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28 February 1995
11-09378-03

Spieker Properties
915 118th Avenue S.E.
Suite 110
Bellevue, WA 98005-3855


Attention: Mr. Don Jefferson

Subject: Cover Letter
Project Executive Summary Report
Bellefield Office Park
11201 SE 8th Street
Bellevue, WA 98005

Dear Mr. Jefferson:

AGRA Earth & Environmental Inc. (AEE) is pleased to present this re-issued and re-addressed Executive Summary Report to Spieker Properties. The report originally prepared for Great Western Bank, A Federal Savings Bank, also include a PCB technical memorandum report that was generated after the original report production. This report may be utilized by Spieker Properties and their agents in accordance with our Schedule of Charges and General Conditions, a copy of which is attached.

Respectfully submitted,
AGRA Earth & Environmental Inc.



Daryl S. Petrarca REA
Associate





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Attention: Mr. Don Jefferson

Subject: Project Executive Summary Report
Bellefield Office Park
11201 SE 8th Street
Bellevue, WA 98005

Dear Mr. Jefferson:

AGRA Earth & Environmental Inc. (AGRA) is pleased to present this Executive Summary of results of additional characterization work performed upon the above referenced site pursuant to our 26 September 1994 Proposal to Great Western Bank, a Federal Savings Bank. The results of each characterization task are briefly summarized in findings paragraphs that follows each task description beginning at page 5 in this document.

BACKGROUND

AGRA performed a Phase I Environmental Site Assessment (Phase I) of the subject property in January-March 1994 for Great Western Bank. Results of this Phase I indicated that:

- The subject property had been utilized as a residential construction and demolition debris landfill, (reportedly residential housing materials) during the 1970's. Available documentation indicated that fill was primarily obtained from demolition of residential housing along a portion of the Interstate-405 corridor during its construction. It was also our understanding, based upon available documentation, that some degree of fill control was used by the landfill owners to select primarily buoyant materials (such as wood) to create the "floating" building pad that would later support the roadways and parking lots on the property. Structures on the property are piling supported;

- Based upon its reported history as a landfill the subject property was evaluated by the Environmental Protection Agency (EPA), and a Preliminary Site Assessment (PSA) was performed by the EPA in 1986. This PSA was performed in accordance with the requirements of the Federal Government's Comprehensive Environmental Response, Reconciliation, and Liability Act (CERCLA). As a result of that 1986 PSA the subject property was designated by the EPA as a No Further Action Site;
- Similarly, the Washington State Department of Ecology, the lead environmental regulatory agency in Washington State, in 1989 reviewed existing historical documentation pertaining to the site and the EPA's previous work, and de-listed the site from the State's published list of Known or Suspected Hazardous Waste Sites;
- Based upon the results of AGRA's site visit (observed apparent healthy flora and fauna) and review of available historical information pertaining to the site; and the results of favorable previous federal and state environmental regulatory agency investigations, AGRA concluded that further assessment of the subject site was unwarranted.

Since the release of AGRA's 1994 Phase I report, the head maintenance employee on the subject property revealed his concerns about the nature of fill materials that may have been used at the site. This employee has indicated, that during periodic (1978-1993) site maintenance and/or new roadway or parking lot construction activities, he observed suspect subsurface materials on several portions of the site. Great Western Bank provided AGRA copies of documentation (photographs and annotated site plan of suspect materials locations) (Figure 1 Site & Exploration Plan) compiled by the employee.

AGRA was requested by Great Western Bank to propose a workscope to further assess conditions on the Bellefield Office Park in view of this new information. AGRA reviewed this recently acquired documentation, interviewed the subject property employee concerning his observations and suggested a program of increasingly focused Tasks to assess environmental conditions relating to the subject site.

Briefly the proposed Tasks for performing additional characterization of the property included:

- TASK 1-** Generation of a Health and Safety Plan for exploration work;

- TASK 2-** Performing grab sampling water/sediment sampling/analysis (Mercer Slough) from area surface water and sediments that based on their hydrologically downgradient location are most likely to demonstrate evidence of contaminant impacts. AGRA assumes that due to the close proximity of landfill materials to shallow groundwater and adjacent surface waters (flowing southward toward Lake Washington) on the subject property, evidence of possible contaminated leachate emanating from the landfill materials would be detected by sampling in these downgradient surface water locations;
- TASK 3-** Upgradient surface water testing;
(Task later modified as described below)
- TASK 4-** Installation of up to twenty-five (25) shallow (2 to 4 feet of depth) hand augered borings, with fourteen of the hand augered borings to be completed as temporary groundwater monitoring wells. Collect and analyze soil and groundwater samples as indicated by Task 2 chemical analysis results. Field screen collected samples and perform laboratory analysis as appropriate;
(Task later modified as described below)
- TASK 5-** Continue subsurface explorations at any identified "potential contaminant source" areas located during previous Tasks. Subsurface explorations may involve combination of backhoe excavations and installation of deeper groundwater monitoring wells;
- TASK 6-** Present findings in formal written report.

MODIFICATIONS IN ORIGINALLY PROPOSED TASK WORKSCOPE

Tasks 2,3,4,6 were modified in scope during the performance of the project as described below:

- Task 2** This task was modified in scope by the submission of samples to the laboratory for four to five day "rush" analyses instead of the proposed ten day turnaround time;

- Task 3 This task was modified in scope by submission of a sample for one day rush analyses instead of proposed ten day turnaround time, and the collection and rush analysis of an additional sediment sample;
- Task 4 This task was modified in scope in that a total of 18 temporary, specially designed steel monitoring well points were driven on site to depths of 8 feet or greater by portable equipment and sampled for groundwater. Originally fourteen hand augered shallow two to four foot deep borings were proposed to be completed as temporary screening wells. Four additional groundwater samples were collected beyond the proposed amount and all submitted soil and groundwater samples collected during this entire task were submitted for five day rush analyses instead of the standard ten day turn around time;
- Task 6 This task was modified in scope in that one letter and two written reports were generated beyond the originally proposed two written reports. Additional correspondence and meetings were performed with third party reviewers and other interested parties that were not included in the original task description;

GENERAL TASK WORKSCOPE DISCUSSION

To assess subsurface environmental conditions on the subject site AGRA suggested a phased approach which involved performing a limited number of increasingly focused assessment Tasks. The findings of each performed task would be reviewed and lead logically into evaluating the need for and degree of effort necessary for performing the next TASK. For example, if the results of TASK 2, described below, indicated no detectable contaminant concentrations in areas immediately adjacent to and hydrologically downgradient (Mercer Slough surface waters and sediments) of possible contaminant containing areas of the property, this level of effort might be deemed sufficient to demonstrate that significant volumes of mobile contaminants are not present on the property. A non-detect finding for chemicals of concern suggests no or insignificant upgradient contaminant sources exist on the upgradient property. Conversely, if trace contaminants are detected in these downgradient testing locations, subsequent upgradient media testing would be warranted to evaluate if possible upgradient sources exist.

The second TASK (TASK 2) would document if any significant releases have occurred in the subject area. Rather than immediately performing subsurface studies on the subject property

in the suspect locations recently noted by the above mentioned employee, AGRA believed it would be prudent to first demonstrate if chemical evidence of past or current releases exists in the most probable nearby sensitive receptor, the Mercer Slough surface waters which surround and underlie the subject property. In that the subject property is essentially a large man-made wooden raft floating in the Slough waters, it is reasonably assumed these waters would immediately receive and therefore exhibit evidence of any serious widespread mobile contamination, if it exists.

DETAILED TASK DESCRIPTIONS AND FINDINGS

TASK 1- Generate Health and Safety Plan as per OSHA and State requirements.

FINDINGS- Health and Safety Plan generated and included in project file.

TASK 2- Collect a total of two (2) surface-water grab samples and one (1) sediment sample, from the adjacent Mercer Slough. These three samples were obtained from: the downgradient southern end (east channel); the downgradient west to east flowing end of the west channel; and one downgradient southern confluence sediment sample (See Figure 1- Site and Exploration Plan for locations). Perform wide spectrum chemical analyses to detect indications of possible contaminants of concern. Due to the universe of possible chemicals that might be present, initial proposed analyses generally screened for typical Priority Pollutant compounds found in industrial/hazardous waste landfill properties. Results of this analytical approach allowed more confident selection of chemical analyses for future characterization tasks on the subject property.

(Task Modification - AGRA was requested to submit all analytical samples for 4-5 day rush analyses instead of the proposed 10 business day turnaround time)

Purpose - To document if (or not) serious widespread contaminant releases have occurred to nearby surface waters and/or sediments. Results of TASK 2 help defined the chemical screening appropriate for TASK 3.

TASK 2 wide-screen chemical analyses -

- 1 Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)
by EPA Method 7000/6010
- 2 Volatile Organics (benzene, chlorinated solvents) by EPA Methods 624/8240**
- 3 Semi-volatile aromatics by EPA Method 625/8270
- 4 Pesticides & PCB's by EPA Method 608/8081
- 5 Total Phenols by EPA Method 420.1/9065
- 6 Total petroleum hydrocarbons by WTPH-DX
- 7 Ph

** - EPA Method 600 series for water samples, EPA Method 8000 series for soil/sediment samples.

FINDINGS- (See attached Documents 1,2 for analytical results, locations and detailed results interpretation. Referenced Documents are listed below and are included in Appendix B of this report)

Initial(October 12 1994) downgradient Mercer Slough surface water samples did not exhibit evidence of contamination. Downgradient sediment samples did exhibit elevated apparent petroleum hydrocarbon concentrations typically associated with runoff from parking lots and highways. Slightly elevated concentrations of several semi-volatile organic compounds, mostly polycyclic aromatic hydrocarbons (PAHs) and the pesticides dieldrin and heptachlor were also observed in this sediment sample.(see Task 3 Findings)

TASK 3 - If downgradient surface water/sediment samples indicate the presence of contaminants, collect an upgradient surface water/sediment sample to document the influence of possible upgradient off-site sources.

FINDINGS (See attached Documents 1,2 for analytical results, locations and detailed results interpretation)

Upgradient sediment samples were collected first on 19 October 1994 and then again on 21 October 1994. The first upgradient sediment (clean sand) sample was randomly collected in the Mercer Slough. The

second was selected to more closely resemble the silty grainsize material collected in the downgradient sediment sample and allow a more representative comparison of downgradient and upgradient analytical results.

Briefly, the comparison of analytical results of down and upgradient sampling and analysis indicate that past activities on the Bellefield Office Park have probably not significantly impacted surface water and sediments in the Mercer Slough. Sediment quality data which is similar from both downgradient and upgradient samples in fact suggests that the Mercer Slough and Bellefield Office Park itself may be receptors of long term regional road runoff based on the nature of compounds identified.

TASK 4 -

(Modified from proposal)

Install up to sixteen temporary monitoring well points (> five feet of depth) and nine shallow (two to four feet) soil borings. Since groundwater on-site is shallow and vulnerable to possible contaminant impacts this approach allowed a relatively quick screen of a large physical area. Collect one (1) soil/sediment sample from each boring and one (1) groundwater sample from each temporary monitoring well. These initial temporary monitoring wells were located primarily in and surrounding areas of the property identified as possible areas of concern by the property employee. Remaining boring locations (nine) were selected evenly along the interior and perimeter of the property, near the Slough boundary. Field screening (volatile vapor detector) of each sample was performed and samples were submitted for chemical analyses based upon the results of TASK 2. The results of TASK 4 were used to scope TASK 5 activities.

Purpose- To screen and document near sub-surface conditions over large on-site geographical area. Also to attempt to collect general horizontal location data on possible "contaminant sources" on the property.

FINDINGS (See Documents 2,3,4 and Table 1,2,3 for analytical results, locations, and results interpretation)

General analytical findings indicated a possible source of pesticides and PCBs in the general area of MW-2 and MW-6 based upon borderline

elevated concentrations of these compounds exhibited in groundwater samples obtained from these wells. In addition, apparent elevated petroleum hydrocarbons concentrations were detected in all groundwater and soil samples collected during this Task. Complications arising from possible cross-contamination of sampling equipment and possible false positive interferences during chemical analyses made it difficult to evaluate exhibited petroleum hydrocarbon concentrations from the 23 October 1994 sampling event.

Temporary monitoring wells MW-3,7,6 and 14 were replaced on 3 November 1994 and sampled on 4 November 1994 but were again results were again suspect due to the difficulty in removing cutting oils from the threaded well casings using typical decontamination protocols. On 11,12 November 1994 monitoring well points MW-2,3,6,7,8,10,11,14 were replaced and additional wells MW-17,18 were installed. Monitoring wells were sampled and tested by WTPH-DX. MW-17,18 were also tested for PCBs and Pesticides by EPA Method 8080. Document 4 contains a detailed discussion of analytical results.

TASK 5-

(Modified from proposal) Continue more aggressive subsurface characterization of subject property in suspect areas (if any) defined by previous TASKS. Characterization activities included installation of three approximately 20 foot deep soil borings locations(see Figure 1 Site and Exploration Plan) suggested by previous analytical data and with the concurrence of the potential purchaser's consultant. Soil samples were collected at two and one half foot intervals in each boring and a total of three soil samples were submitted for analysis for petroleum hydrocarbons by WTPH -DX and PCBs and Pesticides by EPA Method 8080. All fieldwork, sampling, sample transport and analyses were performed in strict accordance with AGRA's and North Creek Analytical's Quality Control/Quality Assurance protocols.

FINDINGS (See Document 4 and boring logs)

Results of this Task indicated that heavy end petroleum hydrocarbons appeared to be the potential contaminant of concern on the subject site. Because of issues raised by the chemical testing laboratory and being discussed in the literature concerning the possible unreliability of total petroleum hydrocarbon results using the WTPH-DX method it was

deemed prudent by all parties concerned to submit additional groundwater and soil samples to a laboratory (Friedman & Bruya Inc. in Seattle, Washington) that specializes and is nationally recognized for petroleum hydrocarbon fingerprinting. Friedman and Bruya did not find a clear indication that naturally occurring biogenic hydrocarbons were present in submitted soil samples as was suspected. Friedman & Bruya indicated that saturated alkanes associated with asphalt, tars, heavily used motor oils comprised the majority (2/3) of compounds identified in submitted soil samples. One groundwater sample did exhibit presence of unweathered diesel fuel, heating oil or motor oil. In Mr Friedman's professional opinion most material present in the representative soil and groundwater samples are consistent with long term input of road runoff accumulating over a long period of time. The source of apparent unweathered appearing diesel/motor oil-like TPH in MW-11 is unknown but might be associated with more recent run-off episodes. Results of Friedman & Bruya's work is included in Document 5.

PREVIOUS PROJECT PHASE REPORTS

At your request, Letters and report summaries were prepared by AGRA after completion of several Task phases. Dalton, Olmstead & Fugelvand provided a useful Data Summary of Tasks 2,3,4 in their review capacity for the potential purchaser for this property. Copies of these documents are included as Attachment B and should be referred to for detailed information as directed in the Findings section of each Task in this Executive Summary report. The documents in Appendix B include:

- Document 1. Facsimile (undated) to Mr. Matt Dalton of Dalton, Olmstead & Fugelvand, Inc. titled, " Sampling Analytical Results, Downgradient/Upgradient Surface Water/Sediments, Bellefield Office Park Area, Bellevue Washington ";
- Document 2. Memorandum to Mr Daryl Petrarca from Matt Dalton, dated 3 November 1994, titled Bellefield office Park, Bellevue , Washington;
- Document 3. Letter report to Mr. Steve Mitchell with Great Western Bank, dated 7 November 1994, titled " Recommendations, Bellefield Office Park Project, Bellevue, Washington ";

Document 4. Letter report to Mr Steve Mitchell dated 22 November 1994, titled " Analytical Results, Comments, Bellefield Office Park, 11201 SE 8th Street, Bellevue, WA 98005 ";

Document 5. Letter report (previously unsubmitted) to Mr. Steve Mitchell, dated December 12, 1994, titled " Petroleum Hydrocarbon Identification Results, Bellefield Office Park, 11201 SE 8th Street, Bellevue, WA 98005 ".

Appendix A includes the Figure 1-Site and Exploration Plan, boring logs, methodology summaries, and summarized analytical results in Tables 1,2,3,4.

DISCUSSION/RECOMMENDATIONS

In an attempt to add possible regulatory agency perspective on these issues we offer the following brief discussion:

Of concern to environmental regulators, for a property of this historical use type (landfill), is the possibility that undocumented mobile hazardous materials are present and creating potential or proven threats to human health and the environment, both on and off-site. Environmental regulatory agency personnel are concerned about significant (above state clean-up levels and large volumes) contaminant concentrations releasing and migrating (via -surface water-leachate-groundwater or through other media and routes), into the environment. If such evidence is not found it is less likely that regulators would aggressively pursue mandatory clean-up on a property of this type, but given the findings to date may require monitoring to demonstrate that future impacts will not occur.

With previously acquired subject site characterization data, and the additional hydrocarbon identification data provided by Friedman & Bruya it is AGRA's opinion that:

- A variety of mobile hazardous/toxic compounds in significant concentrations are not being observed within the subject site soils and groundwater indicating that the property was not used as a hazardous waste landfill, which supports the EPA's and Ecology's previous decisions to give the property a "No Further Action Status";
- Hydrocarbons exhibited in analyses of soil and groundwater during earlier characterization of portions of the site are a typically immobile heterogeneous,

mixture of petroleum hydrocarbons from a variety of possible, and probably continuing, on and off-site sources. According to AGRA and Friedman & Bruya, most of the possible sources include buried asphaltic and tar debris, roadway and parking lot surface water runoff containing motor vehicle combustion residues and leakage residues and unknowns;

- Based upon results of Friedman & Bruya's fingerprint analyses of hydrocarbons in soil and groundwater samples from Bellefield Office Park, it is AGRA's and Friedman & Bruya's professional opinion that PCBs tentatively identified in earlier sampling events are probably instead weathered, oxidized and/or sulfate-containing petroleum hydrocarbon compounds. Andrew Friedman stated that he observed these weathered oxidized compounds and not PCBs in groundwater sample MW-10 obtained from a well which had in earlier analyses exhibited an apparent elevated PCB concentration of .41 parts per billion. Mr. Friedman verbally stated that oxidized petroleum hydrocarbon compounds are often misinterpreted as PCBs or other compounds by analytical labs. Mr. Friedman also stated that Pesticide identifications obtained from samples containing weathered, oxidized petroleum hydrocarbons are also subject to this same misinterpretation.
- Elevated TPH levels which were observed (which are regulated in this state on the basis of negative aesthetic values (i.e. odor)), appear to be relatively immobile. These buried materials appear to be currently non-accessible by most users of the Bellefield Office Park with the exception of possible future roadway maintenance or utilities installation workers who might have cause to excavate portions of the property;
- Based on limited downgradient surface water sampling and analysis, there is no data to suggest significant volumes of contaminated leachate are entering adjacent surface waters. No data obtained during the investigation suggests local downgradient environmental impairment originating from the subject site;
- Continued on-site micro-characterization of the property may be unreasonable given the heterogeneity of buried debris materials, the variability over short time periods of analytical results from even the same sample location and media; and likely complex localized groundwater flow parameters that would make on-site possible source identification technically difficult and unreasonably expensive;

It is AGRA's opinion that it would be prudent first to approach Ecology informally with the information acquired to date concerning the Bellefield Office Park status and determine what they would likely require to supply an updated "No Further Action Letter". It is possible based upon the fact that both the EPA and Ecology have in the past considered this site a low priority, and have supplied No Further Action Status to the site; and that the major source of petroleum hydrocarbons on the site appears to be continuous, and at this time uncontrollable (road-runoff), that the existing No Further Action Status may simply be updated. If Ecology will not simply update the No Further Action Letter, it is AGRA's opinion that society's purposes and the environment's health are better served by demonstrating through downgradient monitoring that significant negative environmental off-site impacts associated with the Bellefield Office Park are not occurring. Based upon the hydrogeology of this site downgradient monitoring could be efficiently and economically performed by simply sampling regulatory agency agreed upon points of compliance in adjacent Mercer Slough surface waters. Due to the current configuration of existing roadways and surface drainage patterns it would be impossible to remove the probable continuing source of contaminant constituents accumulating at this site. Ecology may also require that a formal Independent Remediation Action Plan (IRAP) be presented for their review prior to issuing a new No Further Action letter. It is possible that restrictive covenants and downgradient monitoring would be required as described above, as part of the IRAP.

This report has been prepared for the exclusive use of Great Western Bank, for specific application to the referenced scope of services and in accordance with our general contract with Great Western Bank. No other warranty, express or implied is made. In the event that there are changes in usage at the site or nearby properties or new additional information is acquired concerning the property the conclusions and recommendations contained in this report should be verified by our office.

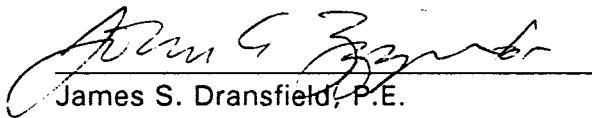
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We appreciate the opportunity to be of service. Should you have any questions, please do not hesitate to call (206-820-4669).

Respectfully submitted,
AGRA Earth & Environmental Inc.



