
**2005 Annual Report
for Storm Water Discharges Associated with
Industrial Activities**

Sierra Pacific Industries
Arcata Division Sawmill
2593 New Navy Base Road
Arcata, California

Prepared for:

Sierra Pacific Industries

June 20, 2005

Project No. 9329, Task 6

Geomatrix Consultants

2101 Webster Street
12th Floor
Oakland, CA 94612
(510) 663-4100 • FAX (510) 663-4141



June 20, 2005
Project 9329 Task 6

Executive Officer
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

Attention: Dean Prat

Subject: 2004-2005 Annual Report for Storm Water Discharges Associated With
Industrial Activities
Arcata Division Sawmill
Arcata, California

Dear Mr. Prat:

As requested by Sierra Pacific Industries, we have enclosed a copy of the subject report.

Sincerely yours,
GEOMATRIX CONSULTANTS, INC.

A handwritten signature in black ink, appearing to read "Richard Hiett".

Rich Hiett, P.E.
Senior Engineer

A handwritten signature in black ink, appearing to read "Edward P. Conti".

Edward P. Conti, C.E.G., C.H.G.
Principal Geologist

RAS/EPC/abr
I:\Doc_Safe\9000s\9329\06-Task\2005 Annual Report\transmittal letterJune 30.doc

Enclosure

cc: Bob Ellery, Sierra Pacific Industries (with enclosure)
Gordie Amos, Sierra Pacific Industries (with enclosure)



2005 Annual Report for Storm Water Discharges Associated with Industrial Activities

Sierra Pacific Industries
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Prepared for:

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Prepared by:

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APPENDIX A

2004–2005 Annual Report for Storm Water Discharges Associated with Industrial Activities

State of California
STATE WATER RESOURCES CONTROL BOARD

2004-2005
ANNUAL REPORT
FOR
STORM WATER DISCHARGES ASSOCIATED
WITH INDUSTRIAL ACTIVITIES

Reporting Period July 1, 2004 through June 30, 2005

An annual report is required to be submitted to your local Regional Water Quality Control Board (Regional Board) by July 1 of each year. This document must be certified and signed, under penalty of perjury, by the appropriate official of your company. Many of the Annual Report questions require an explanation. Please provide explanations on a separate sheet as an attachment. **Retain a copy of the completed Annual Report for your records.**

Please circle or highlight any information contained in Items A, B, and C below that is new or revised so we can update our records. Please remember that a Notice of Termination and new Notice of Intent are required whenever a facility operation is relocated or changes ownership.

If you have any questions, please contact your Regional Board Industrial Storm Water Permit Contact. The names, telephone numbers and e-mail addresses of the Regional Board contacts, as well as the Regional Board office addresses can be found at <http://www.swrcb.ca.gov/stormwtr/contact.html>. To find your Regional Board information, match the first digit of your WDID number with the corresponding number that appears in parenthesis on the first line of each Regional Board office.

GENERAL INFORMATION:

A. Facility Information:

Facility Business Name: _____
Physical Address: _____
City: _____
Standard Industrial Classification (SIC) Code(s): _____

Facility WDID No: _____

Contact Person: _____
e-mail: _____
CA Zip: _____ Phone: _____

B. Facility Operator Information:

Operator Name: _____
Mailing Address: _____
City: _____

Contact Person: _____
e-mail: _____
State: ____ Zip: _____ Phone: _____

C. Facility Billing Information:

Operator Name: _____
Mailing Address: _____
City: _____

Contact Person: _____
e-mail: _____
State: ____ Zip: _____ Phone: _____

2004-2005
ANNUAL REPORT

SPECIFIC INFORMATION

MONITORING AND REPORTING PROGRAM

D. SAMPLING AND ANALYSIS EXEMPTIONS AND REDUCTIONS

1. For the reporting period, was your facility exempt from collecting and analyzing samples from **two** storm events in accordance with sections B.12 or 15 of the General Permit?

YES Go to Item D.2

NO Go to Section E

2. Indicate the reason your facility is exempt from collecting and analyzing samples from **two** storm events. Attach a copy of the first page of the appropriate certification if you check boxes ii, iii, iv, or v.

- i. Participating in an Approved Group Monitoring Plan

Group Name: _____

- ii. Submitted **No Exposure Certification (NEC)**

Date Submitted: _____

Re-evaluation Date: _____

Does facility continue to satisfy NEC conditions?

YES

NO

- iii. Submitted **Sampling Reduction Certification (SRC)**

Date Submitted: _____

Re-evaluation Date: _____

Does facility continue to satisfy SRC conditions?

YES

NO

- iv. Received Regional Board Certification

Certification Date: _____

- v. Received Local Agency Certification

Certification Date: _____

3. If you checked boxes i or iii above, were you scheduled to sample **one** storm event during the reporting year?

YES Go to Section E

NO Go to Section F

4. If you checked boxes ii, iv, or v, go to Section F.

E. SAMPLING AND ANALYSIS RESULTS

1. How many storm events did you sample? _____

If less than 2, **attach explanation** (if you checked item D.2.i or iii. above, only attach explanation if you answer "0").

2. Did you collect storm water samples from the first storm of the wet season that produced a discharge during scheduled facility operating hours? (Section B.5 of the General Permit)

YES

NO, **attach explanation** (Please note that if you do not sample the first storm event, you are still required to sample 2 storm events)

3. How many storm water discharge locations are at your facility? _____

4. For each storm event sampled, did you collect and analyze a sample from each of the facility's storm water discharge locations? YES, go to Item E.6 NO
5. Was sample collection or analysis reduced in accordance with Section B.7.d of the General Permit? YES NO, **attach explanation**

If "YES", **attach documentation** supporting your determination that two or more drainage areas are substantially identical.

Date facility's drainage areas were last evaluated _____

6. Were all samples collected during the first hour of discharge? YES NO, **attach explanation**
7. Was all storm water sampling preceded by three (3) working days without a storm water discharge? YES NO, **attach explanation**
8. Were there any discharges of stormwater that had been temporarily stored or contained? (such as from a pond) YES NO, go to Item E.10
9. Did you collect and analyze samples of temporarily stored or contained storm water discharges from two storm events? (or one storm event if you checked item D.2.i or iii. above) YES NO, **attach explanation**

10. Section B.5. of the General Permit requires you to analyze storm water samples for pH, Total Suspended Solids (TSS), Specific Conductance (SC), Total Organic Carbon (TOC) or Oil and Grease (O&G), other pollutants likely to be present in storm water discharges in significant quantities, and analytical parameters listed in Table D of the General Permit.

- a. Does Table D contain any additional parameters related to your facility's SIC code(s)? YES NO, Go to Item E.11
- b. Did you analyze all storm water samples for the applicable parameters listed in Table D? YES NO
- c. If you did not analyze all storm water samples for the applicable Table D parameters, check one of the following reasons:

_____ In prior sampling years, the parameter(s) have not been detected in significant quantities from two consecutive sampling events. **Attach explanation**

_____ The parameter(s) is not likely to be present in storm water discharges and authorized non-storm water discharges in significant quantities based upon the facility operator's evaluation. **Attach explanation**

_____ Other. **Attach explanation**

11. For each storm event sampled, attach a copy of the laboratory analytical reports and report the sampling and analysis results using **Form 1** or its equivalent. The following must be provided for each sample collected:

- Date and time of sample collection
- Name and title of sampler.
- Parameters tested.
- Name of analytical testing laboratory.
- Discharge location identification.
- Testing results.
- Test methods used.
- Test detection limits.
- Date of testing.
- Copies of the laboratory analytical results.

F. QUARTERLY VISUAL OBSERVATIONS

1. **Authorized Non-Storm Water Discharges**

Section B.3.b of the General Permit requires quarterly visual observations of all authorized non-storm water discharges and their sources.

a. Do authorized non-storm water discharges occur at your facility?

YES **NO** Go to Item F.2

b. Indicate whether you visually observed all authorized non-storm water discharges and their sources during the quarters when they were discharged. **Attach an explanation for any "NO" answers.** Indicate "N/A" for quarters without any authorized non-storm water discharges.

July -September **YES** **NO** **N/A** October-December **YES** **NO** **N/A**

January-March **YES** **NO** **N/A** April-June **YES** **NO** **N/A**

c. Use **Form 2** to report quarterly visual observations of authorized non-storm water discharges or provide the following information.

- i. name of each authorized non-storm water discharge
- ii. date and time of observation
- iii. source and location of each authorized non-storm water discharge
- iv. characteristics of the discharge at its source and impacted drainage area/discharge location
- v. name, title, and signature of observer
- vi. **any** new or revised BMPs necessary to reduce or prevent pollutants in authorized non-storm water discharges. Provide new or revised BMP implementation date.

2. **Unauthorized Non-Storm Water Discharges**

Section B.3.a of the General Permit requires quarterly visual observations of all drainage areas to detect the presence of unauthorized non-storm water discharges and their sources.

a. Indicate whether you visually observed all drainage areas to detect the presence of unauthorized non-storm water discharges and their sources. **Attach an explanation for any "NO" answers.**

July -September **YES** **NO** October-December **YES** **NO**

January-March **YES** **NO** April-June **YES** **NO**

b. Based upon the quarterly visual observations, were any unauthorized non-storm water discharges detected?

YES **NO** Go to item F.2.d

c. Have each of the unauthorized non-storm water discharges been eliminated or permitted?

YES **NO** **Attach explanation**

d. Use **Form 3** to report quarterly unauthorized non-storm water discharge visual observations or provide the following information.

- i. name of each unauthorized non-storm water discharge.
- ii. date and time of observation.
- iii. source and location of each unauthorized non-storm water discharge.
- iv. characteristics of the discharge at its source and impacted drainage area/discharge location.
- v. name, title, and signature of observer.
- vi. **any** corrective actions necessary to eliminate the source of each unauthorized non-storm water discharge and to clean impacted drainage areas. Provide date unauthorized non-storm water discharge(s) was eliminated or scheduled to be eliminated.

G. MONTHLY WET SEASON VISUAL OBSERVATIONS

Section B.4.a of the General Permit requires you to conduct monthly visual observations of storm water discharges at all storm water discharge locations during the wet season. These observations shall occur during the first hour of discharge or, in the case of temporarily stored or contained storm water, at the time of discharge.

1. Indicate below whether monthly visual observations of storm water discharges occurred at all discharge locations. **Attach an explanation for any "NO" answers.** Include in this explanation whether any eligible storm events occurred during scheduled facility operating hours that did not result in a storm water discharge, and provide the date, time, name and title of the person who observed that there was no storm water discharge.

	YES	NO		YES	NO
October	<input type="checkbox"/>	<input type="checkbox"/>	February	<input type="checkbox"/>	<input type="checkbox"/>
November	<input type="checkbox"/>	<input type="checkbox"/>	March	<input type="checkbox"/>	<input type="checkbox"/>
December	<input type="checkbox"/>	<input type="checkbox"/>	April	<input type="checkbox"/>	<input type="checkbox"/>
January	<input type="checkbox"/>	<input type="checkbox"/>	May	<input type="checkbox"/>	<input type="checkbox"/>

2. Report monthly wet season visual observations using **Form 4** or provide the following information.
 - a. date, time, and location of observation
 - b. name and title of observer
 - c. characteristics of the discharge (i.e., odor, color, etc.) and source of any pollutants observed.
 - d. **any** new or revised BMPs necessary to reduce or prevent pollutants in storm water discharges. Provide new or revised BMP implementation date.

ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION (ACSCE)

H. ACSCE CHECKLIST

Section A.9 of the General Permit requires the facility operator to conduct one ACSCE in each reporting period (July 1-June 30). Evaluations must be conducted within 8-16 months of each other. The SWPPP and monitoring program shall be revised and implemented, as necessary, within 90 days of the evaluation. The checklist below includes the minimum steps necessary to complete a ACSCE. Indicate whether you have performed each step below. **Attach an explanation for any "NO" answers.**

1. Have you inspected all potential pollutant sources and industrial activities areas? YES NO
The following areas should be inspected:
 - areas where spills and leaks have occurred during the last year.
 - outdoor wash and rinse areas.
 - process/manufacturing areas.
 - loading, unloading, and transfer areas.
 - waste storage/disposal areas.
 - dust/particulate generating areas.
 - erosion areas.
 - building repair, remodeling, and construction
 - material storage areas
 - vehicle/equipment storage areas
 - truck parking and access areas
 - rooftop equipment areas
 - vehicle fueling/maintenance areas
 - non-storm water discharge generating areas

2. Have you reviewed your SWPPP to assure that its BMPs address existing potential pollutant sources and industrial activities areas? YES NO

3. Have you inspected the entire facility to verify that the SWPPP's site map, is up-to-date? The following site map items should be verified: YES NO
 - facility boundaries
 - outline of all storm water drainage areas
 - areas impacted by run-on
 - storm water discharges locations
 - storm water collection and conveyance system
 - structural control measures such as catch basins, berms, containment areas, oil/water separators, etc.

4. Have you reviewed all General Permit compliance records generated since the last annual evaluation? YES NO

The following records should be reviewed:

- quarterly authorized non-storm water discharge visual observations
- monthly storm water discharge visual observation
- records of spills/leaks and associated clean-up/response activities
- quarterly unauthorized non-storm water discharge visual observations
- Sampling and Analysis records
- preventative maintenance inspection and maintenance records

5. Have you reviewed the major elements of the SWPPP to assure compliance with the General Permit? YES NO

The following SWPPP items should be reviewed:

- pollution prevention team
- list of significant materials
- description of potential pollutant sources
- assessment of potential pollutant sources
- identification and description of the BMPs to be implemented for each potential pollutant source

6. Have you reviewed your SWPPP to assure that a) the BMPs are adequate in reducing or preventing pollutants in storm water discharges and authorized non-storm water discharges, and b) the BMPs are being implemented? YES NO

The following BMP categories should be reviewed:

- good housekeeping practices
- spill response
- employee training
- erosion control
- quality assurance
- preventative maintenance
- material handling and storage practices
- waste handling/storage
- structural BMPs

7. Has all material handling equipment and equipment needed to implement the SWPPP been inspected? YES NO

I. ACSCE EVALUATION REPORT

The facility operator is required to provide an evaluation report that includes:

- identification of personnel performing the evaluation
- the date(s) of the evaluation
- necessary SWPPP revisions
- schedule for implementing SWPPP revisions
- any incidents of non-compliance and the corrective actions taken.

Use **Form 5** to report the results of your evaluation or develop an equivalent form.

J. ACSCE CERTIFICATION

The facility operator is required to certify compliance with the Industrial Activities Storm Water General Permit. To certify compliance, both the SWPPP and Monitoring Program must be up to date and be fully implemented.

Based upon your ACSCE, do you certify compliance with the Industrial Activities Storm Water General Permit? YES NO

If you answered "NO" **attach an explanation** to the ACSCE Evaluation Report why you are not in compliance with the Industrial Activities Storm Water General Permit.

ATTACHMENT SUMMARY

Answer the questions below to help you determine what should be attached to this annual report. Answer NA (Not Applicable) to questions 2-4 if you are not required to provide those attachments.

- 1. Have you attached Forms 1,2,3,4, and 5 or their equivalent? YES (Mandatory)

- 2. If you conducted sampling and analysis, have you attached the laboratory analytical reports? YES NO NA

- 3. If you checked box II, III, IV, or V in item D.2 of this Annual Report, have you attached the first page of the appropriate certifications? YES NO NA

- 4. Have you attached an explanation for each "NO" answer in items E.1, E.2, E.5-E.7, E.9, E.10.c, F.1.b, F.2.a, F.2.c, G.1, H.1-H.7, or J? YES NO NA

ANNUAL REPORT CERTIFICATION

I am duly authorized to sign reports required by the INDUSTRIAL ACTIVITIES STORM WATER GENERAL PERMIT (see Standard Provision C.9) and I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name: Gordie V. Amos
Signature: *Gordie V Amos* Date: 6/15/05
Title: Plant Manager

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DESCRIPTION OF BASIC ANALYTICAL PARAMETERS

The Industrial Activities Storm Water General Permit (General Permit) requires you to analyze storm water samples for at least four parameters. These are pH, Total Suspended Solids (TSS), Specific Conductance (SC), and Total Organic Carbon (TOC). Oil and Grease (O&G) may be substituted for TOC. In addition, you must monitor for any other pollutants which you believe to be present in your storm water discharge as a result of industrial activity and analytical parameters listed in Table D of the General Permit. There are no numeric limitations for the parameters you test for.

The four parameters which the General Permit requires to be tested are considered *indicator* parameters. In other words, regardless of what type of facility you operate, these parameters are nonspecific and general enough to usually provide some indication whether pollutants are present in your storm water discharge. The following briefly explains what each of these parameters mean:

pH is a numeric measure of the hydrogen-ion concentration. The neutral, or acceptable, range is within 6.5 to 8.5. At values less than 6.5, the water is considered acidic; above 8.5 it is considered alkaline or basic. An example of an acidic substance is vinegar, and a alkaline or basic substance is liquid antacid. Pure rainfall tends to have a pH of a little less than 7. There may be sources of materials or industrial activities which could increase or decrease the pH of your storm water discharge. If the pH levels of your storm water discharge are high or low, you should conduct a thorough evaluation of all potential pollutant sources at your site.

Total Suspended Solids (TSS) is a measure of the undissolved solids that are present in your storm water discharge. Sources of TSS include sediment from erosion of exposed land, and dirt from impervious (i.e. paved) areas. Sediment by itself can be very toxic to aquatic life because it covers feeding and breeding grounds, and can smother organisms living on the bottom of a water body. Toxic chemicals and other pollutants also adhere to sediment particles. This provides a medium by which toxic or other pollutants end up in our water ways and ultimately in human and aquatic life. TSS levels vary in runoff from undisturbed land. It has been shown that TSS levels increase significantly due to land development.

Specific Conductance (SC) is a numerical expression of the ability of the water to carry an electric current. SC can be used to assess the degree of mineralization, salinity, or estimate the total dissolved solids concentration of a water sample. Because of air pollution, most rain water has a SC a little above zero. A high SC could affect the usability of waters for drinking, irrigation, and other commercial or industrial use.

Total Organic Carbon (TOC) is a measure of the total organic matter present in water. (All organic matter contains carbon) This test is sensitive and able to detect small concentrations of organic matter. Organic matter is naturally occurring in animals, plants, and man. Organic matter may also be man made (so called synthetic organics). Synthetic organics include pesticides, fuels, solvents, and paints. Natural organic matter utilizes the oxygen in a receiving water to biodegrade. Too much organic matter could place a significant oxygen demand on the water, and possibly impact its quality. Synthetic organics either do not biodegrade or biodegrade very slowly. Synthetic organics are a source of toxic chemicals that can have adverse affects at very low concentrations. Some of these chemicals bioaccumulate in aquatic life. If your levels of TOC are high, you should evaluate all sources of natural or synthetic organics you may use at your site.

Oil and Grease (O&G) is a measure of the amount of oil and grease present in your storm water discharge. At very low concentrations, O&G can cause a sheen (that floating "rainbow") on the surface of water (1 qt. of oil can pollute 250,000 gallons of water). O&G can adversely affect aquatic life and create unsightly floating material and film on water, thus making it undrinkable. Sources of O&G include maintenance shops, vehicles, machines and roadways.

If you have any questions regarding whether or not your constituent concentrations are too high, please contact your local Regional Board office. The United States Environmental Protection Agency (USEPA) has published stormwater discharge benchmarks for a number of parameters. These benchmarks may be helpful when evaluating whether additional BMPs are appropriate. These benchmarks can be accessed at our website at <http://www.swrcb.ca.gov>. It is contained in the Sampling and Analysis Reduction Certification.

See Storm Water Contacts at

<http://www.swrcb.ca.gov/stormwtr/contact.html>

APPENDIX B

Explanations for 2004–2005 Annual Report for Storm Water Discharges Associated with Industrial Activities

EXPLANATIONS FOR 2004-2005 ANNUAL REPORT FOR STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES

Monitoring and Reporting Program, Section E: Sampling and Analysis Results, E.2.

The first storm event that produced a discharge during daylight scheduled facility operating hours was not sampled because it was not preceded by three working days without a storm water discharge.

Monitoring and Reporting Program, Section E: Sampling and Analysis Results, E.5.

There were no qualifying storm events that produced the first hour of discharge during daylight scheduled facility operating hours and preceded by three working days (which may be separated by weekends and holidays provided that the weekends and holidays did not produce a discharge) during the 2004-2005 season. It was decided in May to take samples from the discharge locations if and when they were flowing, regardless of a qualifying event. SL-1, SL-2, SL-3, and SL-4 were sampled on May 5, 2005 (SL-5 and SL-6 were not discharging). A sample from SL-6 was obtained on May 18, 2005. SL-5 did not discharge during the 2004-2005 season. Samples were collected as two-point composite samples with an interval of 30 to 180 minutes.

Monitoring and Reporting Program, Section E: Sampling and Analysis Results, E.6.

There were no qualifying storm events to sample. The storm events occurred after scheduled facility operating hours.

Monitoring and Reporting Program, Section E: Sampling and Analysis Results, E.7.

There were no qualifying storm events to sample, the sampled storms were not preceded by three working days without a storm water discharge. (Laboratory Analytical results are included as Appendix D.)

Monitoring and Reporting Program, Section F: Quarterly Visual Observations, F.2.c.

Unauthorized discharges in 2004-2005 consisted of dust control water. Dust control water from an onsite potable water source (well) is applied to prevent wind dispersal of bark dust and woody particulate matter and comply with local air district regulations. Only the minimum amount of dust control water needed is applied. Dust control runoff water flows through structural BMPs such as straw bales, straw

wattles, straw mats, and oil/water separators that serve as settling basins, before it discharges to the Mad River Slough.

Monitoring and Reporting Program, Section G: Monthly Wet Season Visual Observations, G.1.

October – No qualifying storm events. October 8 daytime rainfall occurred as a light drizzle that did not produce runoff until steady rain occurred in the evening. Observed by Jay Chancey, Safety Coordinator 8:30 am to 5:00 pm.

November – No qualifying storm events.

December – No qualifying storm events.

January – No qualifying storm events.

February – No qualifying storm events. February 18 rainfall occurred as a light drizzle that did not produce runoff. Observed by Jay Chancey, Safety Coordinator 8:30 am to 5:00 pm.

March – No qualifying storm events. March 18 rainfall occurred as a light drizzle that did not produce runoff. Observed by Jay Chancey, Safety Coordinator 8:30 am to 5:00 pm.

April – No qualifying storm events.

