project Manager: Mr. Jeff Monroe	Reported: 10/30/98

Semivolatile Organic Compounds by EPA Meth
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				P810399-02			Soil	
Hexachlorobutadiene	8100483	10/27/98	10/27/98		330	ND	ug/kg	
Hexachlorocyclopentadiene	"	"	"		330	ND	"	
Hexachloroethane	"	"	"		330	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		330	ND	"	
Isophorone	"	"	"		330	ND	"	
2-Methylnaphthalene	"	"	"		330	ND	"	
2-Methylphenol	"	"	"		330	ND	"	
4-Methylphenol	"	"	"		330	ND	"	
Naphthalene	"	"	"		1670	ND	"	
2-Nitroaniline	"	"	"		1670	ND	"	
3-Nitroaniline	"	"	"		1670	ND	"	
4-Nitroaniline	"	"	"		330	ND	"	
Nitrobenzene	"	"	"		330	ND	"	
2-Nitrophenol	"	"	"		1670	ND	"	
4-Nitrophenol	"	"	"		330	ND	"	
N-Nitrosodiphenylamine	"	"	"		330	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		1670	ND	"	
Pentachlorophenol	"	"	"		330	ND	"	
Phenanthrene	"	"	"		330	ND	"	
Phenol	"	"	"		330	ND	"	
Pyrene	"	"	"		330	ND	"	
1,2,4-Trichlorobenzene	"	"	"		330	ND	"	
2,4,5-Trichlorophenol	"	"	"		330	ND	"	
2,4,6-Trichlorophenol	"	"	"			74.8	%	
Surrogate: 2-Fluorophenol	"	"	"			78.4	"	
Surrogate: Phenol-d6	"	"	"			74.8	"	
Surrogate: Nitrobenzene-d5	"	"	"			70.6	"	
Surrogate: 2-Fluorobiphenyl	"	"	"			67.6	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"				"	
Surrogate: Terphenyl-d14	"	"	"				"	

*Refer to end of report for text of notes and definition

Sequoia Analytical - Petaluma



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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 10/30/98
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**Semi-volatile Organic Compounds by EPA Method
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes
				<u>P810399-03</u>			Soil	
[Redacted]	8100483	10/27/96	10/27/98		330	ND	ug/kg	
Acenaphthene	"	"	"		330	ND	"	
Acenaphthylene	"	"	"		330	ND	"	
Anthracene	"	"	"		1670	ND	"	
Benzoic acid	"	"	"		330	ND	"	
Benzo (a) anthracene	"	"	"		330	ND	"	
Benzo (b) fluoranthene	"	"	"		330	ND	"	
Benzo (k) fluoranthene	"	"	"		330	ND	"	
Benzo (g,h,i) perylene	"	"	"		330	ND	"	
Benzo (a) pyrene	"	"	"		660	ND	"	
Benzyl alcohol	"	"	"		330	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		330	ND	"	
Bis(2-chloroethyl)ether	"	"	"		330	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		330	ND	"	
4-Bromophenyl phenyl ether	"	"	"		330	ND	"	
Buryl benzyi phthalate	"	"	"		660	ND	"	
4-Chloroaniline	"	"	"		660	ND	"	
4-Chloro-3-methylphenol	"	"	"		330	ND	"	
2-Chloronaphthalene	"	"	"		330	ND	"	
2-Chlorophenol	"	"	"		330	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		330	ND	"	
Chrysene	"	"	"		330	ND	"	
Dibenz (a,h) anthracene	"	"	"		330	ND	"	
Dibenzofuran	"	"	"		330	ND	"	
Di-n-butyl phthalate	"	"	"		330	ND	"	
1,2-Dichlorobenzene	"	"	"		330	ND	"	
1,3-Dichlorobenzene	"	"	"		330	ND	"	
1,4-Dichlorobenzene	"	"	"		660	ND	"	
3,3'-Dichlorobenzidine	"	"	"		330	ND	"	
2,4-Dichlorophenol	"	"	"		330	ND	"	
Diethyl phthalate	"	"	"		330	ND	"	
2,4-Dimethylphenol	"	"	"		330	ND	"	
Dimethyl phthalate	"	"	"		1670	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		1670	ND	"	
2,4-Dinitrophenol	"	"	"		330	ND	"	
2,4-Dinitrotoluene	"	"	"		330	ND	"	
2,6-Dinitrotoluene	"	"	"		330	ND	"	
Di-n-octyl phthalate	"	"	"		330	ND	"	
Fluoranthene	"	"	"		330	ND	"	
Fluorene	"	"	"		330	ND	"	
Hexachlorobenzene	"	"	"		330	ND	"	

*Refer to end of report for text of notes and definition

Sequoia Analytical - Petaluma



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Touchstone Developments
PO Box 2554
Santa Rosa, CA 95405