Daryl S. Petrarca R.E.A.
Associate



James S. Dransfield, P.E.
Senior Associate

DSP/JSD/lad

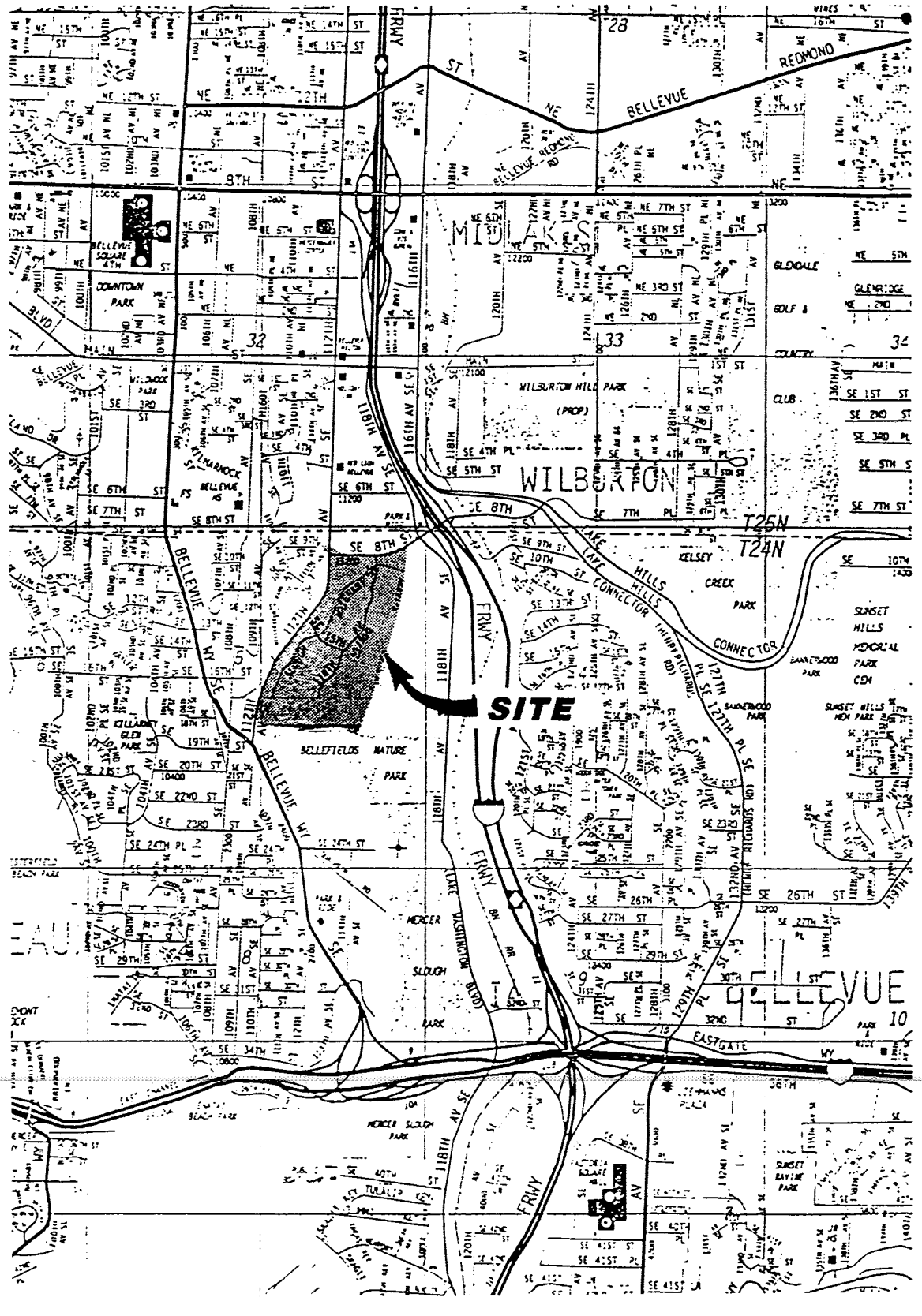


FIGURE 1

AGRA
 Earth & Environmental

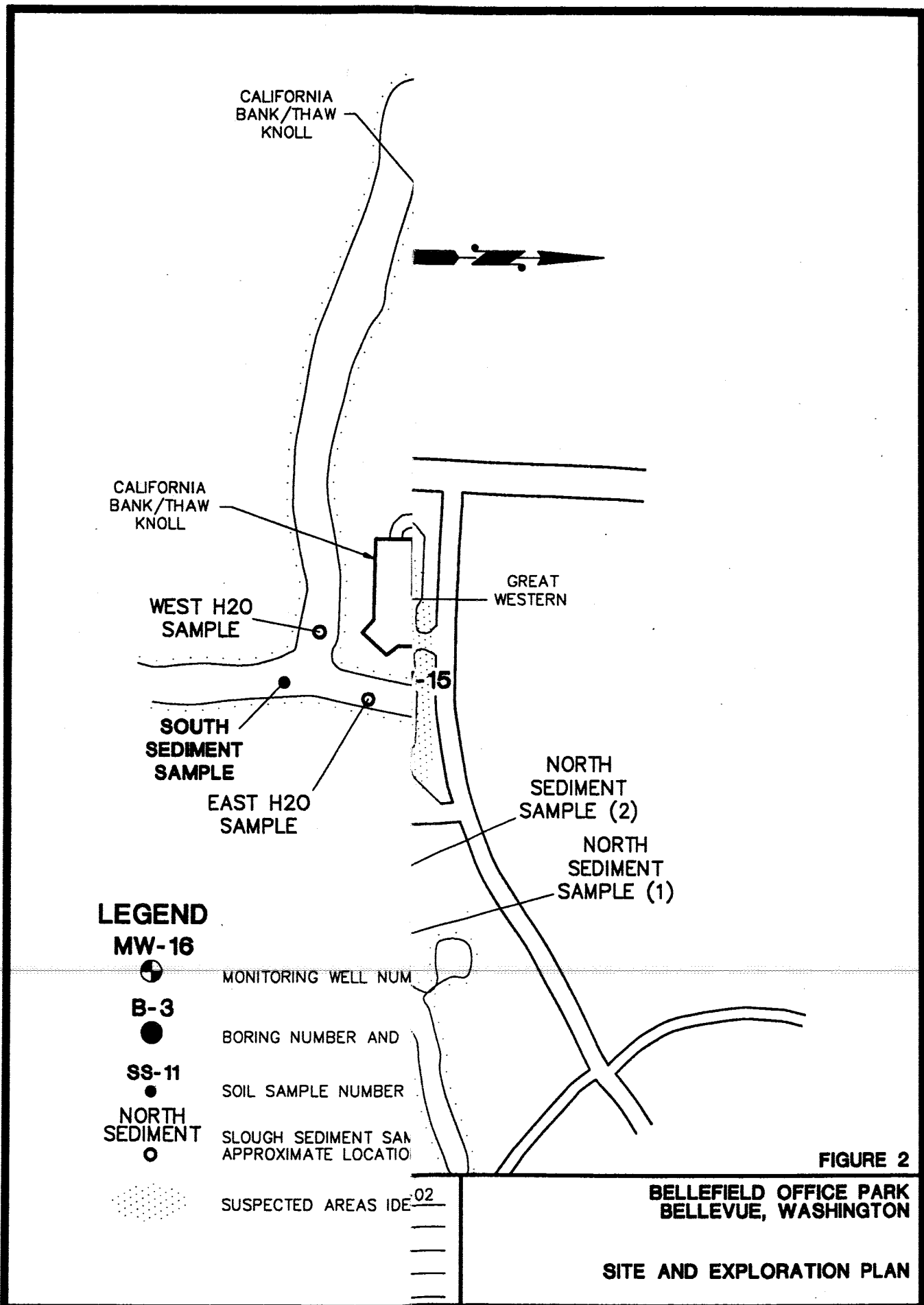
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W.O.	11-09378-03
DESIGN	PCS
DRAWN	JMR
DATE	FEB 1995
SCALE	N.T.S.






**BELLEFIELD OFFICE PARK
 BELLEVUE, WASHINGTON**

LOCATION MAP

APPENDIX A
FIGURE-1 SITE AND EXPLORATION PLAN/ TABLES 1,2,3,4/ SUBSURFACE
EXPLORATION PROCEDURES/BORING LOGS



LEGEND

- MW-16**
 MONITORING WELL NUM
- B-3**
 BORING NUMBER AND
 SOIL SAMPLE NUMBER
- SS-11**
 SOIL SAMPLE NUMBER
- NORTH SEDIMENT**
 SLOUGH SEDIMENT SAM
 APPROXIMATE LOCATIO

 SUSPECTED AREAS IDE 02

FIGURE 2

**BELLEFIELD OFFICE PARK
 BELLEVUE, WASHINGTON**

SITE AND EXPLORATION PLAN

Well Number:	WTPH-D EXTENDED (PPM)		POLYNUCLEAR AROMATIC HYDROCARBONS (8310) (PPB)				PESTICIDES/			PCB'S (8080) (PPB)		
	Diesel	Heavy oil	Benzo(ghi)pyrene	Benzo(k)fluoranthene	Fluoranthene	Pyrene	4,4'-DDD	4,4'-DDE	4,4'-DDT	PCB-1242	PCB-1254	PCB-1260
MW-1	0.34	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	4	16	2.1	0.98	7.7	9.3	0.34	0.043	0.12	1.5	1.7	0.42
MW-3	1.1	1.7	N.D.	N.D.	1.8	1.8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-4	0.37	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-5	0.27	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-6	2.1	4.8	N.D.	N.D.	N.D.	N.D.	0.042	N.D.	N.D.	N.D.	0.16	N.D.
MW-7	1.7	4.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-8	0.89	0.75	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-9	0.76	0.77	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-10	2.3	5.9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-11	0.63	0.96	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-12	0.53	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-13	0.74	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-14	0.94	1.3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-15	0.61	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-16	0.44	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Rinse Blank	4.1	8.8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MTCA Method												
A cleanup level	1	1	NA	0.1	NA	NA	NA	NA	NA	TOTAL PCBs:	0.1	
B cleanup level	NA	NA					0.365	0.257	0.257			
Soil Sample #												
SS-1/WP-12	40	300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-2/WP-14	46	290	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-3/WP-6	60	340	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-4/WP-10	130	490	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-5/WP-15	730	240	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-6	95	710	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-7	110	920	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-8	78	390	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-9	97	590	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MTCA Method												
A Cleanup level	200	200	NA	.1 (PPB)	NA		NA	NA	NA	TOTAL PCBs:	.1 (PPB)	
B Cleanup Level							4.17	2.94	2.94			

TABLE 1: SUMMARY OF INITIAL ANALYTICAL RESULTS, BELLEFIELD OFFICE PARK

SAMPLED 23 OCTOBER 1994

Well Number:	WTPH-D Extended (ppm)		POLYNUCLEAR AROMATIC HYDROCARBONS(8310) (ppb)				Pesticides/PCB's(8080) (PPB)	
	Diesel	Heavy oil						
MW-1	NT	NT			NT		NT	NT
MW-2	NT	NT			NT		NT	NT
MW-3 *	0.79	0.95			NT		NT	NT
MW-4	NT	NT			NT		NT	NT
MW-5	NT	NT			NT		NT	NT
MW-6 *	0.81	1.3			NT		NT	NT
MW-7 *	0.4	ND			NT		NT	NT
MW-8	NT	NT			NT		NT	NT
MW-9	NT	NT			NT		NT	NT
MW-10	NT	NT			NT		NT	NT
MW-11	NT	NT			NT		NT	NT
MW-12	NT	NT			NT		NT	NT
MW-13	NT	NT			NT		NT	NT
MW-14 *	0.4	ND			NT		NT	NT
MW-15	NT	NT			NT		NT	NT
MW-16	NT	NT			NT		NT	NT
Rinse Blank	ND	0.84			NT		NT	NT
MTCA Method								
A cleanup level	1	1			#		#	TOTAL PCB'S: 0.1
B cleanup level								
* Wells replaced and resampled								
# Method A Cleanup Levels determined by individual compounds								

TABLE 2: SUMMARY OF ANALYTICAL RESULTS, BELLEFIELD OFFICE PARK. RESAMPLED 4 NOVEMBER, 1994

Well Number:	WTPH-D Extended (ppm)		VOC'S(8021)	PAH'S(8310) (ppb)	Pesticides	PCB's(8080)(PPB)		
	Diesel	Heavy oil				1242	1254	1260
MW-1	NT	NT	NT	NT	NT	NT	NT	NT
MW-2 *	0.5	3.8	NT	NT	NT	NT	NT	NT
MW-3 *	0.89	4.6	NT	NT	NT	NT	NT	NT
MW-4	NT	NT	NT	NT	NT	NT	NT	NT
MW-5	NT	NT	NT	NT	NT	NT	NT	NT
MW-6 *	1.1	1.8	NT	NT	NT	NT	NT	NT
MW-7 *	1.8	13	NT	NT	NT	NT	NT	NT
MW-8 *	0.85	2.5	NT	NT	NT	NT	NT	NT
MW-9	NT	NT	NT	NT	NT	NT	NT	NT
MW-10 *	1.3	2.3	NT	NT	ND	ND	0.41	ND
MW-11 *	5.3	41	NT	NT	ND	ND	ND	ND
MW-12	NT	NT	NT	NT	NT	NT	NT	NT
MW-13	NT	NT	NT	NT	NT	NT	NT	NT
MW-14 *	0.29	1.4	NT	NT	NT	NT	NT	NT
MW-15	NT	NT	NT	NT	NT	NT	NT	NT
MW-16	NT	NT	NT	NT	NT	NT	NT	NT
MW-17	0.67	3.4	NT	NT	ND	ND	ND	ND
MW-18	0.79	3.6	NT	NT	ND	ND	ND	ND
Rinse Blank	ND	ND	NT	NT	NT	NT	NT	NT
MTCA Method:								
A cleanup level(WATER)	1	1	#	#		TOTAL PCB'S: .1		
B cleanup level(WATER)								
BORING#/SAMPLE/DEPTH							PCB'S (8081)	ppb
B-1/S-3/7.5 FEET	1400	9900	ND	NT	NT	61	200	74
B-1/S-6/15 FEET	120	1500	ND	NT	NT	ND	ND	ND
B-1/S-7/17.5 FEET	210	2700	ND	NT	NT	ND	ND	ND
B-2/S-1/2.5 FEET	190	1800	ND	NT	NT	ND	ND	ND
B-2/S-4/10 FEET	130	1600	ND	NT	NT	ND	ND	ND
B-2/S-8/20 FEET	530	2300	ND	NT	NT	64	190	56
B-3/S-1/2.5 FEET	45	440	ND	NT	NT	ND	110	ND
B-3/S-3/7.5 FEET	1200	5200	ND	NT	NT	ND	ND	ND
B-3/S-7/17.5 FEET	1000	5000	ND	NT	NT	190	420	140
MTCA Method a								
A Cleanup Level(SOIL)	200	200	#	#		TOTAL PCB'S: 1000		
MW 10 (WATER)								
MW-11 (WATER)	Results of petroleum hydrocarbon fingerprinting characterization by capillary gas chromatography using both flame ionizing detector(FID)							
MW-2 (WATER)	and electron capture detector(ECD). Gas chromatograph/mass spectrometer and thin layer chromatography showed no clear indications of naturally							
SS-10(SOIL)	occurring, biogenic hydrocarbons. The materials present in these samples are consistent with typical accumulations of road run-off compounds.							
SS-11(SOIL)								
# CLEANUP LEVELS DETERMINED BY INDIVIDUAL COMPOUND								
* WELLS REPLACED AND RESAMPLED NOVEMBER 11, 14, 15, 1994								
NOTE: pesticides/PCB's by EPA 8080 looks at a total of 26 compounds, only those compounds showing detectable limits are shown.								

TABLE 3: SUMMARY OF ANALYTICAL RESULTS, BELLEFIELD OFFICE PARK SAMPLED NOVEMBER 11, 14, 15, and 30,1994

TABLE 1 - Results of Mercer Slough Bottom Sediment and Surface Water Analyses

Bellefield Office Park
Bellevue, Washington

Description	Sediment Samples (mg/kg)			Surface Water Samples (mg/l)	
	Upgradient(1) clean sand	Upgradient(2) silt, clays, organics	Downgradient(3)	West Water	East Water
pH	--	--	6.8	7.2	7.2
WTPH-DX					
Diesel	18	480	2400	<0.25	<0.25
Heavy Oil	110	2900	2300	<0.75	<0.75
Volatiles (8240)	--	--	nd	nd	nd
Semivolatiles (8270)					
Benzoic Acid	<0.5	--	1.9	<0.01	<0.01
Benzo(a)anthracene	0.11	--	<0.1	<0.005	<0.005
Benzo(b)fluoranthene	0.21	--	<0.1	<0.005	<0.005
Benzo(ghi)perylene	0.1	--	<0.1	<0.005	<0.005
Benzo(a)pyrene	0.14	--	1.8	<0.005	<0.005
Chrysene	0.18	--	<0.1	<0.005	<0.005
Fluoranthene	0.29	--	<0.1	<0.005	<0.005
Phenanthrene	0.16	--	<0.1	<0.005	<0.005
Pyrene	0.29	--	<0.1	<0.005	<0.005
Others	nd	--	nd	nd	nd
Pesticides/PCBs (8081)					
Dieldrin	<0.002	--	0.0037	<0.00007	<0.00007
Heptachlor	<0.001	--	0.0062	<0.00004	<0.00004
Chlordane (technical)	0.0046	--	<0.001	<0.00015	<0.00015
Others	nd	--	nd	nd	nd
Phenols (420.1)	--	--	<0.5	<0.025	<0.025
Metals (6010/7000)					
Chromium	--	--	38	<0.01	<0.01
Copper	--	--	18	<0.02	<0.02
Zinc	--	--	37	<0.01	<0.01

Notes:

- (1) - North H2O (soil) - on laboratory sheets
- (2) - sed-upstream - on laboratory sheets
- (3) - South Soil on laboratory sheets

NOTE: TABLE 1 FROM A DALTON, OLMSTED FUGLEVARD, INC. REPORT
DATED 04 NOVEMBER 1994.

TABLE 4

AGRA
Earth & Environmental
11335 N.E. 122nd Way, Suite 100
Kirkland, WA, U.S.A. 98034-6918

W.O. 11-09378-02
DESIGN RFC
DRAWN JMR
DATE DEC 1994
SCALE NONE

BELLEFIELD OFFICE PARK
BELLEVUE, WASHINGTON

DOF TABLE

APPENDIX A

SUBSURFACE EXPLORATION PROCEDURES AND BORING LOGS

Well Point Installation

Well points were installed at eighteen locations within the subject site as temporary groundwater wells. Each well point consisted of a 30 inch long, 1.25 inch diameter, stainless steel, slotted drive point, attached to 1.25 or 2.0 inch diameter galvanized steel risers. These risers were typically five feet in length and were joined to the drive point using a high strength drive coupling. Small holes were drilled along the length of the risers to facilitate the even flow of ground water into the well along the entire length driven. These well points were advanced using a Portable Penetrating Barrel Sampler (PPBS) drive system. The drive system consists of a hydraulically activated, 90 lb. jackhammer driven by a gasoline powered hydraulic pump. The well points are driven into the ground to the desired depth or until refusal was encountered. Well point refusal was defined as less than 1 inch of penetration per 1 minute of driving. If refusal was encountered at a depth of less than five feet, the location of the well point was shifted and redriven. Conversely, if refusal was encountered at a depth greater than five feet, the well points were left in place.

All well points and casings were decontaminated prior to insertion by scrubbing with a stiff brush with a solution of phosphate-free detergent and warm water, and then rinsed with potable water, methanol or acetone, and finally deionized water.

Temporary Groundwater Well Development

Upon completion of the well point installation, each well was developed by removing five to seven well casing volumes using a 1 inch diameter reusable stainless steel bailer. Monitoring well development helps to provide good hydraulic conductivity within the surrounding formation. Prior to each sampling event, the wells were again purged of three to five well volumes to obtain samples representative of the surrounding formation.

Groundwater Sampling Procedures

Following installation and development, the temporary wells were purged of approximately three to five well volumes of water, and allowed to equilibrate. Groundwater samples were then collected. Samples were immediately placed in a chilled cooler for storage until they could be transported to the analytical laboratory under AGRA chain of custody procedures. All field operations were performed by an AGRA Geologist.

Soil Borings

This phase of exploration consisted of advancing three borings to depths of twenty feet below ground surface. The borings were completed on 11 November, 1994 by a local exploration drilling company under subcontract to our firm. Each boring consisted of

advancing a four inch inside diameter hollow stem auger with a truck mounted drill rig. During the drilling process, samples were collected at 2.5 foot intervals. The borings were continuously observed in the field by an experienced geologist from our firm. Prior to each boring, the drilling equipment, and sampling tools were decontaminated using a portable steam cleaner.

APPENDIX A

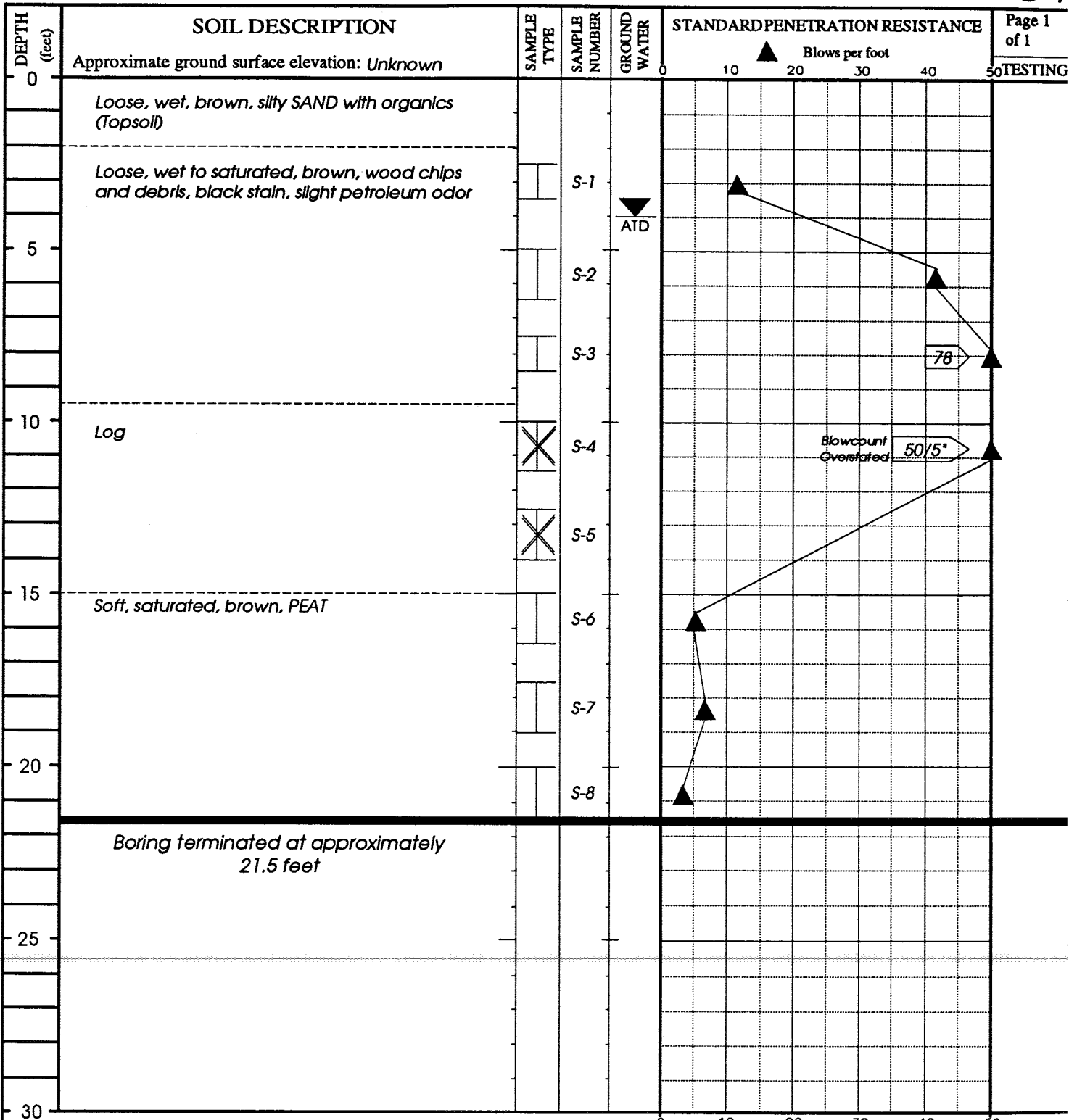
Characterization of Soil

Disturbed soil samples were collected at 2.5 foot intervals by using the Standard Penetration Test Procedure as described in ASTM:D-1586. This test and sampling method consists of driving a standard 2-inch outside diameter split-barrel sampler a distance of 18 inches into the soil with a 140-pound hammer, free falling a distance of 30 inches. The number of blows for each six inch interval is recorded. The number of blows required to drive the sampler the final 12 inches is considered the Standard Penetration Resistance ("N" or blow count). The blow counts are presented in the boring logs on this appendix. If a total of 50 blows is recorded within one 6-inch interval, the blow count is recorded as 50 blows for the actual number of inches of penetration. The blow count value provides a measure of the relative density of granular soils or the relative consistency of cohesive soils.

Each sample was screened for volatile organic compounds (VOC's) using an organic vapor meter (OVM) equipped with a 10.0 eV lamp, Photo Ionizing Detector (PID). This instrument is capable of detecting VOC's with an ionization potential less than that of the lamp (many compounds typically associated with petroleum hydrocarbons fall within this range).