APPENDIX C

2004–2005 Annual Report Forms 1–5 Sampling & Analysis Results

1. First Storm Event
2. Quarterly Visual Observations of Authorized Non-Storm Water Discharges
3. Quarterly Visual Observations of Unauthorized Non-Storm Water Discharges
4. Monthly Visual Observations of Storm Water Discharges
5. Form 5 Annual Comprehensive Site Compliance Evaluation Potential Pollutant Source/Industrial Source BMP Status

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SIDE A

FORM 1-SAMPLING & ANALYSIS RESULTS

FIRST STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLE(S): Matt Hillyard

TITLE: Staff Engineer

SIGNATURE: 

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For First Storm Event									
			OTHER PARAMETERS									
			BASIC PARAMETERS					OTHER PARAMETERS				
			PH	TSS	SC	O&G	COD	Tannins Lignins	Chlorinated Phenols	Zinc	TPHg	TPHd
SL-1	<u>5/5/05</u> <u>13:15 & 15:35</u>	? <input type="checkbox"/> AM <input type="checkbox"/> PM	7.0	56	890	<5.0	110	Not Applicable	<1	0.17	Not Applicable	4,700
SL-2	<u>5/5/05</u> <u>11:45 & 14:30</u>	? <input type="checkbox"/> AM <input type="checkbox"/> PM	6.3	84	2,400	<5.0	480	84	<1	0.39	Not Applicable	10,000 J
SL-3	<u>5/5/05</u> <u>12:30 & 15:00</u>	? <input type="checkbox"/> AM <input type="checkbox"/> PM	5.4	900	340	<5.0	1,500	52	<1	0.17	Not Applicable	9,000
SL-4	<u>5/5/05</u> <u>10:55 & 13:55</u>	? <input type="checkbox"/> AM <input type="checkbox"/> PM	6.6	95	310	<5.0	190	3.3	<1	0.40	<100	2,000
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l	mg/l	µg/L	mg/l	µg/L	µg/L
TEST METHOD DETECTION LIMIT:			1.0	1.0	20	5.0	10	1.0	1.0	0.02	100	50
TEST METHOD USED:			EPA 150.1	EPA 160.2	EPA 120.1	EPA 1664	SM 5220D	SM 5550B	Canadian Pulp	EPA 200.7	EPA 8015M	EPA 8015M
ANALYZED BY (SELF/LAB):			Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Friedman & Bruya	Friedman & Bruya

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease

COD - Chemical Oxygen Demand

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SIDE A

FORM 1-SAMPLING & ANALYSIS RESULTS

FIRST STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLE(S): Matt Hillyard

TITLE: Staff Engineer

SIGNATURE: 

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For First Storm Event											
			Other Parameters											
			TPHd w/ 1 Silica Gel Cleanup	TPHd w/ 2 Silica Gel Cleanups	TPHmo	TPHmo w/ 1 Silica Gel Cleanup	TPHmo w/ 2 Silica Gel Cleanups	Dioxins & Furans						
SL-1	<u>5/5/05</u> <u>13:15 & 15:35</u>	<u>?</u> PM <input type="checkbox"/> AM <input type="checkbox"/>	<50	<50	1,200	340	420	Not applicable						
SL-2	<u>5/5/05</u> <u>11:45 & 14:30</u>	<u>?</u> PM <input type="checkbox"/> AM <input type="checkbox"/>	450	780	4,600	2,300	3,000	0.0789						
SL-3	<u>5/5/05</u> <u>12:30 & 15:00</u>	<u>?</u> PM <input type="checkbox"/> AM <input type="checkbox"/>	860	1,300	7,800 J	4,500	6,000	Not applicable						
SL-4	<u>5/5/05</u> <u>10:55 & 13:55</u>	<u>?</u> PM <input type="checkbox"/> AM <input type="checkbox"/>	120	170	2,000	990	1,100	0.0756						
TEST REPORTING UNITS:			<u>µg/L</u>	<u>µg/L</u>	<u>µg/L</u>	<u>µg/L</u>	<u>µg/L</u>	<u>µg/L</u>	<u>pg/L</u>					
TEST METHOD DETECTION LIMIT:			50	50	250	250	250	Varies						
TEST METHOD USED:			EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M	EPA 1613						
ANALYZED BY (SELF/LAB):			Friedman & Bruya	Friedman & Bruya	Friedman & Bruya	Friedman & Bruya	Friedman & Bruya	Frontier Analytical						

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease

TOC - Total Organic Carbon

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SIDE A

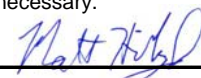
FORM 1-SAMPLING & ANALYSIS RESULTS

FIRST STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLE(S): Matt Hillyard

TITLE: Staff Engineer

SIGNATURE: 

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For First Storm Event											
			BASIC PARAMETERS					OTHER PARAMETERS						
			PH	TSS	SC	O&G	COD	Tannins Lignins	Chlorinated Phenols	Zinc	TPHg	TPHd		
SL-5 and SL-6 No Discharge	5/5/05 □AM □PM	: □AM □PM												
SL-6	5/18/05 16:00 & 16:30 □AM □PM	? : □AM □PM	6.9	580	120	Not Applicable	370	Not Applicable	Not Applicable	0.74	Not Applicable	4,100		
SL-5 No Discharge	5/18/05 □AM □PM	: □AM □PM												
	/ / □AM □PM	: □AM □PM												
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l	mg/l	mg/l	µg/L	mg/l	µg/L	µg/L	
TEST METHOD DETECTION LIMIT:			1.0	1.0	20	5.0	10	1.0	1.0	0.02	100	50		
TEST METHOD USED:			EPA 150.1	EPA 160.2	EPA 120.1	EPA 1664	SM 5220D	SM 5550B	Canadian Pulp	EPA 200.7	EPA 8015M	EPA 8015M		
ANALYZED BY (SELF/LAB):			Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Alpha Analytical	Friedman & Bruya	Friedman & Bruya	

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease

COD - Chemical Oxygen Demand

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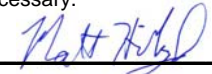
FORM 1-SAMPLING & ANALYSIS RESULTS

FIRST STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLE(S): Matt Hillyard

TITLE: Staff Engineer

SIGNATURE: 

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For First Storm Event																	
			Other Parameters																	
			TPHd w/ 1 Silica Gel Cleanup	TPHd w/ 2 Silica Gel Cleanups	TPHmo	TPHmo w/ 1 Silica Gel Cleanup	TPHmo w/ 2 Silica Gel Cleanups	Dioxins & Furans												
SL-5 and SL-6 No Discharge	<u>5/5/05</u> <input type="checkbox"/> AM <input type="checkbox"/> PM	: <input type="checkbox"/> AM <input type="checkbox"/> PM																		
SL-6	<u>5/18/05</u> <u>16:00 & 16:30</u>	: <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	1,100	1,500	7,800	8,300	8,000	Not applicable												
SL-5 No Discharge	<u>5/18/05</u> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	: <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM																		
	<u> / /</u> AM PM	: AM PM																		
TEST REPORTING UNITS:			$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	pg/L											
TEST METHOD DETECTION LIMIT:			50	50	250	250	250	Varies												
TEST METHOD USED:			EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M	EPA 1613											
ANALYZED BY (SELF/LAB):			Friedman & Bruya	Friedman & Bruya	Friedman & Bruya	Friedman & Bruya	Friedman & Bruya	Friedman & Bruya	Frontier Analytical											

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease




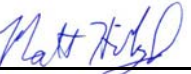
TOC - Total Organic Carbon

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**FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED
 NON-STORM WATER DISCHARGES (NSWDs)**

- * Quarterly dry weather visual observations are required of each authorized NSWD.
- Observe each authorized NSWD source, impacted drainage area, and discharge location.
- Authorized NSWDs must meet the conditions provided in Section D (pages 5-6), of the General Permit.
- Make additional copies of this form as necessary.

QUARTER: JULY-SEPT. DATE: <u>9/23/04</u>	Observers Name: <u>Matt Hillyard</u> Title: <u>Staff Engineer</u> Signature: <u></u>	WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER? <input checked="" type="checkbox"/> YES If YES, complete reverse side of this form. <input type="checkbox"/> NO
QUARTER: OCT.-DEC. DATE: <u>12/16/04</u>	Observers Name: <u>Matt Hillyard</u> Title: <u>Staff Engineer</u> Signature: <u></u>	WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER? <input checked="" type="checkbox"/> YES If YES, complete reverse side of this form. <input type="checkbox"/> NO
QUARTER: JAN.-MARCH DATE: <u>2/17/05</u>	Observers Name: <u>Matt Hillyard</u> Title: <u>Staff Engineer</u> Signature: <u></u>	WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER? <input checked="" type="checkbox"/> YES If YES, complete reverse side of this form. <input type="checkbox"/> NO
QUARTER: APRIL-JUNE DATE: <u>6/2/05</u>	Observers Name: <u>Matt Hillyard</u> Title: <u>Staff Engineer</u> Signature: <u></u>	WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER? <input checked="" type="checkbox"/> YES If YES, complete reverse side of this form. <input type="checkbox"/> NO

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SIDE B

**FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED
NON-STORM WATER DISCHARGES (NSWDs)**

DATE /TIME OF OBSERVATION	SOURCE AND LOCATION OF AUTHORIZED NSWD	NAME OF AUTHORIZED NSWD	DESCRIBE AUTHORIZED NSWD CHARACTERISTICS		DESCRIBE ANY REVISED OR NEW BMPs AND PROVIDE THEIR IMPLEMENTATION DATE
			Indicate whether authorized NSWD is clear, cloudy, or discolored, causing staining, contains floating objects or an oil sheen, has odors, etc.		
			At the NSWD Source	At the NSWD Drainage Area and Discharge Location	
<u>9/23/04</u> 1:05 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Humboldt Bay Ditch #2	Sea Water	Greenish-brown tint in the Bay	Mostly clear discharge, slight gray tint w/ very small woody particles	Clean separator before first major storm event.
<u>9/23/04</u> 1:15 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Well Water Spilled/Leaked from Water Truck Adjacent to Ditch #4	Potable Water	Clear water leaking from truck and pump	Very cloudy reddish- brown w/ small woody particles	Clean area around water truck, properly maintain straw wattles along north side of Ditch #4. Clean separator before first major storm event.
<u>9/23/04</u> 1:30 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Ditch #4	Spring water	Clear	Mixed w/ dirty water from water truck – see above	Clean separator before first major storm event.
<u>9/23/04</u> 1:35 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Ditch #5	Spring water	Clear	Clear	None Required
<u>12/16/04</u> 2:15 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Dry Kiln Condensate in Ditch #1	Kiln Condensate	Clear to cloudy w/ biological orange film	Clear w/ some accumulated opaque sheen areas	None Required

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**FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED
NON-STORM WATER DISCHARGES (NSWDs)**

DATE /TIME OF OBSERVATION	SOURCE AND LOCATION OF AUTHORIZED NSWD <i>EXAMPLE:</i> Air conditioner Units on Building C	NAME OF AUTHORIZED NSWD <i>EXAMPLE:</i> Air conditioner condensate	DESCRIBE AUTHORIZED NSWD CHARACTERISTICS Indicate whether authorized NSWD is clear, cloudy, or discolored, causing staining, contains floating objects or an oil sheen, has odors, etc.		DESCRIBE ANY REVISED OR NEW BMPs AND PROVIDE THEIR IMPLEMENTATION DATE
			At the NSWD Source	At the NSWD Drainage Area and Discharge Location	
<u>12/16/04</u> 2:15 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Dry Shed Fire System Drain Leak	Potable Water	Clear	Clear w/ some accumulated opaque sheen areas	Repair leak in drain.
<u>12/16/04</u> 2:35 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Spring Water in Ditch #4	Spring Water	Clear w/ orange bacteria	Lt. gray, slightly cloudy discharge observed under Mad River Slough Water, quickly diluted	None Required
<u>12/16/04</u> 3:05 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Spring Water in Ditch #5	Spring Water	Clear w/ orange bacteria and opaque sheen	Discharge not observed due to high tide	None Required
<u>2/17/05</u> 1:30 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Dry Kiln Condensate in Ditch #1	Kiln Condensate	Clear to slightly cloudy	Clear	None Required
<u>2/17/05</u> 1:45 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Spring Water in Ditch #4	Spring Water	Very clear w/ orange bacterial buildup in ditch	Very clear	None Required

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**FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED
 NON-STORM WATER DISCHARGES (NSWDs)**

DATE /TIME OF OBSERVATION	SOURCE AND LOCATION OF AUTHORIZED NSWD <i>EXAMPLE:</i> Air conditioner Units on Building C	NAME OF AUTHORIZED NSWD <i>EXAMPLE:</i> Air conditioner condensate	DESCRIBE AUTHORIZED NSWD CHARACTERISTICS Indicate whether authorized NSWD is clear, cloudy, or discolored, causing staining, contains floating objects or an oil sheen, has odors, etc.		DESCRIBE ANY REVISED OR NEW BMPs AND PROVIDE THEIR IMPLEMENTATION DATE
			At the NSWD Source	At the NSWD Drainage Area and Discharge Location	
<u>2/17/05</u> 1:45 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Well Water Spilled/Leaked from Water Truck Adjacent to Ditch #4	Potable Water	Clear water leaking from truck and pump becomes cloudy when contact w/ woody particles	Cloudy when entering ditch, then diluted w/ spring water, discharge at outfall is very clear	Clean area around water truck
<u>2/17/05</u> 1:50 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Spring Water in Ditch #5	Spring Water	Clear w/ orange/brown bacteria buildup in ditch	Very clear	None Required
<u>6/2/05</u> 9:40 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	Tank Valve for Well leaking over/into Ditch #4	Potable Water	Very Clear	Very clear w/ orange bacteria	None Required
<u>6/2/05</u> 9:50 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	Spring Water in Ditch #5	Spring Water	Clear w/ orange/brown bacteria buildup in ditch	Discharge not observed due to high tide	None Required

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FORM 3-QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED
NON-STORM WATER DISCHARGES (NSWDs)

- Unauthorized NSWDs are discharges (such as wash or rinse waters) that do not meet the conditions provided in Section D (pages 5-6) of the General Permit.
- Quarterly visual observations are required to observe current and detect prior unauthorized NSWDs.
- Quarterly visual observations are required during dry weather and at all facility drainage areas.
- Each unauthorized NSWD source, impacted drainage area, and discharge location must be identified and observed.
- Unauthorized NSWDs that can not be eliminated within 90 days of observation must be reported to the Regional Board in accordance with Section A.10.e of the General Permit.
- Make additional copies of this form as necessary.

<p>QUARTER: JULY-SEPT.</p> <p>DATE/TIME OF OBSERVATIONS</p> <p><u>9/23/04</u> <u>1:10</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM</p>	<p>Observers Name: <u> Matt Hillyard </u></p> <p>Title: <u> Staff Engineer </u></p> <p>Signature: <u> <i>Matt Hillyard</i> </u></p>	<p>WERE UNAUTHORIZED NSWDs OBSERVED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>If YES to either question, complete reverse side.</p>
<p>QUARTER: OCT.-DEC.</p> <p>DATE/TIME OF OBSERVATIONS</p> <p><u>12/16/04</u> <u>2:45</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM</p>	<p>Observers Name: <u> Matt Hillyard </u></p> <p>Title: <u> Staff Engineer </u></p> <p>Signature: <u> <i>Matt Hillyard</i> </u></p>	<p>WERE UNAUTHORIZED NSWDs OBSERVED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>If YES to either question, complete reverse side.</p>
<p>QUARTER: JAN.-MARCH</p> <p>DATE/TIME OF OBSERVATIONS</p> <p><u>2/17/05</u> <u>1:40</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM</p>	<p>Observers Name: <u> Matt Hillyard </u></p> <p>Title: <u> Staff Engineer </u></p> <p>Signature: <u> <i>Matt Hillyard</i> </u></p>	<p>WERE UNAUTHORIZED NSWDs OBSERVED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>If YES to either question, complete reverse side.</p>
<p>QUARTER: APRIL-JUNE</p> <p>DATE/TIME OF OBSERVATIONS</p> <p><u>6/2/05</u> <u>9:30</u> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM</p>	<p>Observers Name: <u> Matt Hillyard </u></p> <p>Title: <u> Staff Engineer </u></p> <p>Signature: <u> <i>Matt Hillyard</i> </u></p>	<p>WERE UNAUTHORIZED NSWDs OBSERVED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>If YES to either question, complete reverse side.</p>

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FORM 3 QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED
NON-STORM WATER DISCHARGES (NSWDs)

OBSERVATION DATE (FROM REVERSE SIDE)	NAME OF UNAUTHORIZED NSWD EXAMPLE: Vehicle Wash Water	SOURCE AND LOCATION OF UNAUTHORIZED NSWD EXAMPLE: NW Corner of Parking Lot	DESCRIBE UNAUTHORIZED NSWD CHARACTERISTICS Indicate whether unauthorized NSWD is clear, cloudy, discolored, causing stains; contains floating objects or an oil sheen, has odors, etc.		DESCRIBE CORRECTIVE ACTIONS TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED DRAINAGE AREAS. PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.
			AT THE UNAUTHORIZED NSWD SOURCE	AT THE UNAUTHORIZED NSWD AREA AND DISCHARGE LOCATION	
<u>9/23/04</u> 1:10 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Dust Control Water	Dust control water entering ditch #3 from log deck pavement	Reddish-brown cloudy water on pavement w/ small woody particles	Steady drip @ outfall of reddish-brown cloudy water w/ very small woody particles	Sweep woody material from dust control area, clean separator before first major storm event. Properly maintain straw bales.
<u>9/23/04</u> 1:10 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Dust Control Water	Dust control water entering ditch #4 from log deck pavement	Reddish-brown cloudy water on pavement w/ small woody particles	Reddish-brown cloudy water w/ very small woody particles	Sweep woody material from dust control area, clean separator before first major storm event. Properly maintain straw wattles.
<u>12/16/04</u> 2:45 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Dust Control Water	Dust control water entering ditch #3 from log deck pavement	Brown cloudy water w/ very fine woody particles.	No discharge observed @ outfall due to high tide	Thoroughly clean drainage area, maintain straw bales weekly.
<u>2/17/05</u> 1:40 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Dust Control Water	Dust control water entering ditch #3 from log deck pavement	Brown cloudy water w/ very fine woody particles.	Brown cloudy water w/ very small woody particles	Thoroughly clean drainage area, maintain straw bales weekly.

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**FORM 3 QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED
 NON-STORM WATER DISCHARGES (NSWDs)**

OBSERVATION DATE (FROM REVERSE SIDE)	NAME OF UNAUTHORIZED NSWD EXAMPLE: Vehicle Wash Water	SOURCE AND LOCATION OF UNAUTHORIZED NSWD EXAMPLE: NW Corner of Parking Lot	DESCRIBE UNAUTHORIZED NSWD CHARACTERISTICS Indicate whether unauthorized NSWD is clear, cloudy, discolored, causing stains; contains floating objects or an oil sheen, has odors, etc.		DESCRIBE CORRECTIVE ACTIONS TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED DRAINAGE AREAS. PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.
			AT THE UNAUTHORIZED NSWD SOURCE	AT THE UNAUTHORIZED NSWD AREA AND DISCHARGE LOCATION	
<u>2/17/05</u> 1:45 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	Dust Control Water	Dust control water entering ditch #4 from log deck pavement	Brown cloudy water on pavement w/ small woody particles	Cloudy entering ditch, diluted w/ spring water. Very clear discharge @ outfall.	Clean drainage area and maintain straw wattles.
<u>6/2/05</u> 9:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	Dust Control Water	Dust control water entering ditch #3 from log deck pavement	Brown cloudy water w/ very fine woody particles.	Brown cloudy water w/ very fine woody particles	Thoroughly clean drainage area, maintain straw bales weekly.
<u> / /</u> : <input type="checkbox"/> AM <input type="checkbox"/> PM					
<u> / /</u> : <input type="checkbox"/> AM <input type="checkbox"/> PM					

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FORM 4-MONTHLY VISUAL OBSERVATIONS OF

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STORM WATER DISCHARGES

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.
- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

Observation Date: October ____ 2004 NONE Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	:	:	:	:
	Time Discharge Began	:	:	:	:
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
		<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
Observation Date: November ____ 2004 NONE Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	:	:	:	:
	Time Discharge Began	:	:	:	:
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
		<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
Observation Date: December ____ 2004 NONE Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	:	:	:	:
	Time Discharge Began	:	:	:	:
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
		<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
Observation Date: January ____ 2005 NONE Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	:	:	:	:
	Time Discharge Began	:	:	:	:
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
		<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	<input type="checkbox"/> P.M. <input type="checkbox"/> A.M.

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FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF
STORM WATER DISCHARGES**

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- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.

- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

Observation Date: February ____ 2005 NONE Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Time Discharge Began	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
Observation Date: March ____ 2005 NONE Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Time Discharge Began	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
Observation Date: April ____ 2005 NONE Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Time Discharge Began	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
Observation Date: May <u>5</u> 2005 Observers Name: <u> Matt Hillyard </u> Title: <u> Staff Engineer </u> Signature: _____	Drainage Location Description	#1 SL-1	#2 SL-2	#3 SL-3	#4 SL-4
	Observation Time	: <input checked="" type="checkbox"/> P.M. 1:15 <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. 11:45 <input checked="" type="checkbox"/> A.M.	: <input checked="" type="checkbox"/> P.M. 12:30 <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. 10:55 <input checked="" type="checkbox"/> A.M.
	Time Discharge Began	Overnight <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	Overnight <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	Overnight <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	Overnight <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

2004 - 2005

ANNUAL REPORT
FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF
STORM WATER DISCHARGES

SIDE A

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.

- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

Observation Date: February ____ 2005 NONE Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Time Discharge Began	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
Observation Date: March ____ 2005 NONE Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Time Discharge Began	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
Observation Date: April ____ 2005 NONE Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Time Discharge Began	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
Observation Date: May __18__ 2005 Observers Name: <u> Matt Hillyard </u> Title: <u> Staff Engineer </u> Signature: _____	Drainage Location Description	#1 SL-6	#2	#3	#4
	Observation Time	9:30 <input type="checkbox"/> P.M. <input checked="" type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Time Discharge Began	Overnight <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.	: <input type="checkbox"/> P.M. <input type="checkbox"/> A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>

2004 - 2005
ANNUAL REPORT

SIDE B

FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF
STORM WATER DISCHARGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
<u>5/5/05</u> 11:45: <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	SL-2 Discharge from sawmill & equipment shop areas.	Grayish-brown w/ suspended very fine woody particles. <small>Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing floating objects or an oil sheen, has odors, etc.</small>	Woody particulate matter from sawmill. <small>EXAMPLE: Oil sheen caused by oil dripped by trucks in vehicle maintenance area.</small>	Clean up woody debris on ground before next storm, clean out separator ASAP.
<u>5/5/05</u> 12:30: <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	SL-3 Discharge from sawmill, debarker, and eastern log deck areas.	Reddish-brown w/ suspended very fine woody particles.	Woody particulate matter from sawmill and bark particles from debarker and log deck.	Clean up woody/bark debris on ground before next storm, clean out separator ASAP.
<u>5/5/05</u> 10:55: <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	SL-4 Discharge from sorter and log deck areas.	Reddish-brown w/ suspended very fine woody particles.	Woody particulate matter from sorter and bark particles from debarker and log deck.	Clean up woody/bark debris on ground before next storm, clean out separator ASAP.
<u>5/18/05</u> 9:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	SL-6 Discharge from lumber storage, fueling and truck scale areas.	Cloudy brownish-gray discharge at sample point SL-6, becomes increasingly clear to very clear as flow moves downstream through vegetation.	Some soil and woody particles from pavement, mostly from recently graded area near entrance gate where runoff leaves the pavement.	Allow graded area to vegetate and/or line w/ gravel or straw blanket before next rainy season.
<u> / / </u> : <input type="checkbox"/> AM <input type="checkbox"/> PM				

APPENDIX D

Chain-of-Custody Records and Laboratory Analytical Reports

Alpha Analytical Laboratories, Inc. A505241

Alpha Analytical Laboratories, Inc. A505560

Friedman & Bruya, Inc. 505077

Friedman & Bruya, Inc. 505221

Frontier Analytical Laboratory, 3269



alpha

Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

15 June 2005

Geomatrix Consultants

Attn: Ross Steenson

2101 Webster Street, 12th Floor

Oakland, CA 94612

RE: Task 6

Work Order: A505241

Enclosed are the results of analyses for samples received by the laboratory on 05/06/05 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nena M. Burgess For Sheri L. Speaks
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 1 of 10

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/15/05 15:12
Project No: 9329
Project ID: Task 6

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A505241	05/06/2005 15:40	GEOMAT	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SL-1	A505241-01	Water	05/05/05 15:35	05/06/05 15:40
SL-2	A505241-02	Water	05/05/05 14:30	05/06/05 15:40
SL-3	A505241-03	Water	05/05/05 15:00	05/06/05 15:40
SL-4	A505241-04	Water	05/05/05 13:55	05/06/05 15:40

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.

Nena M. Burgess For Sheri L. Speaks
Project Manager

6/15/2005



Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

Page 2 of 10

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/15/05 15:12
Project No: 9329
Project ID: Task 6

Order Number Receipt Date/Time Client Code Client PO/Reference
A505241 05/06/2005 15:40 GEOMAT

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SL-1 (A505241-01)			Sample Type: Water			Sampled: 05/05/05 15:35		
Metals by EPA 200 Series Methods								
Zinc	EPA 200.7	AE51204	05/12/05	05/17/05	1	0.17 mg/l	0.020	
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM-SG)	EPA 1664	AE51716	05/17/05	05/19/05	1	ND mg/l	5.0	
Chemical Oxygen Demand	SM5220D	AE50910	05/09/05	05/13/05	"	110 "	10	
pH	EPA 150.1	AE51016	05/10/05	05/10/05	"	7.0 pH Units	1.0	
Specific Conductance (EC)	EPA 120.1	"	"	"	"	890 umhos/cm	20	
Total Suspended Solids	EPA 160.2	AE51219	05/12/05	05/16/05	"	56 mg/l	1.0	
Chlorinated Phenols by Canadian Pulp Method								
2,4,6-Trichlorophenol	EnvCan	AE51311	05/11/05	05/13/05	1	ND ug/l	1.0	
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0	
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0	
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0	
Pentachlorophenol	"	"	"	"	"	ND "	1.0	
Surrogate: Tribromophenol	"	"	"	"		112 %	70-124	

SL-2 (A505241-02)			Sample Type: Water			Sampled: 05/05/05 14:30		
Metals by EPA 200 Series Methods								
Zinc	EPA 200.7	AE51204	05/12/05	05/17/05	1	0.39 mg/l	0.020	
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM-SG)	EPA 1664	AE51716	05/17/05	05/19/05	1	ND mg/l	5.0	
Tannins & Lignins	SM5550B	AE51917	05/19/05	05/19/05	20	84 "	10	
Chemical Oxygen Demand	SM5220D	AE50910	05/09/05	05/13/05	1	480 "	10	
pH	EPA 150.1	AE51016	05/10/05	05/10/05	"	6.3 pH Units	1.0	
Specific Conductance (EC)	EPA 120.1	"	"	"	"	2400 umhos/cm	20	
Total Suspended Solids	EPA 160.2	AE51219	05/12/05	05/16/05	"	84 mg/l	1.0	

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.