Project: Chevron/General
Project Number: 9-8139
Project Manager: Mr. Jeff Monroe

Sampled: 10/26/98
Received: 10/27/98
Reported: 10/30/98

**Semivolatile Organic Compounds by EPA Method [REDACTED]
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes
[REDACTED] (d)				<u>P810399-03</u>				
Hexachlorobutadiene	8100483	10/27/98	10/27/98		330	ND	Soil ug/kg	
Hexachlorocyclopentadiene	"	"	"		330	ND	"	
Hexachloroethane	"	"	"		330	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		330	ND	"	
Isophorone	"	"	"		330	ND	"	
2-Methylnaphthalene	"	"	"		330	ND	"	
2-Methylphenol	"	"	"		330	ND	"	
4-Methylphenol	"	"	"		330	ND	"	
Naphthalene	"	"	"		1670	ND	"	
2-Nitroaniline	"	"	"		1670	ND	"	
3-Nitroaniline	"	"	"		1670	ND	"	
4-Nitroaniline	"	"	"		330	ND	"	
Nitrobenzene	"	"	"		330	ND	"	
2-Nitrophenol	"	"	"		1670	ND	"	
4-Nitrophenol	"	"	"		330	ND	"	
N-Nitrosodiphenylamine	"	"	"		330	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		1670	ND	"	
Pentachlorophenol	"	"	"		330	ND	"	
Phenanthrene	"	"	"		330	ND	"	
Phenol	"	"	"		330	ND	"	
Pyrene	"	"	"		330	ND	"	
1,2,4-Trichlorobenzene	"	"	"		330	ND	"	
2,4,5-Trichlorophenol	"	"	"		330	ND	"	
2,4,6-Trichlorophenol	"	"	"		330	ND	"	
Surrogate: 2-Fluorophenol	"	"	"			60.6	%	
Surrogate: Phenol-d6	"	"	"			66.8	"	
Surrogate: Nitrobenzene-d5	"	"	"			63.1	"	
Surrogate: 2-Fluorobiphenyl	"	"	"			64.3	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"			63.2	"	
Surrogate: Terphenyl-d14	"	"	"				"	



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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 10/30/98
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**Semivolatile Organic Compounds by EPA Method 8270B
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>P810399-04</u>			<u>Soil</u>	
CLR-6	8100483	10/27/98	10/27/98		330	ND	ug/kg	
Acenaphthene	"	"	"		330	ND	"	
Acenaphthylene	"	"	"		330	ND	"	
Anthracene	"	"	"		1670	ND	"	
Benzoic acid	"	"	"		330	ND	"	
Benzo (a) anthracene	"	"	"		330	ND	"	
Benzo (b) fluoranthene	"	"	"		330	ND	"	
Benzo (k) fluoranthene	"	"	"		330	ND	"	
Benzo (g,h,i) perylene	"	"	"		330	ND	"	
Benzo (a) pyrene	"	"	"		660	ND	"	
Benzyl alcohol	"	"	"		330	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		330	ND	"	
Bis(2-chloroethyl)ether	"	"	"		330	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		330	ND	"	
4-Bromophenyl phenyl ether	"	"	"		330	ND	"	
Buryl benzyl phthalate	"	"	"		660	ND	"	
4-Chloroaniline	"	"	"		660	ND	"	
4-Chloro-3-methylphenol	"	"	"		330	ND	"	
2-Chloronaphthalene	"	"	"		330	ND	"	
2-Chlorophenol	"	"	"		330	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		330	ND	"	
Chrysene	"	"	"		330	ND	"	
Dibenz (a,h) anthracene	"	"	"		330	ND	"	
Dibenzofuran	"	"	"		330	ND	"	
Di-n-butyl phthalate	"	"	"		330	ND	"	
1,2-Dichlorobenzene	"	"	"		330	ND	"	
1,3-Dichlorobenzene	"	"	"		330	ND	"	
1,4-Dichlorobenzene	"	"	"		660	ND	"	
3,3'-Dichlorobenzidine	"	"	"		330	ND	"	
2,4-Dichlorophenol	"	"	"		330	ND	"	
Diethyl phthalate	"	"	"		330	ND	"	
2,4-Dimethylphenol	"	"	"		330	ND	"	
Dimethyl phthalate	"	"	"		1670	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		1670	ND	"	
2,4-Dinitrophenol	"	"	"		330	ND	"	
2,4-Dinitrotoluene	"	"	"		330	ND	"	
2,6-Dinitrotoluene	"	"	"		330	ND	"	
Di-n-octyl phthalate	"	"	"		330	ND	"	
Fluoranthene	"	"	"		330	ND	"	
Fluorene	"	"	"		330	ND	"	
Hexachlorobenzene	"	"	"		330	ND	"	