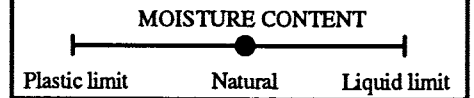
Soil Sampling Procedure

The soil samples were removed at each interval using procedures designed to minimize the risk of cross-contamination. Prior to each boring, the drilling equipment and sampling tools were scrubbed with a stiff brush and a solution of phosphate free detergent and warm water, and then rinsed with potable water and de-ionized water. The samples were classified in the field and immediately transferred to laboratory prepared glass jars, and tightly sealed with a teflon lined, threaded cap. Samples were stored and transported in a chilled chest throughout the field program. Selected soil samples were subsequently transferred to the analytical testing laboratory in accordance with AGRA chain-of-custody procedures.



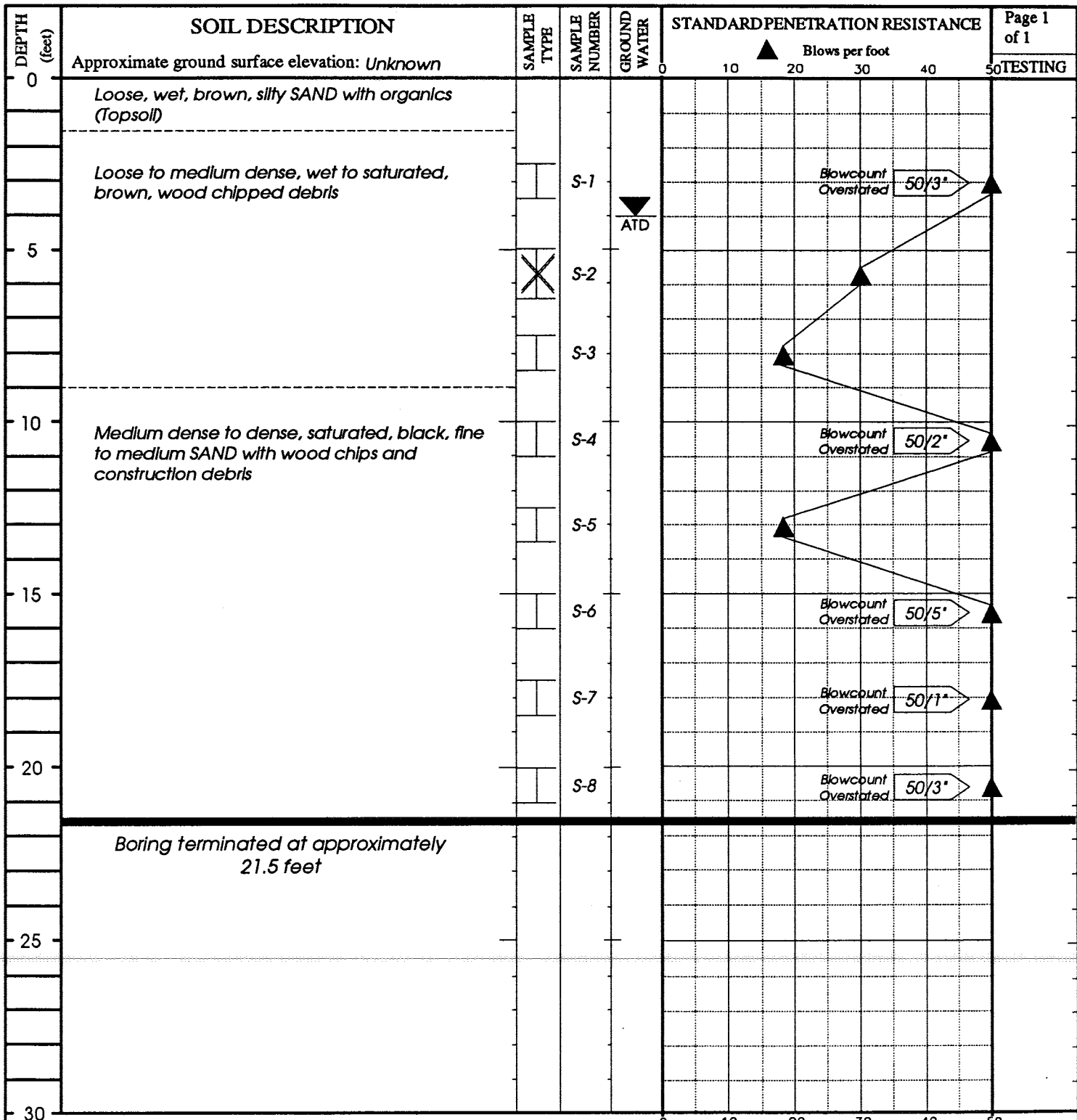
LEGEND

- 2-inch OD split-spoon sample
- Sample not recovered
- Groundwater level at time of drilling



AGRA
Earth & Environmental
 11335 NE 122nd Way, Suite 100
 Kirkland, Washington 98034-6918

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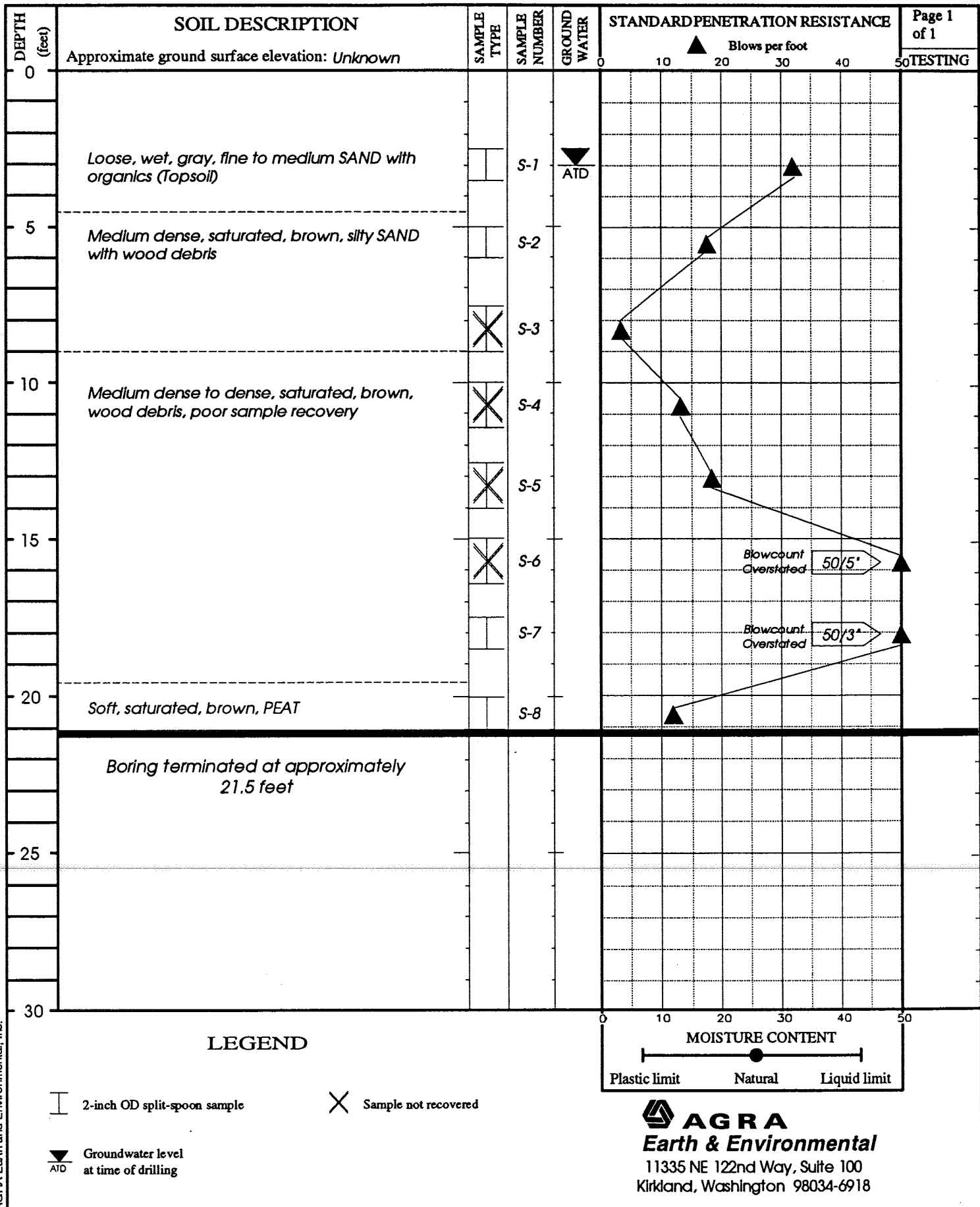
LEGEND

- I 2-inch OD split- spoon sample
- X Sample not recovered
- ▼ Groundwater level at time of drilling



AGRA
Earth & Environmental
 11335 NE 122nd Way, Suite 100
 Kirkland, Washington 98034-6918

AGRA Earth and Environmental, Inc.



AGRA Earth and Environmental, Inc.

Appendix B

APPENDIX B
REFERENCE DOCUMENTS

DOCUMENT 1

AGRA EARTH & ENVIRONMENTAL Inc.
11335 NE 122nd Way
Suite 100
Kirkland, Washington 98034-6918
Telephone (206) 820-4669
Fax No. (206) 821-3914

TRANSMITTAL LETTER -via Fax (206) 486-7651

TO: Mr. Matt Dalton,
Dalton, Olmstead & Fugelvand, Inc.
19017 120th Ave. N.E., Suite 107
Bothell, Washington 98011

FROM: Daryl Petrarca

SUBJECT: Sampling Analytical Results, Downgradient/Upgradient
Surface Water/Sediments
Bellefield Office Park Area
Bellevue, WA

Dear Mr. Dalton:

At the request of Steve Mitchell with Great Western Bank, A Federal Savings Bank, please find enclosed the analytical results obtained from AGRA Earth & Environmental Inc.'s preliminary wide-screen priority pollutant characterization of areas assumed to be adjacent to and immediately hydrologically downgradient and upgradient of the Bellefield Office Park property. The sample results include: two (2) grab surface water and one (1) sediment samples from the 12 October 1994 downgradient sampling event; one (1) upgradient sediment sample obtained 19 October 1994; and one (1) upgradient sediment obtained 21 October 1994. The 21 October 1994 sediment sample was collected in an attempt to more closely approximate the depositional environment and physical characteristics of the 12 October 1994 sediment sample. Grab surface water samples did not exhibit elevated chemical concentrations for any of the contaminants analyzed. Upgradient and downgradient sediment samples exhibited similar order of magnitude heavy end petroleum hydrocarbons often associated with highway and parking lot run-off.

SIGNATURE



DATE:

c.c. Steve Mitchell

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Matrix: Soil First Sample #: 410-0557	Received: Oct 12, 1994 Reported: Oct 18, 1994
---	--	--

TOTAL SOLIDS & MOISTURE CONTENT REPORT

Sample Number	Sample Description	Total Solids %	Moisture Content %
410-0557	SOUTH SOIL	15	85

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis. To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total 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.

NORTH CREEK ANALYTICAL Inc.

for Shannon Stowell
Project Manager



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-9508 (206) 481-9200 • FAX 485-2992
East 11115 Montgomery, Suite B • Spokane, WA 99206-4776 (509) 924-9200 • FAX 924-9290
9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Matrix: Soil Analysis Method: EPA 9045 First Sample #: 410-0557	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Analyzed: Oct 14, 1994 Reported: Oct 18, 1994
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LABORATORY ANALYSIS FOR: pH

Sample Number	Sample Description	Sample Result
410-0557	SOUTH SOIL	6.6

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell

sn Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Matrix: Soil Analysis Method: WTPH-D Extended First Sample #: 410-0557	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Extracted: Oct 14, 1994 Analyzed: Oct 17-18, 1994 Reported: Oct 18, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
410-0557	SOUTH SOIL	2,400	2,300	66
BLK101494	Method Blank	N.D.	N.D.	76

Reporting Limit:	10	25
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2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.
Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).
Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.


Shannon Stowell
Project Manager

for

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great Western Bank
 Sample Matrix: Soil
 Analysis Method: WTPH-D
 Units: mg/kg (ppm)

 Analyst: D. Anderson
 Extracted: Oct 14, 1994
 Analyzed: Oct 17-18, 1994
 Reported: Oct 18, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT
ACCURACY ASSESSMENT
 Laboratory Control Sample

Diesel

Spike Conc. Added:	70
Spike Result:	59
% Recovery:	84
Upper Control Limit %:	116
Lower Control Limit %:	71


PRECISION ASSESSMENT
 Sample Duplicate

Diesel Range Hydrocarbons

Sample Number:	410-0551
Original Result:	N.D.
Duplicate Result:	N.D.
Relative % Difference	Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.
Maximum RPD:	43

NORTH CREEK ANALYTICAL Inc

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Soil, SOUTH SOIL Analysis Method: EPA 8240 Sample Number: 410-0557	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Analyzed: Oct 13, 1994 Reported: Oct 18, 1994
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VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Acetone.....	0.50	N.D.
Benzene.....	0.10	N.D.
Bromodichloromethane.....	0.10	N.D.
Bromoform.....	0.10	N.D.
Bromomethane.....	0.50	N.D.
2-Butanone.....	0.50	N.D.
Carbon disulfide.....	0.50	N.D.
Carbon tetrachloride.....	0.25	N.D.
Chlorobenzene.....	0.10	N.D.
Chloroethane.....	0.50	N.D.
Chloroform.....	0.10	N.D.
Chloromethane.....	0.50	N.D.
Dibromochloromethane.....	0.10	N.D.
1,1-Dichloroethane.....	0.10	N.D.
1,2-Dichloroethane.....	0.10	N.D.
1,1-Dichloroethene.....	0.10	N.D.
cis 1,2-Dichloroethene.....	0.25	N.D.
trans 1,2-Dichloroethene.....	0.10	N.D.
1,2-Dichloropropane.....	0.10	N.D.
cis 1,3-Dichloropropene.....	0.10	N.D.
trans 1,3-Dichloropropene.....	0.10	N.D.
Ethylbenzene.....	0.25	N.D.
2-Hexanone.....	0.50	N.D.
Methylene chloride.....	1.0	N.D.
4-Methyl-2-pentanone.....	0.50	N.D.
Styrene.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.25	N.D.
Tetrachloroethene.....	0.25	N.D.
Toluene.....	0.10	N.D.
1,1,1-Trichloroethane.....	0.25	N.D.
1,1,2-Trichloroethane.....	0.10	N.D.
Trichloroethene.....	0.10	N.D.
Vinyl chloride.....	0.50	N.D.
Total Xylenes.....	0.25	N.D.

The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Surrogate Standards	Percent Recovery:	Control Limits
1,2-Dichloroethane-d4	99	70-121
Toluene-d8	100	81-117
4-Bromofluorobenzene	98	74-121

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Method Blank Analysis Method: EPA 8240 Sample Number: BLK101394	Analyzed: Oct 13, 1994 Reported: Oct 18, 1994
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VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Acetone.....	0.50	N.D.
Benzene.....	0.10	N.D.
Bromodichloromethane.....	0.10	N.D.
Bromoform.....	0.10	N.D.
Bromomethane.....	0.50	N.D.
2-Butanone.....	0.50	N.D.
Carbon disulfide.....	0.50	N.D.
Carbon tetrachloride.....	0.25	N.D.
Chlorobenzene.....	0.10	N.D.
Chloroethane.....	0.50	N.D.
Chloroform.....	0.10	N.D.
Chloromethane.....	0.50	N.D.
Dibromochloromethane.....	0.10	N.D.
1,1-Dichloroethane.....	0.10	N.D.
1,2-Dichloroethane.....	0.10	N.D.
1,1-Dichloroethene.....	0.10	N.D.
cis 1,2-Dichloroethene.....	0.25	N.D.
trans 1,2-Dichloroethene.....	0.10	N.D.
1,2-Dichloropropane.....	0.10	N.D.
cis 1,3-Dichloropropene.....	0.10	N.D.
trans 1,3-Dichloropropene.....	0.10	N.D.
Ethylbenzene.....	0.25	N.D.
2-Hexanone.....	0.50	N.D.
Methylene chloride.....	1.0	N.D.
4-Methyl-2-pentanone.....	0.50	N.D.
Styrene.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.25	N.D.
Tetrachloroethene.....	0.25	N.D.
Toluene.....	0.10	N.D.
1,1,1-Trichloroethane.....	0.25	N.D.
1,1,2-Trichloroethane.....	0.10	N.D.
Trichloroethene.....	0.10	N.D.
Vinyl chloride.....	0.50	N.D.
Total Xylenes.....	0.25	N.D.

The results reported above are on a dry weight basis.
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Surrogate Standards	Percent Recovery:	Control Limits
1,2-Dichloroethane-d4	97	70-121
Toluene-d8	100	81-117
4-Bromofluorobenzene	100	74-121



Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Matrix: Soil Analysis Method: EPA 8240 Units: mg/kg (ppm) QC Sample #: 410-0441	Analyst: K. Wilke Analyzed: Oct 13, 1994 Reported: Oct 18, 1994
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MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	1,1-DCE	Benzene	TCE	Toluene	Chloro-benzene
Sample Result:	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	2.06	2.06	2.06	2.06	2.06
Spike Result:	1.46	1.87	1.88	1.94	2.06
Spike % Recovery:	71%	91%	91%	94%	100%
Spike Dup. Result:	1.47	1.90	1.90	1.95	2.09
Spike Duplicate % Recovery:	71%	92%	92%	95%	101%
Upper Control Limit %:	109	110	110	113	110
Lower Control Limit %:	57	75	64	75	75
Relative % Difference:	1.0%	1.6%	1.1%	1.0%	1.4%
Maximum RPD:	16	12	13	11	12

NORTH CREEK ANALYTICAL Inc.

% Recovery:	$\frac{\text{Spike Results} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Soil, SOUTH SOIL Analysis Method: EPA 8270 Sample Number: 410-0557	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Extracted: Oct 17, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Acenaphthene.....	0.10	N.D.
Acenaphthylene.....	0.10	N.D.
Aniline.....	0.10	N.D.
Anthracene.....	0.10	N.D.
Benzidine.....	0.25	N.D.
Benzoic Acid.....	0.50	1.9
Benz[a]anthracene.....	0.10	N.D.
Benzo[b]fluoranthene.....	0.10	N.D.
Benzo[k]fluoranthene.....	0.10	N.D.
Benzo[g,h,i]perylene.....	0.10	N.D.
Benzo[a]pyrene.....	0.10	1.8
Benzyl alcohol.....	0.10	N.D.
Bis(2-chloroethoxy)methane.....	0.10	N.D.
Bis(2-chloroethyl)ether.....	0.10	N.D.
Bis(2-chloroisopropyl)ether.....	0.10	N.D.
Bis(2-ethylhexyl)phthalate.....	0.50	N.D.
4-Bromophenyl phenyl ether.....	0.10	N.D.
Butyl benzyl phthalate.....	0.10	N.D.
Carbazole.....	0.10	N.D.
4-Chloroaniline.....	0.10	N.D.
2-Chloronaphthalene.....	0.10	N.D.
4-Chloro-3-methylphenol.....	0.10	N.D.
2-Chlorophenol.....	0.10	N.D.
4-Chlorophenyl phenyl ether.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenz[a,h]anthracene.....	0.10	N.D.
Dibenzofuran.....	0.10	N.D.
Di-n-butyl phthalate.....	0.50	N.D.
1,3-Dichlorobenzene.....	0.10	N.D.
1,4-Dichlorobenzene.....	0.10	N.D.
1,2-Dichlorobenzene.....	0.10	N.D.
3,3-Dichlorobenzidine.....	0.50	N.D.
2,4-Dichlorophenol.....	0.10	N.D.
Diethyl phthalate.....	0.10	N.D.
2,4-Dimethylphenol.....	0.10	N.D.
Dimethyl phthalate.....	0.10	N.D.
4,6-Dinitro-2-methylphenol.....	0.50	N.D.
2,4-Dinitrophenol.....	0.50	N.D.

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Soil, SOUTH SOIL Analysis Method: EPA 8270 Sample Number: 410-0557	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Extracted: Oct 17, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
2,4-Dinitrotoluene.....	0.10	N.D.
2,6-Dinitrotoluene.....	0.10	N.D.
Di-n-octyl phthalate.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	0.10	N.D.
Hexachlorobenzene.....	0.10	N.D.
Hexachlorobutadiene.....	0.10	N.D.
Hexachlorocyclopentadiene.....	0.10	N.D.
Hexachloroethane.....	0.10	N.D.
Indeno[1,2,3-cd]pyrene.....	0.10	N.D.
Isophorone.....	0.10	N.D.
2-Methylnaphthalene.....	0.10	N.D.
2-Methylphenol.....	0.10	N.D.
4-Methylphenol.....	0.10	N.D.
Naphthalene.....	0.10	N.D.
2-Nitroaniline.....	0.50	N.D.
3-Nitroaniline.....	0.50	N.D.
4-Nitroaniline.....	0.50	N.D.
Nitrobenzene.....	0.10	N.D.
2-Nitrophenol.....	0.10	N.D.
4-Nitrophenol.....	0.50	N.D.
N-Nitrosodiphenylamine.....	0.10	N.D.
N-Nitrosodi-n-propylamine.....	0.10	N.D.
Pentachlorophenol.....	0.50	N.D.
Phenanthrene.....	0.10	N.D.
Phenol.....	0.10	N.D.
Pyrene.....	0.10	N.D.
1,2,4-Trichlorobenzene.....	0.10	N.D.
2,4,5-Trichlorophenol.....	0.50	N.D.
2,4,6-Trichlorophenol.....	0.10	N.D.

Surrogate Standards Percent Recovery:	Control Limits	Surrogate Standards Percent Recovery:	Control Limits
2-Fluorophenol 85	25-121	Nitrobenzene-d5 90	23-120
Phenol-d6 95	24-113	2-Fluorobiphenyl 78	30-115
2,4,6-Tribromophenol 89	19-122	p-Terphenyl-d14 88	18-137

The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great Western Bank
 Sample Descript: Method Blank
 Analysis Method: EPA 8270
 Sample Number: BLK101794

 Extracted: Oct 17, 1994
 Analyzed: Oct 18, 1994
 Reported: Oct 18, 1994

SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Acenaphthene.....	0.10	N.D.
Acenaphthylene.....	0.10	N.D.
Aniline.....	0.10	N.D.
Anthracene.....	0.10	N.D.
Benzidine.....	0.25	N.D.
Benzoic Acid.....	0.50	N.D.
Benz[a]anthracene.....	0.10	N.D.
Benzo[b]fluoranthene.....	0.10	N.D.
Benzo[k]fluoranthene.....	0.10	N.D.
Benzo[g,h,i]perylene.....	0.10	N.D.
Benzo[a]pyrene.....	0.10	N.D.
Benzyl alcohol.....	0.10	N.D.
Bis(2-chloroethoxy)methane.....	0.10	N.D.
Bis(2-chloroethyl)ether.....	0.10	N.D.
Bis(2-chloroisopropyl)ether.....	0.10	N.D.
Bis(2-ethylhexyl)phthalate.....	0.50	N.D.
4-Bromophenyl phenyl ether.....	0.10	N.D.
Butyl benzyl phthalate.....	0.10	N.D.
Carbazole.....	0.10	N.D.
4-Chloroaniline.....	0.10	N.D.
2-Chloronaphthalene.....	0.10	N.D.
4-Chloro-3-methylphenol.....	0.10	N.D.
2-Chlorophenol.....	0.10	N.D.
4-Chlorophenyl phenyl ether.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenz[a,h]anthracene.....	0.10	N.D.
Dibenzofuran.....	0.10	N.D.
Di-n-butyl phthalate.....	0.50	N.D.
1,3-Dichlorobenzene.....	0.10	N.D.
1,4-Dichlorobenzene.....	0.10	N.D.
1,2-Dichlorobenzene.....	0.10	N.D.
3,3-Dichlorobenzidine.....	0.50	N.D.
2,4-Dichlorophenol.....	0.10	N.D.
Diethyl phthalate.....	0.10	N.D.
2,4-Dimethylphenol.....	0.10	N.D.
Dimethyl phthalate.....	0.10	N.D.
4,6-Dinitro-2-methylphenol.....	0.50	N.D.
2,4-Dinitrophenol.....	0.50	N.D.