Nena M. Burgess For Sheri L. Speaks
Project Manager

6/15/2005



Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 3 of 10

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/15/05 15:12
Project No: 9329
Project ID: Task 6

Order Number: A505241
Receipt Date/Time: 05/06/2005 15:40
Client Code: GEOMAT
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Includes sub-section 'SL-2 (A505241-02) Chlorinated Phenols by Canadian Pulp Method' with rows for various phenols and a surrogate.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Includes sub-section 'SL-3 (A505241-03) Metals by EPA 200 Series Methods' and 'Conventional Chemistry Parameters by APHA/EPA Methods'.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Includes sub-section 'SL-3 (A505241-03) Chlorinated Phenols by Canadian Pulp Method' with rows for various phenols and a surrogate.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Includes sub-section 'SL-4 (A505241-04) Metals by EPA 200 Series Methods' with a row for Zinc.

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Nena M. Burgess For Sheri L. Speaks
Project Manager

6/15/2005



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CHEMICAL EXAMINATION REPORT

Page 4 of 10

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/15/05 15:12
Project No: 9329
Project ID: Task 6

<u>Order Number</u> A505241	<u>Receipt Date/Time</u> 05/06/2005 15:40	<u>Client Code</u> GEOMAT	<u>Client PO/Reference</u>
--------------------------------	--	------------------------------	----------------------------

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SL-4 (A505241-04)		Sample Type: Water			Sampled: 05/05/05 13:55		
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 1664	AE51716	05/17/05	05/19/05	1	ND mg/l	5.0
Tannins & Lignins	SM5550B	AE51917	05/19/05	05/19/05	"	3.3 "	0.50
Chemical Oxygen Demand	SM5220D	AE50910	05/09/05	05/13/05	"	190 "	10
pH	EPA 150.1	AE51016	05/10/05	05/10/05	"	6.6 pH Units	1.0
Specific Conductance (EC)	EPA 120.1	"	"	"	"	310 umhos/cm	20
Total Suspended Solids	EPA 160.2	AE51219	05/12/05	05/16/05	"	95 mg/l	1.0
Chlorinated Phenols by Canadian Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AE51311	05/11/05	05/14/05	1	ND ug/l	1.0
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
Pentachlorophenol	"	"	"	"	"	ND "	1.0
Surrogate: Tribromophenol	"	"	"	"	"	106 %	70-124

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Nena M. Burgess For Sheri L. Speaks
Project Manager

6/15/2005



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CHEMICAL EXAMINATION REPORT

Page 5 of 10

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/15/05 15:12
Project No: 9329
Project ID: Task 6

<u>Order Number</u> A505241	<u>Receipt Date/Time</u> 05/06/2005 15:40	<u>Client Code</u> GEOMAT	<u>Client PO/Reference</u>
--------------------------------	--	------------------------------	----------------------------

SourceResult
Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE51204 - EPA 3005A										
Blank (AE51204-BLK1)				Prepared: 05/12/05 Analyzed: 05/17/05						
Zinc	ND	0.020	mg/l							
LCS (AE51204-BS1)				Prepared: 05/12/05 Analyzed: 05/17/05						
Zinc	0.206	0.020	mg/l	0.200		103	85-115			
LCS Dup (AE51204-BSD1)				Prepared: 05/12/05 Analyzed: 05/17/05						
Zinc	0.204	0.020	mg/l	0.200		102	85-115	0.976	20	
Duplicate (AE51204-DUP1)				Source: A505335-03 Prepared: 05/12/05 Analyzed: 05/17/05						
Zinc	0.00420	0.020	mg/l		ND				20	
Matrix Spike (AE51204-MS1)				Source: A505335-03 Prepared: 05/12/05 Analyzed: 05/17/05						
Zinc	0.215	0.020	mg/l	0.200	ND	106	70-130			
Matrix Spike Dup (AE51204-MSD1)				Source: A505335-03 Prepared: 05/12/05 Analyzed: 05/17/05						
Zinc	0.211	0.020	mg/l	0.200	ND	104	70-130	1.88	20	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

6/15/2005



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CHEMICAL EXAMINATION REPORT

Page 6 of 10

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/15/05 15:12
Project No: 9329
Project ID: Task 6

<u>Order Number</u> A505241	<u>Receipt Date/Time</u> 05/06/2005 15:40	<u>Client Code</u> GEOMAT	<u>Client PO/Reference</u>
--------------------------------	--	------------------------------	----------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE50910 - General Preparation										
Blank (AE50910-BLK1)				Prepared: 05/09/05 Analyzed: 05/13/05						
Chemical Oxygen Demand	ND	10	mg/l							
LCS (AE50910-BS1)				Prepared: 05/09/05 Analyzed: 05/13/05						
Chemical Oxygen Demand	106	10	mg/l	100		106	85-115			
LCS Dup (AE50910-BSD1)				Prepared: 05/09/05 Analyzed: 05/13/05						
Chemical Oxygen Demand	94.7	10	mg/l	100		94.7	85-115	11.3	20	
Duplicate (AE50910-DUP1)				Source: A505235-01 Prepared: 05/09/05 Analyzed: 05/13/05						
Chemical Oxygen Demand	25.5	10	mg/l		26			1.94	20	
Matrix Spike (AE50910-MS1)				Source: A505235-01 Prepared: 05/09/05 Analyzed: 05/13/05						
Chemical Oxygen Demand	418	10	mg/l	400	26	98.0	85-115			
Matrix Spike Dup (AE50910-MSD1)				Source: A505235-01 Prepared: 05/09/05 Analyzed: 05/13/05						
Chemical Oxygen Demand	402	10	mg/l	400	26	94.0	85-115	3.90	20	
Batch AE51219 - General Preparation										
Blank (AE51219-BLK1)				Prepared: 05/12/05 Analyzed: 05/16/05						
Total Suspended Solids	ND	1.0	mg/l							
Duplicate (AE51219-DUP1)				Source: A505241-03 Prepared: 05/12/05 Analyzed: 05/16/05						
Total Suspended Solids	886	1.0	mg/l		900			1.57	30	
Batch AE51716 - General Preparation										
Blank (AE51716-BLK1)				Prepared: 05/17/05 Analyzed: 05/19/05						
Oil & Grease (HEM-SG)	ND	5.0	mg/l							

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Nena M. Burgess For Sheri L. Speaks
Project Manager

6/15/2005



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CHEMICAL EXAMINATION REPORT

Page 7 of 10

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/15/05 15:12
Project No: 9329
Project ID: Task 6

<u>Order Number</u> A505241	<u>Receipt Date/Time</u> 05/06/2005 15:40	<u>Client Code</u> GEOMAT	<u>Client PO/Reference</u>
--------------------------------	--	------------------------------	----------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE51716 - General Preparation										
LCS (AE51716-BS1)				Prepared: 05/17/05 Analyzed: 05/19/05						
Oil & Grease (HEM-SG)	9.00	5.0	mg/l	10.0		90.0	66-114			
LCS Dup (AE51716-BSD1)				Prepared: 05/17/05 Analyzed: 05/19/05						
Oil & Grease (HEM-SG)	8.60	5.0	mg/l	10.0		86.0	66-114	4.55	24	
Matrix Spike (AE51716-MS1)				Source: A505241-02 Prepared: 05/17/05 Analyzed: 05/19/05						
Oil & Grease (HEM-SG)	9.00	5.0	mg/l	6.00	ND	80.0	66-114			
Batch AE51917 - General Preparation										
Blank (AE51917-BLK1)				Prepared & Analyzed: 05/19/05						
Tannins & Lignins	ND	0.50	mg/l							
LCS (AE51917-BS1)				Prepared & Analyzed: 05/19/05						
Tannins & Lignins	3.72	0.50	mg/l	4.00		93.0	80-120			
LCS Dup (AE51917-BSD1)				Prepared & Analyzed: 05/19/05						
Tannins & Lignins	4.06	0.50	mg/l	4.00		102	80-120	8.74	20	
Duplicate (AE51917-DUP1)				Source: A505241-04 Prepared & Analyzed: 05/19/05						
Tannins & Lignins	3.17	0.50	mg/l		3.3			4.02	200	
Matrix Spike (AE51917-MS1)				Source: A505241-04 Prepared & Analyzed: 05/19/05						
Tannins & Lignins	5.36	0.50	mg/l	2.00	3.3	103	80-120			
Matrix Spike Dup (AE51917-MSD1)				Source: A505241-04 Prepared & Analyzed: 05/19/05						
Tannins & Lignins	5.36	0.50	mg/l	2.00	3.3	103	80-120	0.00	20	

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.

Nena M. Burgess For Sheri L. Speaks
Project Manager

6/15/2005



Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 8 of 10

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/15/05 15:12
Project No: 9329
Project ID: Task 6

Order Number Receipt Date/Time Client Code Client PO/Reference
A505241 05/06/2005 15:40 GEOMAT

Chlorinated Phenols by Canadian Pulp Method - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE51311 - Solvent Extraction										
Blank (AE51311-BLK1)				Prepared: 05/11/05 Analyzed: 05/13/05						
2,4,6-Trichlorophenol	ND	1.0	ug/l							
2,3,5,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,5-Tetrachlorophenol	ND	1.0	"							
Pentachlorophenol	ND	1.0	"							
Surrogate: Tribromophenol	25.1		"	25.0		100	70-124			
LCS (AE51311-BS1)				Prepared: 05/11/05 Analyzed: 05/13/05						
2,4,6-Trichlorophenol	5.61	1.0	ug/l	5.00		112	81-120			
2,3,5,6-Tetrachlorophenol	5.46	1.0	"	5.00		109	78-108			QL-03
2,3,4,6-Tetrachlorophenol	4.80	1.0	"	5.00		96.0	76-108			
2,3,4,5-Tetrachlorophenol	5.54	1.0	"	5.00		111	80-116			
Pentachlorophenol	4.42	1.0	"	5.00		88.4	86-109			
Surrogate: Tribromophenol	29.0		"	25.0		116	70-124			
Matrix Spike (AE51311-MS1)				Source: A505241-01		Prepared: 05/11/05 Analyzed: 05/13/05				
2,4,6-Trichlorophenol	5.12	1.0	ug/l	5.00	ND	102	75-125			
2,3,5,6-Tetrachlorophenol	5.42	1.0	"	5.00	ND	108	69-115			
2,3,4,6-Tetrachlorophenol	4.38	1.0	"	5.00	ND	87.6	66-117			
2,3,4,5-Tetrachlorophenol	5.42	1.0	"	5.00	ND	106	70-115			
Pentachlorophenol	4.57	1.0	"	5.00	ND	86.4	55-124			
Surrogate: Tribromophenol	27.1		"	25.0		108	70-124			
Matrix Spike Dup (AE51311-MSD1)				Source: A505241-01		Prepared: 05/11/05 Analyzed: 05/13/05				
2,4,6-Trichlorophenol	5.07	1.0	ug/l	5.00	ND	101	75-125	0.981	20	
2,3,5,6-Tetrachlorophenol	5.21	1.0	"	5.00	ND	104	69-115	3.95	20	
2,3,4,6-Tetrachlorophenol	4.09	1.0	"	5.00	ND	81.8	66-117	6.85	20	

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.

Nena M. Burgess For Sheri L. Speaks
Project Manager

6/15/2005



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CHEMICAL EXAMINATION REPORT

Page 9 of 10

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/15/05 15:12
Project No: 9329
Project ID: Task 6

<u>Order Number</u> A505241	<u>Receipt Date/Time</u> 05/06/2005 15:40	<u>Client Code</u> GEOMAT	<u>Client PO/Reference</u>
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Chlorinated Phenols by Canadian Pulp Method - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE51311 - Solvent Extraction										
Matrix Spike Dup (AE51311-MSD1) Source: A505241-01 Prepared: 05/11/05 Analyzed: 05/13/05										
2,3,4,5-Tetrachlorophenol	4.93	1.0	"	5.00	ND	96.4	70-115	9.47	20	
Pentachlorophenol	4.52	1.0	"	5.00	ND	85.4	55-124	1.10	20	
Surrogate: Tribromophenol	27.1		"	25.0		108	70-124			

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.

Nena M. Burgess For Sheri L. Speaks
Project Manager

6/15/2005



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CHEMICAL EXAMINATION REPORT

Page 10 of 10

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/15/05 15:12
Project No: 9329
Project ID: Task 6


<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A505241	05/06/2005 15:40	GEOMAT	

Notes and Definitions

- QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit

ADVISED matt when need 2 1L Ambers for 8270
 NOT 340ml VOCs AS he sent: 5-6-05

18836

Chain-of Custody Record			ANALYSES													REMARKS								
Project No.: 9329 Task 6			Date: 5/6/05													Page 1 of 1								
Samplers (Signature): Matt Hilliard																Additional Comments								
Date	Time	Sample Number	EPA Method 8021 (Full Scan)	EPA Method 8021 (Hal. VOCs only)	EPA Method 8021 (BTEX only)	EPA Method 8260	EPA Method 8270 (Full Scan)	EPA Method 8270 SIM (PAHS only)	Method 8015m (Gasoline)	Method 8015m (Diesel)	Method 8015m (Motor Oil)	Silica Gel Cleanup	TSS 160.2	Trans./Lignin SA 5550B	LOD SA 5210D	0:140-nm-xc 164	PCP/PCP Oxidation Pulp	En 200.7	Soil (S), Water (W), Vapor (V), or Other (o)	Filtered	Only Lab. Org. Preserved 540L, En	Cooled	No. of Containers	REMARKS
5/5/05	1315	SL1-A ASOSZ	X				X						X	X	X	X	X	X	W	X	X		8	Composite + report
	1535	SL1-B					X						X	X	X	X	X	X					9	as SL-1
	1145	SL2-A			2		X						X	X	X	X	X	X					8	Composite + report
	1430	SL2-B					X						X	X	X	X	X	X					8	as SL-2
	1230	SL3-A			3		X						X	X	X	X	X	X					8	Composite + report
	1500	SL3-B					X						X	X	X	X	X	X					8	as SL-3
	1055	SL4-A			4		X						X	X	X	X	X	X					8	Composite + report
✓	1355	SL4-B					X						X	X	X	X	X	X	W	✓	↓	↓	8	as SL-4
ADD PH COND TO ALL SAMPLES PER MATT 5/6/05																								
Laboratory: Alpha			Turnaround Time: STD			Results to: Ross Steenson			Total No. of Containers: 64															
Relinquished by (Signature): Matt Hilliard		Date: 5/6	Relinquished by (Signature): J. Matthews		Date: 5/6	Relinquished by (Signature):		Date:	Method of Shipment:															
Printed Name: Matt Hilliard		Time: 12:30	Printed Name: J. Matthews		Time: 15:40	Printed Name:		Time:	Laboratory Comments and Log No.:															
Company: Geomatrix			Company: Alpha			Company:																		
Received by: J. Matthews		Date: 5/6	Received by: [Signature]		Date: 5/6/05	Received by:		Date:																
Printed Name: J. Matthews		Time: 12:30	Printed Name: David Burgess		Time: 15:40	Printed Name:		Time:																
Company: Alpha			Company:			Company:																		
 2101 Webster Street, 12th Floor • Oakland, CA 94612 Phone: 510-663-4100 Fax: 510-663-4141																								



alpha

Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

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10 June 2005

Geomatrix Consultants

Attn: Ross Steenson

2101 Webster Street, 12th Floor

Oakland, CA 94612

RE: Task 6

Work Order: A505560

Enclosed are the results of analyses for samples received by the laboratory on 05/19/05 14:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nena M. Burgess For Sheri L. Speaks
Project Manager



Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 1 of 6

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/10/05 08:49
Project No: 9329
Project ID: Task 6

Order Number
A505560

Receipt Date/Time
05/19/2005 14:25

Client Code
GEOMAT

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SL-6	A505560-01	Water	05/18/05 16:30	05/19/05 14:25

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.

Nena M. Burgess For Sheri L. Speaks
Project Manager

6/10/2005



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CHEMICAL EXAMINATION REPORT

Page 2 of 6

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/10/05 08:49
Project No: 9329
Project ID: Task 6

<u>Order Number</u> A505560	<u>Receipt Date/Time</u> 05/19/2005 14:25	<u>Client Code</u> GEOMAT	<u>Client PO/Reference</u>
--------------------------------	--	------------------------------	----------------------------

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SL-6 (A505560-01)								
			Sample Type: Water			Sampled: 05/18/05 16:30		
Metals by EPA 200 Series Methods								
Zinc	EPA 200.7	AE52413	05/25/05	06/03/05	1	0.74 mg/l	0.020	
Conventional Chemistry Parameters by APHA/EPA Methods								
Chemical Oxygen Demand	SM5220D	AE52307	05/23/05	05/26/05	1	370 mg/l	10	
pH	EPA 150.1	AE52022	05/20/05	05/20/05	"	6.9 pH Units	1.0	
Specific Conductance (EC)	EPA 120.1	"	"	"	"	120 umhos/cm	20	
Total Suspended Solids	EPA 160.2	AE52312	05/23/05	05/25/05	"	580 mg/l	1.0	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

6/10/2005



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CHEMICAL EXAMINATION REPORT

Page 3 of 6

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/10/05 08:49
Project No: 9329
Project ID: Task 6

<u>Order Number</u> A505560	<u>Receipt Date/Time</u> 05/19/2005 14:25	<u>Client Code</u> GEOMAT	<u>Client PO/Reference</u>
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SourceResult Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE52413 - EPA 3005A										
Blank (AE52413-BLK1)				Prepared: 05/25/05 Analyzed: 05/30/05						
Zinc	ND	0.020	mg/l							
LCS (AE52413-BS1)				Prepared: 05/25/05 Analyzed: 05/30/05						
Zinc	0.205	0.020	mg/l	0.200		102	85-115			
LCS Dup (AE52413-BSD1)				Prepared: 05/25/05 Analyzed: 05/30/05						
Zinc	0.203	0.020	mg/l	0.200		102	85-115	0.980	20	
Duplicate (AE52413-DUP1)				Source: A505478-01 Prepared: 05/25/05 Analyzed: 05/30/05						
Zinc	0.00500	0.020	mg/l		ND				20	
Matrix Spike (AE52413-MS1)				Source: A505478-01 Prepared: 05/25/05 Analyzed: 05/30/05						
Zinc	0.211	0.020	mg/l	0.200	ND	103	70-130			
Matrix Spike Dup (AE52413-MSD1)				Source: A505478-01 Prepared: 05/25/05 Analyzed: 05/30/05						
Zinc	0.205	0.020	mg/l	0.200	ND	99.8	70-130	2.88	20	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

6/10/2005



Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

Page 4 of 6

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/10/05 08:49
Project No: 9329
Project ID: Task 6

Order Number Receipt Date/Time Client Code Client PO/Reference
A505560 05/19/2005 14:25 GEOMAT

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE52022 - General Preparation										
Duplicate (AE52022-DUP1) Source: A505573-01 Prepared & Analyzed: 05/20/05										
Specific Conductance (EC)	258	20	umhos/cm		260			0.772	10	
Duplicate (AE52022-DUP2) Source: A505612-01 Prepared: 05/20/05 Analyzed: 05/23/05										
Specific Conductance (EC)	423	20	umhos/cm		420			0.712	10	
pH	7.59	1.0	pH Units		7.6			0.132	20	
Batch AE52307 - General Preparation										
Blank (AE52307-BLK1) Prepared: 05/23/05 Analyzed: 05/26/05										
Chemical Oxygen Demand	ND	10	mg/l							
LCS (AE52307-BS1) Prepared: 05/23/05 Analyzed: 05/26/05										
Chemical Oxygen Demand	94.9	10	mg/l	100		94.9	85-115			
LCS Dup (AE52307-BSD1) Prepared: 05/23/05 Analyzed: 05/26/05										
Chemical Oxygen Demand	91.8	10	mg/l	100		91.8	85-115	3.32	20	
Duplicate (AE52307-DUP1) Source: A505531-07 Prepared: 05/23/05 Analyzed: 05/26/05										
Chemical Oxygen Demand	17.9	10	mg/l		18			0.557	20	
Matrix Spike (AE52307-MS1) Source: A505531-07 Prepared: 05/23/05 Analyzed: 05/26/05										
Chemical Oxygen Demand	399	10	mg/l	400	18	95.2	85-115			
Matrix Spike Dup (AE52307-MSD1) Source: A505531-07 Prepared: 05/23/05 Analyzed: 05/26/05										
Chemical Oxygen Demand	399	10	mg/l	400	18	95.2	85-115	0.00	20	

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.

Nena M. Burgess For Sheri L. Speaks
Project Manager

6/10/2005



Alpha

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CHEMICAL EXAMINATION REPORT

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/10/05 08:49
Project No: 9329
Project ID: Task 6

Order Number: A505560
Receipt Date/Time: 05/19/2005 14:25
Client Code: GEOMAT
Client PO/Reference:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes rows for Blank (AE52312-BLK1) and Duplicate (AE52312-DUP1) for Total Suspended Solids.

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.

Handwritten signature of Nena M. Burgess.