*Refer to end of report for text of notes and definition

Sequoia Analytical - Petaluma



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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-8139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 10/30/98
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**Semivolatile Organic Compounds by EPA Method 8270B
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes ¹
CLR-6 (continued)				PR10399-04			Soil	
Hexachlorobutadiene	8100483	10/27/98	10/27/98		330	ND	ug/kg	
Hexachlorocyclopentadiene	"	"	"		330	ND	"	
Hexachloroethane	"	"	"		330	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		330	ND	"	
Isophorone	"	"	"		330	ND	"	
2-Methylnaphthalene	"	"	"		330	ND	"	
2-Methylphenol	"	"	"		330	ND	"	
4-Methylphenol	"	"	"		330	ND	"	
Naphthalene	"	"	"		1670	ND	"	
2-Nitroaniline	"	"	"		1670	ND	"	
3-Nitroaniline	"	"	"		1670	ND	"	
4-Nitroaniline	"	"	"		330	ND	"	
Nitrobenzene	"	"	"		330	ND	"	
2-Nitrophenol	"	"	"		1670	ND	"	
4-Nitrophenol	"	"	"		330	ND	"	
N-Nitrosodiphenylamine	"	"	"		330	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		1670	ND	"	
Pentachlorophenol	"	"	"		330	ND	"	
Phenanthrene	"	"	"		330	ND	"	
Phenol	"	"	"		330	ND	"	
Pyrene	"	"	"		330	ND	"	
1,2,4-Trichlorobenzene	"	"	"		330	ND	"	
2,4,5-Trichlorophenol	"	"	"		330	ND	"	
2,4,6-Trichlorophenol	"	"	"		330	ND	"	
Surrogate: 2-Fluorophenol	"	"	"			55.6	%	
Surrogate: Phenol-d6	"	"	"			59.6	"	
Surrogate: Nitrobenzene-d5	"	"	"			56.8	"	
Surrogate: 2-Fluorobiphenyl	"	"	"			52.6	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"			58.4	"	
Surrogate: Terphenyl-d14	"	"	"				"	

**Refer to end of report for text of notes and definition*

Sequoia Analytical - Petaluma



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Touchstone Developments
PO Box 2554
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Project: Chevron/General
Project Number: 9-8139
Project Manager: Mr. Jeff Monroe

Sampled: 10/26/98
Received: 10/27/98
Reported: 10/30/98

**Semivolatile Organic Compounds by EPA Method 8270B
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes
UOSP-1(A-D)				PS10399-20			Soil	
Acenaphthene	8100483	10/27/98	10/27/98		330	ND	ug/kg	
Acenaphthylene	"	"	"		330	ND	"	
Anthracene	"	"	"		330	ND	"	
Benzoic acid	"	"	"		1670	ND	"	
Benzo (a) anthracene	"	"	"		330	ND	"	
Benzo (b) fluoranthene	"	"	"		330	ND	"	
Benzo (k) fluoranthene	"	"	"		330	ND	"	
Benzo (g,h,i) perylene	"	"	"		330	ND	"	
Benzo (a) pyrene	"	"	"		660	ND	"	
Benzyl alcohol	"	"	"		330	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		330	ND	"	
Bis(2-chloroethyl)ether	"	"	"		330	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		330	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		330	ND	"	
4-Bromophenyl phenyl ether	"	"	"		330	ND	"	
Butyl benzyl phthalate	"	"	"		660	ND	"	
4-Chloroaniline	"	"	"		660	ND	"	
4-Chloro-3-methylphenol	"	"	"		330	ND	"	
2-Chloronaphthalene	"	"	"		330	ND	"	
2-Chlorophenol	"	"	"		330	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		330	ND	"	
Chrysene	"	"	"		330	ND	"	
[REDACTED]	"	"	"		330	ND	"	
Dibenzofuran	"	"	"		330	ND	"	
Di-n-butyl phthalate	"	"	"		330	ND	"	
1,2-Dichlorobenzene	"	"	"		330	ND	"	
1,3-Dichlorobenzene	"	"	"		330	ND	"	
1,4-Dichlorobenzene	"	"	"		660	ND	"	
3,3'-Dichlorobenzidine	"	"	"		330	ND	"	
2,4-Dichlorophenol	"	"	"		330	ND	"	
Diethyl phthalate	"	"	"		330	ND	"	
2,4-Dimethylphenol	"	"	"		330	ND	"	
Dimethyl phthalate	"	"	"		1670	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		1670	ND	"	
2,4-Dinitrophenol	"	"	"		330	ND	"	
2,4-Dinitrotoluene	"	"	"		330	ND	"	
2,6-Dinitrotoluene	"	"	"		330	ND	"	
Di-n-octyl phthalate	"	"	"		330	ND	"	
[REDACTED]	"	"	"		330	ND	"	
Fluorene	"	"	"		330	ND	"	
Hexachlorobenzene	"	"	"		330	ND	"	