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Method Blank Analysis Method: EPA 8270 Sample Number: BLK101794	Extracted: Oct 17, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
2,4-Dinitrotoluene.....	0.10	N.D.
2,6-Dinitrotoluene.....	0.10	N.D.
Di-n-octyl phthalate.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	0.10	N.D.
Hexachlorobenzene.....	0.10	N.D.
Hexachlorobutadiene.....	0.10	N.D.
Hexachlorocyclopentadiene.....	0.10	N.D.
Hexachloroethane.....	0.10	N.D.
Indeno[1,2,3-cd]pyrene.....	0.10	N.D.
Isophorone.....	0.10	N.D.
2-Methylnaphthalene.....	0.10	N.D.
2-Methylphenol.....	0.10	N.D.
4-Methylphenol.....	0.10	N.D.
Naphthalene.....	0.10	N.D.
2-Nitroaniline.....	0.50	N.D.
3-Nitroaniline.....	0.50	N.D.
4-Nitroaniline.....	0.50	N.D.
Nitrobenzene.....	0.10	N.D.
2-Nitrophenol.....	0.10	N.D.
4-Nitrophenol.....	0.50	N.D.
N-Nitrosodiphenylamine.....	0.10	N.D.
N-Nitrosodi-n-propylamine.....	0.10	N.D.
Pentachlorophenol.....	0.50	N.D.
Phenanthrene.....	0.10	N.D.
Phenol.....	0.10	N.D.
Pyrene.....	0.10	N.D.
1,2,4-Trichlorobenzene.....	0.10	N.D.
2,4,5-Trichlorophenol.....	0.50	N.D.
2,4,6-Trichlorophenol.....	0.10	N.D.

Surrogate Standards Percent Recovery:	Control Limits	Surrogate Standards Percent Recovery:	Control Limits
2-Fluorophenol 91	25-121	Nitrobenzene-d5 107	23-120
Phenol-d6 104	24-113	2-Fluorobiphenyl 86	30-115
2,4,6-Tribromophenol 91	19-122	p-Terphenyl-d14 89	18-137

The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell

Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great Western Bank
 Sample Matrix: Soil
 Analysis Method: EPA 8270
 Units : mg/kg (ppm)
 QC Sample #: 410-0732

 Analyst : D. Harmon
 Extracted: Oct 27, 1994
 Analyzed: Oct 28, 1994
 Reported: Oct 28, 1994

MATRIX SPIKE QUALITY CONTROL DATA REPORT

Analyte	Sample Result	Spike Conc. Added	Spike Result	Spike % Recovery	Spike Dup. Result	Spike Duplicate % Recovery	Relative % Difference
Phenol	N.D.	8.2	5.3	65% (36 -137%)	5.8	71% (36 -137%)	9% (60%)
2-Chlorophenol	N.D.	8.2	4.8	59% (39 -114%)	5.5	67% (39 -114%)	14% (59%)
1,4-Dichloro-benzene	N.D.	4.1	2.3	56% (23 -115%)	2.5	61% (23 -115%)	8% (60%)
N-Nitroso-di-n-propylamine	N.D.	4.1	2.4	59% (33 -142%)	2.8	68% (33 -142%)	15% (29%)
1,2,4-Trichloro-benzene	N.D.	4.1	2.4	59% (36 -119%)	2.6	63% (36 -119%)	8% (45%)
4-Chloro-3-methylphenol	N.D.	8.2	5.3	65% (44 -117%)	5.8	71% (44 -117%)	9% (64%)
Acenaphthene	N.D.	4.1	2.4	59% (42 -115%)	2.6	63% (42 -115%)	8% (19%)
4-Nitrophenol	N.D.	8.2	4.9	60% (33 -99%)	5.0	61% (33 -99%)	2% (65%)
2,4-Dinitro-toluene	N.D.	4.1	2.9	71% (20 -124%)	3.0	73% (20 -124%)	3% (27%)
Pentachloro-phenol	N.D.	8.2	5.0	61% (21 -124%)	5.1	62% (21 -124%)	2% (59%)
Pyrene	N.D.	4.1	2.9	71% (46 -142%)	3.1	76% (46 -142%)	7% (14%)

Control Limits in Parentheses

NORTH CREEK ANALYTICAL Inc.

Please Note:

MS/MSD Spike was not added to first QC samples. Sample was re-extracted on October 27 and re-analyzed on October 28, 1994.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Soil, SOUTH SOIL Analysis Method: EPA 8081 Sample Number: 410-0557	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Extracted: Oct 17, 1994 Analyzed: Oct 17, 1994 Reported: Oct 18, 1994
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ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Aldrin.....	1.0	N.D.
alpha-BHC.....	0.50	N.D.
beta-BHC.....	0.90	N.D.
delta-BHC.....	0.60	N.D.
gamma-BHC (Lindane).....	1.0	N.D.
Chlordane.....	1.0	N.D.
4,4'-DDD.....	1.0	N.D.
4,4'-DDE.....	1.0	N.D.
4,4'-DDT.....	3.0	N.D.
Dieldrin.....	2.0	3.7
Endosulfan I.....	0.90	N.D.
Endosulfan II.....	2.0	N.D.
Endosulfan sulfate.....	2.0	N.D.
Endrin.....	2.0	N.D.
Endrin aldehyde.....	3.0	N.D.
Heptachlor.....	1.0	6.2
Heptachlor epoxide.....	0.80	N.D.
Methoxychlor.....	4.0	N.D.
Toxaphene.....	50	N.D.
PCB-1016.....	50	N.D.
PCB-1221.....	50	N.D.
PCB-1232.....	50	N.D.
PCB-1242.....	50	N.D.
PCB-1248.....	50	N.D.
PCB-1254.....	50	N.D.
PCB-1260.....	50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 57
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Shannon Stowell
 Project Manager



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AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

Client Project ID: Great Western Bank
 Sample Descript: Method Blank
 Analysis Method: EPA 8081
 Sample Number: BLK101794

Extracted: Oct 17, 1994
 Analyzed: Oct 17, 1994
 Reported: Oct 18, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Aldrin.....	1.0	N.D.
alpha-BHC.....	0.50	N.D.
beta-BHC.....	0.90	N.D.
delta-BHC.....	0.60	N.D.
gamma-BHC (Lindane).....	1.0	N.D.
Chlordane.....	1.0	N.D.
4,4'-DDD.....	1.0	N.D.
4,4'-DDE.....	1.0	N.D.
4,4'-DDT.....	3.0	N.D.
Dieldrin.....	2.0	N.D.
Endosulfan I.....	0.90	N.D.
Endosulfan II.....	2.0	N.D.
Endosulfan sulfate.....	2.0	N.D.
Endrin.....	2.0	N.D.
Endrin aldehyde.....	3.0	N.D.
Heptachlor.....	1.0	N.D.
Heptachlor epoxide.....	0.80	N.D.
Methoxychlor.....	4.0	N.D.
Toxaphene.....	50	N.D.
PCB-1016.....	50	N.D.
PCB-1221.....	50	N.D.
PCB-1232.....	50	N.D.
PCB-1242.....	50	N.D.
PCB-1248.....	50	N.D.
PCB-1254.....	50	N.D.
PCB-1260.....	50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 89
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great Western Bank
 Sample Matrix: Soil
 Analysis Method: EPA 8080
 Units: $\mu\text{g}/\text{kg}$ (ppb)
 QC Sample #: BLK101794

 Analyst: M. Seibel
 Extracted: Oct 17, 1994
 Analyzed: Oct 17, 1994
 Reported: Oct 18, 1994

BLANK SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Lindane	Heptachlor	Aldrin
Sample Result:	N.D.	N.D.	N.D.
Spike Conc. Added:	8.3	8.3	8.3
Spike Result:	8.3	7.0	7.1
Spike % Recovery:	100%	84%	86%
Spike Dup. Result:	4.2	3.6	3.6
Spike Duplicate % Recovery:	51%	43%	43%
Upper Control Limit %:	158	161	145
Lower Control Limit %:	32	26	45
Relative % Difference:	66%	65.0%	65%
Maximum RPD:	50	50	50

NORTH CREEK ANALYTICAL Inc.

$$\% \text{ Recovery} = \frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$$

$$\text{Relative \% Difference} = \frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$$



 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Matrix: Soil Analysis Method: EPA 8080 Units: $\mu\text{g}/\text{kg}$ (ppb) QC Sample #: 409-1339	Analyst: M. Seibel Extracted: Oct 17, 1994 Analyzed: Oct 17, 1994 Reported: Oct 18, 1994
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MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Aroclor 1260
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Sample Result: N.D.

Spike Conc.
Added: 223

Spike
Result: 228

Spike
% Recovery: 102%

Spike Dup.
Result: 244

Spike
Duplicate
% Recovery: 109%

Upper Control
Limit %: 150

Lower Control
Limit %: 17

Relative
% Difference: 6.8%

Maximum
RPD: 50

NORTH CREEK ANALYTICAL Inc.

% Recovery:	$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

Shannon Stowell

Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: SOUTH SOIL Analysis Method: EPA 6010/7000 Sample Number: 410-0557 Sample Matrix: Soil	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Digested: Oct 13-24, 1994 Analyzed: Oct 17-24, 1994 Reported: Oct 31, 1994
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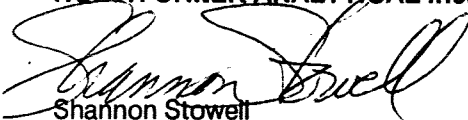
E.P.A. PRIORITY METALS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Antimony.....	15	N.D.
Arsenic.....	30	N.D.
Beryllium.....	0.75	N.D.
Cadmium.....	0.75	N.D.
Chromium.....	1.5	36
Copper.....	3.0	20
Lead.....	15	N.D.
Mercury.....	0.15	N.D.
Nickel.....	3.0	N.D.
Selenium.....	20	N.D.
Silver.....	3.0	N.D.
Thallium.....	20	N.D.
Zinc.....	1.5	56

Analytes reported as N.D. were not detected above the stated Reporting Limit.
 The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

Please Note:
 Report was amended on October 31, 1994.


 Shannon Stowell
 Project Manager


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Method Blank Analysis Method: EPA 6010/7000 Sample Number: BLK101394 Sample Matrix: Soil	Digested: Oct 13-24, 1994 Analyzed: Oct 17-24, 1994 Reported: Oct 31, 1994
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E.P.A. PRIORITY METALS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Antimony.....	5.0	N.D.
Arsenic.....	10	N.D.
Beryllium.....	0.50	N.D.
Cadmium.....	0.25	N.D.
Chromium.....	1.0	N.D.
Copper.....	0.50	N.D.
Lead.....	5.0	N.D.
Mercury.....	0.025	N.D.
Nickel.....	2.5	N.D.
Selenium.....	7.5	N.D.
Silver.....	1.0	N.D.
Thallium.....	7.5	N.D.
Zinc.....	2.0	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.
 The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great Western Bank
 Sample Matrix : Soil
 Units: mg/kg (ppm)

 Analyst: T. Fitzgibbon
 A. Shephard

 Digested: Oct 13-24, 1994
 Reported: Oct 31, 1994

METALS QUALITY CONTROL DATA REPORT

ANALYTE	Sb	As	Be	Cd	Cr	Cu	Pb
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EPA Method:	6010	6010	6010	6010	6010	6010	6010
Date Analyzed:	Oct 24, 1994	Oct 24, 1994	Oct 24, 1994	Oct 24, 1994	Oct 24, 1994	Oct 24, 1994	Oct 24, 1994

ACCURACY ASSESSMENT

LCS Spike Conc. Added:	50	50	50	50	50	50	50
LCS Spike Result:	43	43	39	39	40	44	39
LCS Spike % Recovery:	86	86	78	78	80	88	78
Upper Control Limit:	103	122	104	110	117	109	114
Lower Control Limit:	63	63	57	65	61	79	55
Matrix Spike Sample #:	410-0247	410-0247	410-0247	410-0247	410-0247	410-0247	410-0247
Matrix Spike % Recovery:	35	68	67	69	63	77	67

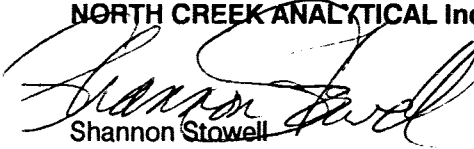
PRECISION ASSESSMENT

Sample #:	410-0247	410-0247	410-0247	410-0247	410-0247	410-0247	410-0247
Original:	N.D.	N.D.	N.D.	N.D.	28	13	N.D.
Duplicate:	N.D.	N.D.	N.D.	N.D.	25	12	N.D.
Relative % Difference:	Q-5	Q-5	Q-5	Q-5	11	8.0	Q-5

NORTH CREEK ANALYTICAL Inc.

Please Note:

Q-5 = RPD values are not reported at sample concentrations < 10 X the Reporting Limit.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Matrix: Soil Analysis Method: EPA 420.1 First Sample #: 410-0557	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Analyzed: Oct 18, 1994 Reported: Oct 19, 1994
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LABORATORY ANALYSIS FOR: PHENOLS

Sample Number	Sample Description	Reporting Limit mg/kg (ppm)	Sample Result mg/kg (ppm)
410-0557	SOUTH SOIL	0.50	N.D.
BLK101894	Method Blank	0.50	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.
The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.


Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

Client Project ID: Great Western Bank
 Sample Matrix : Soil
 Units: mg/kg (ppm)

Analyst: T. Fitzgibbon
 A. Shephard

Digested: Oct 13-24, 1994
 Reported: Oct 31, 1994

METALS QUALITY CONTROL DATA REPORT

ANALYTE	Hg	Ni	Se	Ag	Tl	Zn
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EPA Method:	7471 Modified	6010	6010	7760	6010	6010
Date Analyzed:	Oct 17, 1994	Oct 24, 1994	Oct 24, 1994	Oct 18, 1994	Oct 24, 1994	Oct 24, 1994

ACCURACY ASSESSMENT

LCS Spike Conc. Added:	0.25	50	50	50	50	50
LCS Spike Result:	0.23	37	36	55	31	38
LCS Spike % Recovery:	92	74	72	110	62	76
Upper Control Limit:	135	115	116	128	107	121
Lower Control Limit:	61	53	62	95	48	57
Matrix Spike Sample #:	410-0302	410-0247	410-0247	410-0247	410-0247	410-0247
Matrix Spike % Recovery:	70	53	62	95	48	57


PRECISION ASSESSMENT

Sample #:	410-0302	410-0247	410-0247	410-0247	410-0247	410-0247
Original:	0.059	44	N.D.	N.D.	N.D.	32
Duplicate:	0.064	42	N.D.	N.D.	N.D.	29
Relative % Difference:	Q-5	4.7	Q-5	Q-5	Q-5	9.8

NORTH CREEK ANALYTICAL Inc.

Please Note:

Q-5 = RPD values are not reported at sample concentrations < 10 X the Reporting Limit.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great Western Bank
 Sample Descript: Water, WEST WATER
 Analysis Method: EPA 8081
 Sample Number: 410-0555

 Sampled: Oct 12, 1994
 Received: Oct 12, 1994
 Extracted: Oct 13, 1994
 Analyzed: Oct 18, 1994
 Reported: Oct 18, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.040	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.50	N.D.
PCB-1221.....	0.50	N.D.
PCB-1232.....	0.50	N.D.
PCB-1242.....	0.50	N.D.
PCB-1248.....	0.50	N.D.
PCB-1254.....	0.50	N.D.
PCB-1260.....	0.50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 78
 Surrogate Recovery Control Limits are 29 - 101 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-9508 (206) 481-9200 • FAX 485-2992
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 9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Water, EAST WATER Analysis Method: EPA 8081 Sample Number: 410-0556	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Extracted: Oct 13, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.040	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.50	N.D.
PCB-1221.....	0.50	N.D.
PCB-1232.....	0.50	N.D.
PCB-1242.....	0.50	N.D.
PCB-1248.....	0.50	N.D.
PCB-1254.....	0.50	N.D.
PCB-1260.....	0.50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 79
 Surrogate Recovery Control Limits are 29 - 101 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell

Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great Western Bank
 Sample Descript: Method Blank
 Analysis Method: EPA 8081
 Sample Number: BLK101394

 Extracted: Oct 13, 1994
 Analyzed: Oct 17, 1994
 Reported: Oct 18, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.040	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.50	N.D.
PCB-1221.....	0.50	N.D.
PCB-1232.....	0.50	N.D.
PCB-1242.....	0.50	N.D.
PCB-1248.....	0.50	N.D.
PCB-1254.....	0.50	N.D.
PCB-1260.....	0.50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 59
 Surrogate Recovery Control Limits are 29 - 101 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Matrix: Water Analysis Method: EPA 8080 Units: µg/L (ppb) QC Sample #: BLK101394	Analyst: M. Seibel Extracted: Oct 13, 1994 Analyzed: Oct 17, 1994 Reported: Oct 18, 1994
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BLANK SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Aroclor 1260	Lindane	Heptachlor	Aldrin
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	6.7	0.25	0.25	0.25
Spike Result:	6.6	0.28	0.26	0.24
Spike % Recovery:	99%	112%	104%	96%
Spike Dup. Result:	6.5	0.29	0.26	0.25
Spike Duplicate % Recovery:	97%	116%	104%	100%
Upper Control Limit %:	134	147	159	152
Lower Control Limit %:	44	59	27	39
Relative % Difference:	1.5%	3.5%	0.0%	4.1%
Maximum RPD:	50	50	50	50

NORTH CREEK ANALYTICAL Inc.

% Recovery:	$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: WEST WATER Analysis Method: EPA 6010/7000 Sample Number: 410-0555 Sample Matrix: Water	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Digested: Oct 18, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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E.P.A. PRIORITY METALS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Antimony.....	100	N.D.
Arsenic.....	200	N.D.
Beryllium.....	5.0	N.D.
Cadmium.....	5.0	N.D.
Chromium.....	10	N.D.
Copper.....	20	N.D.
Lead.....	100	N.D.
Mercury.....	0.50	N.D.
Nickel.....	20	N.D.
Selenium.....	150	N.D.
Silver.....	20	N.D.
Thallium.....	150	N.D.
Zinc.....	10	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



for Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: EAST WATER Analysis Method: EPA 6010/7000 Sample Number: 410-0556 Sample Matrix: Water	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Digested: Oct 18, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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E.P.A. PRIORITY METALS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Antimony.....	100	N.D.
Arsenic.....	200	N.D.
Beryllium.....	5.0	N.D.
Cadmium.....	5.0	N.D.
Chromium.....	10	N.D.
Copper.....	20	N.D.
Lead.....	100	N.D.
Mercury.....	0.50	N.D.
Nickel.....	20	N.D.
Selenium.....	150	N.D.
Silver.....	20	N.D.
Thallium.....	150	N.D.
Zinc.....	10	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 for Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great Western Bank
 Sample Descript: Method Blank
 Analysis Method: EPA 6010/7000
 Sample Number: BLK101894
 Sample Matrix: Water

 Digested: Oct 18, 1994
 Analyzed: Oct 18, 1994
 Reported: Oct 18, 1994

E.P.A. PRIORITY METALS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Antimony.....	100	N.D.
Arsenic.....	200	N.D.
Beryllium.....	5.0	N.D.
Cadmium.....	5.0	N.D.
Chromium.....	10	N.D.
Copper.....	20	N.D.
Lead.....	100	N.D.
Mercury.....	0.50	N.D.
Nickel.....	20	N.D.
Selenium.....	150	N.D.
Silver.....	20	N.D.
Thallium.....	150	N.D.
Zinc.....	10	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 for Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

Client Project ID: Great Western Bank
 Sample Matrix : Water
 Units: µg/L (ppb)

Analyst: T. Fitzgibbon
 A. Shephard

Digested: Oct 18, 1994
 Reported: Oct 18, 1994

METALS QUALITY CONTROL DATA REPORT

ANALYTE	Sb	As	Be	Cd	Cr	Cu	Pb
EPA Method:	6010	6010	6010	6010	6010	6010	6010
Date Analyzed:	Oct 18, 1994	Oct 18, 1994	Oct 18, 1994	Oct 18, 1994	Oct 18, 1994	Oct 18, 1994	Oct 18, 1994

ACCURACY ASSESSMENT

LCS Spike Conc. Added:	1,000	1,000	1,000	1,000	1,000	1,000	1,000
LCS Spike Result:	900	930	850	830	890	980	850
LCS Spike % Recovery:	90	93	85	83	89	98	85
Upper Control Limit:	103	122	104	110	117	109	114
Lower Control Limit:	63	63	57	65	61	79	55
Matrix Spike Sample #:	410-0895	410-0895	410-0895	410-0895	410-0895	410-0895	410-0895
Matrix Spike % Recovery:	89	91	78	79	79	92	80

PRECISION ASSESSMENT

Sample #:	410-0895	410-0895	410-0895	410-0895	410-0895	410-0895	410-0895
Original:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Duplicate:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Relative % Difference: Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Project Manager

Lab Control Sample	Conc. of L.C.S.	x 100
% Recovery:	L.C.S. Spike Conc. Added	
Relative % Difference:	Original Result - Duplicate Result	x 100
	(Original Result + Duplicate Result) / 2	

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great Western Bank
 Sample Matrix : Water
 Units: µg/L (ppb)

 Analyst: T. Fitzgibbon
 A. Shephard

 Digested: Oct 18, 1994
 Reported: Oct 18, 1994

METALS QUALITY CONTROL DATA REPORT

ANALYTE	Hg	Ni	Se	Ag	Tl	Zn
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EPA Method:	7470 Modified	6010	6010	7760	6010	6010
Date Analyzed:	Oct 18, 1994	Oct 18, 1994	Oct 18, 1994	Oct 18, 1994	Oct 18, 1994	Oct 18, 1994

ACCURACY ASSESSMENT

LCS Spike						
Conc. Added:	5.0	1,000	1,000	1,000	1,000	1,000
LCS Spike						
Result:	4.6	870	880	1,320	860	820
LCS Spike						
% Recovery:	92	87	88	132, Q-1	86	82
Upper Control						
Limit:	135	115	116	128	107	121
Lower Control						
Limit:	61	514	36	71	47	60
Matrix Spike						
Sample #:	410-0556	410-0895	410-0895	410-0895	410-0895	410-0895
Matrix Spike						
% Recovery:	88	79	88	132	82	83

PRECISION ASSESSMENT

Sample #:	410-0556	410-0895	410-0895	410-0895	410-0895	410-0895
Original:	N.D.	N.D.	N.D.	N.D.	N.D.	29
Duplicate:	N.D.	N.D.	N.D.	N.D.	N.D.	61

**Relative %
Difference:**

Relative Percent Difference values are not reported at sample concentration levels < 10 X the Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Please Note:

Q-1 = The Spike Recovery for this QC sample is outside of NCA established control limits.