Nena M. Burgess For Sheri L. Speaks
Project Manager

6/10/2005



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CHEMICAL EXAMINATION REPORT

Page 6 of 6

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Ross Steenson

Report Date: 06/10/05 08:49
Project No: 9329
Project ID: Task 6

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A505560	05/19/2005 14:25	GEOMAT	

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
PQL Practical Quantitation Limit

18842

Chain-of Custody Record				Date: 5/19/04	Page 1 of 1																						
Project No.: 9329 Task 6			ANALYSES			REMARKS																					
Samplers (Signature): <i>Matt Hilliard</i>						Additional Comments																					
Date	Time	Sample Number	EPA Method 8021 (Full Scan)	EPA Method 8021 (Full Scan)	EPA Method 8021 (Full Scan)	EPA Method 8021 (Full Scan)	EPA Method 8290 (Full Scan)	EPA Method 8270 (Full Scan)	EPA Method 8270 (Full Scan)	SIM (PAHS only)	Method 8015m (Gasoline)	Method 8015m (Diesel)	Method 8015m (Motor Oil)	Silica Gel Cleanup	TSS	pH	Specific Conductance	COD	Zinc	Soil (S), Water (W), Vapor (V), or Other (o)	Filtered	Preserved	Cooled	No. of Containers			
5/19/04	1600	SL-6A																		W	X	X	3	Composite + 1			
	1630	SL-6B																		W	X	X	3	report as SL-6			
Laboratory: <i>Alpha</i>			Turnaround Time: <i>Std</i>		Results to: <i>Ross Steenson</i>		Total No. of Containers: <i>6</i>																				
Relinquished by (Signature): <i>Matt Hilliard</i>		Date: <i>5/19</i>	Relinquished by (Signature): <i>Don Barkhurst</i>		Date: <i>5-19-04</i>	Relinquished by (Signature):		Date:	Method of Shipment: <i>Courier</i>																		
Printed Name: <i>Matt Hilliard</i>		Time: <i>1640</i>	Printed Name: <i>Don Barkhurst</i>		Time: <i>1425</i>	Printed Name:		Time:	Laboratory Comments and Log No.:																		
Company: <i>Geometrix</i>			Company: <i>Alpha Labs</i>			Company:																					
Received by: <i>Don Barkhurst</i>		Date:	Received by: <i>Shari Speaks</i>		Date: <i>5-19-04</i>	Received by:		Date:	Geometrix Consultants																		
Printed Name: <i>Don Barkhurst</i>		Time:	Printed Name: <i>Shari Speaks</i>		Time: <i>1425</i>	Printed Name:		Time:	2101 Webster Street, 12th Floor • Oakland, CA 94612																		
Company: <i>Alpha</i>			Company: <i>Alpha</i>			Company:			Phone: 510-863-4100 Fax: 510-863-4141																		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 23, 2005

Ross Steenson, Project Manager
Geomatrix Consultants, Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612

TASK 6
STORM WATER
SAMPLES
MAY 5, 2005

Dear Mr. Steenson:

Included are the results from the testing of material submitted on May 9, 2005 from the 9329/6, F&BI 505077 project. There are 13 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
GMC0523R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 9, 2005 by Friedman & Bruya, Inc. from the Geomatrix Consultants, Inc. 9329/6, F&BI 505077 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Geomatrix Consultants, Inc.</u>
505077-01	SL1-A
505077-02	SL1-B
505077-03	SL2-A
505077-04	SL2-B
505077-05	SL3-A
505077-06	SL3-B
505077-07	SL4-A
505077-08	SL4-B

As requested, A and B samples were composited prior to analysis, and composite samples were analyzed with and without silica gel cleanup.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05
Date Received: 05/09/05
Project: 9329/6, F&BI 505077
Date Extracted: 05/10/05
Date Analyzed: 05/10/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING EPA METHOD 8015M**

Results Reported as $\mu\text{g/L}$ (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u> (C ₆ -C ₁₀)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 52-150)
SL-4 505077-07	<100	104
Method Blank	<100	103

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05
Date Received: 05/09/05
Project: 9329/6, F&BI 505077
Date Extracted: 05/09/05
Date Analyzed: 05/11/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

Results Reported as µg/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 68-143)
SL-1 505077-01+02	4,700	84
SL-2 505077-03+04	10,000	ip
SL-3 505077-05+06	9,000	83
SL-4 505077-07+08	2,000	97
Method Blank	<50	92

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05
Date Received: 05/09/05
Project: 9329/6, F&BI 505077
Date Extracted: 05/09/05
Date Analyzed: 05/11/05 and 05/12/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported as µg/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Surrogate</u> (% Recovery) (Limit 68-143)
SL-1 505077-01+02	<50	76
SL-2 505077-03+04	450	83
SL-3 505077-05+06	860	72
SL-4 505077-07+08	120	92
Method Blank	<50	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05

Date Received: 05/09/05

Project: 9329/6, F&BI 505077

Date Extracted: 05/09/05

Date Analyzed: 05/20/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

**Sample Extracts Passed Twice Through a
Silica Gel Column Prior to Analysis**
Results Reported as µg/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 68-143)
SL-1 505077-01+02	<50	106
SL-2 505077-03+04	730	125
SL-3 505077-05+06	1,300	104
SL-4 505077-07+08	170	104
Method Blank	<50	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05
Date Received: 05/09/05
Project: 9329/6, F&BI 505077
Date Extracted: 05/09/05
Date Analyzed: 05/11/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

Results Reported as $\mu\text{g/L}$ (ppb)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SL-1 505077-01+02	1,200	84
SL-2 505077-03+04	4,600	70
SL-3 505077-05+06	7,300	ip
SL-4 505077-07+08	2,000	66
Method Blank	<250	53

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05

Date Received: 05/09/05

Project: 9329/6, F&BI 505077

Date Extracted: 05/09/05

Date Analyzed: 05/11/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported as $\mu\text{g/L}$ (ppb)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SL-1 505077-01+02	340	54
SL-2 505077-03+04	2,300	83
SL-3 505077-05+06	4,500	70
SL-4 505077-07+08	990	93
Method Blank	<250	64

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05
Date Received: 05/09/05
Project: 9329/6, F&BI 505077
Date Extracted: 05/09/05
Date Analyzed: 05/19/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

**Sample Extracts Passed Twice Through a
Silica Gel Column Prior to Analysis**

Results Reported as $\mu\text{g/L}$ (ppb)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
SL-1 505077-01+02	420	71
SL-2 505077-03+04	3,000	94
SL-3 505077-05+06	6,000	86
SL-4 505077-07+08	1,100	100
Method Blank	<250	64

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05

Date Received: 05/09/05

Project: 9329/6, F&BI 505077

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING EPA METHOD 8015M**

Laboratory Code: 505081-16 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	µg/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	µg/L (ppb)	1,000	87	66-124

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05

Date Received: 05/09/05

Project: 9329/6, F&BI 505077

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	µg/L (ppb)	2,500	102	108	68-144	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05

Date Received: 05/09/05

Project: 9329/6, F&BI 505077

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel	µg/L (ppb)	2,500	97	115	68-144	18

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05

Date Received: 05/09/05

Project: 9329/6, F&BI 505077

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS
AS MOTOR OIL
USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Motor Oil	µg/L (ppb)	2,500	96	102	70-130	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/23/05

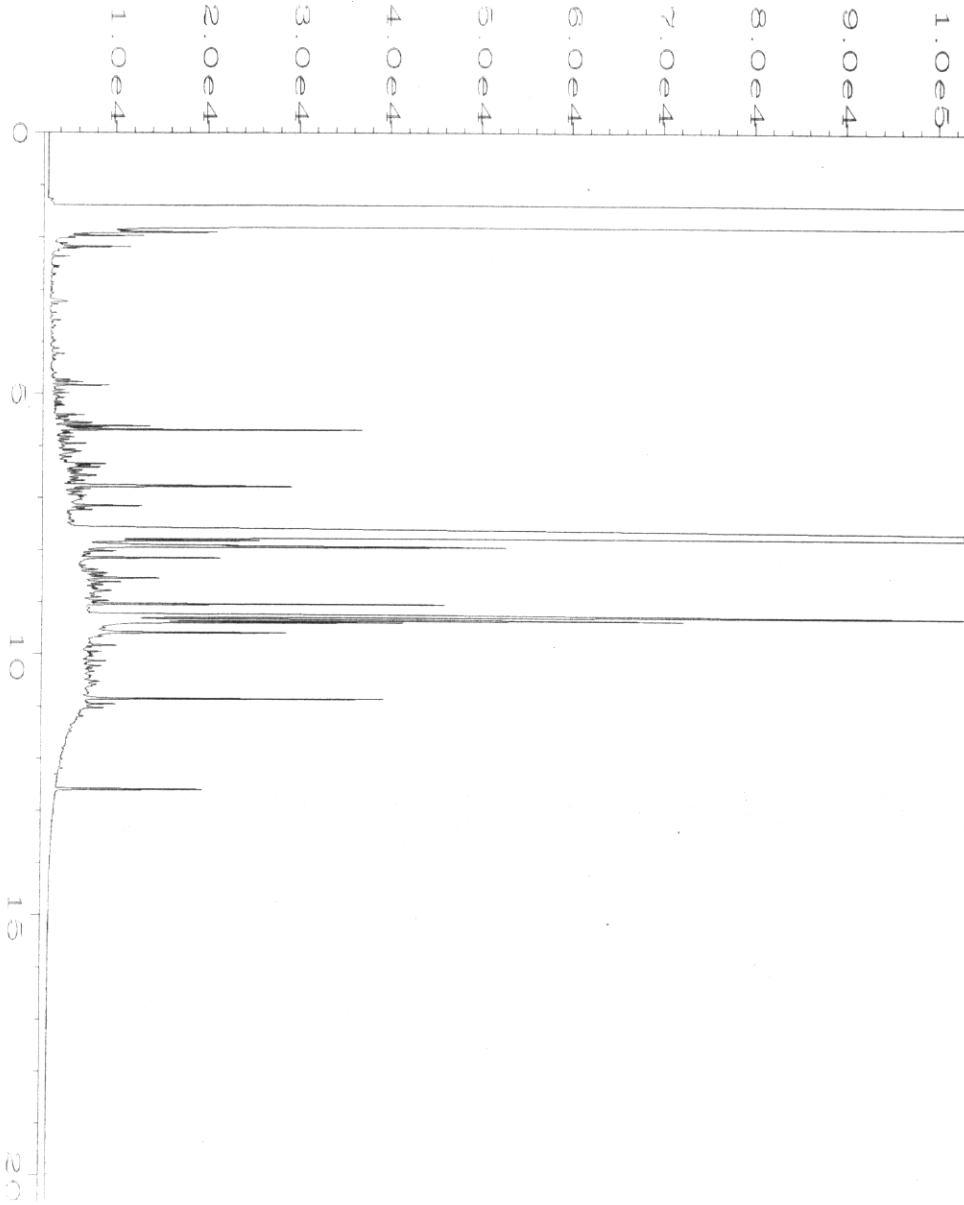
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Project: 9329/6, F&BI 505077

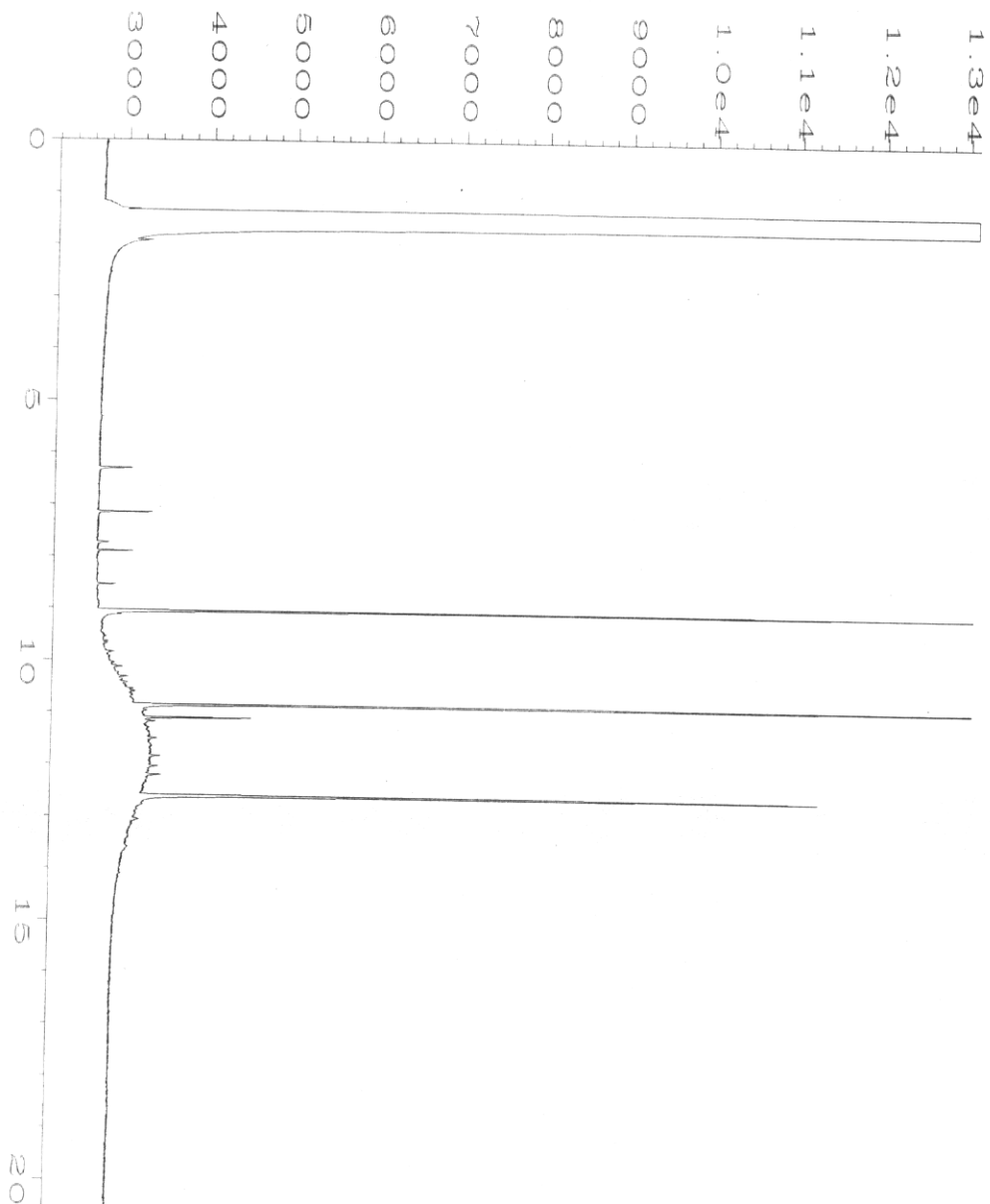
**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS
AS MOTOR OIL
USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample Silica Gel

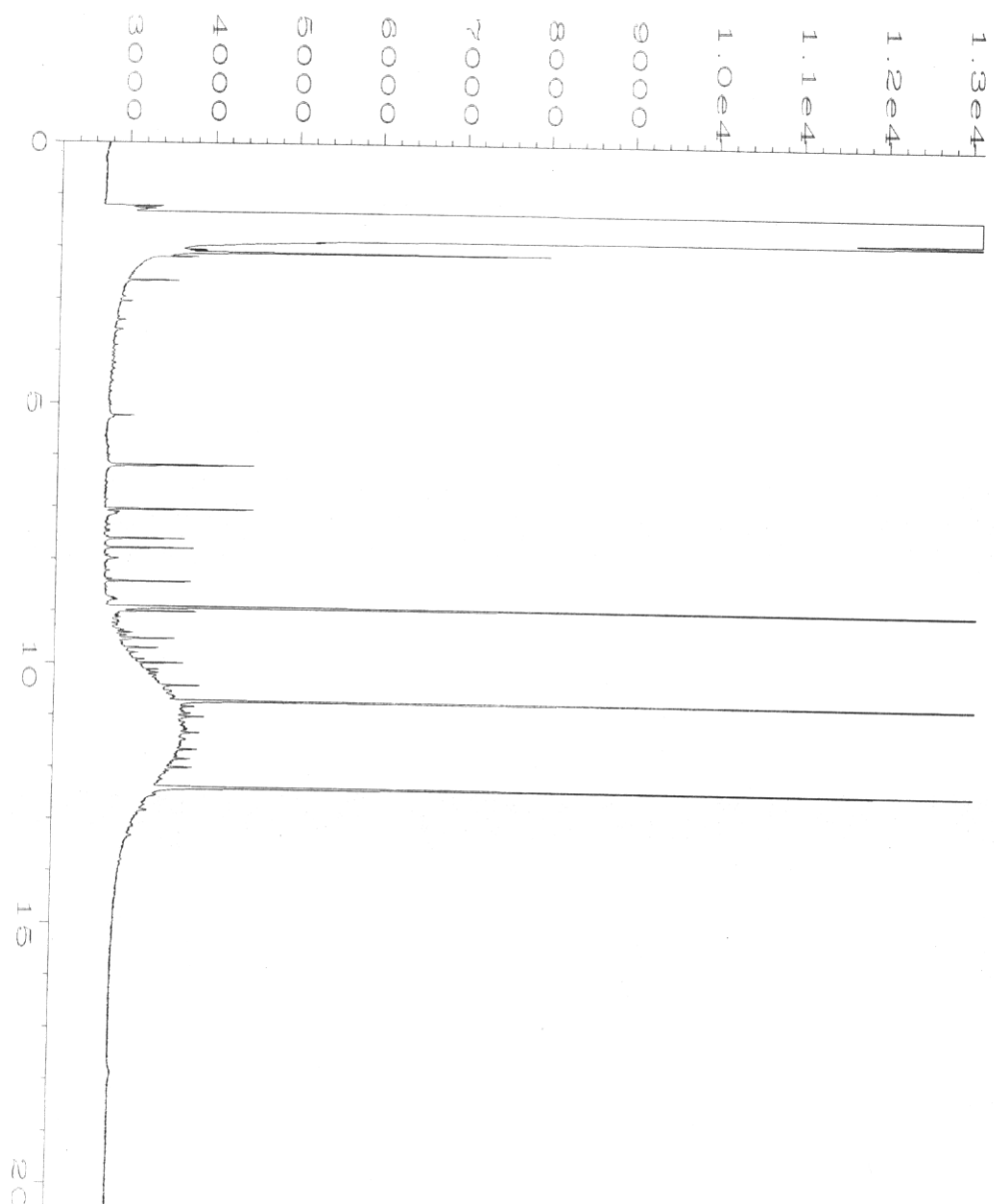
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Motor Oil	µg/L (ppb)	2,500	105	103	70-130	2



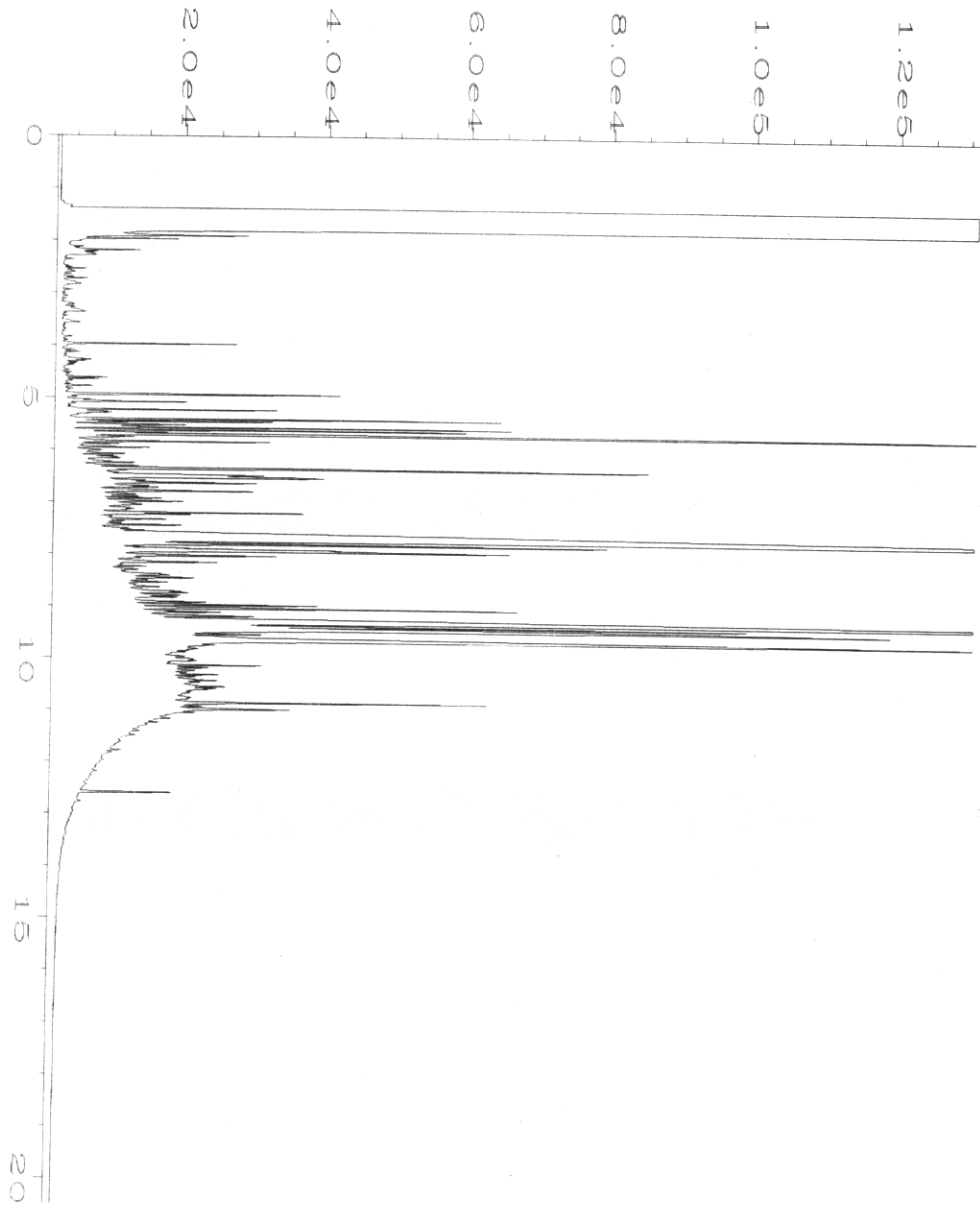
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Acquired on	: 11 May 05 08:55 PM	Analysis Method	: TPHD.MTH
Report Created on:	12 May 05 10:39 AM		



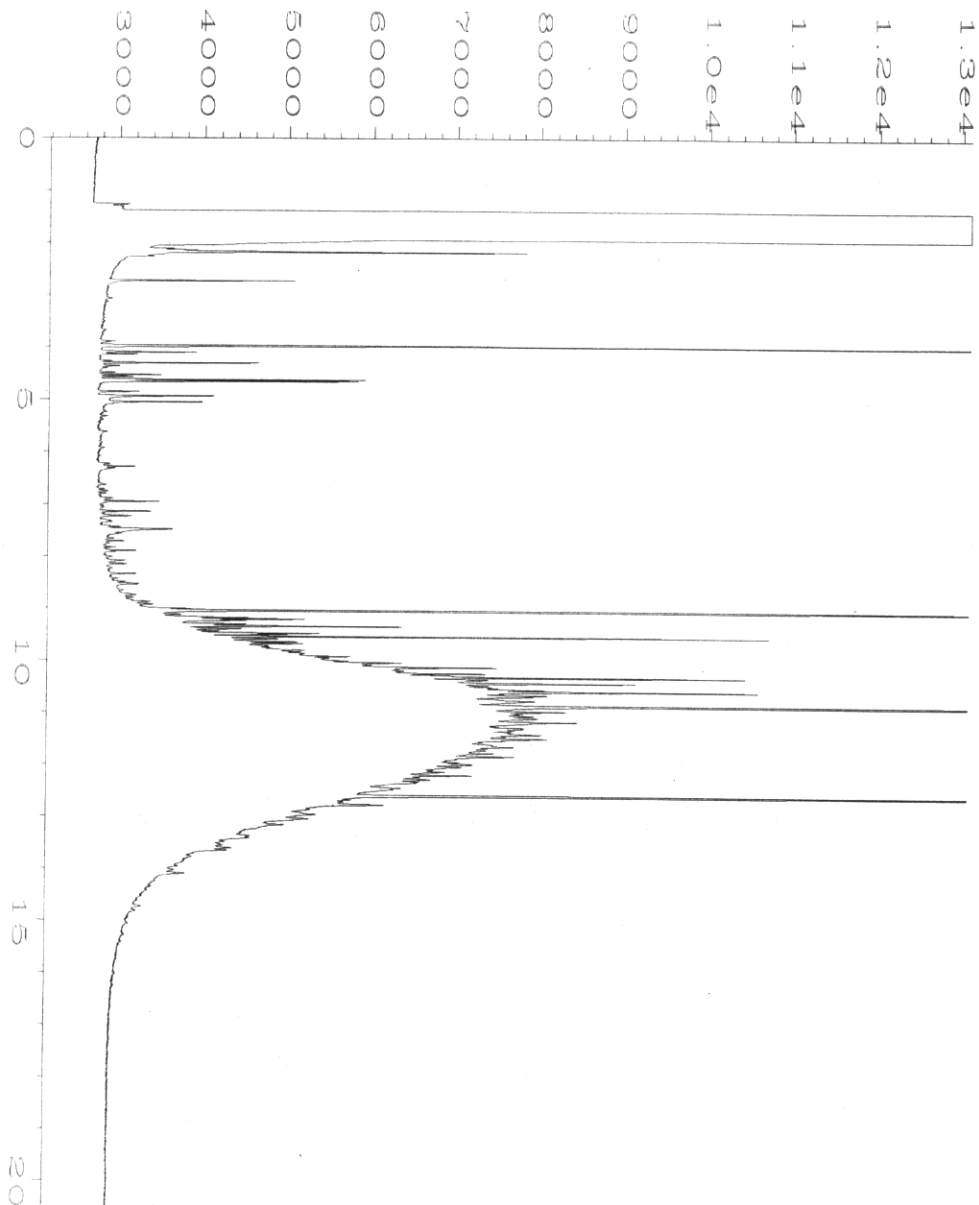
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Sample Name	: 505077-01+02 sg	Sequence Line	: 5
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Acquired on	: 11 May 05 04:52 PM	Analysis Method	: TPHD.MTH
Report Created on:	12 May 05 10:38 AM		