*Refer to end of report for text of notes and definition

Sequoia Analytical - Petaluma



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Touchstone Developments
PO Box 2554
Santa Rosa, CA 95405

Project: Chevron/General
Project Number: 9-8139
Project Manager: Mr. Jeff Monroe

Sampled: 10/26/98
Received: 10/27/98
Reported: 10/30/98

**Semivolatle Organic Compounds by EPA Method 8270B
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Note
				P810399-20			Soil	
UBSP-1(A-D) (contigued)							ug/kg	
Hexachlorobutadiene	8100483	10/27/98	10/27/98		330	ND		
Hexachlorocyclopentadiene	"	"	"		330	ND		
Hexachloroethane	"	"	"		330	ND		
Isophorone	"	"	"		330	ND		
2-Methylnaphthalene	"	"	"		330	ND		
2-Methylphenol	"	"	"		330	ND		
4-Methylphenol	"	"	"		330	ND		
Naphthalene	"	"	"		1670	ND		
2-Nitroaniline	"	"	"		1670	ND		
3-Nitroaniline	"	"	"		1670	ND		
4-Nitroaniline	"	"	"		330	ND		
Nitrobenzene	"	"	"		330	ND		
2-Nitrophenol	"	"	"		1670	ND		
4-Nitrophenol	"	"	"		330	ND		
N-Nitrosodiphenylamine	"	"	"		330	ND		
N-Nitrosodi-n-propylamine	"	"	"		1670	ND		
Pentachlorophenol	"	"	"		330	ND		
Phenanthrene	"	"	"		330	ND		
Phenol	"	"	"		330	ND		
1,2,4-Trichlorobenzene	"	"	"		330	ND		
2,4,5-Trichlorophenol	"	"	"		330	ND		
2,4,6-Trichlorophenol	"	"	"		330	ND		
Surrogate: 2-Fluorophenol	"	"	"			89.5	%	
Surrogate: Phenol-d6	"	"	"			98.6	"	
Surrogate: Nitrobenzene-d5	"	"	"			89.8	"	
Surrogate: 2-Fluorobiphenyl	"	"	"			79.6	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"			65.0	"	
Surrogate: Terphenyl-d14	"	"	"					

Sequoia Analytical - Petaluma

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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General	Sampled: 10/26/98
	Project Number: 9-8139	Received: 10/27/98
	Project Manager: Mr. Jeff Monroe	Reported: 10/30/98

**Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Note
<u>U01-9</u> [REDACTED]	8100484	10/27/98	10/28/98	<u>P810399-01</u> [REDACTED]	167	[REDACTED]	Soil mg/kg	
<u>U02-9</u> TRPH	8100484	10/27/98	10/28/98	<u>P810399-02</u> SM 5520C&F	33.3	ND	Soil mg/kg	
<u>U01X-11</u> [REDACTED]	8100484	10/27/98	10/28/98	<u>P810399-03</u> SM 5520C&F	33.3	[REDACTED]	Soil mg/kg	
<u>CLP-6</u> [REDACTED]	8100484	10/27/98	10/28/98	<u>P810399-04</u> SM 5520C&F	33.3	[REDACTED]	Soil mg/kg	
<u>U02-1(A-D)</u> TRPH	8100484	10/27/98	10/28/98	<u>P810399-20</u> SM 5520C&F	33.3	[REDACTED]	Soil mg/kg	



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Project: Chevron/General
Project Number: 9-8139
Project Manager: Mr. Jeff Monroe

Sampled: 10/26/98
Received: 10/27/98
Reported: 10/30/98

ANALYTICAL REPORT FOR P810399

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
U01-9	P810399-01	Soil	10/26/98
U02-9	P810399-02	Soil	10/26/98
U01X-11	P810399-03	Soil	10/26/98
CLR-6	P810399-04	Soil	10/26/98
AN-14	P810399-08	Soil	10/26/98
AS-14	P810399-09	Soil	10/26/98
BN-14	P810399-10	Soil	10/26/98
BS-14	P810399-11	Soil	10/26/98
CN-14	P810399-12	Soil	10/26/98
CS-14	P810399-13	Soil	10/26/98
P1-2	P810399-14	Soil	10/26/98
P2-2	P810399-15	Soil	10/26/98
P3-2	P810399-16	Soil	10/26/98
P4-2	P810399-17	Soil	10/26/98
P5-3	P810399-18	Soil	10/26/98
P6-3	P810399-19	Soil	10/26/98
UOSP-1(A-D)	P810399-20	Soil	10/26/98
SP-1(A-D)	P810399-21	Soil	10/26/98
SP-2(A-D)	P810399-22	Soil	10/26/98

Sequoia Analytical - Petaluma

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
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