 Shannon Stowell
 Project Manager


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petarca	Client Project ID: Great Western Bank Sample Matrix: Water Analysis Method: EPA 420.1 First Sample #: 410-0555	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Analyzed: Oct 18, 1994 Reported: Oct 19, 1994
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LABORATORY ANALYSIS FOR: PHENOLS

Sample Number	Sample Description	Reporting Limit mg/L (ppm)	Sample Result mg/L (ppm)
410-0555	WEST WATER	0.025	N.D.
410-0556	EAST WATER	0.025	N.D.
BLK101894	Method Blank	0.025	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

Client Project ID: Great Western Bank
 Sample Matrix : Water
 Units: mg/L (ppm)

Analyst: R. Davies
 J. Wright

Reported: Oct 19, 1994

INORGANIC QUALITY CONTROL DATA REPORT

ANALYTE

Phenols

EPA Method: 420.1
 Date Analyzed: Oct 18, 1994

ACCURACY ASSESSMENT

LCS Spike
 Conc. Added: 0.10

LCS Spike
 Result: 0.11

LCS Spike
 % Recovery: 110

Upper Control
 Limit: 159

Lower Control
 Limit: 51

PRECISION ASSESSMENT

Sample #: 410-0555

Original: N.D.

Duplicate: N.D.

Relative %
 Difference: RPD values are not reported at sample concentration levels <5 X the Reporting Limit.

Maximum
 RPD: 25

NORTH CREEK ANALYTICAL Inc.

Lab Control Sample	Conc. of L.C.S.	x 100
% Recovery:	L.C.S. Spike Conc. Added	
Relative % Difference:	Original Result - Duplicate Result	x 100
	(Original Result + Duplicate Result) / 2	

Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Matrix: Water Analysis Method: EPA 150.1 First Sample #: 410-0555	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Analyzed: Oct 13, 1994 Reported: Oct 18, 1994
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LABORATORY ANALYSIS FOR: pH

Sample Number	Sample Description	Sample Result
410-0555	WEST WATER	7.2
410-0556	EAST WATER	7.2

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Matrix: Water Analysis Method: WTPH-D Extended First Sample #: 410-0555	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Extracted: Oct 13, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
410-0555	WEST WATER	N.D.	N.D.	99
410-0556	EAST WATER	N.D.	N.D.	82
BLK101394	Method Blank	N.D.	N.D.	86

Reporting Limit:	0.25	0.75
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2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.
Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

Client Project ID: Great Western Bank
 Sample Matrix: Water
 Analysis Method: WTPH-D
 Units: mg/L (ppm)

Analyst: D. Anderson
 Extracted: Oct 13, 1994
 Analyzed: Oct 18, 1994
 Reported: Oct 18, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

Spike Conc.
 Added: 2.1

Spike
 Result: 2.1

%
 Recovery: 100

Upper Control
 Limit %: 126

Lower Control
 Limit %: 71

PRECISION ASSESSMENT Sample Duplicate

Diesel Range
 Organics

Sample
 Number: 410-0535

Original
 Result: 0.40

Duplicate
 Result: 0.40

Relative % Difference Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Maximum
 RPD: 39

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Shannon Stowell
 Project Manager

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$	
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$	

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Water, WEST WATER Analysis Method: EPA 8240 Sample Number: 410-0555	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Analyzed: Oct 14, 1994 Reported: Oct 18, 1994
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VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acetone.....	10	N.D.
Benzene.....	2.0	N.D.
Bromodichloromethane.....	2.0	N.D.
Bromoform.....	2.0	N.D.
Bromomethane.....	10	N.D.
2-Butanone.....	10	N.D.
Carbon disulfide.....	10	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	2.0	N.D.
Chloroethane.....	10	N.D.
Chloroform.....	2.0	N.D.
Chloromethane.....	10	N.D.
Dibromochloromethane.....	2.0	N.D.
1,1-Dichloroethane.....	2.0	N.D.
1,2-Dichloroethane.....	2.0	N.D.
1,1-Dichloroethene.....	2.0	N.D.
cis 1,2-Dichloroethene.....	5.0	N.D.
trans 1,2-Dichloroethene.....	2.0	N.D.
1,2-Dichloropropane.....	2.0	N.D.
cis 1,3-Dichloropropene.....	2.0	N.D.
trans 1,3-Dichloropropene.....	2.0	N.D.
Ethylbenzene.....	5.0	N.D.
2-Hexanone.....	10	N.D.
Methylene chloride.....	10	N.D.
4-Methyl-2-pentanone.....	10	N.D.
Styrene.....	5.0	N.D.
1,1,2,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
Toluene.....	2.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	2.0	N.D.
Trichloroethene.....	2.0	N.D.
Vinyl chloride.....	2.0	N.D.
Total Xylenes.....	5.0	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
for Project Manager

Surrogate Standards	Percent Recovery:	Control Limits
1,2-Dichloroethane-d4	93	76-114
Toluene-d8	100	88-110
4-Bromofluorobenzene	97	86-115

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Water, EAST WATER Analysis Method: EPA 8240 Sample Number: 410-0556	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Analyzed: Oct 4, 1994 Reported: Oct 18, 1994
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VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acetone.....	10	N.D.
Benzene.....	2.0	N.D.
Bromodichloromethane.....	2.0	N.D.
Bromoform.....	2.0	N.D.
Bromomethane.....	10	N.D.
2-Butanone.....	10	N.D.
Carbon disulfide.....	10	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	2.0	N.D.
Chloroethane.....	10	N.D.
Chloroform.....	2.0	N.D.
Chloromethane.....	10	N.D.
Dibromochloromethane.....	2.0	N.D.
1,1-Dichloroethane.....	2.0	N.D.
1,2-Dichloroethane.....	2.0	N.D.
1,1-Dichloroethene.....	2.0	N.D.
cis 1,2-Dichloroethene.....	5.0	N.D.
trans 1,2-Dichloroethene.....	2.0	N.D.
1,2-Dichloropropane.....	2.0	N.D.
cis 1,3-Dichloropropene.....	2.0	N.D.
trans 1,3-Dichloropropene.....	2.0	N.D.
Ethylbenzene.....	5.0	N.D.
2-Hexanone.....	10	N.D.
Methylene chloride.....	10	N.D.
4-Methyl-2-pentanone.....	10	N.D.
Styrene.....	5.0	N.D.
1,1,2,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
Toluene.....	2.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	2.0	N.D.
Trichloroethene.....	2.0	N.D.
Vinyl chloride.....	2.0	N.D.
Total Xylenes.....	5.0	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Surrogate Standards	Percent Recovery:	Control Limits
1,2-Dichloroethane-d4	91	76-114
Toluene-d8	99	88-110
4-Bromofluorobenzene	94	86-115


Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Method Blank Analysis Method: EPA 8240 Sample Number: BLK101494	Analyzed: Oct 14, 1994 Reported: Oct 18, 1994
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VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acetone.....	10	N.D.
Benzene.....	2.0	N.D.
Bromodichloromethane.....	2.0	N.D.
Bromoform.....	2.0	N.D.
Bromomethane.....	10	N.D.
2-Butanone.....	10	N.D.
Carbon disulfide.....	10	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	2.0	N.D.
Chloroethane.....	10	N.D.
Chloroform.....	2.0	N.D.
Chloromethane.....	10	N.D.
Dibromochloromethane.....	2.0	N.D.
1,1-Dichloroethane.....	2.0	N.D.
1,2-Dichloroethane.....	2.0	N.D.
1,1-Dichloroethene.....	2.0	N.D.
cis 1,2-Dichloroethene.....	5.0	N.D.
trans 1,2-Dichloroethene.....	2.0	N.D.
1,2-Dichloropropane.....	2.0	N.D.
cis 1,3-Dichloropropene.....	2.0	N.D.
trans 1,3-Dichloropropene.....	2.0	N.D.
Ethylbenzene.....	5.0	N.D.
2-Hexanone.....	10	N.D.
Methylene chloride.....	10	N.D.
4-Methyl-2-pentanone.....	10	N.D.
Styrene.....	5.0	N.D.
1,1,2,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
Toluene.....	2.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	2.0	N.D.
Trichloroethene.....	2.0	N.D.
Vinyl chloride.....	2.0	N.D.
Total Xylenes.....	5.0	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Surrogate Standards	Percent Recovery:	Control Limits
1,2-Dichloroethane-d4	89	76-114
Toluene-d8	99	88-110
4-Bromofluorobenzene	95	86-115

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Daryl Petrarca

Client Project ID: Great Western Bank
Sample Matrix: Water
Analysis Method: EPA 8240
Units: $\mu\text{g/L}$ (ppb)
QC Sample #: 410-0555

Analyst: K. Wilke

Analyzed: Oct 14, 1994
Reported: Oct 18, 1994

MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	1,1-DCE	Benzene	TCE	Toluene	Chloro- benzene
Sample Result:	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10.0	10.0	10.0	10.0	10.0
Spike Result:	9.1	10.0	10.2	10.0	10.5
Spike % Recovery:	91%	100%	102%	100%	105%
Spike Dup. Result:	9.2	10.3	10.5	10.4	10.8
Spike Duplicate % Recovery:	92%	103%	105%	104%	108%
Upper Control Limit %:	140	125	114	117	112
Lower Control Limit %:	30	76	79	89	91
Relative % Difference:	1.1%	2.9%	2.9%	3.8%	2.8%
Maximum RPD:	10	10	10	10	10

NORTH CREEK ANALYTICAL Inc.

$$\% \text{ Recovery} = \frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$$

$$\text{Relative } \% \text{ Difference} = \frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$$

Shannon Stowell

Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Water, WEST WATER Analysis Method: EPA 8270 Sample Number: 410-0555	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Extracted: Oct 13, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	10	N.D.
Acenaphthylene.....	10	N.D.
Aniline.....	10	N.D.
Anthracene.....	10	N.D.
Benzidine.....	50	N.D.
Benzoic Acid.....	10	N.D.
Benz[a]anthracene.....	5.0	N.D.
Benzo[b]fluoranthene.....	5.0	N.D.
Benzo[k]fluoranthene.....	5.0	N.D.
Benzo[g,h,i]perylene.....	5.0	N.D.
Benzo[a]pyrene.....	5.0	N.D.
Benzyl alcohol.....	10	N.D.
Bis(2-chloroethoxy)methane.....	10	N.D.
Bis(2-chloroethyl)ether.....	10	N.D.
Bis(2-chloroisopropyl)ether.....	10	N.D.
Bis(2-ethylhexyl)phthalate.....	20	N.D.
4-Bromophenyl phenyl ether.....	10	N.D.
Butyl benzyl phthalate.....	5.0	N.D.
Carbazole.....	10	N.D.
4-Chloroaniline.....	5.0	N.D.
2-Chloronaphthalene.....	10	N.D.
4-Chloro-3-methylphenol.....	10	N.D.
2-Chlorophenol.....	10	N.D.
4-Chlorophenyl phenyl ether.....	10	N.D.
Chrysene.....	5.0	N.D.
Dibenz[a,h]anthracene.....	5.0	N.D.
Dibenzofuran.....	10	N.D.
Di-n-butyl phthalate.....	5.0	N.D.
1,3-Dichlorobenzene.....	5.0	N.D.
1,4-Dichlorobenzene.....	5.0	N.D.
1,2-Dichlorobenzene.....	5.0	N.D.
3,3-Dichlorobenzidine.....	10	N.D.
2,4-Dichlorophenol.....	10	N.D.
Diethyl phthalate.....	10	N.D.
2,4-Dimethylphenol.....	10	N.D.
Dimethyl phthalate.....	10	N.D.
4,6-Dinitro-2-methylphenol.....	10	N.D.
2,4-Dinitrophenol.....	10	N.D.

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

Client Project ID: Great Western Bank
 Sample Descript: Water, WEST WATER
 Analysis Method: EPA 8270
 Sample Number: 410-0555

Sampled: Oct 12, 1994
 Received: Oct 12, 1994
 Extracted: Oct 13, 1994
 Analyzed: Oct 18, 1994
 Reported: Oct 18, 1994

SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
2,4-Dinitrotoluene.....	10	N.D.
2,6-Dinitrotoluene.....	10	N.D.
Di-n-octyl phthalate.....	5.0	N.D.
Fluoranthene.....	5.0	N.D.
Fluorene.....	10	N.D.
Hexachlorobenzene.....	10	N.D.
Hexachlorobutadiene.....	5.0	N.D.
Hexachlorocyclopentadiene.....	5.0	N.D.
Hexachloroethane.....	10	N.D.
Indeno[1,2,3-cd]pyrene.....	5.0	N.D.
Isophorone.....	10	N.D.
2-Methylnaphthalene.....	10	N.D.
2-Methylphenol.....	10	N.D.
4-Methylphenol.....	10	N.D.
Naphthalene.....	10	N.D.
2-Nitroaniline.....	20	N.D.
3-Nitroaniline.....	10	N.D.
4-Nitroaniline.....	10	N.D.
Nitrobenzene.....	10	N.D.
2-Nitrophenol.....	5.0	N.D.
4-Nitrophenol.....	10	N.D.
N-Nitrosodiphenylamine.....	10	N.D.
N-Nitrosodi-n-propylamine.....	10	N.D.
Pentachlorophenol.....	10	N.D.
Phenanthrene.....	10	N.D.
Phenol.....	10	N.D.
Pyrene.....	5.0	N.D.
1,2,4-Trichlorobenzene.....	5.0	N.D.
2,4,5-Trichlorophenol.....	10	N.D.
2,4,6-Trichlorophenol.....	10	N.D.

Surrogate Standards Percent Recovery:	Control Limits	Surrogate Standards Percent Recovery:	Control Limits
2-Fluorophenol 85	21-100	Nitrobenzene-d5 78	35-114
Phenol-d6 92	10-94	2-Fluorobiphenyl 70	43-116
2,4,6-Tribromophenol 63	10-123	p-Terphenyl-d14 77	33-141

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Shannon Stowell
 for Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Water, EAST WATER Analysis Method: EPA 8270 Sample Number: 410-0556	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Extracted: Oct 13, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	10	N.D.
Acenaphthylene.....	10	N.D.
Aniline.....	10	N.D.
Anthracene.....	10	N.D.
Benzidine.....	50	N.D.
Benzoic Acid.....	10	N.D.
Benz[a]anthracene.....	5.0	N.D.
Benzo[b]fluoranthene.....	5.0	N.D.
Benzo[k]fluoranthene.....	5.0	N.D.
Benzo[g,h,i]perylene.....	5.0	N.D.
Benzo[a]pyrene.....	5.0	N.D.
Benzyl alcohol.....	10	N.D.
Bis(2-chloroethoxy)methane.....	10	N.D.
Bis(2-chloroethyl)ether.....	10	N.D.
Bis(2-chloroisopropyl)ether.....	10	N.D.
Bis(2-ethylhexyl)phthalate.....	20	N.D.
4-Bromophenyl phenyl ether.....	10	N.D.
Butyl benzyl phthalate.....	5.0	N.D.
Carbazole.....	10	N.D.
4-Chloroaniline.....	5.0	N.D.
2-Chloronaphthalene.....	10	N.D.
4-Chloro-3-methylphenol.....	10	N.D.
2-Chlorophenol.....	10	N.D.
4-Chlorophenyl phenyl ether.....	10	N.D.
Chrysene.....	5.0	N.D.
Dibenz[a,h]anthracene.....	5.0	N.D.
Dibenzofuran.....	10	N.D.
Di-n-butyl phthalate.....	5.0	N.D.
1,3-Dichlorobenzene.....	5.0	N.D.
1,4-Dichlorobenzene.....	5.0	N.D.
1,2-Dichlorobenzene.....	5.0	N.D.
3,3-Dichlorobenzidine.....	10	N.D.
2,4-Dichlorophenol.....	10	N.D.
Diethyl phthalate.....	10	N.D.
2,4-Dimethylphenol.....	10	N.D.
Dimethyl phthalate.....	10	N.D.
4,6-Dinitro-2-methylphenol.....	10	N.D.
2,4-Dinitrophenol.....	10	N.D.

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Water, EAST WATER Analysis Method: EPA 8270 Sample Number: 410-0556	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Extracted: Oct 13, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
2,4-Dinitrotoluene.....	10	N.D.
2,6-Dinitrotoluene.....	10	N.D.
Di-n-octyl phthalate.....	5.0	N.D.
Fluoranthene.....	5.0	N.D.
Fluorene.....	10	N.D.
Hexachlorobenzene.....	10	N.D.
Hexachlorobutadiene.....	5.0	N.D.
Hexachlorocyclopentadiene.....	5.0	N.D.
Hexachloroethane.....	10	N.D.
Indeno[1,2,3-cd]pyrene.....	5.0	N.D.
Isophorone.....	10	N.D.
2-Methylnaphthalene.....	10	N.D.
2-Methylphenol.....	10	N.D.
4-Methylphenol.....	10	N.D.
Naphthalene.....	10	N.D.
2-Nitroaniline.....	20	N.D.
3-Nitroaniline.....	10	N.D.
4-Nitroaniline.....	10	N.D.
Nitrobenzene.....	10	N.D.
2-Nitrophenol.....	5.0	N.D.
4-Nitrophenol.....	10	N.D.
N-Nitrosodiphenylamine.....	10	N.D.
N-Nitrosodi-n-propylamine.....	10	N.D.
Pentachlorophenol.....	10	N.D.
Phenanthrene.....	10	N.D.
Phenol.....	10	N.D.
Pyrene.....	5.0	N.D.
1,2,4-Trichlorobenzene.....	5.0	N.D.
2,4,5-Trichlorophenol.....	10	N.D.
2,4,6-Trichlorophenol.....	10	N.D.

Surrogate Standards	Percent Recovery:	Control Limits	Surrogate Standards	Percent Recovery:	Control Limits
2-Fluorophenol	87	21-100	Nitrobenzene-d5	77	35-114
Phenol-d6	88	10-94	2-Fluorobiphenyl	67	43-116
2,4,6-Tribromophenol	62	10-123	p-Terphenyl-d14	75	33-141

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell

Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great Western Bank
 Sample Descript: Method Blank
 Analysis Method: EPA 8270
 Sample Number: BLK101394

 Extracted: Oct 13, 1994
 Analyzed: Oct 18, 1994
 Reported: Oct 18, 1994

SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	10	N.D.
Acenaphthylene.....	10	N.D.
Aniline.....	10	N.D.
Anthracene.....	10	N.D.
Benzidine.....	50	N.D.
Benzoic Acid.....	10	N.D.
Benz[a]anthracene.....	5.0	N.D.
Benzo[b]fluoranthene.....	5.0	N.D.
Benzo[k]fluoranthene.....	5.0	N.D.
Benzo[g,h,i]perylene.....	5.0	N.D.
Benzo[a]pyrene.....	5.0	N.D.
Benzyl alcohol.....	10	N.D.
Bis(2-chloroethoxy)methane.....	10	N.D.
Bis(2-chloroethyl)ether.....	10	N.D.
Bis(2-chloroisopropyl)ether.....	10	N.D.
Bis(2-ethylhexyl)phthalate.....	20	N.D.
4-Bromophenyl phenyl ether.....	10	N.D.
Butyl benzyl phthalate.....	5.0	N.D.
Carbazole.....	10	N.D.
4-Chloroaniline.....	5.0	N.D.
2-Chloronaphthalene.....	10	N.D.
4-Chloro-3-methylphenol.....	10	N.D.
2-Chlorophenol.....	10	N.D.
4-Chlorophenyl phenyl ether.....	10	N.D.
Chrysene.....	5.0	N.D.
Dibenz[a,h]anthracene.....	5.0	N.D.
Dibenzofuran.....	10	N.D.
Di-n-butyl phthalate.....	5.0	N.D.
1,3-Dichlorobenzene.....	5.0	N.D.
1,4-Dichlorobenzene.....	5.0	N.D.
1,2-Dichlorobenzene.....	5.0	N.D.
3,3-Dichlorobenzidine.....	10	N.D.
2,4-Dichlorophenol.....	10	N.D.
Diethyl phthalate.....	10	N.D.
2,4-Dimethylphenol.....	10	N.D.
Dimethyl phthalate.....	10	N.D.
4,6-Dinitro-2-methylphenol.....	10	N.D.
2,4-Dinitrophenol.....	10	N.D.

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great Western Bank Sample Descript: Method Blank Analysis Method: EPA 8270 Sample Number: BLK101394	Extracted: Oct 13, 1994 Analyzed: Oct 18, 1994 Reported: Oct 18, 1994
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SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
2,4-Dinitrotoluene.....	10	N.D.
2,6-Dinitrotoluene.....	10	N.D.
Di-n-octyl phthalate.....	5.0	N.D.
Fluoranthene.....	5.0	N.D.
Fluorene.....	10	N.D.
Hexachlorobenzene.....	10	N.D.
Hexachlorobutadiene.....	5.0	N.D.
Hexachlorocyclopentadiene.....	5.0	N.D.
Hexachloroethane.....	10	N.D.
Indeno[1,2,3-cd]pyrene.....	5.0	N.D.
Isophorone.....	10	N.D.
2-Methylnaphthalene.....	10	N.D.
2-Methylphenol.....	10	N.D.
4-Methylphenol.....	10	N.D.
Naphthalene.....	10	N.D.
2-Nitroaniline.....	20	N.D.
3-Nitroaniline.....	10	N.D.
4-Nitroaniline.....	10	N.D.
Nitrobenzene.....	10	N.D.
2-Nitrophenol.....	5.0	N.D.
4-Nitrophenol.....	10	N.D.
N-Nitrosodiphenylamine.....	10	N.D.
N-Nitrosodi-n-propylamine.....	10	N.D.
Pentachlorophenol.....	10	N.D.
Phenanthrene.....	10	N.D.
Phenol.....	10	N.D.
Pyrene.....	5.0	N.D.
1,2,4-Trichlorobenzene.....	5.0	N.D.
2,4,5-Trichlorophenol.....	10	N.D.
2,4,6-Trichlorophenol.....	10	N.D.

Surrogate Standards	Percent Recovery:	Control Limits	Surrogate Standards	Percent Recovery:	Control Limits
2-Fluorophenol	82	21-100	Nitrobenzene-d5	75	35-114
Phenol-d6	80	10-94	2-Fluorobiphenyl	66	43-116
2,4,6-Tribromophenol	59	10-123	p-Terphenyl-d14	76	33-141

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

Client Project ID: Great Western Bank
 Sample Matrix: Water
 Analysis Method: EPA 8270
 Units : $\mu\text{g/L}$ (ppb)
 QC Sample #: BLK101394

Analyst : D. Harmon
 Extracted: Oct 13, 1994
 Analyzed: Oct 18, 1994
 Reported: Oct 18, 1994

BLANK SPIKE QUALITY CONTROL DATA REPORT

Analyte	Sample Result	Spike Conc. Added	Spike Result	Spike % Recovery	Spike Dup. Result	Spike Duplicate % Recovery	Relative % Difference
Phenol	N.D.	200	150	75% (39 -122%)	150	75% (39 -122%)	0% (38%)
2-Chlorophenol	N.D.	200	150	75% (42 -137%)	140	70% (42 -137%)	7% (60%)
1,4-Dichloro-benzene	N.D.	100	69	69% (37 -122%)	69	69% (37 -122%)	0% (41%)
N-Nitroso-di-n-propylamine	N.D.	100	79	79% (47 -154%)	77	77% (47 -154%)	3% (46%)
1,2,4-Trichloro-benzene	N.D.	100	77	77% (34 -136%)	74	74% (34 -136%)	4% (44%)
4-Chloro-3-methylphenol	N.D.	200	160	80% (42 -136%)	160	80% (42 -136%)	0% (43%)
Acenaphthene	N.D.	100	71	71% (32 -140%)	72	72% (32 -140%)	1% (45%)
4-Nitrophenol	N.D.	200	140	70% (0 -99%)	140	70% (0 -99%)	0% (69%)
2,4-Dinitro-toluene	N.D.	100	89	89% (46 -146%)	91	91% (46 -146%)	2% (47%)
Pentachloro-phenol	N.D.	200	150	75% (40 -180%)	150	75% (40 -180%)	0% (40%)
Pyrene	N.D.	100	79	79% (52 -166%)	78	78% (52 -166%)	1% (46%)

Control Limits in Parentheses

NORTH CREEK ANALYTICAL Inc.