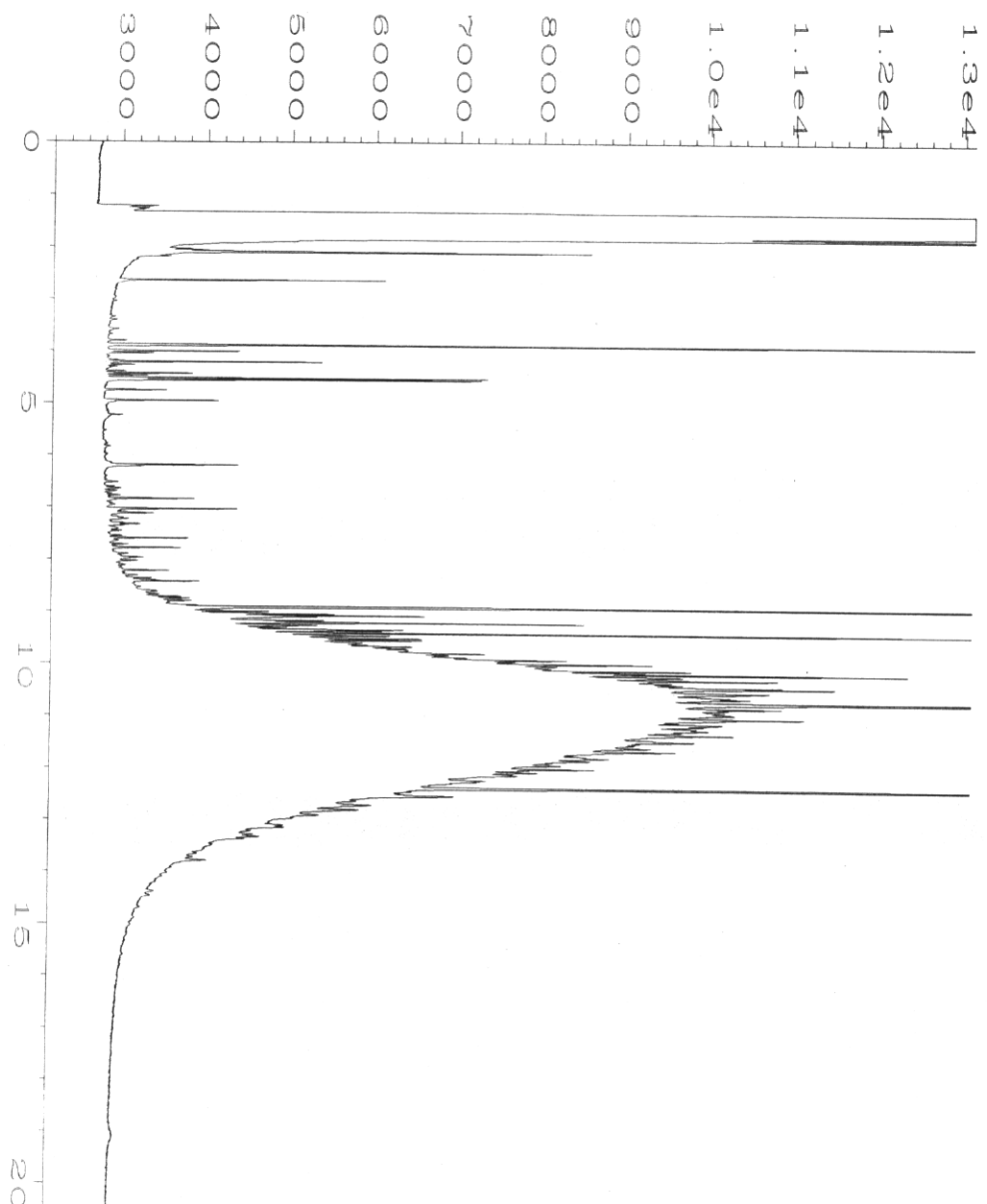
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Instrument	: GC #6	Injection Number	: 1
Sample Name	: 505077-01/02 sg x 2	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 19 May 05 12:06 PM	Analysis Method	: TPHD.MTH
Report Created on:	23 May 05 02:45 PM		



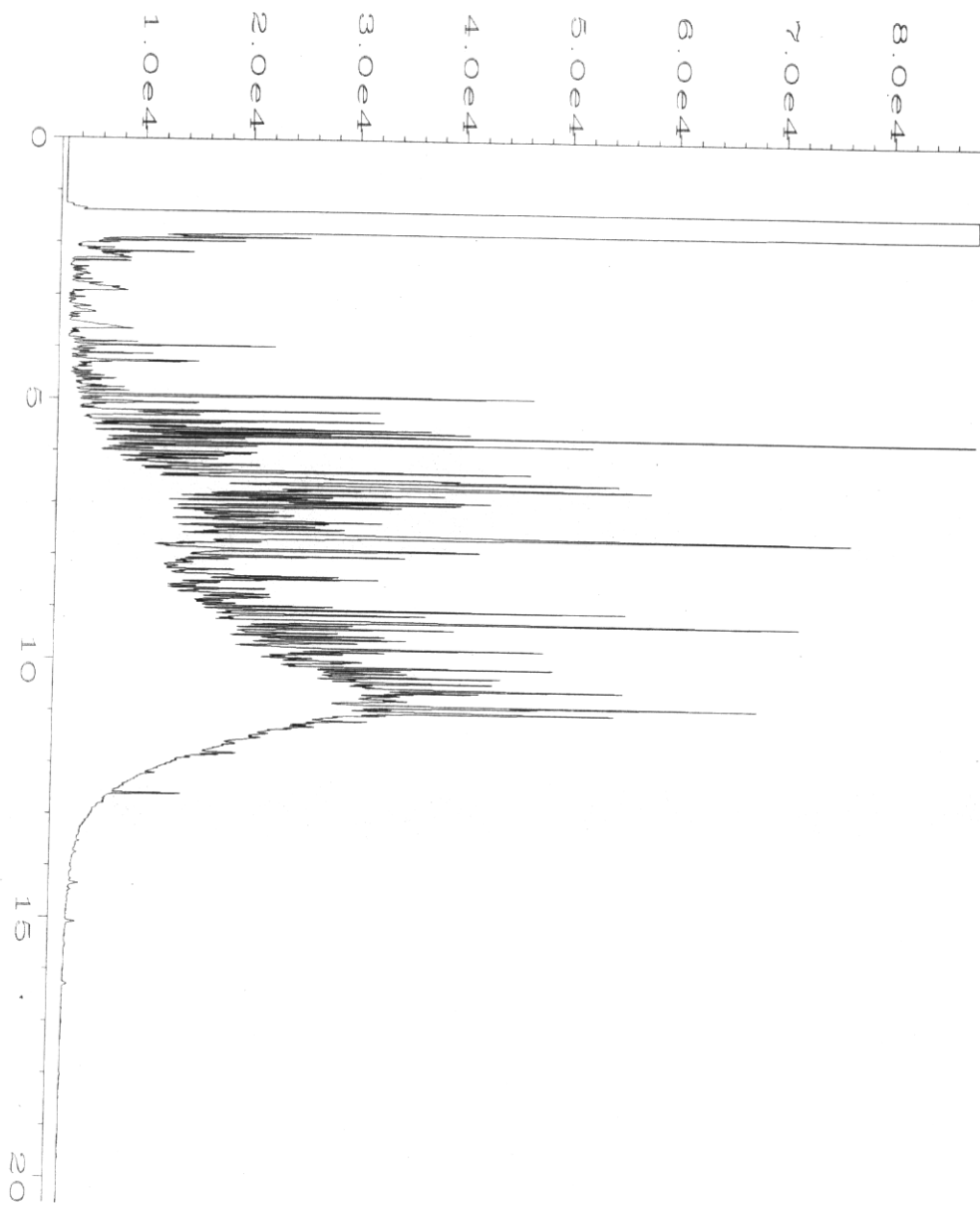
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Instrument	: GC #6	Injection Number	: 1
Sample Name	: 505077-03+04	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 11 May 05 09:22 PM	Analysis Method	: TPHD.MTH
Report Created on:	12 May 05 10:39 AM		



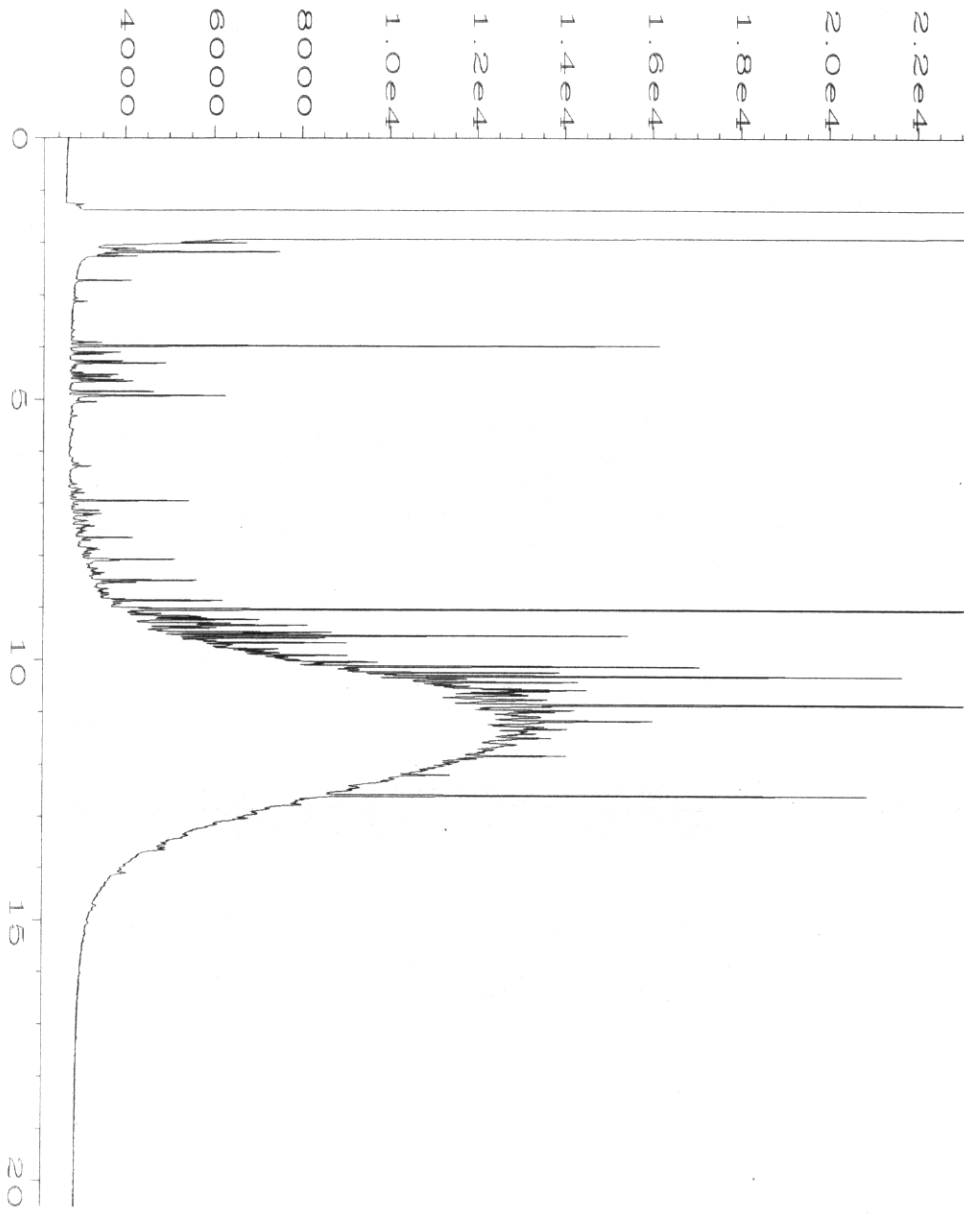
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Sample Name	: 505077-03+04 sg	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 11 May 05 05:19 PM	Analysis Method	: TPHD.MTH
Report Created on:	12 May 05 10:38 AM		



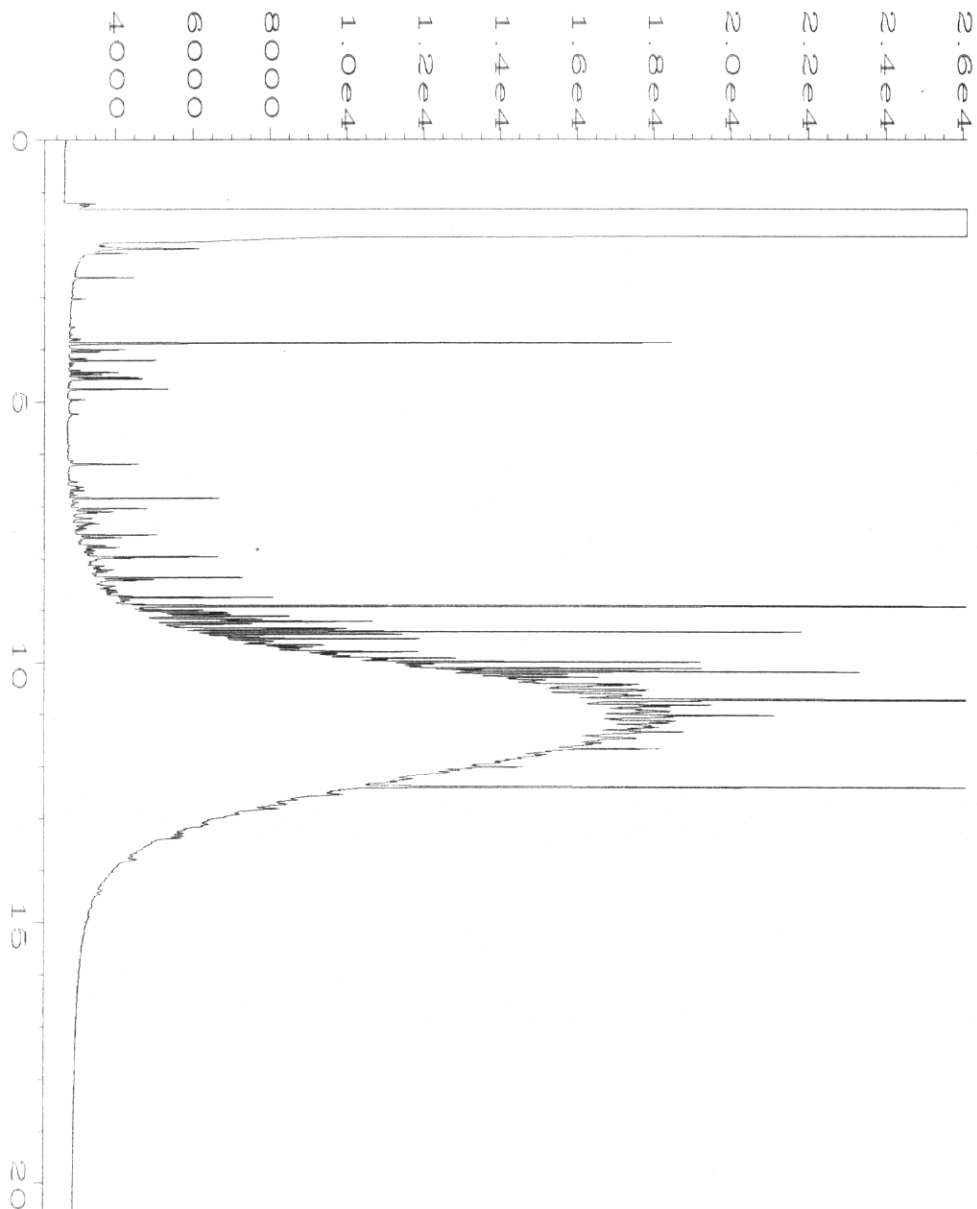
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Instrument	: GC #6	Injection Number	: 1
Sample Name	: 505077-03/04 sg x 2	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 19 May 05 12:33 PM	Analysis Method	: TPHD.MTH
Report Created on:	23 May 05 02:44 PM		



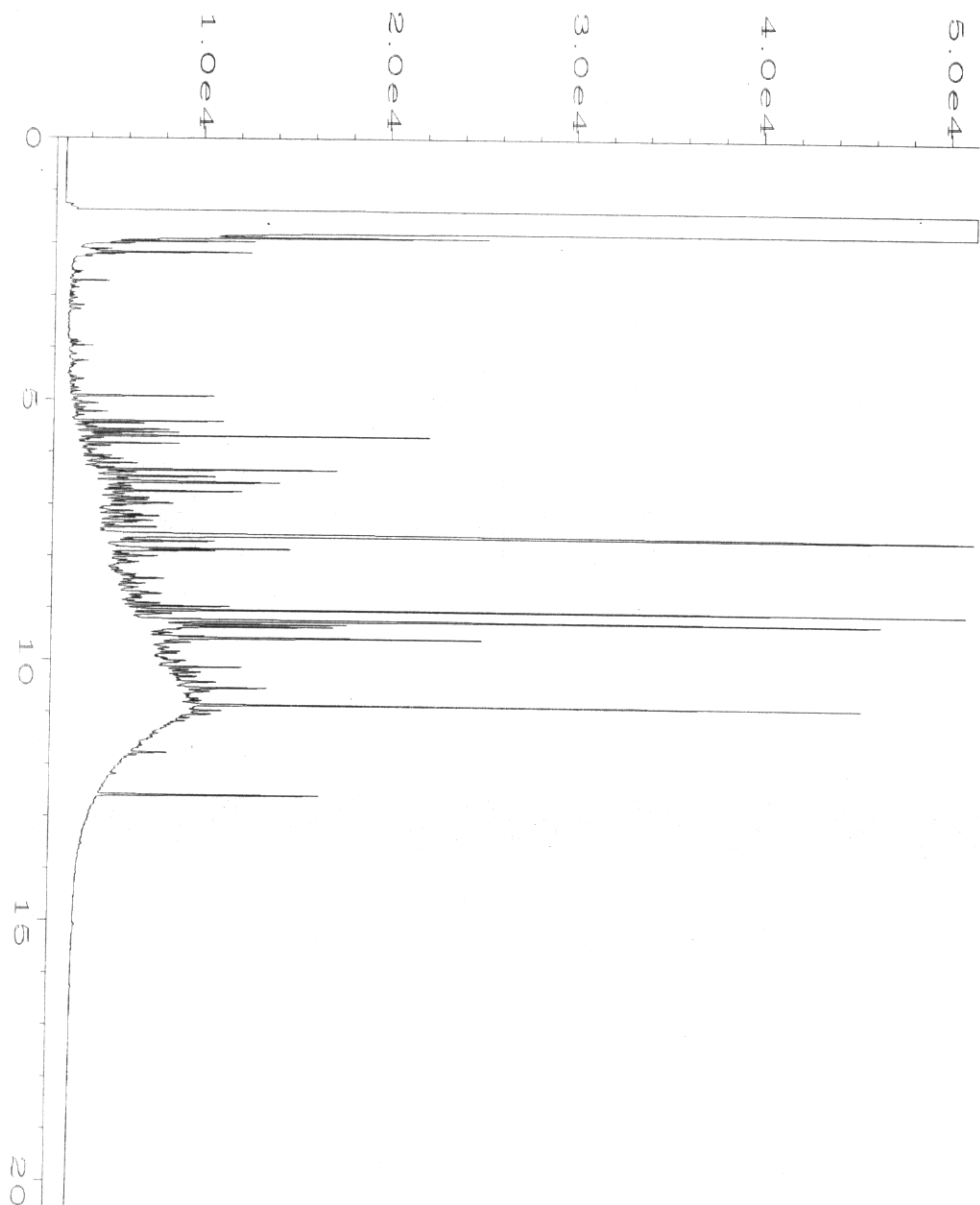
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Operator	: ME	Vial Number	: 28
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 505077-05+06	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 11 May 05 09:50 PM	Analysis Method	: TPHD.MTH
Report Created on:	12 May 05 10:39 AM		



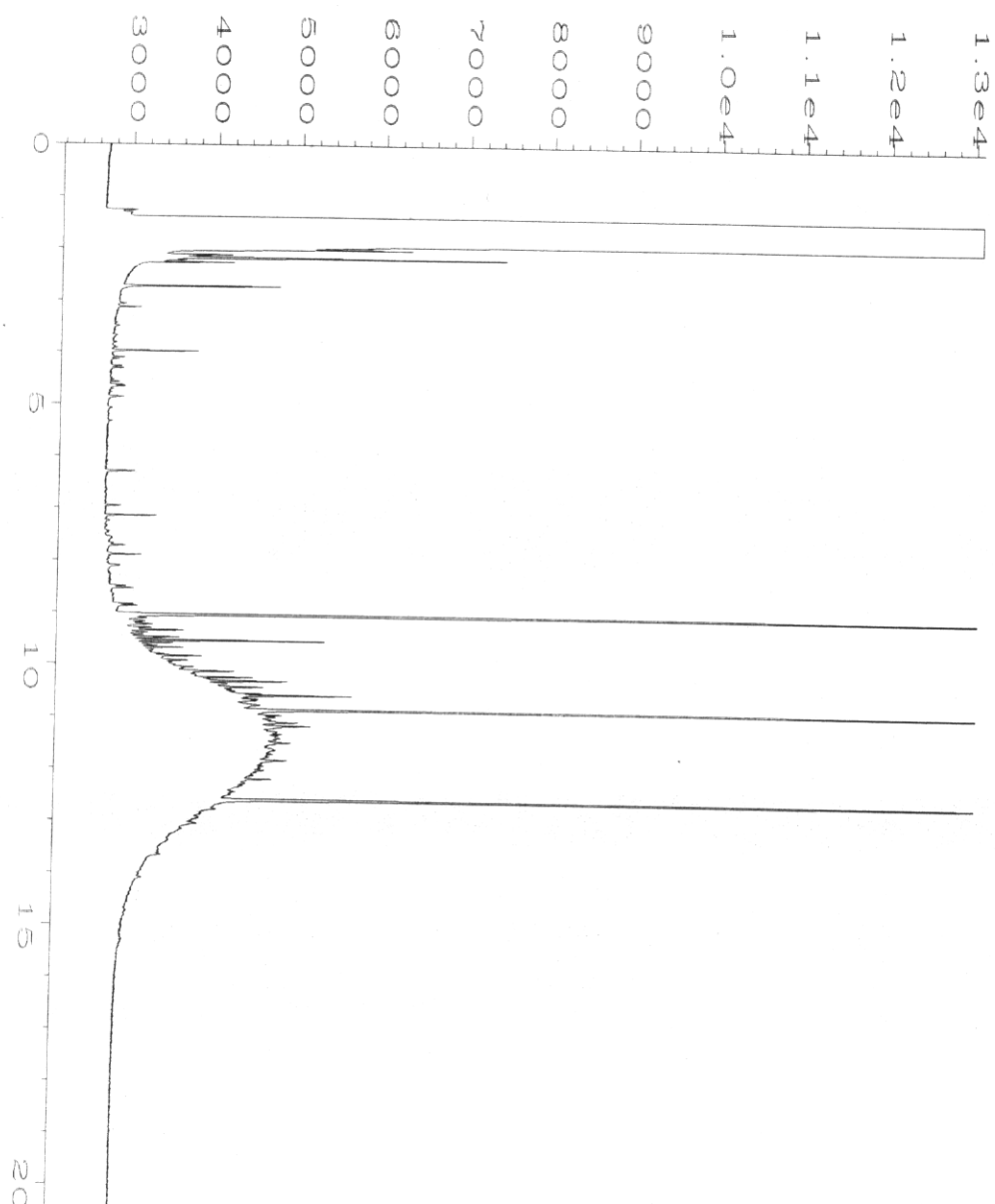
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Instrument	: GC #6	Injection Number	: 1
Sample Name	: 505077-05+06 sg	Sequence Line	: 5
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Report Created on:	12 May 05 10:38 AM		



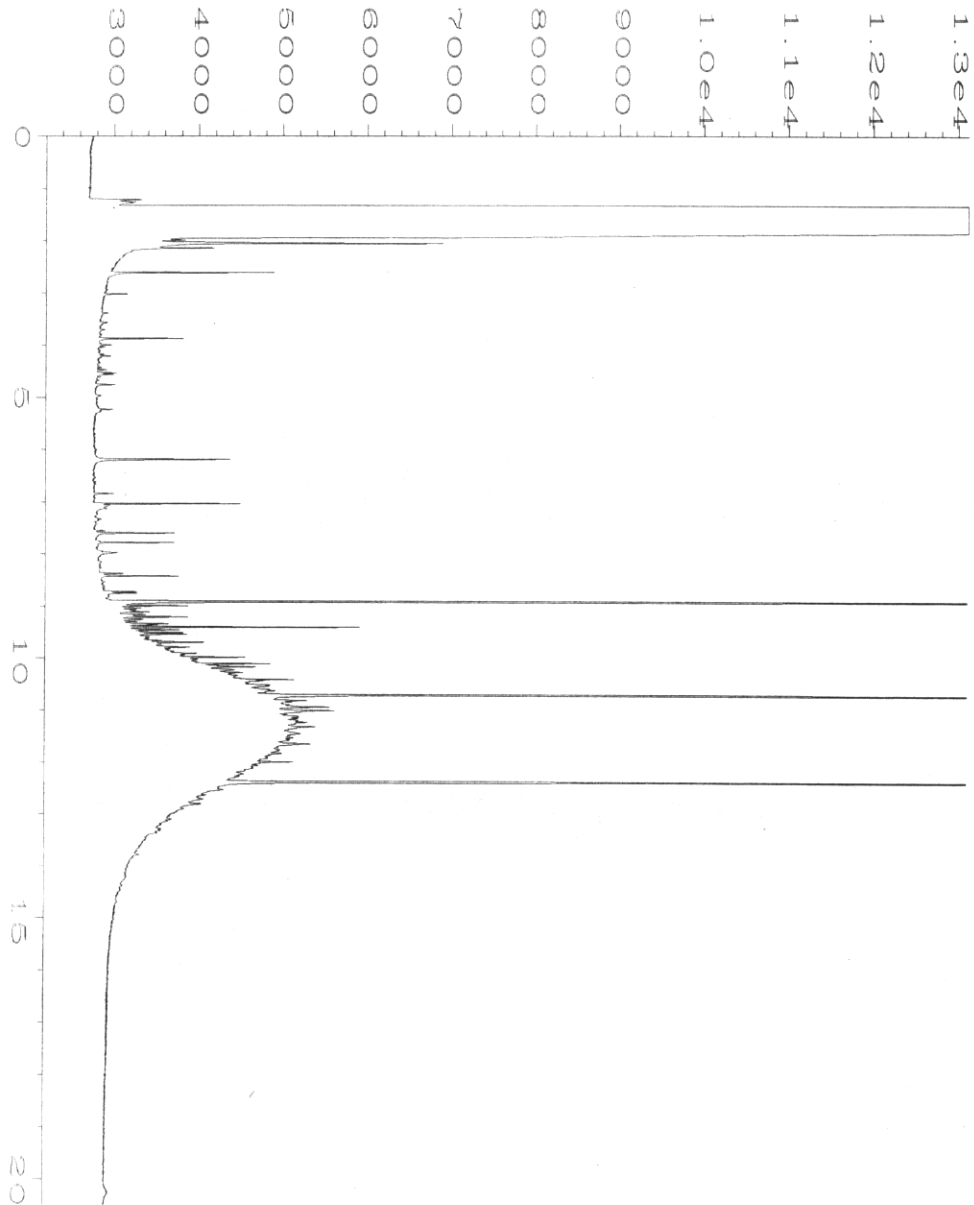
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Instrument	: GC #6	Injection Number	: 1
Sample Name	: 505077-05/06 sg x 2	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 19 May 05 11:13 AM	Analysis Method	: TPHD.MTH
Report Created on:	23 May 05 02:45 PM		