% Recovery:

$$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$$

x 100

Relative % Difference:

$$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$$

x 100

Shannon Stowell
 Project Manager

RZA AGRA, Inc.
Engineering & Environmental Services

11335 N.E. 122nd Way, Suite 100
Kirkland, Washington 98034
(206) 820-4669 FAX (206) 821-3914

Project Name: BELFIELD BOS. PMP Job No.: 11-09378-02
Project Manager: ROB COUSINS Phone #: 820-4669
Sampler: ROB COUSINS/ERIC SMITH

12605

Chain of Custody Record / Analysis Request

Analysis Requested: (circle, check box or write preferred method in box)

BTEX by EPA 8020 Soil / EPA 602 Water	
WTPH-G	
BTEX / WTPH-G	
WTPH-HCID	
WTPH-DX SUCRA GEL	X
TPH by EPA 8015 Mod.	X
TPH by EPA 418.1	X
LEAD EPA 6010 7420 7421 Soil	
Total / Dissolved EPA 7421 Water	
TCLP EPA 1311	
PCBs EPA 8080 Soil	
EPA 608 Water	
VOCs EPA 8010 8020 Soil	
EPA 601 602 Water	
GC/MS EPA 8240 Volatiles	
GC/MS EPA 8270 Semi-volatiles	
Hold for Further Analysis	
RUSH (see below)	X

RZA AGRA, Inc. Sample ID	Lab Samp ID	Date Collected	Time Collected	Matrix (S=soil, W=water, A=all)	# Containers/Preservation			
					40 mL VOA /	1 L Glass /	8 oz Glass /	CHILL
SS-1 / WP-12				S				X
SS-2 / WP-14				S				
SS-3 / WP-6				S				
SS-4 / WP-10				S				
SS-5 / WP-15				S				
SS-6				S				
SS-7				S				
SS-8				S				
SS-9				S/W				
SEDS, UPSTREAM (MUD)				S/W				

LABORATORY:

Special Handling

Turnaround:
 8 hour
 24 hour
 5 business day
 10 business day
 other _____ (#)business day

Total # Containers:
 Condition of Containers?
 Condition of Seals?

PURPOSE OF SAMPLING / COMMENTS:
 - SOIL SAMPLES NEAR WELLPOINTS AND 4 PERIMETER SAMPLES
 - MERCER SLOUGH BOTTOM SEBS MUD-RUSH-SEDS, UPSTREAM LAB - NORTH CREEK 1 DAY TURNAROUND

RELINQUISHED BY SAMPLER:

Signature: Robert Cousins
 Printed Name: ROBERT COUSINS
 Firm: AGRA
 Date/Time:

RELINQUISHED BY:

Signature:
 Printed Name:
 Firm:
 Date/Time:

RECEIVED BY:

Signature: Shannon Stowel
 Printed Name: Shannon Stowel
 Firm: NCA
 Date/Time: 10/24/94 12:15



18839 120th Avenue N.E., Suite 101 • Bothell, WA 98011-8508 • (206) 481-8200 • FAX 485-2822
 East 11115 Montgomery, Suite B • Spokane, WA 99205-4778 • (509) 324-8200 • FAX 324-8200
 9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 • (503) 643-8200 • FAX 644-2202

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Soil Analysis Method: WTPH-D Extended First Sample #: 410-1397	Sampled: Oct 21, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 25, 1994 Reported: Oct 25, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
410-1397	SEDS, UPSTREAM	480	2,900	80
BLK102494	Method Blank	N.D.	N.D.	77

*UPGRADIENT SEDIMENT SAMPLE
(SILTS, CLAYS, ORGANICS)*

Reporting Limit:	10	25
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2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.
 Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).
 Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great West Bank Sample Matrix: Soil Analysis Method: WTPH-D Extended First Sample #: 410-0995	Sampled: Oct 19, 1994 Received: Oct 19, 1994 Extracted: Oct 19, 1994 Analyzed: Oct 19-20, 1994 Reported: Oct 20, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
410-0995	^{SOIL} NORTH END	18	110	87
BLK101994	Method Blank	N.D.	N.D.	77

UPGRADIENT SEDIMENT SAMPLE
(CLEAN SAND)

Reporting Limit:	10	25
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2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.
 Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).
 Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Shannon Stowell
 Project Manager

CHAIN OF CUSTODY

PROJECT GREAT WEST BANK				PROJECT No.		ANALYSIS REQUESTED (circle, check box or write preferred method in box)																		
CLIENT				PHONE No.		BTEX by EPA 602 / 8020	WTPH-G	BTEX / WTPH-G	WTPH-HCID	WTPH-D / WTPH-D EXTENDED	TPH by EPA 8015 MODIFIED	WTPH-418.1 MODIFIED	TPH by EPA 418.1	GC / MS EPA 624 / 8240 or EPA 8260 Volatiles	GC / MS EPA 625 / 8270 Semi-volatiles	VOCs EPA 601 / 8010 or EPA 602 / 8020	PCBs EPA 608 / 8080	LEAD EPA 6010 / EPA 7421 Total / Dissolved	TOTAL METALS Cr Cu Zn	TCLP	Pesticide 800	HOLD		
PROJECT MANAGER DARYL PETRARCA				PHONE No. 820-4669																				
SAMPLER'S NAME (please print) ERIC SMITH				PHONE No. 1 4																				
SAMPLER'S SIGNATURE <i>Eric Smith</i> (FOR)																								
SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	CONTAINERS																			
					No.	VOL.																		
1. NORTH H ₂ O	10-19	11:45 -1200	S	-	4	80Z																		
2.																								
3.																								
4.																								
5.																								
6.																								
7.																								
8.																								
9.																								
10.																								

SAMPLE RECEIPT			LABORATORY			TURNAROUND TIME			SPECIAL INSTRUCTIONS / ADDITIONAL COMMENTS		
TOTAL # CONTAINERS 4			SHIPPING I.D. / AIRBILL #			<input type="checkbox"/> 8 HOUR <input checked="" type="checkbox"/> 24 HOUR D Extended <input checked="" type="checkbox"/> 4 DAY TAT <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 2 WEEK (standard) <input type="checkbox"/> OTHER _____					
CONDITION OF CONTAINERS SEALED			CARRIER								
CONDITION OF SEALS GOOD			DOT DESIGNATION								
RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME		
1. <i>Eric Smith</i> AGRA E&E			10-19-94	1:10 PM	1. <i>Shannon Stowell</i>			10/19/94	1:10		
2.					3.						
3.											

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Daryl Petrarca

Client Project ID: Great West Bank
Sample Matrix: Soil
First Sample #: 410-0995

Received: Oct 19, 1994
Reported: Oct 20, 1994

TOTAL SOLIDS & MOISTURE CONTENT REPORT

Sample Number	Sample Description	Total Solids %	Moisture Content %
410-0995	NORTH H2O	74	26

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis. To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total 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.

NORTH CREEK ANALYTICAL Inc.


Shannon Stowell
Project Manager


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great West Bank Sample Matrix: Soil Analysis Method: WTPH-D Extended First Sample #: 410-0995	Sampled: Oct 19, 1994 Received: Oct 19, 1994 Extracted: Oct 19, 1994 Analyzed: Oct 19-20, 1994 Reported: Oct 20, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
410-0995	NORTH H2O	18	110	87
BLK101994	Method Blank	N.D.	N.D.	77

Reporting Limit:	10	25
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2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.
Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).
Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.


Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great West Bank
 Sample Matrix: Soil
 Analysis Method: WTPH-D
 Units: mg/kg (ppm)

 Analyst: D. Anderson
 Extracted: Oct 19, 1994
 Analyzed: Oct 19-20, 1994
 Reported: Oct 20, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

PRECISION ASSESSMENT Sample Duplicate

Diesel

Diesel Range Hydrocarbons

**Spike Conc.
Added:** 70

**Sample
Number:** 410-0271

**Spike
Result:** 60

**Original
Result:** N.D.

**%
Recovery:** 86

**Duplicate
Result:** N.D.

**Upper Control
Limit %:** 116

Relative % Difference Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

**Lower Control
Limit %:** 71

**Maximum
RPD:** 43

NORTH CREEK ANALYTICAL Inc.

$$\% \text{ Recovery} = \frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$$

$$\text{Relative \% Difference} = \frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$$


 Shannon Stowell
 Project Manager


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great West Bank Sample Descript: Soil, NORTH H2O Analysis Method: EPA 8081 Sample Number: 410-0995	Sampled: Oct 19, 1994 Received: Oct 19, 1994 Extracted: Oct 20, 1994 Analyzed: Oct 21-25, 1994 Reported: Oct 26, 1994
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ORGANOCHLORINE PESTICIDES

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Aldrin.....	1.0	N.D.
alpha-BHC.....	0.50	N.D.
beta-BHC.....	0.90	N.D.
delta-BHC.....	0.60	N.D.
gamma-BHC (Lindane).....	1.0	N.D.
Chlordane (technical).....	1.0	4.6
4,4'-DDD.....	1.0	N.D.
4,4'-DDE.....	1.0	N.D.
4,4'-DDT.....	3.0	N.D.
Dieldrin.....	2.0	N.D.
Endosulfan I.....	0.90	N.D.
Endosulfan II.....	2.0	N.D.
Endosulfan sulfate.....	2.0	N.D.
Endrin.....	2.0	N.D.
Endrin aldehyde.....	3.0	N.D.
Heptachlor.....	1.0	N.D.
Heptachlor epoxide.....	0.80	N.D.
Methoxychlor.....	4.0	N.D.
Toxaphene.....	50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 82
 Surrogate Recovery Control Limits are 27- 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca


 Client Project ID: Great West Bank
 Sample Descript: Method Blank
 Analysis Method: EPA 8081
 Sample Number: BLK102094

 Extracted: Oct 20, 1994
 Analyzed: Oct 21-22, 1994
 Reported: Oct 26, 1994

ORGANOCHLORINE PESTICIDES

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Aldrin.....	1.0	N.D.
alpha-BHC.....	0.50	N.D.
beta-BHC.....	0.90	N.D.
delta-BHC.....	0.60	N.D.
gamma-BHC (Lindane).....	1.0	N.D.
Chlordane.....	1.0	N.D.
4,4'-DDD.....	1.0	N.D.
4,4'-DDE.....	1.0	N.D.
4,4'-DDT.....	3.0	N.D.
Dieldrin.....	2.0	N.D.
Endosulfan I.....	0.90	N.D.
Endosulfan II.....	2.0	N.D.
Endosulfan sulfate.....	2.0	N.D.
Endrin.....	2.0	N.D.
Endrin aldehyde.....	3.0	N.D.
Heptachlor.....	1.0	N.D.
Heptachlor epoxide.....	0.80	N.D.
Methoxychlor.....	4.0	N.D.
Toxaphene.....	50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 88
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great West Bank
 Sample Matrix: Soil
 Analysis Method: EPA 8080
 Units: $\mu\text{g}/\text{kg}$ (ppb)
 QC Sample #: BLK102094

 Analyst: M. Seibel
 Extracted: Oct 20, 1994
 Analyzed: Oct 22, 1994
 Reported: Oct 26, 1994

BLANK SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Lindane	Heptachlor	Aldrin
Sample Result:	N.D.	N.D.	N.D.
Spike Conc. Added:	8.3	8.3	8.3
Spike Result:	7.2	9.1	6.8
Spike % Recovery:	87%	110%	82%
Spike Dup. Result:	7.3	8.9	6.8
Spike Duplicate % Recovery:	88%	107%	82%
Upper Control Limit %:	158	161	145
Lower Control Limit %:	32	26	45
Relative % Difference:	1.4%	2.2%	0.0%
Maximum RPD:	50	50	50

NORTH CREEK ANALYTICAL Inc.

 % Recovery: $\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$

 Relative % Difference: $\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great West Bank
 Sample Matrix: Soil
 Analysis Method: EPA 8080
 Units: $\mu\text{g}/\text{kg}$ (ppb)
 QC Sample #: 410-0995

 Analyst: M. Seibel
 Extracted: Oct 20, 1994
 Analyzed: Oct 21, 1994
 Reported: Oct 26, 1994

MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE

Aroclor 1260

Sample Result: N.D.

**Spike Conc.
Added:** 223

**Spike
Result:** 174

**Spike
% Recovery:** 78%

**Spike Dup.
Result:** 173

**Spike
Duplicate
% Recovery:** 78%

**Upper Control
Limit %:** 150

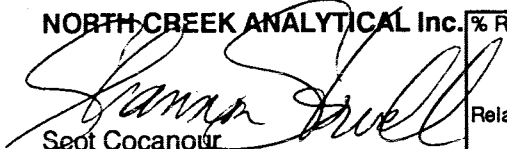
**Lower Control
Limit %:** 17

**Relative
% Difference:** 1.0%

**Maximum
RPD:** 50

NORTH CREEK ANALYTICAL Inc.

 % Recovery:
$$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$$

 Relative % Difference:
$$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$$

 Scot Cocanour
 Laboratory Director

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great West Bank
 Sample Descript: Soil, NORTH H2O
 Analysis Method: EPA 8270
 Sample Number: 410-0995

 Sampled: Oct 19, 1994
 Received: Oct 19, 1994
 Extracted: Oct 20, 1994
 Analyzed: Oct 21, 1994
 Reported: Oct 26, 1994

SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Acenaphthene.....	0.10	N.D.
Acenaphthylene.....	0.10	N.D.
Aniline.....	0.10	N.D.
Anthracene.....	0.10	N.D.
Benzidine.....	0.25	N.D.
Benzoic Acid.....	0.50	N.D.
Benzo[a]anthracene.....	0.10	0.11
Benzo[b]fluoranthene.....	0.10	0.21
Benzo[k]fluoranthene.....	0.10	N.D.
Benzo[g,h,i]perylene.....	0.10	0.10
Benzo[a]pyrene.....	0.10	0.14
Benzyl alcohol.....	0.10	N.D.
Bis(2-chloroethoxy)methane.....	0.10	N.D.
Bis(2-chloroethyl)ether.....	0.10	N.D.
Bis(2-chloroisopropyl)ether.....	0.10	N.D.
Bis(2-ethylhexyl)phthalate.....	0.50	N.D.
4-Bromophenyl phenyl ether.....	0.10	N.D.
Butyl benzyl phthalate.....	0.10	N.D.
Carbazole.....	0.10	N.D.
4-Chloroaniline.....	0.10	N.D.
2-Chloronaphthalene.....	0.10	N.D.
4-Chloro-3-methylphenol.....	0.10	N.D.
2-Chlorophenol.....	0.10	N.D.
4-Chlorophenyl phenyl ether.....	0.10	N.D.
Chrysene.....	0.10	0.18
Dibenz[a,h]anthracene.....	0.10	N.D.
Dibenzofuran.....	0.10	N.D.
Di-n-butyl phthalate.....	0.50	N.D.
1,3-Dichlorobenzene.....	0.10	N.D.
1,4-Dichlorobenzene.....	0.10	N.D.
1,2-Dichlorobenzene.....	0.10	N.D.
3,3-Dichlorobenzidine.....	0.50	N.D.
2,4-Dichlorophenol.....	0.10	N.D.
Diethyl phthalate.....	0.10	N.D.
2,4-Dimethylphenol.....	0.10	N.D.
Dimethyl phthalate.....	0.10	N.D.
4,6-Dinitro-2-methylphenol.....	0.50	N.D.
2,4-Dinitrophenol.....	0.50	N.D.

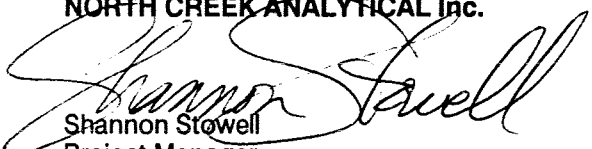
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great West Bank Sample Descript: Soil, NORTH H2O Analysis Method: EPA 8270 Sample Number: 410-0995	Sampled: Oct 19, 1994 Received: Oct 19, 1994 Extracted: Oct 20, 1994 Analyzed: Oct 21, 1994 Reported: Oct 26, 1994
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SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
2,4-Dinitrotoluene.....	0.10	N.D.
2,6-Dinitrotoluene.....	0.10	N.D.
Di-n-octyl phthalate.....	0.10	N.D.
Fluoranthene.....	0.10	0.29
Fluorene.....	0.10	N.D.
Hexachlorobenzene.....	0.10	N.D.
Hexachlorobutadiene.....	0.10	N.D.
Hexachlorocyclopentadiene.....	0.10	N.D.
Hexachloroethane.....	0.10	N.D.
Indeno[1,2,3-cd]pyrene.....	0.10	N.D.
Isophorone.....	0.10	N.D.
2-Methylnaphthalene.....	0.10	N.D.
2-Methylphenol.....	0.10	N.D.
4-Methylphenol.....	0.10	N.D.
Naphthalene.....	0.10	N.D.
2-Nitroaniline.....	0.50	N.D.
3-Nitroaniline.....	0.50	N.D.
4-Nitroaniline.....	0.50	N.D.
Nitrobenzene.....	0.10	N.D.
2-Nitrophenol.....	0.10	N.D.
4-Nitrophenol.....	0.50	N.D.
N-Nitrosodiphenylamine.....	0.10	N.D.
N-Nitrosodi-n-propylamine.....	0.10	N.D.
Pentachlorophenol.....	0.50	N.D.
Phenanthrene.....	0.10	0.16
Phenol.....	0.10	N.D.
Pyrene.....	0.10	0.29
1,2,4-Trichlorobenzene.....	0.10	N.D.
2,4,5-Trichlorophenol.....	0.50	N.D.
2,4,6-Trichlorophenol.....	0.10	N.D.

Surrogate Standards	Percent Recovery:	Control Limits	Surrogate Standards	Percent Recovery:	Control Limits
2-Fluorophenol	65	25-121	Nitrobenzene-d5	74	23-120
Phenol-d6	75	24-113	2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	73	19-122	p-Terphenyl-d14	81	18-137

The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great West Bank
 Sample Descript: Method Blank
 Analysis Method: EPA 8270
 Sample Number: BLK102094

 Extracted: Oct 20, 1994
 Analyzed: Oct 25, 1994
 Reported: Oct 26, 1994

SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Acenaphthene.....	0.10	N.D.
Acenaphthylene.....	0.10	N.D.
Aniline.....	0.10	N.D.
Anthracene.....	0.10	N.D.
Benzidine.....	0.25	N.D.
Benzoic Acid.....	0.50	N.D.
Benz[a]anthracene.....	0.10	N.D.
Benzo[b]fluoranthene.....	0.10	N.D.
Benzo[k]fluoranthene.....	0.10	N.D.
Benzo[g,h,i]perylene.....	0.10	N.D.
Benzo[a]pyrene.....	0.10	N.D.
Benzyl alcohol.....	0.10	N.D.
Bis(2-chloroethoxy)methane.....	0.10	N.D.
Bis(2-chloroethyl)ether.....	0.10	N.D.
Bis(2-chloroisopropyl)ether.....	0.10	N.D.
Bis(2-ethylhexyl)phthalate.....	0.50	N.D.
4-Bromophenyl phenyl ether.....	0.10	N.D.
Butyl benzyl phthalate.....	0.10	N.D.
Carbazole.....	0.10	N.D.
4-Chloroaniline.....	0.10	N.D.
2-Chloronaphthalene.....	0.10	N.D.
4-Chloro-3-methylphenol.....	0.10	N.D.
2-Chlorophenol.....	0.10	N.D.
4-Chlorophenyl phenyl ether.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenz[a,h]anthracene.....	0.10	N.D.
Dibenzofuran.....	0.10	N.D.
Di-n-butyl phthalate.....	0.50	N.D.
1,3-Dichlorobenzene.....	0.10	N.D.
1,4-Dichlorobenzene.....	0.10	N.D.
1,2-Dichlorobenzene.....	0.10	N.D.
3,3-Dichlorobenzidine.....	0.50	N.D.
2,4-Dichlorophenol.....	0.10	N.D.
Diethyl phthalate.....	0.10	N.D.
2,4-Dimethylphenol.....	0.10	N.D.
Dimethyl phthalate.....	0.10	N.D.
4,6-Dinitro-2-methylphenol.....	0.50	N.D.
2,4-Dinitrophenol.....	0.50	N.D.

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great West Bank Sample Descript: Method Blank Analysis Method: EPA 8270 Sample Number: BLK102094	Extracted: Oct 20, 1994 Analyzed: Oct 25, 1994 Reported: Oct 26, 1994
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SEMI-VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
2,4-Dinitrotoluene.....	0.10	N.D.
2,6-Dinitrotoluene.....	0.10	N.D.
Di-n-octyl phthalate.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	0.10	N.D.
Hexachlorobenzene.....	0.10	N.D.
Hexachlorobutadiene.....	0.10	N.D.
Hexachlorocyclopentadiene.....	0.10	N.D.
Hexachloroethane.....	0.10	N.D.
Indeno[1,2,3-cd]pyrene.....	0.10	N.D.
Isophorone.....	0.10	N.D.
2-Methylnaphthalene.....	0.10	N.D.
2-Methylphenol.....	0.10	N.D.
4-Methylphenol.....	0.10	N.D.
Naphthalene.....	0.10	N.D.
2-Nitroaniline.....	0.50	N.D.
3-Nitroaniline.....	0.50	N.D.
4-Nitroaniline.....	0.50	N.D.
Nitrobenzene.....	0.10	N.D.
2-Nitrophenol.....	0.10	N.D.
4-Nitrophenol.....	0.50	N.D.
N-Nitrosodiphenylamine.....	0.10	N.D.
N-Nitrosodi-n-propylamine.....	0.10	N.D.
Pentachlorophenol.....	0.50	N.D.
Phenanthrene.....	0.10	N.D.
Phenol.....	0.10	N.D.
Pyrene.....	0.10	N.D.
1,2,4-Trichlorobenzene.....	0.10	N.D.
2,4,5-Trichlorophenol.....	0.50	N.D.
2,4,6-Trichlorophenol.....	0.10	N.D.

Surrogate Standards	Percent Recovery:	Control Limits	Surrogate Standards	Percent Recovery:	Control Limits
2-Fluorophenol	60	25-121	Nitrobenzene-d5	72	23-120
Phenol-d6	62	24-113	2-Fluorobiphenyl	55	30-115
2,4,6-Tribromophenol	57	19-122	p-Terphenyl-d14	74	18-137

The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL, Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

Client Project ID: Great West Bank
 Sample Matrix: Soil
 Analysis Method: EPA 8270
 Units : mg/kg (ppm)
 QC Sample #: 410-0995

Analyst : D. Harmon
 Extracted: Oct 20, 1994
 Analyzed: Oct 25, 1994
 Reported: Oct 26, 1994

MATRIX SPIKE QUALITY CONTROL DATA REPORT

Analyte	Sample Result	Spike Conc. Added	Spike Result	Spike % Recovery	Spike Dup. Result	Spike Duplicate % Recovery	Relative % Difference
Phenol	N.D.	9.0	6.4	71% (36 -137%)	7.5	83% (36 -137%)	16% (60%)
2-Chlorophenol	N.D.	9.0	5.4	60% (39 -114%)	6.4	71% (39 -114%)	17% (59%)
1,4-Dichloro-benzene	N.D.	4.5	2.1	47% (23 -115%)	2.9	64% (23 -115%)	32% (60%)
N-Nitroso-di-n-propylamine	N.D.	4.5	2.7	60% (33 -142%)	3.3	73% (33 -142%)	20% (29%)
1,2,4-Trichloro-benzene	N.D.	4.5	2.4	53% (36 -119%)	3.1	69% (36 -119%)	25% (45%)
4-Chloro-3-methylphenol	N.D.	9.0	6.4	71% (44 -117%)	7.3	81% (44 -117%)	13% (64%)
Acenaphthene	N.D.	4.5	2.9	64% (42 -115%)	3.1	69% (42 -115%)	7% (19%)
4-Nitrophenol	N.D.	9.0	5.6	62% (33 -99%)	6.3	70% (33 -99%)	12% (65%)
2,4-Dinitro-toluene	N.D.	4.5	3.3	73% (20 -124%)	3.7	82% (20 -124%)	11% (27%)
Pentachloro-phenol	N.D.	9.0	5.5	61% (21 -124%)	6.1	68% (21 -124%)	10% (59%)
Pyrene	N.D.	4.5	4.1	91% (46 -142%)	4.4	98% (46 -142%)	7% (14%)

Control Limits in Parentheses

NORTH CREEK ANALYTICAL Inc.

% Recovery:

$$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$$

x 100

Relative % Difference:

$$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$$

x 100

Shannon Stowell
 Project Manager

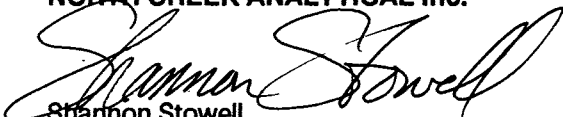
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great West Bank Sample Descript: NORTH H2O Sample Matrix: Soil Sample Number: 410-0995	Sampled: Oct 19, 1994 Received: Oct 19, 1994 Digested: Oct 20, 1994 Analyzed: Oct 27, 1994 Reported: Oct 28, 1994
---	--	---

METALS ANALYSIS

Analyte	EPA Method	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Chromium.....	6010	0.50	13
Copper.....	6010	1.0	6.7
Zinc.....	6010	1.0	59

Analytes reported as N.D. were not detected above the stated Reporting Limit.
The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Daryl Petrarca	Client Project ID: Great West Bank Sample Descript: Method Blank Sample Matrix: Soil Sample Number: BLK102094	Digested: Oct 20, 1994 Analyzed: Oct 27, 1994 Reported: Oct 28, 1994
---	--	--

METALS ANALYSIS

Analyte	EPA Method	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Chromium.....	6010	0.50	N.D.
Copper.....	6010	1.0	N.D.
Zinc.....	6010	1.0	1.8

Analytes reported as N.D. were not detected above the stated Reporting Limit.
 The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Daryl Petrarca

 Client Project ID: Great West Bank
 Sample Matrix : Soil
 Units: mg/kg (ppm)

 Analyst: T. Fitzgibbon
 A. Shephard

 Digested: Oct 20, 1994
 Reported: Oct 28, 1994

METALS QUALITY CONTROL DATA REPORT

ANALYTE	Cr	Cu	Zn
---------	----	----	----

EPA Method:	6010	6010	6010
Date Analyzed:	Oct 27, 1994	Oct 27, 1994	Oct 27, 1994

ACCURACY ASSESSMENT

LCS Spike Conc. Added:	50	50	50
LCS Spike Result:	33	37	31
LCS Spike % Recovery:	66	74	62
Upper Control Limit:	117	109	121
Lower Control Limit:	61	79	60
Matrix Spike Sample #:	410-1061	410-1061	410-1061
Matrix Spike % Recovery:	70	73	62

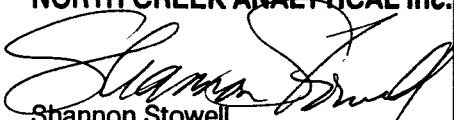
PRECISION ASSESSMENT

Sample #:	410-1061	410-1061	410-1061
Original:	6.7	13	44
Duplicate:	7.6	13	46
Relative % Difference:	Q-5	0.0	4.4

NORTH CREEK ANALYTICAL Inc.

Please Note:

Q-5 = RPD values are not reported at sample concentrations < 10 X the Reporting Limit.


 Shannon Stowell
 Project Manager

DOCUMENT 2

Dalton, Olmsted & Fuglevand, Inc. *Environmental Consultants*

19017 120th Avenue N.E., Suite 107 • Bothell, Washington 98011
Telephone (206) 486-7905 (FAX 486-7651)

FAX MEMORANDUM(12 pages)

TO: Daryl Petrarca/Kurt Groesch - AGRA

FROM: Matthew Dalton

DATE: November 3, 1994

SUBJECT: Bellefield Office Park
Bellevue, Washington

REF. NO: HEW-020 (sumltr.doc)

cc: Don Jefferson - Spieker Properties
Steve Mitchell - Great Western Bank

This memorandum presents our evaluation of the available data and recommendations to address environmental issues as part of the property transaction for the referenced site. The discussion in this memorandum is based on the sediment, water quality, and soil quality data received from North Creek Analytical who analyzed samples collected by AGRA.

This memorandum has been prepared using generally accepted practices for the nature of the work at the time and locality in which the work was completed. Our work relies on the data provided by AGRA and North Creek Analytical and assumes that this data is representative of the sampling and site conditions. This memorandum has been prepared for the exclusive use of Spieker Properties for specific application to the project site and purpose. No other warranty, expressed or implied, is made.

PROJECT BACKGROUND

The Bellefield Office Park was constructed over a filled in peat bog and is surrounded by the Mercer Slough (Figure 1). Structures constructed on the site are pile supported. The areas surrounding the buildings (e.g. parking lots, roadways etc.) were generally constructed over a "floating mat" of wood debris (hog fuel). Portions of the site, in the past, were used for landfilling of primarily residential demolition waste. Based on the sites use as a landfill, the subject property was reviewed by the Washington State Department

of Ecology and the Environmental Protection Agency. In the normal course of their review of the landfilling activities, the respective agencies determined that no additional actions were required.

During the due diligence phase of the referenced real estate transaction, an employee (Randy Bartl) of the property management company raised concerns about some of the previous filling operations (since 1978) with which he was familiar. Interviews with Mr. Bartl by Spieker Properties and AGRA indicated the possible presence of suspect subsurface materials on several portions of the site. The interviews with Mr. Bartl formed the basis for AGRA to develop a sampling and analysis program to assist in addressing these concerns. The agreed upon work program is outlined in AGRA's proposed letter dated September 26, 1994 as modified by recommendations in our memorandum dated October 12, 1994. The sampling program has been implemented and the results are discussed below.

DATA SUMMARY

Surface Water Sampling in Mercer Slough: Water samples were obtained from the locations shown on Figure 1. The samples were analyzed for a variety of constituents as listed below:

- pH
- Petroleum Hydrocarbons (WTPH-DX)
- Volatile Organic Compounds (8240)
- Semivolatile Organic Compounds (8270)
- Pesticides/PCBs (8081)
- Phenols (420.1)
- Metals (6010/7000)

The results are summarized on Table 1. As indicated, no constituents were detected above the laboratory reporting limits. The pH was measured at 7.2 in both the upstream and downstream samples.

Bottom Sediment Sampling in Mercer Slough: Three samples of sediments immediately beneath the surface water of the slough were obtained upstream and downstream of the site (Figure 1). The downgradient (south) sediment sample is described by AGRA as being composed of "silts, clays & organics". Two upgradient sediment samples were collected. One sample is described as a clean sand while the second sample is described as being similar to the downgradient sediment sample (composed of silts, clays & organics). The samples were analyzed for a similar range of constituents as were conducted for the slough water samples as summarized in Table 1.

- The pH of the downgradient sediment sample is reported to be 6.6. This pH is slightly acidic (a pH of 7 is neutral) which is consistent with the peaty environment in which the sample was obtained.
- No volatile organic compounds or phenols were detected in the downgradient sediment sample. We assume that the lack of volatile or phenol detections in this sample is the reason the upgradient sediment samples were not analyzed for these constituents.
- Several metals were detected in the downgradient sediment sample (chromium, copper, and zinc). The reported metal concentrations are relatively low and are well below MTCA - Method B cleanup levels for residential sites (Ecology 1994) as summarized below:

	Sediment Conc. (mg/kg)	Cleanup Level (mg/kg)
Chromium	38	400
Copper	16	2960
Zinc	37	2400

- Relatively high petroleum hydrocarbon concentrations (2,300 to 2,900 mg/kg) were detected in the upgradient and downgradient fine-grained (silt, clay & organic) sediment samples. This limited data suggests that the source of the hydrocarbons maybe "regional" in nature. A possible source of the hydrocarbons is runoff from area parking lots and roadways.
- Several semivolatile organic compounds were detected, mostly polycyclic aromatic hydrocarbons (PAHs), at concentrations less than 0.5 mg/kg. Lower concentrations of these constituents were detected in the downgradient sample as compared to the upgradient sample. The possible source of these compounds is area stormwater runoff from roadways and parking lots.
- No PCBs were detected in the sediment samples. However, low concentration detections of dieldrin, heptachlor, and chlordane were reported. Chlordane was detected in the upgradient sediment sample while dieldrin and heptachlor were detected in the downgradient sediment samples. The reported pesticide concentrations are relatively low and are well below MTCA - Method B cleanup levels for residential sites (Ecology 1994) as summarized below:

	Sediment Conc. (mg/kg)	Cleanup Level (mg/kg)
Dieldrin	0.0037	0.063
Heptachlor	0.0062	0.222

Chlordane 0.0046 0.769

Site Ground-Water Sampling: To assist in addressing the issues raised by Randy Bartl, a series of well points were installed by AGRA at the locations shown on Figure 1. A description of the proposed locations of the well points based on our understanding of conversations that Spieker Properties had with Mr. Bartl are contained in the memorandum by Dalton, Olmsted & Fuglevand, Inc. dated October 12. We understand that AGRA visited the site with Mr. Bartl to assure that well points were installed at the locations shown on the two photographs which indicate the possible presence of oily material. It is our understanding that Mr. Bartl was able to locate the areas shown on the photographs and that well points were installed within 10 to 15 feet of the subject locations, based on a conversation with Daryl Petrarca of AGRA.

The well points were installed and sampled by AGRA. The samples were submitted to North Creek Analytical (Bothell, WA) for analysis for the following constituents:

- Petroleum Hydrocarbons (WTPH-DX)
- Volatile Organic Compounds (8021)
- Pesticides/PCBs (8081)
- Polycyclic Aromatic Hydrocarbons (8310 with selected GC/MS confirmation)

The results of the analyses are summarized in Tables 2 and 3.

- Petroleum hydrocarbons were reportedly detected in all the ground water samples. Diesel range hydrocarbons were detected in all the well points while heavier oil hydrocarbons were detected in nine of the sixteen well points. The MTCA Method A ground water cleanup level for petroleum hydrocarbons is 1 mg/l. This concentration was exceeded in wells MW-2, MW-3, MW-6, MW-7, MW-10, and MW-14.

Interpretation of the data summarized in Table 2 is complicated by petroleum hydrocarbons being detected in a rinsate blank of a portion the 2-inch steel riser pipe used for the wells. The laboratory reported a diesel range hydrocarbon concentration of 4.1 mg/l and a heavy oil concentration of 8.8 mg/l in one of two rinsate blanks. The laboratory also reported that a "bead" of oil was observed to be present in the rinsate sample bottle. No hydrocarbons were detected in a rinsate blank of a portion of the 1.5-inch pipe used for the well points. However, the reported detection limits (diesel - 2.5 mg/l; heavy oil - 7.5 mg/l) are high because a sufficient volume of sample was not submitted to the laboratory for analysis. The results of the rinsate blank testing raise the possibility that some of the hydrocarbons detected in the well points could have been added by oil on the pipe.

- Volatile Organic Compounds were generally not detected in the water samples. However, naphthalene was detected in six of the well points at concentrations ranging between 1.4 ug/l and 16 ug/l. Naphthalene is a typical component of diesel and some other fuels and oils. The detected concentrations are below the MTCA - Method B ground-water cleanup level of 32 ug/l and the Cleanwater Act fresh-water chronic criteria of 620 ug/l.
- Polycyclic Aromatic Hydrocarbons (PAHs), not including naphthalene which is discussed above, were detected in samples from wells MW-2 and MW-3 (see Tables 2 and 3). The detected PAHs include acenaphthene, benzo(ghi)perylene, benzo(k)fluoranthene, fluoranthene, phenanthrene, and pyrene. With the exception of benzo(k) fluoranthene, the PAH concentrations meet available MTCA cleanup criteria and the available freshwater quality criteria.
- Pesticides and PCBs were detected in two of the sixteen wells; MW-2 and MW-6. The pesticides 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT, and the PCBs 1242, 1254, and 1260 were detected in well MW-2 while 4,4'-DDD and PCB-1254 were detected in well MW-6. As summarized in Table 2, 4,4'-DDD and 4,4'-DDE, meet the available MTCA cleanup and freshwater quality criteria. However, the freshwater quality criteria for 4,4'-DDT and the MTCA ground-water cleanup criteria are exceeded in wells MW-2 and MW-6.

Site Soil Sampling: AGRA collected nine soil samples from five well point locations and from four hand auger locations. The samples were analyzed for petroleum hydrocarbons using method WTPH-DX. The results are summarized on the North Creek Analytical Data sheet attached as Table 4. The highest concentrations were detected in well point WP-15 and SS-7.

As indicated on the table, petroleum hydrocarbons were detected in all the samples. The diesel range hydrocarbon concentrations ranged between 40 and 730 mg/kg while the heavier oil concentrations ranged between 240 and 920 mg/kg. Conversations with the laboratory indicate the possibility that at least some of the reported detections may be caused by interferences by "naturally occurring oils". The reported concentrations are above the typical total petroleum hydrocarbon cleanup level of 200 mg/kg.

OVERALL FINDINGS

- The sediment and surface water data indicate that activities on the Bellefield Office Park have not significantly impacted surface water and sediment in the Mercer Slough. No contaminants were detected in the slough water samples and the sediment quality of the upgradient and downgradient appears similar.

- The highest TPH concentrations (greater than 1 mg/l) were detected within the southern portion of the office park in wells MW-2, MW-3, MW-6, MW-7, MW-10, and MW-14. Some of the detected TPH concentrations may be related to oil present in the pipe used for the well points.
- The ground-water quality data indicates a source of pesticide and PCB contamination exists in the vicinity of MW-2 and MW-3. This contamination does not appear to have adversely impacted sediment and water quality in the Mercer Slough based on the limited sediment and surface water sampling (e.g. PCBs were not detected in the surface water or sediment samples). However, additional data is required to assess the extent of the PCBs and pesticides.
- Petroleum hydrocarbons were detected in all the collected soil samples. Some of the apparent detections may be associated with analytical method interferences of naturally occurring organic material.

RECOMMENDATIONS FOR ADDITIONAL WORK

In our opinion, additional work is required as a result of the issues raised by the initial work completed by AGRA. Following are our recommendations to further address the environmental issues that have been identified for the site.

- Wells MW-2, MW-3, MW-6, MW-7, MW-8, MW-10, MW-11 and MW-14 should be reinstalled with clean oil-free pipe to reliability assess the presence of petroleum hydrocarbons in ground water. The wells should be resampled and analyzed for petroleum hydrocarbons using WTPH-DX. Appropriate pipe rinsate blanks should be collected. A sufficient volume of each sample should be collected to allow the laboratory to achieve their standard reporting limits.
- Five new well points should be installed at the locations shown on Figure 1 to assess the extent of TPHs and pesticides/PCBs in ground water. These well points should be installed using clean oil-free pipe and should be sampled for TPHs and pesticides/PCBs.
- Three auger borings to collect soil samples should be completed at the locations shown on Figure 1 to assess the material types and quality in the vicinity of MW-2. The boring should be drilled to a depth of approximately 20 feet. Soil samples should be collected with a 3-inch diameter split spoon sampler on 2.5 foot intervals. The samples should be described in detail, with an emphasis on detecting the presence of contaminated material (e.g. are the samples oily? etc.). All samples should be placed in appropriate containers for possible laboratory analysis. At least three samples from each boring should be analyzed for TPHs and pesticide/PCBs.

- Laboratory testing to attempt to identify the impact of naturally occurring organic material on the TPH analyses in soil and water should be conducted. We understand that this work is underway and that North Creek Analytical has been directed to assess the impact of using silica gel to remove organic material from several soil and water extracts. This work may suggest changes to the analytical approach for TPHs.

Please call if you have any questions.

Dalton, Olmsted & Fuglevand, Inc.

Matthew G. Dalton

Matthew G. Dalton
Sr. Consulting Hydrogeologist

attachments

testing of the cutting out

testing of the peat

continuous sampling of 3 borings?
at 2 1/2 ft intervals

Select samples based on visual appearance
based on ~~IVS~~, OVM

0008/012

D.O. & F

11/04/94 09:53 FAX 206 486 7651

11/04/94

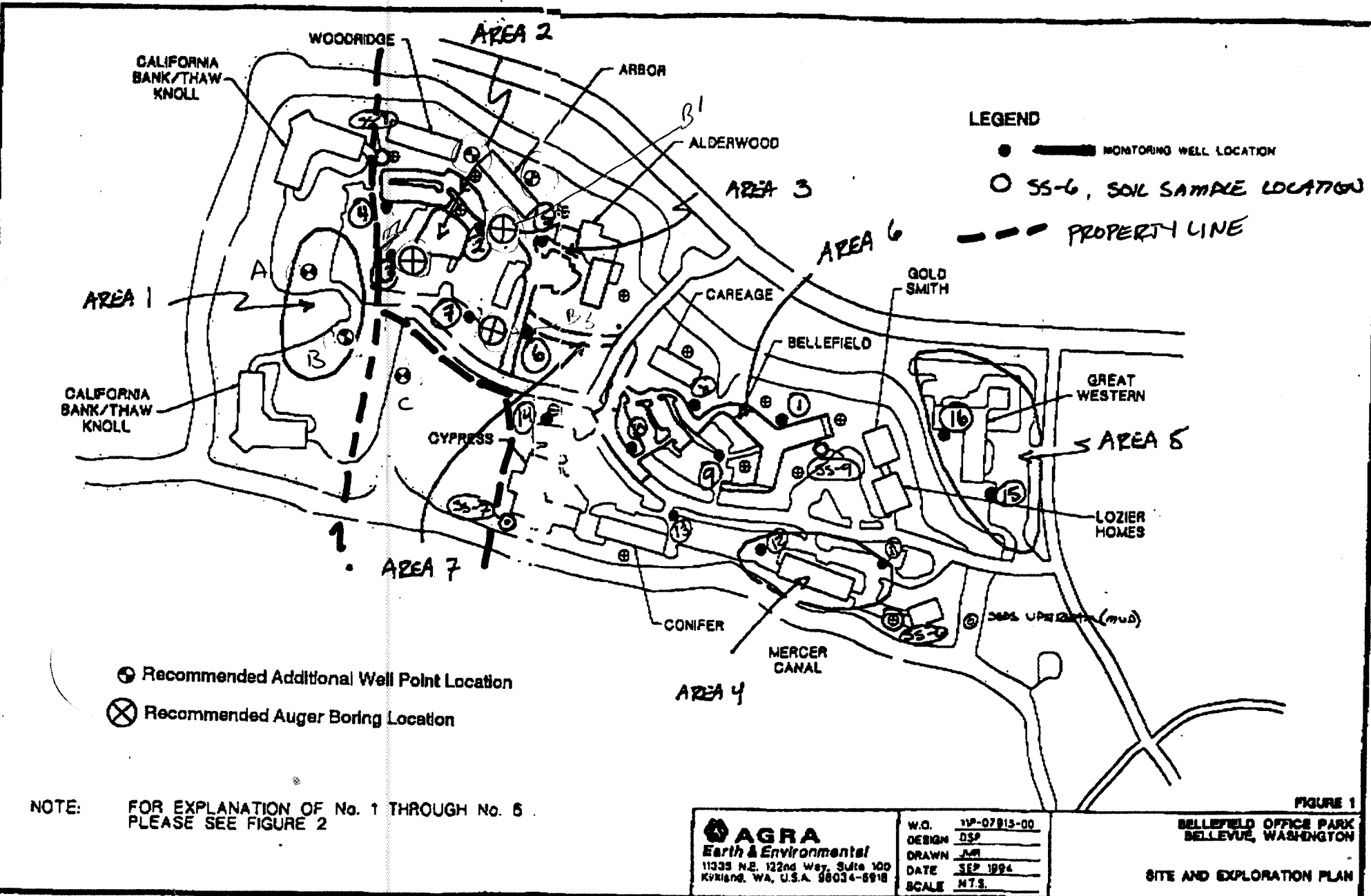


FIGURE 1

Figure 1

TABLE 1 - Results of Mercer Slough Bottom Sediment and Surface Water Analyses

Bellevue Office Park
Bellevue, Washington

Description	Sediment Samples (mg/kg)			Surface Water Samples (mg/l)	
	Upgradient(1)	Upgradient(2)	Downgradient(3)	West Water	East Water
pH	clean sand	silt, clays, organics	6.6	7.2	7.2
WTPH-DX					
Diesel	18	480	2400	<0.25	<0.25
Heavy Oil	110	2900	2300	<0.75	<0.75
Volatiles (8240)	—	—	nd	nd	nd
Semivolatiles (8270)					
Benzic Acid	<0.5	—	1.9	<0.01	<0.01
Benzo(a)anthracene	0.11	—	<0.1	<0.005	<0.005
Benzo(b)fluoranthene	0.21	—	<0.1	<0.005	<0.005
Benzo(ghi)perylene	0.1	—	<0.1	<0.005	<0.005
Benzo(a)pyrene	0.14	—	1.8	<0.005	<0.005
Chrysene	0.18	—	<0.1	<0.005	<0.005
Fluoranthene	0.29	—	<0.1	<0.005	<0.005
Phenanthrene	0.16	—	<0.1	<0.005	<0.005
Pyrene	0.29	—	<0.1	<0.005	<0.005
Others	nd	—	nd	nd	nd
Pesticides/PCBs (8081)					
Dieldrin	<0.002	—	0.0037	<0.00007	<0.00007
Heptachlor	<0.001	—	0.0062	<0.00004	<0.00004
Chlordane (technical)	0.0046	—	<0.001	<0.00015	<0.00015
Others	nd	—	nd	nd	nd
Phenols (420.1)	—	—	<0.5	<0.025	<0.025
Metals (6010/7000)					
Chromium	—	—	38	<0.01	<0.01
Copper	—	—	18	<0.02	<0.02
Zinc	—	—	37	<0.01	<0.01