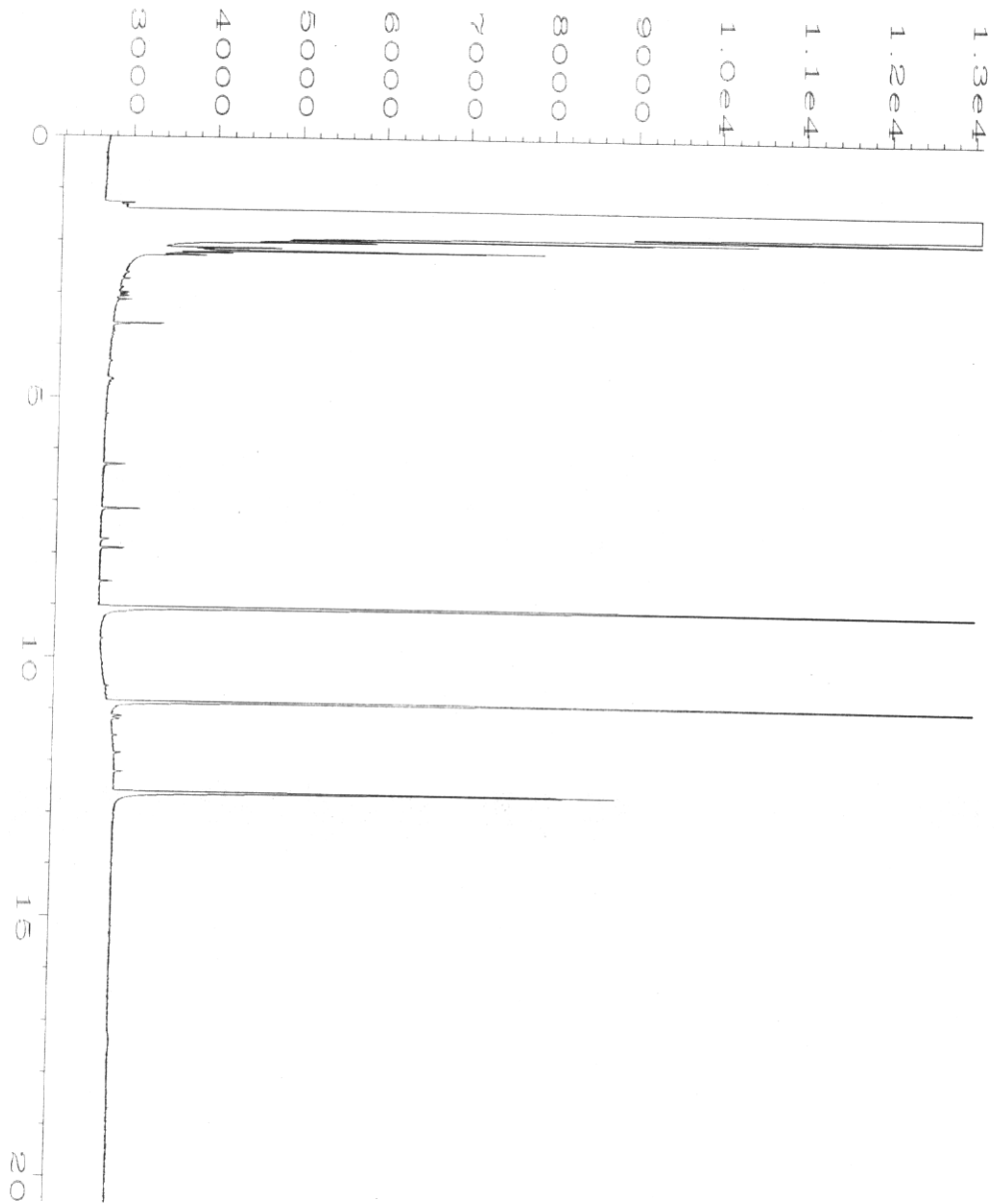
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 Instrument : GC #6
 Sample Name : 505077-07+08
 Run Time Bar Code:
 Acquired on : 11 May 05 10:17 PM
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 Injection Number : 1
 Sequence Line : 8
 Instrument Method: TPHDAK.MTH
 Analysis Method : TPHD.MTH



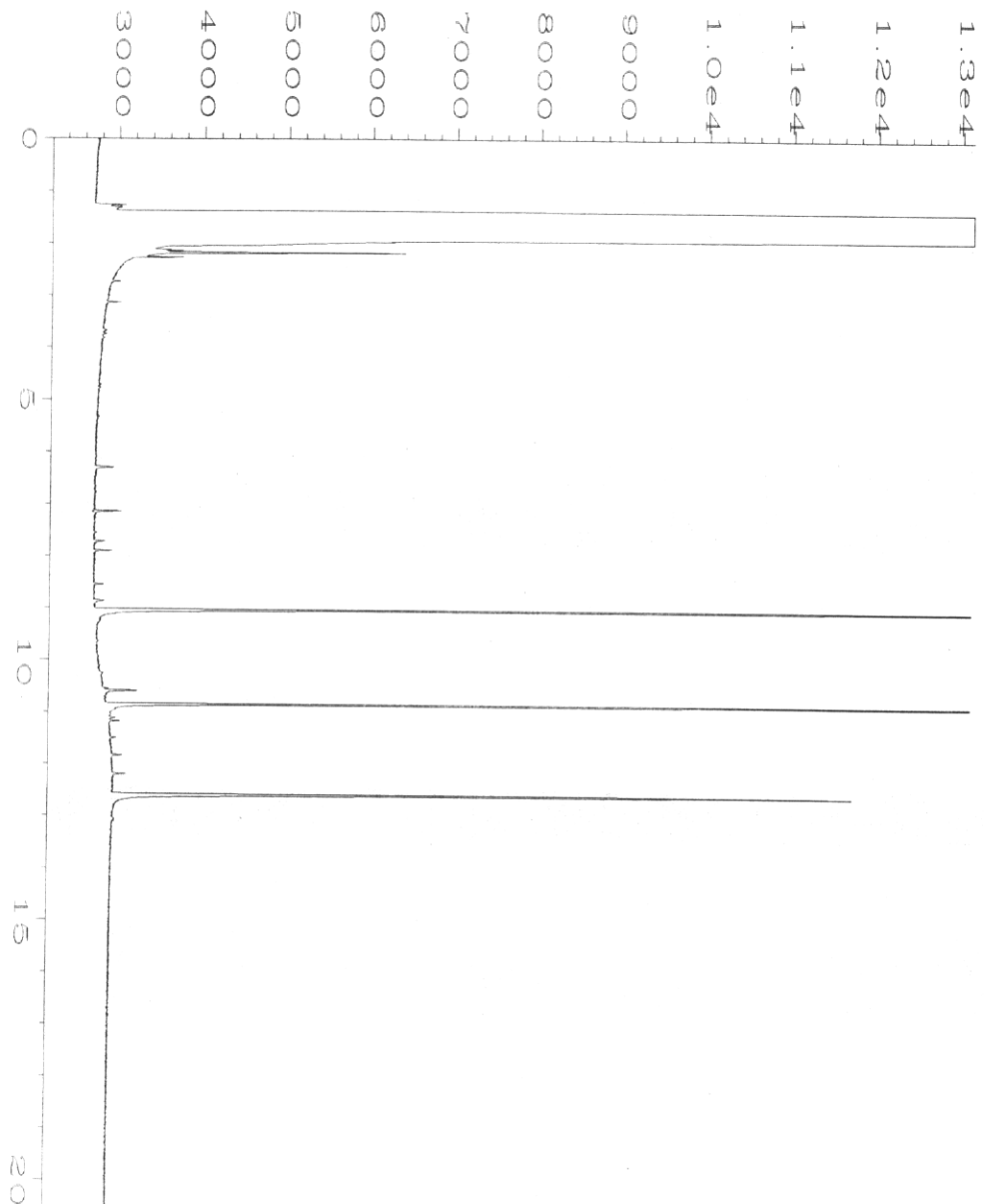
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Operator	: ME	Vial Number	: 22
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 505077-07+08 sg	Sequence Line	: 5
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Acquired on	: 11 May 05 06:13 PM	Analysis Method	: TPHD.MTH
Report Created on:	12 May 05 10:38 AM		



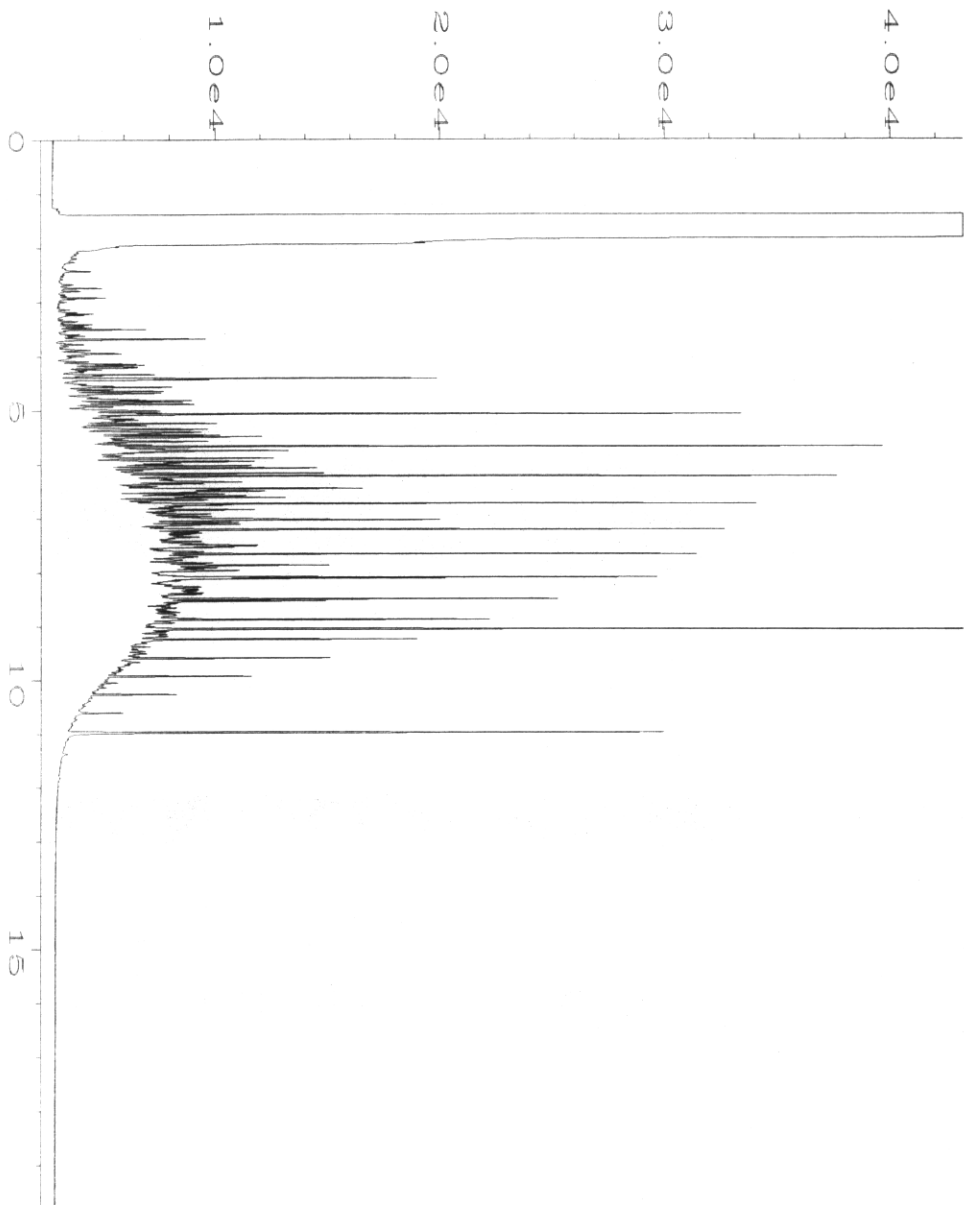
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Instrument	: GC #6	Injection Number	: 1
Sample Name	: 505077-07/08 sg x2	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
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Report Created on:	23 May 05 02:45 PM		



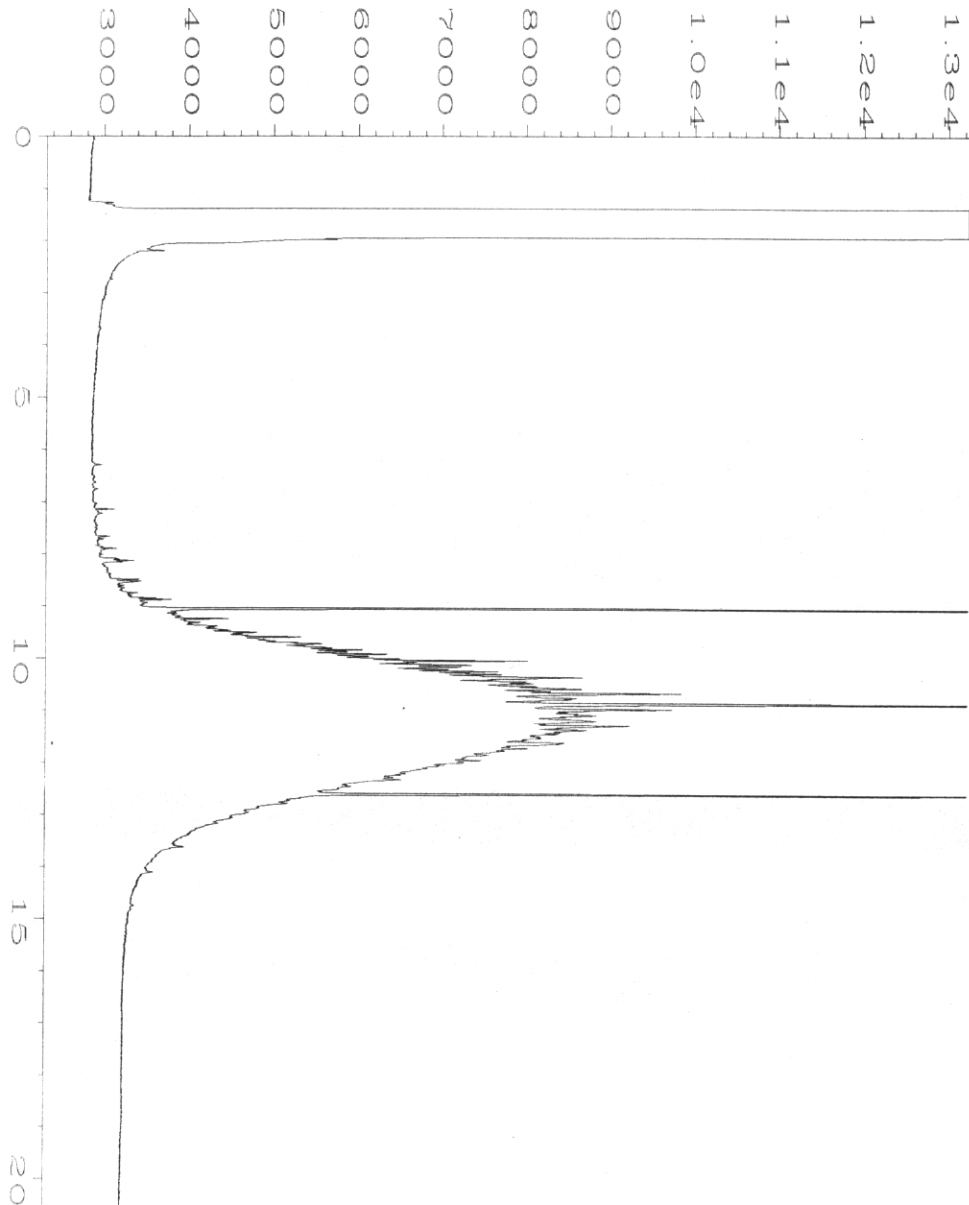
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Sample Name	: 05-614 mb2	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 11 May 05 07:33 PM	Analysis Method	: TPHD.MTH
Report Created on:	12 May 05 10:38 AM		



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Instrument	: GC #6	Injection Number	: 1
Sample Name	: 05-614 mb2 sg	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 11 May 05 02:38 PM	Analysis Method	: TPHD.MTH
Report Created on:	12 May 05 10:37 AM		



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Instrument	: GC #6	Injection Number	: 1
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Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 12 May 05 08:51 AM	Analysis Method	: TPHD.MTH
Report Created on:	12 May 05 10:37 AM		



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Instrument	: GC #6	Injection Number	: 1
Sample Name	: 500 MO 21-1	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 12 May 05 09:17 AM	Analysis Method	: TPHD.MTH
Report Created on:	12 May 05 10:37 AM		

505077


CM 05-09-05

18840 V2/A05

Chain-of Custody Record				ANALYSES										REMARKS					
Project No.: 9329/6				Date: 5/6/05										Page 1 of 2					
Samplers (Signature): <i>Matt Hilliard</i>														Additional Comments					
Date	Time	Sample Number	EPA Method 8021 (Full Scan)	EPA Method 8021 (Hal. VOCs only)	EPA Method 8021 (BTEX only)	EPA Method 8280	EPA Method 8270 (Full Scan)	EPA Method 8270 SIM (PAHs only)	Method 8015m (Gasoline)	Method 8015m (Diesel)	Method 8015m (Motor Oil)	Silica Gel Cleanup	Soil (S), Water (W) Vapor (V), or Other (o)	Filtered	Preserved	Cooled	No. of Containers		
01 A	5/5/05	1315	SL1-A														X	1	Composite and report
02 A		1535	SL1-B															1	as SL-1
01 B		1315	SL1-A-SG															1	Composite and report
02 B		1535	SL1-B-SG															1	as SL-1-SG
03 A		1145	SL2-A															1	Composite and report
04 A		1430	SL2-B															1	as SL-2
03 B		1145	SL2-A-SG															1	Composite and report
04 B		1430	SL2-B-SG															1	as SL-2-SG
05 A		1230	SL3-A															1	Composite and report
06 A		1500	SL3-B															1	as SL-3
05 B		1230	SL3-A-SG															1	Composite and report
06 B		1500	SL3-B-SG															1	as SL-3-SG
Laboratory: Friedman + Bruya				Turnaround Time: STD				Results to: Ross Steenson				Total No. of Containers: 12				tracking # 7910 6485 1258			
Relinquished by (Signature): <i>Matt Hilliard</i>		Date: 4/6/05		Relinquished by (Signature):		Date:		Relinquished by (Signature):		Date:		Method of Shipment: FedEx							
Printed Name: <i>Matt Hilliard</i>		Time: 1500		Printed Name:		Time:		Printed Name:		Time:		Laboratory Comments and Log No.:							
Company: Geomatrix				Company:				Company:											
Received by: <i>Sam Phan</i>		Date: 5/9/05		Received by:		Date:		Received by:		Date:									
Printed Name: <i>Sam Phan</i>		Time: 08:00		Printed Name:		Time:		Printed Name:		Time:									
Company: FBI				Company:				Company:											

505077

CM 05-09-05 18841 v2/A05

Chain-of Custody Record				ANALYSES										REMARKS					
Project No.: 9329/6				Date: 5/6/05										Page 2 of 2					
Samplers (Signature): <i>Matt Hillard</i>														Additional Comments					
Date	Time	Sample Number	EPA Method 8021 (Full Scan)	EPA Method 8021 (Met. VOCs only)	EPA Method 8021 (BTEX only)	EPA Method 8260	EPA Method 8270 (Full Scan)	EPA Method 8270 SIM (PAHS only)	Method 8015m (Gasoline)	Method 8015m (Diesel)	Method 8015m (Motor Oil)	Silica Gel Cleanup	Soil (S), Water (W) Vapor (V), or Other (o)	Filtered	Preserved	Cooled	No. of Containers	Additional Comments	
07A	5/5/05	1055	SL4-A																
08A		1355	SL4-B						X	X							X	1	Composite and report
07B		1055	SL4-A-SG						X	X								1	as SL-4
08B		1355	SL4-B-SG						X	X								1	Composite and report
07E		1055	SL4-A						X	X					X			3	as SL-4-SG
Laboratory: Friedman & Sawyer				Turnaround Time: STD				Results to: Ross Steenson				Total No. of Containers: 7							
Relinquished by (Signature): <i>Matt Hillard</i>		Date: 5/6/05		Relinquished by (Signature):		Date:		Relinquished by (Signature):		Date:		Method of Shipment: FedEx							
Printed Name: Matt H. Hillard		Time: 1500		Printed Name:		Time:		Printed Name:		Time:		Laboratory Comments and Log No.:							
Company: Geomatrix				Company:				Company:											
Received by: <i>Phan Phan</i>		Date: 5/9/05		Received by:		Date:		Received by:		Date:									
Printed Name: Phan Phan		Time: 08:00		Printed Name:		Time:		Printed Name:		Time:									
Company: FBI				Company:				Company:				 2101 Webster Street, 12th Floor • Oakland, CA 94612 Phone: 510-863-4100 Fax: 510-863-4141							

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 7, 2005

TASK 6
STORM WATER SAMPLES
MAY 18, 2005

Ross Steenson, Project Manager
Geomatrix Consultants, Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612

Dear Mr. Steenson:

Included are the results from the testing of material submitted on May 20, 2005 from the 9329 Task 6, F&BI 505221 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow

Charlene Morrow
Chemist

Enclosures
GMC0607R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 20, 2005 by Friedman & Bruya, Inc. from the Geomatrix Consultants, Inc. 9329 Task 6, F&BI 505221 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Geomatrix Consultants, Inc.</u>
505221-01	SL-6A
505221-01	SL-6B

As requested, A and B samples were composited prior to analysis, and the composite sample was analyzed with and without silica gel cleanup.

The RPD for LCS/LCSD diesel range analysis was outside established acceptance criteria. Review of the data indicates that sample results are not likely affected. All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/05
Date Received: 05/20/05
Project: 9329 Task 6, F&BI 505221
Date Extracted: 05/23/05
Date Analyzed: 05/25/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

Results Reported as $\mu\text{g/L}$ (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 68-143)
SL-6 505221-01	4,100	97
Method Blank	<50	78

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/05
Date Received: 05/20/05
Project: 9329 Task 6, F&BI 505221
Date Extracted: 05/23/05
Date Analyzed: 05/25/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as µg/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 68-143)
SL-6 505221-01	1,100	74
Method Blank	<50	84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/05
Date Received: 05/20/05
Project: 9329 Task 6, F&BI 505221
Date Extracted: 05/23/05
Date Analyzed: 06/03/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

**Sample Extracts Passed Twice Through a
Silica Gel Column Prior to Analysis**
Results Reported as µg/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 68-143)
SL-6 505221-01	1,500	101
Method Blank	<50	84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/05
Date Received: 05/20/05
Project: 9329 Task 6, F&BI 505221
Date Extracted: 05/23/05
Date Analyzed: 05/25/05 and 06/01/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

Results Reported as $\mu\text{g/L}$ (ppb)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 68-143)
SL-6 d 505221-01	7,800	110
Method Blank	<250	79

d - The sample was diluted.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/05
Date Received: 05/20/05
Project: 9329 Task 6, F&BI 505221
Date Extracted: 05/23/05
Date Analyzed: 05/25/05 and 06/01/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as µg/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 68-143)
SL-6 d 505221-01	8,300	101
Method Blank	<250	78

d - The sample was diluted.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/05
Date Received: 05/20/05
Project: 9329 Task 6, F&BI 505221
Date Extracted: 05/23/05
Date Analyzed: 06/03/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

**Sample Extracts Passed Twice Through a
Silica Gel Column Prior to Analysis
Results Reported as µg/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 68-143)
SL-6 505221-01	8,000	108
Method Blank	<250	78

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/05
Date Received: 05/20/05
Project: 9329 Task 6, F&BI 505221

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS
OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel	µg/L (ppb)	2,500	82	118	76-130	36 vo

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/05

Date Received: 05/20/05

Project: 9329 Task 6, F&BI 505221

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel	µg/L (ppb)	2,500	75	135	68-144	57 vo

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/05

Date Received: 05/20/05

Project: 9329 Task 6, F&BI 505221

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS
OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Motor Oil	µg/L (ppb)	2,500	97	103	70-130	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/05

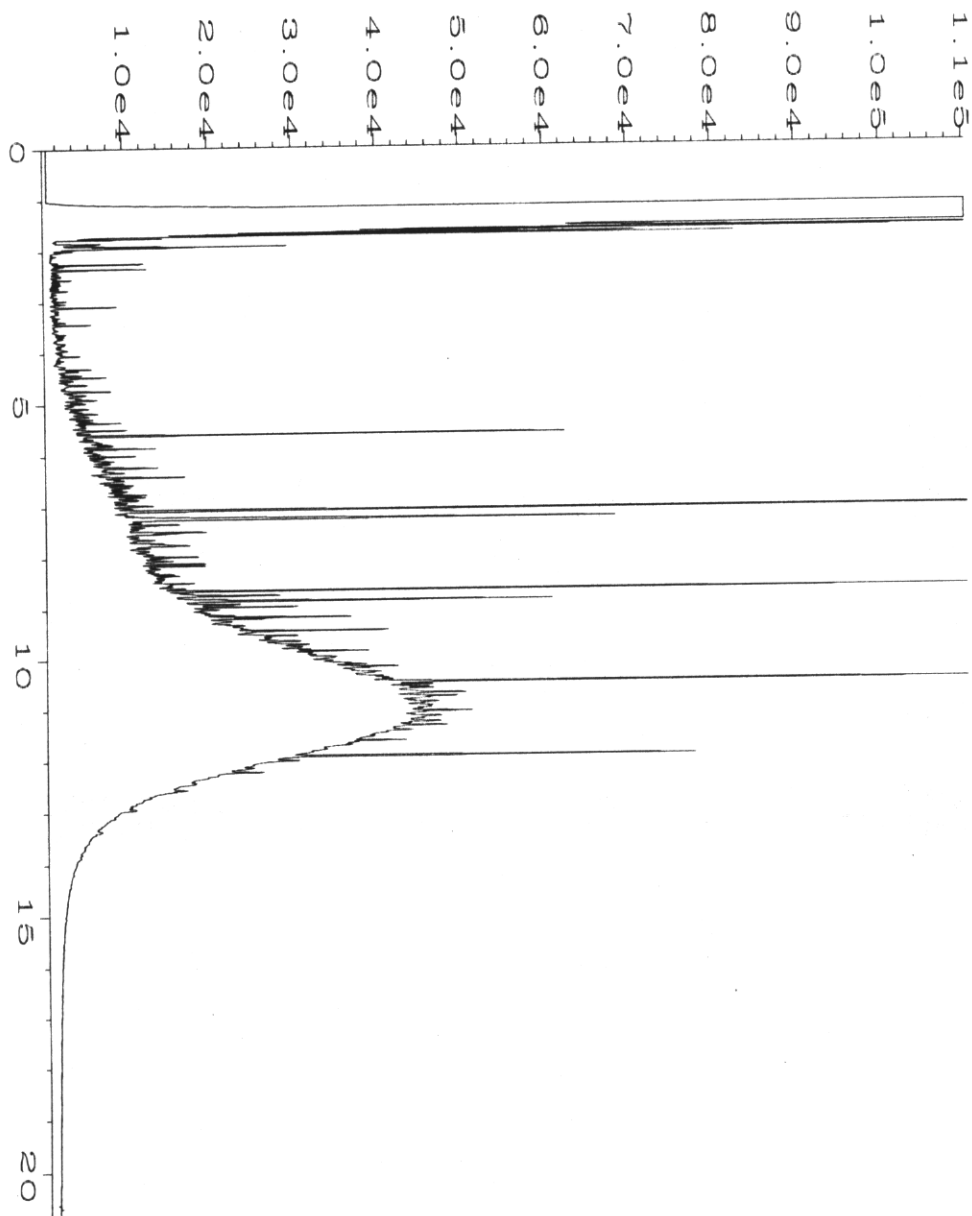
Date Received: 05/20/05

Project: 9329 Task 6, F&BI 505221

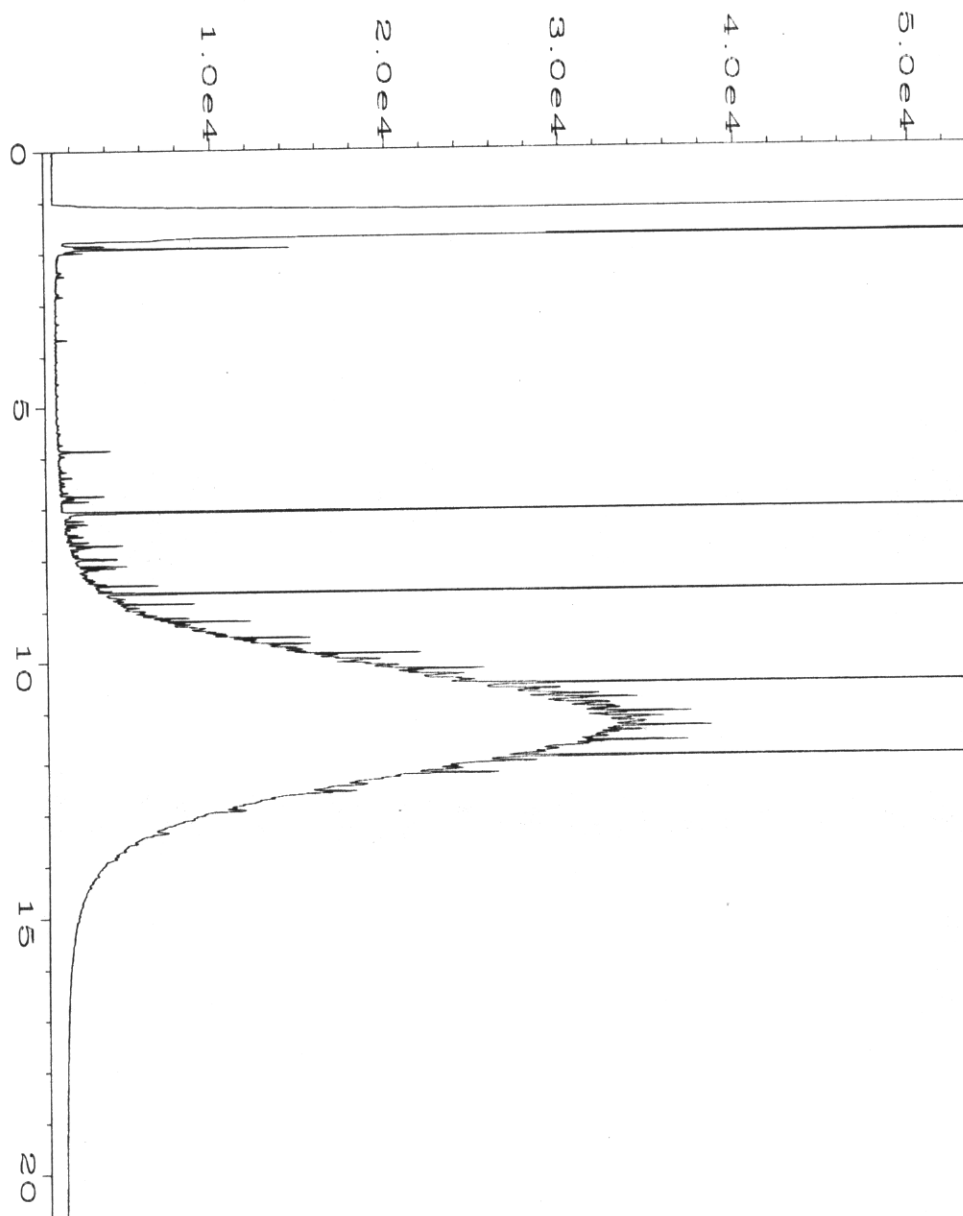
**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS
AS MOTOR OIL
USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample Silica Gel

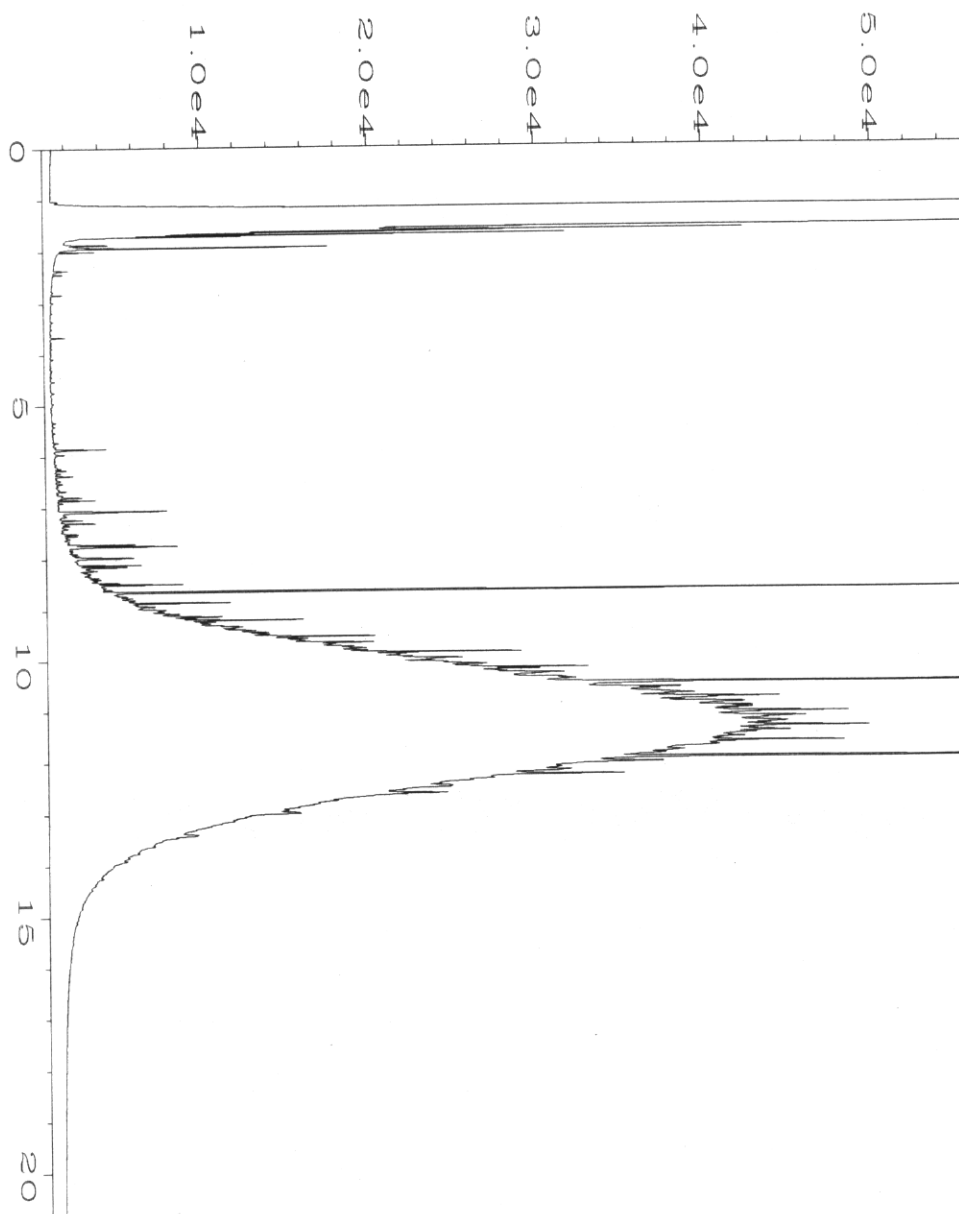
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Motor Oil	µg/L (ppb)	2,500	87	88	70-130	1



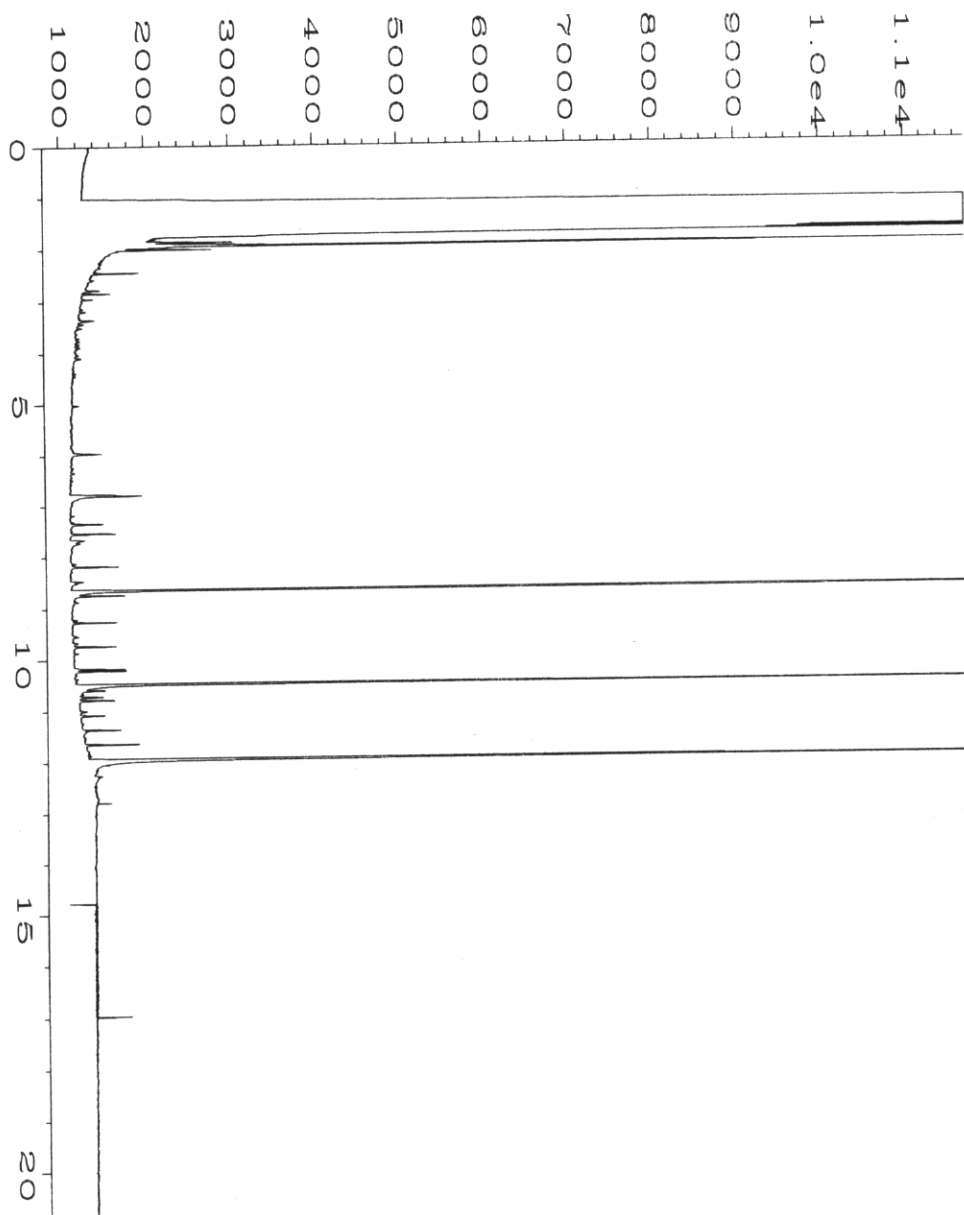
Data File Name	: L:\HPCHEM\4\DATA\05-25-05\025F1001.D	Page Number	: 1
Operator	: ME	Vial Number	: 25
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 505221-01	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 25 May 05 11:36 PM	Analysis Method	: BTEXG.MTH
Report Created on:	01 Jun 05 02:35 PM		



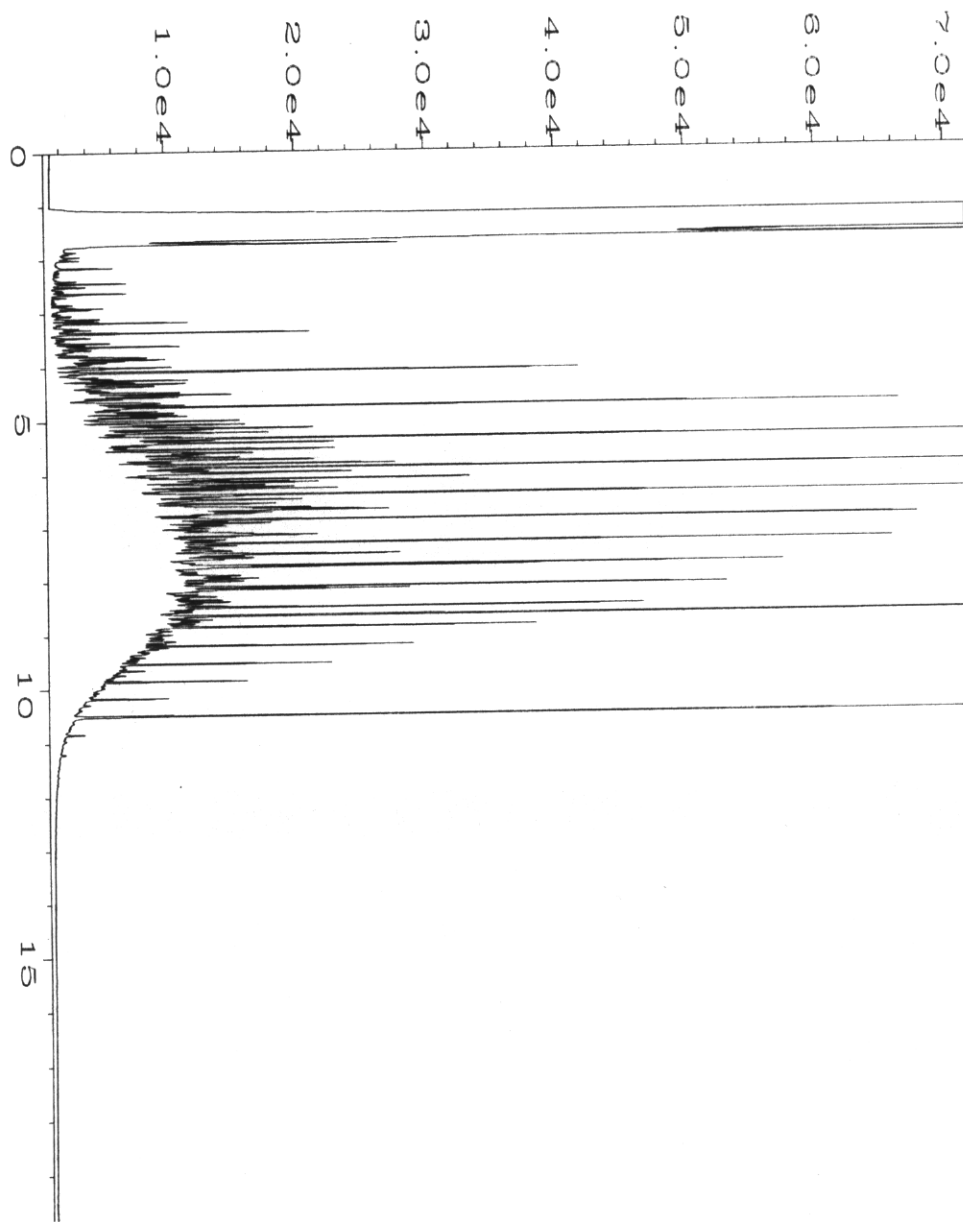
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Operator	: ME	Vial Number	: 24
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 505221-01 sg	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 25 May 05 11:06 PM	Analysis Method	: BTEXG.MTH
Report Created on:	01 Jun 05 02:35 PM		



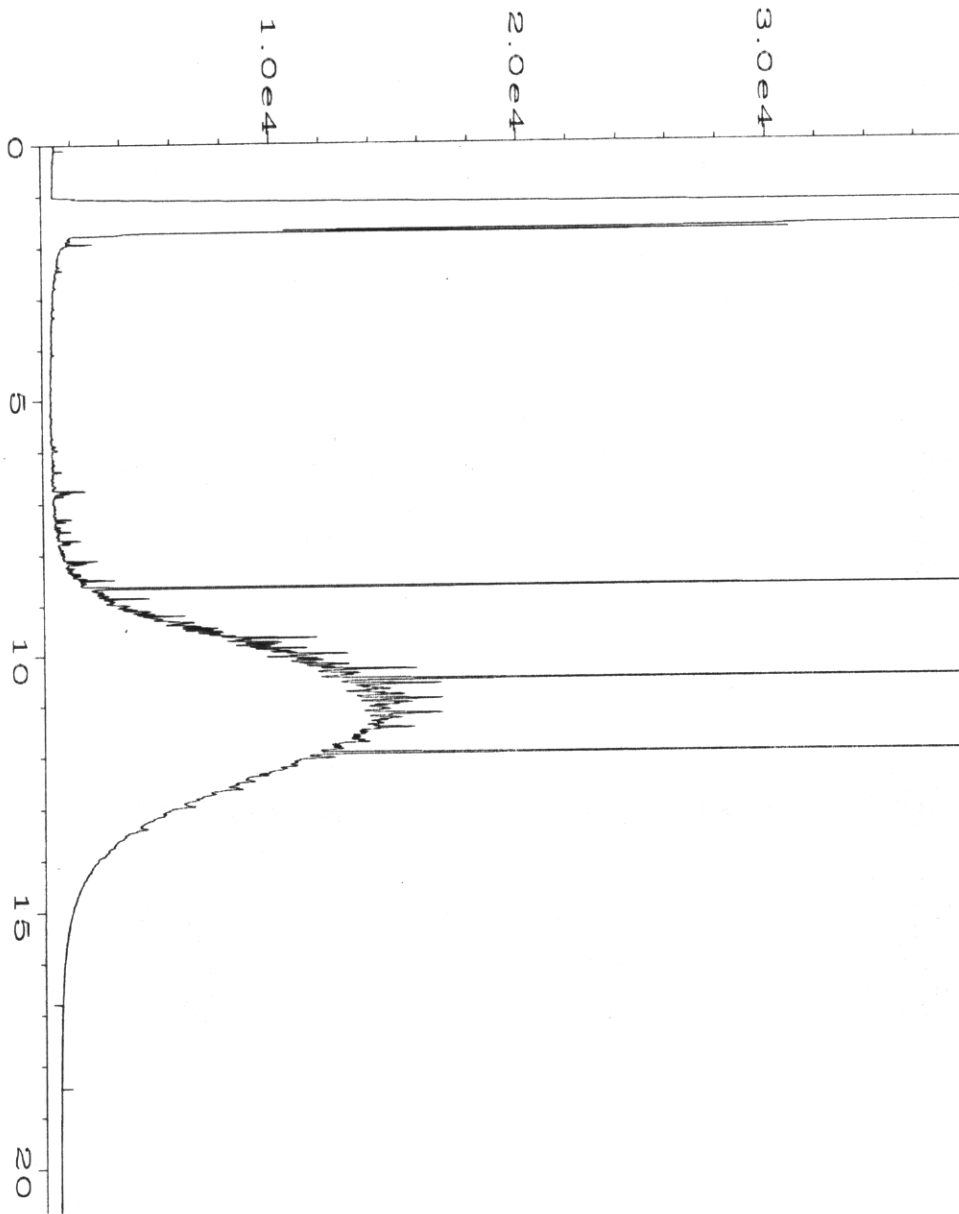
Data File Name	: L:\HPCHEM\4\DATA\06-03-05\031F1101.D	Page Number	: 1
Operator	: ME	Vial Number	: 31
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 505221-01 sgx2	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 04 Jun 05 00:20 AM	Analysis Method	: BTEXG.MTH
Report Created on:	06 Jun 05 12:22 PM		



Data File Name	: L:\HPCHEM\4\DATA\05-25-05\011F0501.D	Page Number	: 1
Operator	: ME	Vial Number	: 11
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 05-694 mb sg	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 25 May 05 03:21 PM	Analysis Method	: BTEXG.MTH
Report Created on:	01 Jun 05 02:35 PM		



Data File Name	: L:\HPCHEM\4\DATA\05-25-05\002F0101.D	Page Number	: 1
Operator	: ME	Vial Number	: 2
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 wadf 20-51	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 25 May 05 11:48 AM	Analysis Method	: BTEXG.MTH
Report Created on:	01 Jun 05 02:34 PM		



Data File Name	: L:\HPCHEM\4\DATA\05-25-05\006F0301.D	Page Number	: 1
Operator	: ME	Vial Number	: 6
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 MO 21-1	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	TPHDAK.MTH
Acquired on	: 25 May 05 01:26 PM	Analysis Method	: BTEXG.MTH
Report Created on:	01 Jun 05 02:35 PM		

505221

CM 05-20-05

18843

B04

Chain-of Custody Record			ANALYSES										REMARKS					
Project No.: 9329 Task 6													Date: 5/19/04 Page 1 of 1					
Samplers (Signature): Matt Hillard													Additional Comments					
Date	Time	Sample Number	EPA Method 8021 (Full Scan)	EPA Method 8021 (Petl. VOCs only)	EPA Method 8021 (BTEX only)	EPA Method 8260	EPA Method 8270 (Full Scan)	EPA Method 8270 SIM (PAHS only)	Method 8015m (Gasoline)	Method 8015m (Diesel)	Method 8015m (Motor Oil)	Silica Gel Cleanup w/ or w/o	Soil (S), Water (W), Vapor (V), or Other (o)	Filtered	Preserved	Cooled	No. of Containers	
5/19/05	1600	SL-6A								X	X	X	W				1	Composite and report as SL-6
	1630	SL-6B								X	X	X	W				1	
																		TPH-D/MO with and without silica gel cleanup
Laboratory: Friedman and Bryna			Turnaround Time: Std			Results to: Ross Steenson			Total No. of Containers: 2			Tracking # 7900 2723 1866						
Relinquished by (Signature): Matt Hillard		Date: 5/19	Relinquished by (Signature):		Date:	Relinquished by (Signature):		Date:	Method of Shipment: FedEx									
Printed Name: Matt Hillard		Time: 1330	Printed Name:		Time:	Printed Name:		Time:	Laboratory Comments and Log No.:									
Company: Geomatrix			Company:			Company:												
Received by: Matt Hillard		Date: 5/20	Received by:		Date:	Received by:		Date:										
Printed Name: Matt Hillard		Time: 09:30	Printed Name:		Time:	Printed Name:		Time:										
Company: FBI			Company:			Company:												

Lab
01
H
01
A
01
B



May 24, 2005

FAL Project ID: 3269

Mr. Ross Steenson
Geomatrix Consultants, Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612

Dear Mr. Steenson,

Enclosed are the results for Frontier Analytical Laboratory project **3269**. This corresponds to your project no. 9329 Task 6. Four one-liter aqueous sample bottles were received on 5/10/05 in good condition. These four bottles represented two aqueous samples. The two one-liter bottles labeled SL2-A and SL2-B were composited as one sample. The two one-liter bottles labeled SL4-A and SL4-B were composited as one sample. As per your instructions, both composited samples were pre-filtered through a 2.7um and a 0.7um filter to remove any particulate prior to spiking and extraction. Since performing this pre-filtering step represents a deviation from EPA Method 1613, the data sheets have been footnoted to indicate they were pre-filtered. After pre-filtering, a one liter sub-sample of each of the two liter samples was then extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. Geomatrix Consultants, Inc. requested a turnaround time of ten business days for project **3269**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains the project-sample tracking log, qualifier reference guide, ML/MDL form and the analytical results. The Sample Receipt section contains the chain of custody, sample login form and sample photo. Also included is the Electronic Data Deliverable (EDD) you requested.

If you have any questions regarding project **3269**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

A handwritten signature in cursive script that reads "Bradley B. Silverbush".

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillside Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
dioxin@frontieranalytical.com

000001 of 000013



Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: 3269

Received on: 05/10/2005

Project Due: 05/25/2005 Storage: R1

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
3269-001-SA	1	9329 Task 6	SL-2	EPA 1613 D/F	Aqueous	05/05/2005	11:45 am	05/05/2006
3269-002-SA	1	9329 Task 6	SL-4	EPA 1613 D/F	Aqueous	05/05/2005	10:55 am	05/05/2006

Qualifier Reference Guide

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J[†] Analyte concentration is below calibration range
- M Maximum possible concentration
- NP Not Provided
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection
- Analyte Not Detected
- + Spike levels were inappropriate versus the levels in the sample

[†] "J" values are equivalent to DNQ (detected but not quantified) for California Toxics Rule (CTR)/National Pollutant Discharge Elimination System (NPDES) samples

EPA Method 1613/8290 Aqueous MDL
(SPE Extraction)



Analyte	ML	MDL
2,3,7,8-TCDD	5.00	0.543
1,2,3,7,8-PeCDD	25.0	0.771
1,2,3,4,7,8-HxCDD	25.0	0.845
1,2,3,6,7,8-HxCDD	25.0	1.05
1,2,3,7,8,9-HxCDD	25.0	0.910
1,2,3,4,6,7,8-HpCDD	25.0	1.18
OCDD	50.0	2.26
2,3,7,8-TCDF	5.00	0.449
1,2,3,7,8-PeCDF	25.0	1.05
2,3,4,7,8-PeCDF	25.0	1.08
1,2,3,4,7,8-HxCDF	25.0	0.545
1,2,3,6,7,8-HxCDF	25.0	0.355
1,2,3,7,8,9-HxCDF	25.0	0.370
2,3,4,6,7,8-HxCDF	25.0	0.476
1,2,3,4,6,7,8-HpCDF	25.0	0.516
1,2,3,4,7,8,9-HpCDF	25.0	0.654
OCDF	50.0	1.22

Project 3015, extracted 1/6/05; analyzed 1/12/05. Based on a 1.0 Liter sample, pg/L.

000004 of 000013

EPA Method 1613
PCDD/F
#Modified



FAL ID: 3269-001-MB
Client ID: Method Blank
Matrix: Aqueous
Extraction Batch No.: X0570

Date Extracted: 5/18/05
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-4-7-05
GC Column: db5
Units: pg/L
MS/MSD Batch No.: X0560
Acquired: 19-MAY-05
WHO TEQ: 0.00

Compound	Conc	DL	Qual	WHO Tox	Compound	Conc	DL	Qual	#Hom
2,3,7,8-TCDD	-	0.995	-	-					
1,2,3,7,8-PeCDD	-	1.11	-	-					
1,2,3,4,7,8-HxCDD	-	1.29	-	-					
1,2,3,6,7,8-HxCDD	-	1.64	-	-					
1,2,3,7,8,9-HxCDD	-	1.41	-	-	Total Tetra-Dioxins	-	0.995	-	0
1,2,3,4,6,7,8-HpCDD	-	1.14	-	-	Total Penta-Dioxins	-	1.11	-	0
OCDD	-	3.52	-	-	Total Hexa-Dioxins	-	1.64	-	0
					Total Hepta-Dioxins	-	1.14	-	0
2,3,7,8-TCDF	-	0.499	-	-					
1,2,3,7,8-PeCDF	-	1.15	-	-					
2,3,4,7,8-PeCDF	-	1.10	-	-					
1,2,3,4,7,8-HxCDF	-	0.651	-	-					
1,2,3,6,7,8-HxCDF	-	0.559	-	-					
2,3,4,6,7,8-HxCDF	-	0.595	-	-					
1,2,3,7,8,9-HxCDF	-	0.761	-	-	Total Tetra-Furans	-	0.499	-	0
1,2,3,4,6,7,8-HpCDF	-	0.778	-	-	Total Penta-Furans	-	1.15	-	0
1,2,3,4,7,8,9-HpCDF	-	0.983	-	-	Total Hexa-Furans	-	0.761	-	0
OCDF	-	1.87	-	-	Total Hepta-Furans	-	0.983	-	0

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.0	25.0 - 164	
13C-1,2,3,7,8-PeCDD	83.9	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	91.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	97.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	88.1	23.0 - 140	
13C-OCDD	98.9	17.0 - 157	
13C-2,3,7,8-TCDF	91.9	24.0 - 169	
13C-1,2,3,7,8-PeCDF	90.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	88.7	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	90.8	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	92.9	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	94.4	29.0 - 147	
13C-1,2,3,7,8,9-HxCDF	93.6	28.0 - 136	
13C-1,2,3,4,6,7,8-HpCDF	94.9	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	97.3	26.0 - 138	
13C-OCDF	97.8	17.0 - 157	

Cleanup Surrogate
37Cl-2,3,7,8-TCDD

102 35.0 - 197

Sample was filtered prior to extraction to remove particulate.
Aqueous only portion was extracted and analyzed.

Analyst: [Signature]
Date: 5/20/05

Reviewed by: [Signature]
Date: 5/24/05

**EPA Method 1613
PCDD/F
#Modified**



FAL ID: 3269-001-OPR
Client ID: OPR
Matrix: Aqueous
Extraction Batch No.: X0570

Date Extracted: 5/18/05
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-4-7-05
GC Column: db5
Units: ng/mL
MS/MSD Batch No.: X0560

Acquired: 19-MAY-05
WHO TEQ: NA

Compound	Conc	QC Limits
2,3,7,8-TCDD	9.75	6.70 - 15.8
1,2,3,7,8-PeCDD	51.3	35.0 - 71.0
1,2,3,4,7,8-HxCDD	54.0	35.0 - 82.0
1,2,3,6,7,8-HxCDD	52.0	38.0 - 67.0
1,2,3,7,8,9-HxCDD	53.9	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	55.5	35.0 - 70.0
OCDD	107	78.0 - 144
2,3,7,8-TCDF	10.4	7.50 - 15.8
1,2,3,7,8-PeCDF	57.3	40.0 - 67.0
2,3,4,7,8-PeCDF	56.9	34.0 - 80.0
1,2,3,4,7,8-HxCDF	57.4	36.0 - 67.0
1,2,3,6,7,8-HxCDF	58.3	42.0 - 65.0
2,3,4,6,7,8-HxCDF	57.9	39.0 - 65.0
1,2,3,7,8,9-HxCDF	57.7	35.0 - 78.0
1,2,3,4,6,7,8-HpCDF	58.9	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	59.3	39.0 - 69.0
OCDF	116	63.0 - 170
Internal Standards	% Rec	QC Limits
13C-2,3,7,8-TCDD	87.7	20.0 - 175
13C-1,2,3,7,8-PeCDD	77.0	21.0 - 227
13C-1,2,3,4,7,8-HxCDD	85.1	21.0 - 193
13C-1,2,3,6,7,8-HxCDD	91.5	25.0 - 163
13C-1,2,3,4,6,7,8-HpCDD	86.5	26.0 - 166
13C-OCDD	99.0	13.0 - 198
13C-2,3,7,8-TCDF	86.4	22.0 - 152
13C-1,2,3,7,8-PeCDF	82.3	21.0 - 192
13C-2,3,4,7,8-PeCDF	82.7	13.0 - 328
13C-1,2,3,4,7,8-HxCDF	86.4	19.0 - 202
13C-1,2,3,6,7,8-HxCDF	87.7	21.0 - 159
13C-2,3,4,6,7,8-HxCDF	89.8	17.0 - 205
13C-1,2,3,7,8,9-HxCDF	89.6	22.0 - 176
13C-1,2,3,4,6,7,8-HpCDF	93.0	21.0 - 158
13C-1,2,3,4,7,8,9-HpCDF	96.5	20.0 - 186
13C-OCDF	98.9	13.0 - 198

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 92.2 31.0 - 191

Sample was filtered prior to extraction to remove particulate.
Aqueous only portion was extracted and analyzed.

Analyst: [Signature]
Date: 5/20/05

Reviewed by: [Signature]
Date: 5/24/05

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**EPA Method 1613
PCDD/F
#Modified**



FAL ID: 3269-001-SA
Client ID: SL-2
Matrix: Aqueous
Extraction Batch No.: X0570

Date Extracted: 5/18/05
Date Received: 5/10/05
Amount: 0.951 L

ICal: PCDDFAL3-4-7-05
GC Column: db5
Units: pg/L
MS/MSD Batch No.: X0560
Acquired: 20-MAY-05
WHO TEQ: 0.0789

Compound	Conc	DL	Qual	WHO Tox	Compound	Conc	DL	Qual	#Hom
2,3,7,8-TCDD	-	1.45	-	-					
1,2,3,7,8-PeCDD	-	1.30	-	-					
1,2,3,4,7,8-HxCDD	-	2.14	-	-					
1,2,3,6,7,8-HxCDD	-	2.38	-	-					
1,2,3,7,8,9-HxCDD	-	2.10	-	-	Total Tetra-Dioxins	-	1.45		0
1,2,3,4,6,7,8-HpCDD	7.40	-	J	0.0740	Total Penta-Dioxins	-	1.30		0
OCDD	48.9	-		0.00489	Total Hexa-Dioxins	-	2.38		0
					Total Hepta-Dioxins	14.9	-	J	2
2,3,7,8-TCDF	-	0.952	-	-					
1,2,3,7,8-PeCDF	-	1.74	-	-					
2,3,4,7,8-PeCDF	-	1.73	-	-					
1,2,3,4,7,8-HxCDF	-	1.12	-	-					
1,2,3,6,7,8-HxCDF	-	1.03	-	-					
2,3,4,6,7,8-HxCDF	-	0.994	-	-					
1,2,3,7,8,9-HxCDF	-	1.32	-	-	Total Tetra-Furans	-	0.952		0
1,2,3,4,6,7,8-HpCDF	-	1.45	-	-	Total Penta-Furans	-	1.74		0
1,2,3,4,7,8,9-HpCDF	-	1.82	-	-	Total Hexa-Furans	-	1.32		0
OCDF	-	3.30	-	-	Total Hepta-Furans	-	1.82		0

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	71.3	25.0 - 164	
13C-1,2,3,7,8-PeCDD	57.6	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	66.7	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	72.4	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	66.2	23.0 - 140	
13C-OCDD	74.6	17.0 - 157	
13C-2,3,7,8-TCDF	71.3	24.0 - 169	
13C-1,2,3,7,8-PeCDF	63.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	62.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	69.3	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	70.5	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	71.0	29.0 - 147	
13C-1,2,3,7,8,9-HxCDF	70.0	28.0 - 136	
13C-1,2,3,4,6,7,8-HpCDF	72.6	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	73.3	26.0 - 138	
13C-OCDF	74.2	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 103 35.0 - 197

Sample was filtered prior to extraction to remove particulate.
Aqueous only portion was extracted and analyzed.

Analyst: [Signature]

Date: 5/20/05

Reviewed by: [Signature]

Date: 5/20/05

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**EPA Method 1613
PCDD/F
#Modified**



FAL ID: 3269-002-SA
Client ID: SL-4
Matrix: Aqueous
Extraction Batch No.: X0570

Date Extracted: 5/18/05
Date Received: 5/10/05
Amount: 0.967 L

ICal: PCDDFAL3-4-7-05
GC Column: db5
Units: pg/L
MS/MSD Batch No.: X0560
Acquired: 20-MAY-05
WHO TEQ: 0.0756

Compound	Conc	DL	Qual	WHO Tox	Compound	Conc	DL	Qual	#Hom
2,3,7,8-TCDD	-	0.890	-	-					
1,2,3,7,8-PeCDD	-	1.86	-	-					
1,2,3,4,7,8-HxCDD	-	2.38	-	-					
1,2,3,6,7,8-HxCDD	-	3.07	-	-	Total Tetra-Dioxins	-	0.890		0
1,2,3,7,8,9-HxCDD	-	2.64	-	-	Total Penta-Dioxins	-	1.86		0
1,2,3,4,6,7,8-HpCDD	7.26	-	J	0.0726	Total Hexa-Dioxins	-	3.07		0
OCDD	30.3	-	J	0.00303	Total Hepta-Dioxins	12.3	-	J	2
2,3,7,8-TCDF	-	0.613	-	-					
1,2,3,7,8-PeCDF	-	1.09	-	-					
2,3,4,7,8-PeCDF	-	1.09	-	-					
1,2,3,4,7,8-HxCDF	-	1.77	-	-					
1,2,3,6,7,8-HxCDF	-	1.50	-	-					
2,3,4,6,7,8-HxCDF	-	1.62	-	-					
1,2,3,7,8,9-HxCDF	-	1.98	-	-	Total Tetra-Furans	-	0.613		0
1,2,3,4,6,7,8-HpCDF	-	2.04	-	-	Total Penta-Furans	-	1.10		0
1,2,3,4,7,8,9-HpCDF	-	2.54	-	-	Total Hexa-Furans	-	1.98		0
OCDF	-	3.20	-	-	Total Hepta-Furans	-	2.54		0

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	81.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	68.2	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	75.7	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	81.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	73.2	23.0 - 140	
13C-OCDD	81.2	17.0 - 157	
13C-2,3,7,8-TCDF	80.4	24.0 - 169	
13C-1,2,3,7,8-PeCDF	74.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	74.7	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	79.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	80.1	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	84.1	29.0 - 147	
13C-1,2,3,7,8,9-HxCDF	80.5	28.0 - 136	
13C-1,2,3,4,6,7,8-HpCDF	81.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	79.7	26.0 - 138	
13C-OCDF	79.4	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 108 35.0 - 197

Sample was filtered prior to extraction to remove particulate.
Aqueous only portion was extracted and analyzed.

Analyst: [Signature]
Date: 5/20/05

Reviewed by: [Signature]
Date: 5/20/05

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**EPA Method 1613
PCDD/F**



FAL ID: 3228-002-MS/MSD
Client ID: 05-3630-7
Matrix: Aqueous
Extraction Batch No.: X0560

Date Extracted: 5-5-2005
Date Received: 4-14-05
Sample Amount: 0.944 L
MS Amount: 0.962 L
MSD Amount: 0.969 L

ICal: pcddfal3-4-7-05
GC Column: db5
Units: pg
MS/MSD Batch No.: X0560

MS Acquired: 7-MAY-05
MSD Acquired: 7-MAY-05
WHO TEQ: NA

Compound	Amount Spiked	Sample Amount	MS Amount	MSD Amount	% RSD	Qual
2,3,7,8-TCDD	200	-	146	157	8.22	
1,2,3,7,8-PeCDD	1000	-	850	881	4.31	
1,2,3,4,7,8-HxCDD	1000	-	907	949	5.24	
1,2,3,6,7,8-HxCDD	1000	-	849	1010	18.0	
1,2,3,7,8,9-HxCDD	1000	-	935	1040	11.6	
1,2,3,4,6,7,8-HpCDD	1000	-	906	968	7.29	
OCDD	2000	-	1780	1860	5.13	
2,3,7,8-TCDF	200	-	194	196	1.59	
1,2,3,7,8-PeCDF	1000	-	960	1110	15.6	
2,3,4,7,8-PeCDF	1000	-	977	1100	12.9	
1,2,3,4,7,8-HxCDF	1000	-	902	1040	15.1	
1,2,3,6,7,8-HxCDF	1000	-	955	1060	11.4	
2,3,4,6,7,8-HxCDF	1000	-	1000	1010	1.75	
1,2,3,7,8,9-HxCDF	1000	-	947	1030	9.11	
1,2,3,4,6,7,8-HpCDF	1000	-	953	1040	9.65	
1,2,3,4,7,8,9-HpCDF	1000	-	952	1110	16.4	
OCDF	2000	-	1790	2070	15.5	
Internal Standards						
		% Rec	% Rec	% Rec	QC Limits	
13C-2,3,7,8-TCDD	2000	63.3	42.2	41.0	25.0 - 150	
13C-1,2,3,7,8-PeCDD	2000	60.2	40.4	40.1	25.0 - 150	
13C-1,2,3,4,7,8-HxCDD	2000	52.1	41.8	40.9	25.0 - 150	
13C-1,2,3,6,7,8-HxCDD	2000	62.6	50.0	45.3	25.0 - 150	
13C-1,2,3,4,6,7,8-HpCDD	2000	61.2	46.1	44.3	25.0 - 150	
13C-OCDD	4000	62.6	46.1	45.9	25.0 - 150	
13C-2,3,7,8-TCDF	2000	63.7	41.9	42.6	25.0 - 150	
13C-1,2,3,7,8-PeCDF	2000	73.1	48.1	43.7	25.0 - 150	
13C-2,3,4,7,8-PeCDF	2000	75.8	48.6	45.0	25.0 - 150	
13C-1,2,3,4,7,8-HxCDF	2000	48.3	40.1	37.6	25.0 - 150	
13C-1,2,3,6,7,8-HxCDF	2000	55.7	44.2	42.1	25.0 - 150	
13C-2,3,4,6,7,8-HxCDF	2000	60.6	44.6	45.6	25.0 - 150	
13C-1,2,3,7,8,9-HxCDF	2000	55.5	43.8	43.6	25.0 - 150	
13C-1,2,3,4,6,7,8-HpCDF	2000	59.7	47.7	45.5	25.0 - 150	
13C-1,2,3,4,7,8,9-HpCDF	2000	59.8	46.0	44.8	25.0 - 150	
13C-OCDF	4000	55.6	45.2	44.7	25.0 - 150	
Cleanup Surrogate						
37Cl-2,3,7,8-TCDD	800	99.7	98.2	89.0	25.0 - 150	

Analyst: [Signature]

Date: 5/20/05

Reviewed by: [Signature]

Date: 5/20/05

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3269
C

18835

Chain-of Custody Record			ANALYSES													REMARKS							
Project No: 9329 Task 6																Date: 5/6/05 Page 1 of 1							
Samplers (Signature): <i>Matt Hilliard</i>																Additional Comments							
Date	Time	Sample Number	EPA Method 8021 (Full Scan)	EPA Method 8021 (Hal. VOCs only)	EPA Method 8021 (BTEX only)	EPA Method 8260	EPA Method 8270 (Full Scan)	EPA Method 8270 SIM (PAHs only)	Method 8015m (Gasoline)	Method 8015m (Diesel)	Method 8015m (Motor Oil)	Silica Gel Cleanup						Soil (S), Water (W) Vapor (V), or Other (o)	Filtered	Preserved	Cooled	No. of Containers	
5/5/05	1145	SL2-A																W			X	1	Composite + report
↓	1430	SL2-B																W				1	as SL-2
↓	1055	SL4-A																W				1	Composite + report
↓	1355	SL4-B																W			↓	1	as SL-4
Laboratory: Frontier			Turnaround Time: STD			Results to: Ross Steenson			Total No. of Containers 4				Tracking # 7905 0731 8624										
Relinquished by (Signature): <i>Matt Hilliard</i>		Date: 5/4/05	Relinquished by (Signature):		Date:	Relinquished by (Signature):		Date:	Method of Shipment: FedEx														
Printed Name: Matt Hilliard		Time: 3:00	Printed Name:		Time:	Printed Name:		Time:	Laboratory Comments and Log No.:														
Company: Geomatrix			Company:			Company:																	
Received by: <i>Nial Maloney</i>		Date: 5/6/05	Received by:		Date:	Received by:		Date:															
Printed Name: NIAL MALONEY		Time: 10:00	Printed Name:		Time:	Printed Name:		Time:															
Company: FAL			Company:			Company:																	

5/10/05
 10:00 AM
 510-663-4100



3269

2004-2005 STORM WATER SEASON SAMPLING INFORMATION

Arcata Sawmill (Geomatrix Project No. 9329)

Arcata, CA

Laboratory Information:

Frontier Analytical
5172 Hillsdale Circle
El Dorado Hills, CA 95762
916-934-0900
Contact: Brad Silverbush or Dan Vickers

Project Consultant Information:

Project Manager:
Ross Steenson
Geomatrix Consultants
2101 Webster Street 12th Floor
Oakland, CA 94612
510-663-4100
rsteenson@geomatrix.com.

Field Manager:
Matt Hillyard
Geomatrix Consultants
525 2nd Street, Suite 203
Eureka, CA 95501
707-444-7800
mhillyard@geomatrix.com

Reporting Information:

Please send the laboratory analytical report and a copy of the invoice to Ross Steenson at Geomatrix.

Billing Information:

Please directly bill Sierra Pacific Industries.

Special Procedures:

Although EPA Method 1613 calls for analysis of solids if a sample contains greater than 1% solids, only the liquid should be analyzed for these storm water samples. Report should be appropriately footnoted. Contact Ross Steenson of Geomatrix if you have any questions.

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **3269**

Client:	Geomatrix Consultants, Inc.
Client Project ID:	9329 Task 6
Date Received:	05/10/2005
Time Received:	10:10 am
Received By:	NM
Logged In By:	DS
# of Samples Received:	2
Duplicates:	2
Storage Location:	R1

Method of Delivery:	Fed-Ex
Tracking Number:	790507318624
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	05/05/2006
Adequate Sample Volume	Yes
Anomalies or additional comments:	