Notes:

- (1) - North H2O (soil) - on laboratory sheets
- (2) - sed-upstream - on laboratory sheets
- (3) - South Soil on laboratory sheets

TABLE 2 - SUMMARY OF GROUND-WATER QUALITY DATA

Bellevue Office Park
Bellevue, Washington

Well	WTPH-DX (mg/l)		Volatiles (8021) (ug/l)		Sum PAHs (ug/l)	PCBs/Pest.- 8081 (ug/l)					
	Diesel	Heavy Oil	Naphthalene	Others		4,4'-DDD	4,4'-DDE	4,4'-DDT	PCB-1242	PCB-1254	PCB-1260
MW-1	0.34	<0.75	<1	nd	na	<0.08	<0.08	<0.18	<1	<1	<1
MW-2	4	18	<1	nd	20.1(3)	0.34	0.043	0.12	1.6	1.7	0.42
MW-3	1.1	1.7	8.2	nd	3.6(3)	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-4	0.37	<0.75	1.9	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-5	0.27	<0.75	1.4	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-6	2.1	4.8	2.4	nd	nd(1)	0.042	<0.03	<0.09	<0.1	0.16	<0.1
MW-7	1.7	4.2	16	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-8	0.89	0.75	<1	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-9	0.78	0.77	2.8	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-10	2.3	5.9	<1	nd	nd	NA	NA	NA	NA	NA	NA
MW-11	0.63	0.96	<1	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-12	0.53	<0.75	<1	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-13	0.74	<0.75	<1	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-14	0.94	1.3	<1	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-15	0.81	<0.75	<1	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1
MW-16	0.44	<0.75	<1	nd	nd	<0.04	<0.03	<0.09	<0.1	<0.1	<0.1

Cleanup Levels(2)											
MTCA Method A	1	1	na	—	(3)	na	na	0.1	0.1	0.1	0.1
MTCA Method B	na	na	32	—	(3)	0.37	0.28	0.28	0.01	0.01	0.01
Freshwater Criteria(4)	na	na	620	—	(3)	na	1050(5)	0.001	0.014(6)	0.014(6)	0.014(6)

Notes:

- (1) - Matrix interference caused relatively high reporting limit
(2) - MTCA Levels based on drinking water exposure
(3) - see Table 3
(4) - Freshwater chronic criteria
(5) - Freshwater acute criteria
(6) - For PCB mixtures
na - not available
nd - not detected

TABLE 3 - Results of PAH Analyses in Ground-Water

Bellevue Office Park
Bellevue, Washington

	MW-2		MW-3		MTCA-Method B (ug/l)	Freshwater Criteria (1)
	8310	8270	8310	8270		
Acenaphthene	<5	<5	<5	5.7	980	520
Benzo(ghi) perylene	2.1	<5	<0.1	<5	na	na
Benzo(k)fluoranthene	0.98	<5	<0.1	<5	0.1(4)	na
Fluoranthene	7.7	5.8	1.8	<5	640	3980(2)
Phenanthrene	<5	5.3	<5	<5	na	6.3(3)
Pyrene	9.3	10.2	1.8	<5	480	na

(1) - Freshwater Chronic Criteria

(2) - Freshwater Chronic Criteria not available. Indicated value is the freshwater acute criteria

(3) - Proposed Criterion

(4) - MTCA Method A Criteria



TABLE 4

18939 170th Avenue N.E., Suite 101 • Bothell, WA 98011 9508 (206) 481-4211 • FAX 481-2992
 East 11115 Montgumery, Suite B • Spokane, WA 99207-4776 (509) 324-0300 • FAX 324-0300
 9405 S.W. Nimbus Avenue • Beaverton, OR 97004 7142 (503) 613-8200 • FAX 644-2202

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Hob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Soil Analysis Method: WTPH-D Extended First Sample #: 410-1388	Sampled: Oct 21, 1994 Received: Oct 24, 1994 Extracted: Oct 28, 1994 Analyzed: 10/31-11/1/94 Reported: Nov 1, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
410 1388	SS 1/WP-12	40	300	69
410-1389	SS-2/WP-14	46	290	58
410-1390	SS-3/WP-8	60	340	75
410-1391	SS-4/WP-10	130	490	64
410-1392	SS-5/WP-15	730	240	70
410-1393	SS-6	95	710	68
410-1394	SS-7	110	920	65
410-1395	SS-8	78	390	63
410-1396	SS-9	07	500	69
BLK102894	Method Blank	N.D.	N.D.	68

Reporting Limit:	10	25
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2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.
 Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).
 Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL, INC.

Shannon Stowell
 Shannon Stowell
 Project Manager

4101388.PZA <4>

DOCUMENT 3

15 November 1994
11-09378-02

Great Western Bank, A Federal Savings Bank
VIA Facsimile - 415-321-3370
818-349-2734

Attention: Mr. Steve Mitchell

Subject: Recommendations (DRAFT)
Bellefield Office Park Project
Bellevue, Washington

Dear Mr. Mitchell:

This memorandum contains AGRA Earth & Environmental, Inc.'s (AGRA) comments and recommendations presented in response to Mr. Matt Dalton's, 3 November 1994, Memorandum concerning environmental characterization results obtained by AGRA during the above referenced project.

BACKGROUND

Preliminary subsurface characterization work was performed by AGRA on the subject property. The details of this work and resultant chemical screening data are summarized in Mr. Dalton's Memorandum which is provided as Attachment A. (DOCUMENT 2)

The exploration approach and analytical methods selected for this project were intended to provide preliminary screening data from a large physical area with unknown chemical parameters.

SUMMARY OF FINDINGS

The results of AGRA's preliminary environmental characterization work thus far suggests:

- No significant evidence of widespread contaminant types and concentrations typically associated with a hazardous waste landfill, which supports the subject site's reported history of being filled with residential demolition debris;

- No significant evidence of off-site, hydrologically downgradient contaminant impacts emanating from the subject property, that would attract the immediate concern of environmental regulatory agencies;
- A potential source of pesticide (4,4'-DDT) and PCB contamination may exist in the area of monitoring wells MW-2/MW-3;
- The possible presence of elevated heavy end petroleum hydrocarbons in groundwater and soil samples obtained from, primarily, the southern portion of the subject property.

DISCUSSION

The explorations and analytical testing performed for this study were preliminary in nature and intended to screen for the presence of a wide variety of possible contaminants. Therefore analytical results obtained so far are more qualitative than quantitative in nature and, in our professional opinion, are not statistically valid, legally defensible data that would trigger regulatory agency reporting requirements. This opinion is based on the facts that:

1. Groundwater samples were obtained from temporary well points for screening and expediency purposes and were not strictly representative samples collected from more conventional monitoring wells;
2. Confirmatory sampling and analysis has not been performed;
3. Analytical testing methods (for petroleum hydrocarbons) approved by ECOLOGY and used in this study, are subject to chemical interferences from naturally occurring substances which may cause false positive readings;
4. Possible cross contamination impacts from the temporary well point sampling equipment may have influenced petroleum hydrocarbon concentrations exhibited by tested samples.

Given these facts an attempt at this time to report this preliminary data to a regulatory agency would probably be premature and unwarranted. Additional data collection which clarifies the issues discussed above may eventually trigger a reporting requirement as discussed below. It would be prudent to discuss this reporting issue with an experienced Washington State environmental attorney.

Data collected to date suggests that while serious widespread contamination does not appear to impact the general site or areas immediately downgradient from the site, a localized area of contamination may exist in the monitoring well MW-2 area of the parcel. The actual physical and chemical parameters of this apparent impacted area have not been fully characterized by our study, but results indicate that the area appears questionable.

With the exception of the elevated concentrations of 4,'DDT and PCB's exhibited in monitoring well MW-2's groundwater, it is unlikely that the Washington State Department of Ecology (ECOLOGY) would have unusual concerns over the property.

As the property now stands, with preliminary data indicating only borderline concentrations of these compounds, it is extremely unlikely that ECOLOGY would require an interim or mandated remediation of the property. However, given the data collected to date, ECOLOGY might be reluctant to provide another No Further Action letter for the property without further subsurface characterization data from the MW-2 area.

If the subject site is reported to ECOLOGY (which may become necessary if petroleum hydrocarbon, and 4,4'DDT concentrations observed in groundwater are confirmed by additional work) without this additional characterization data, it is possible to once again have the site become listed on ECOLOGY's Confirmed and Suspected Contaminated Sites (C&SCS) list. However, it is unlikely that the site would be given a ranking on the State's Ranked Hazardous Site List. The site would probably be listed because of the unknown extent of the potential problem at monitoring well MW-2.

To put this listing issue to perspective, properties with mildly stained parking lots have somehow (through misinformed environmental consultants probably) been placed on the C&SCS list. This same list contains highly contaminated sites undergoing multi-million dollar cleanups under State or Federal oversight. A full spectrum of sites in various stages of review, investigation or remediation, including independent cleanup of small sites regardless of their size or importance. C&SCS sites remain in regulatory limbo unless an owner enters into a ___ formal agreement with Ecology, or submits in Independent Remediation Report and pays \$1,000 or more to ECOLOGY for their review time and response (No Further Action) letter.

ECOLOGY actively pursues either independent, consent decree, or mandated clean-ups (depending upon the immediate threat to human health and the environment) on Ranked Hazardous Waste Sites, but at this time only has the funds and personnel to deal with a few seriously contaminated sites, while hundreds of other seriously contaminated sites await their attention. Most C&SCS sites are generally ignored by ECOLOGY because of lack of funds and personnel.

Lending institutions generally perceive and react to sites on either ECOLOGY list with the same degree of caution, making a listed site difficult to finance and market. The No Further Action Letter is about the only clearance of a site ECOLOGY is willing to provide. The No Further Action Letter provides some degree of comfort during property transfers and financial transactions but in reality is a fragile document as is demonstrated by Bellefield Office Park, which had such letters from both ECOLOGY and The EPA.

Even with these existing No Further Action Letters and the work accomplished by AGRA to date, it will probably be difficult to market the subject property without resolving the potential contaminant issues raised by your employee and suggested by the results of our characterization work on the site.

RECOMMENDATIONS

We believe it would be prudent to resolve questions associated with the property by continuing to characterize the potential environmental problem associated with the monitoring well MW-2 area, and resolving the petroleum hydrocarbon sample interference issues. Once these problems have more completely defined, either through determination of non-significance or remediation, it would be prudent to request another No Further Action Letter from ECOLOGY. This approach will aggressively remove any stigma now associated with the property based on uncertainty of environmental condition. It should be recognized that Ecology would typically require periodic groundwater monitoring on sites where the source of potential contamination cannot be completely removed or stabilized. After one to two years of quarterly monitoring indicating such off-site migration is not occurring, termination of such groundwater monitoring is typically allowed.

Mr. Dalton's suggested approach to further assessment of these issues, in our opinion is reasonable - and cost effective. His suggested bulleted items one and four are already in progress (at AGRA's expense). His suggested approach is intended to characterize the vertical and lateral extent of contamination in the MW-2 area to aid in determining if a possible contaminant source such as buried drums still exists on the property. This information is essential to acquire prior to using geophysical methods such as ground penetrating radar to narrow down the focus of exploration and removal of possible drums reported in the area by your employee.

Concerning the potential petroleum hydrocarbon presence on the property, it is possible that citrus based (non-petroleum hydrocarbon) degreasers used to clean well casings contributed to observed petroleum hydrocarbons in the rinsate blank. Mr. Dalton's bulleted item four testing will hopefully resolve that issue.

Great Western Bank, A Federal Savings Bank
15 November 1994
11-09378-02
Page 5

In any event, the exhibited concentrations of petroleum hydrocarbons in the property appear relatively immobile, are typically heavy-end petroleum hydrocarbons of slight concern to regulators and are likely to naturally biodegrade over time. As discussed above, it is probable however that ECOLOGY would require groundwater monitoring to document that petroleum hydrocarbons are in fact immobile on the property.

At the request of Steve Mitchell, AGRA is currently creating a cost proposal to perform additional characterization work on the property. This proposal will be submitted to you by Thursday, 10 November 1994. We appreciate this opportunity to be of service. I can be contacted directly at (415) 731-3068.

Respectfully submitted,

AGRA Earth & Environmental, Inc.

Daryl S. Petrarca, R.E.A.
Associate

James S. Dransfield, P.E.
Senior Associate

DSP/JSD/lad

DOCUMENT 4



AGRA Earth &
Environmental, Inc.
11335 NE 122nd Way
Suite 100
Kirkland, Washington
U.S.A. 98034-6918
Tel (206) 820-4669
Fax (206) 821-3914

22 November 1994
11-09378-02

Great Western Bank, A Federal Savings Bank
285 Hamilton Avenue, Suite 325
Palo Alto, California 94301

Attention: Mr. Steve Mitchell

Subject: Analytical Results, Comments
Bellefield Office Park
11201 SE 8th Street
Bellevue, WA 98005

Dear Mr. Mitchell:

As per your request, AGRA Earth & Environmental Inc.(AGRA) is pleased to present this summary of analytical data collected during our most recent phase of characterization of the above referenced property. This characterization phase consisted of the re-installation and sampling of temporary monitoring well points MW-2, MW-3, MW-6, MW-7, MW-8, MW-10, MW-11, MW-14; new installation and sampling of temporary monitoring well points MW-17 and MW-18; and installation and sampling of soil borings B-1, B-2, and B-3. This phase of exploration was approved by Great Western Bank and accepted by Speiker Properties' consultant Mr. Matt Dalton of Dalton, Olmsted & Fuglevand, Inc. (DOF). Exploration work was performed on 11,12, November 1994.

Analytical results were submitted to AGRA from North Creek Analytical Laboratory (Bothell, WA) on 18, 21 November 1994. Temporary monitoring well point and soil boring locations are presented on Figure 1- Site and Exploration Plan. Analytical results are presented in Table 3.

SCOPE OF ANALYSES

All temporary monitoring well point groundwater samples were submitted for analysis by WTPH-DX for petroleum hydrocarbons. Samples from MW-10 and MW-11 were also submitted for analysis for PCBs and Pesticides by EPA Method 8080.



Soil samples obtained from Borings B-1,B-2,B-3 were submitted for analysis by:

- WTPH-DX for petroleum hydrocarbons;
- EPA Method 8080 for PCBs and Pesticides;
- EPA Method 8021 for Volatile Organic Compounds.

SOIL BORINGS B-1,B-2,& B-3 SOIL SAMPLE ANALYTICAL RESULTS

Petroleum Hydrocarbons

All submitted soil samples exhibited, upon testing by WTPH-DX, elevated diesel-heavy oil range petroleum hydrocarbons. In Boring B-1, samples B1/S3-7.5', B1/S6-15.0', B1/S7-17 respectively exhibited petroleum hydrocarbon concentrations ranging from 1,400 parts per million (ppm) diesel and 9,900 ppm heavy oil at an approximate depth of 7.5 feet, to 120 ppm diesel and 1,500 ppm heavy oil at an approximate depth of 15 feet, and 210 ppm diesel and 2,700 ppm heavy oil at an approximate depth of 17.5 feet. Borings B-2 and B-3 soil samples also exhibited similar petroleum hydrocarbon concentration ranges at similar depths (See Table 3). The Washington State Department of Ecology (ECOLOGY) Model Toxics Control Act (MTCA) Method A clean-up criteria for petroleum hydrocarbons in soils is 200 ppm.

Polychlorinated Biphenyls (PCBs)

Elevated PCBs were exhibited in soil samples obtained from an approximate depth of 7.5 feet in Boring B1; from an approximate depth of 20 feet in Boring B2; and approximate depths of 2.5, 7.5, and 17.5 feet in Boring B-3. However no reported concentrations exceeded current MTCA Method A clean-up criteria for soils. See Table 3 for PCB analytical results.

VOLATILE ORGANIC COMPOUNDS

No volatile organic compounds were detected in submitted soil samples.

TEMPORARY MONITORING WELL POINT GROUNDWATER SAMPLE ANALYTICAL RESULTS

WTPH-DX

All groundwater samples obtained from temporary monitoring wells sampled during this phase exhibited slightly elevated to moderately elevated diesel range and heavy oil range petroleum hydrocarbon concentrations. All groundwater samples exceed MTCA Method A clean-up levels of one part per million for total petroleum hydrocarbons. See Table 3 for a complete listing of groundwater sample analytical results.

PESTICIDES AND PCBS

Groundwater obtained from temporary monitoring well MW-10 exhibited an apparent PCB concentration of 0.41 parts per billion. This apparent concentration slightly exceeds the MTCA Method A clean-up standard of 0.1 parts per billion for PCBs in groundwater. No pesticides were detected during this sampling event.

PRELIMINARY DISCUSSION OF FINDINGS

Based on past and current characterization data collected to date from the subject site, we would conclude that the fill beneath the site consists of a typical heterogeneous mixture of construction/demolition and land clearing debris. Prior to the 1980's, such fills were not regulated, except that a soil cover was required. There is little evidence to suggest the presence of large volumes of a wide variety of more toxic contaminants usually associated with hazardous or dangerous waste. The most significant contaminant of concern appears to be heavy end petroleum hydrocarbon compounds. AGRA's studies also indicate minor concentrations of PCBs, PAHs, and pesticides are present in various locations within the site's soils and groundwater, indicating possible limited, undocumented disposal of these types of compounds may have occurred at, as of yet unknown, on or off-site locations in the past. The heavy end petroleum hydrocarbons (diesel-motor oil range) may be associated with carrier oils of the above mentioned compounds. As discussed below, the heavy end petroleum hydrocarbon results may be attributable, at least in part, to naturally occurring organics.

As discussed in earlier reports, there is some uncertainty among researchers as to the reliability or accuracy of Washington State approved analytical methods for identifying heavy end petroleum hydrocarbons such as diesel and heavy oil. Both EPA Method 418.1 and EPA Method 8015 extended (WTPH-DX) used for heavy end petroleum hydrocarbon analysis in this state may be subject to interferences by "naturally occurring oils" or subject to other chemical apparatus (gas chromatograph) problems as yet not completely understood by researchers. As of yet this question has not been satisfactorily resolved and may not be within the time frame of this project phase. We believe it would be prudent to resolve this question, if possible, before initiating any additional characterization activities (if needed) on the property. AGRA has requested assistance with this matter from the chemical laboratory Friedmann & Bruya (Seattle), nationally recognized experts in petroleum hydrocarbon identification and analyses techniques.

Once some degree of confidence is established on the reliability of petroleum hydrocarbon concentrations observed in groundwater samples collected from the property it will probably become necessary (within 90 days of confirmation) for the site owner to report these observed petroleum concentrations to state regulators. It would be prudent to discuss this issue with an experienced Washington State environmental attorney.

Whatever the potential influences of "interferences" and other uncertainty on the reliability of observed petroleum hydrocarbon concentrations there is evidence, namely the presence of naphthalene, and PCBs typically associated with oils exhibited in various groundwater samples, and petroleum hydrocarbon like odors noted by field personnel during drilling of borings B1, B2, and B3 and soil sample field screening, that heavy end petroleum hydrocarbons may be present on the property. These types of petroleum hydrocarbons are fairly immobile in the environment and likely will likely biodegrade over time.

The observed elevated total petroleum hydrocarbons (TPH) concentrations in soils from borings B1, B2, and B3 as well as previous shallow depth soil borings do suggest the existence of possible past or current source(s) of heavy end (diesel-motor oil range) petroleum hydrocarbons on or upgradient of portions of the subject property studied. Petroleum hydrocarbons appear to be widespread in vertical and lateral extent at least in the area of B1, B2, and B3. Apparent diesel and heavy oil TPH were observed from approximate depths of 2.5 to 20 feet in the borings. These borings are separated by approximately 150 to 200 feet in distance from each other.

Based on initial groundwater testing results, it was the intent of AGRA and DOF that these additional characterization studies would help document a relatively superficial and somewhat localized problem (MW-2, MW6, MW-7 area) on the subject property . Borings B1, B2, and B3 were intended to bracket and help evaluate a possible source area east of the Arbor building, where your employee had reported seeing possible buried 55 gallon drums. It appears however based on the soil samples obtained from these borings that petroleum hydrocarbon presence may be more pervasive than expected.

The amount of subsurface data collected to date is insufficient to identify possible on-site point sources (if any exist) given the apparent heterogeneity of fill materials, and the undefined localized direction of groundwater flow through these heterogeneous fill areas. Additionally, given previous analytical test results (upgradient Mercer Slough samples) indicating possible upgradient sources (street runoff, unknowns) of these types of compounds; and given that the subject property is located within a regional drainage to Lake Washington which increases its vulnerability to becoming a regional receptor of these types of compounds originating from off-site non-point sources; it may be very difficult to identify such past petroleum hydrocarbon sources on the property itself.

Originally, on-site characterization activities were agreed to by Great Western Bank to accommodate the needs and concerns of a potential purchaser of the property. It was perceived that if the purchaser's concerns could be addressed with environmental screening

of the property, such studies were probably warranted. Given the data collected to date AGRA feels Great Western Bank should at this time re-evaluate its position concerning additional testing on behalf of the of this purchaser, for the following reasons:

1. Additional characterization work on the property itself will likely only continue to identify a pervasive low-grade petroleum hydrocarbon presence across the property for the reasons addressed above. Such additional studies become costly for the limited definitive information they can provide. We anticipate that these incremental studies will also technically lead to a need for characterization of adjacent properties to evaluate the extent of apparent groundwater borne petroleum hydrocarbons on immediately adjacent southern properties. It is likely that offsite access agreements would take weeks or months to obtain.
2. As outlined by AGRA in earlier letters, environmental regulators are no longer interested in defining all the potential "hot spots" within a waste disposal landfill. Regulators are primarily concerned about toxic leachate and its impacts downgradient from a landfill location. The subject property has given no historical or current indications of being such a source of highly or even mildly toxic leachate to nearby surface waters. We believe time and money would be better spent demonstrating the lack of impacts of this property on the surrounding environment than continued micro-investigation of the property itself.
3. The current regulatory agency approved method of remediating landfills that are producing contaminated leachate is containment and groundwater monitoring. The property is situated in a natural containment setting (peat bog) with an affinity for adsorption of and eventually degrading petroleum hydrocarbons. The compounds observed in screening studies on the property are likely to stay highly immobile in their present locations. Over the long term, if no continued upstream sources continue to add petroleum hydrocarbons to the property, the site will probably passively remediate itself.
4. Current concerns about possible negative property impacts upon the environment, and potential office worker or property maintenance worker exposures may be addressed by Fate and Transport modeling and Risk Assessments if it should become necessary.

5. Given the hydrogeological setting of the property, a case might be made with regulators to merely periodically monitor adjacent Mercer Slough surface waters(if such long term monitoring might be required by regulators) rather than installing permanent monitoring wells for that purpose.


Given the short time frame to compose this response to analytical data received this discussion has been by necessity brief. We would be happy to discuss continued approaches to dealing with the property after you have evaluated Speiker Properties' response to this current data collection phase.

We appreciate the opportunity to be of service. Should you have any questions, please do not hesitate to call (206-820-4669).

Respectfully submitted,
AGRA Earth & Environmental Inc.



Daryl S. Petrarca R.E.A.
Associate



James S. Dransfield, P.E.
Senior Associate



EXPIRES 12/19/95

Enclosures: Figures - 1 & 2
Tables - 1, 2, & 3

DSP/JSD/clt

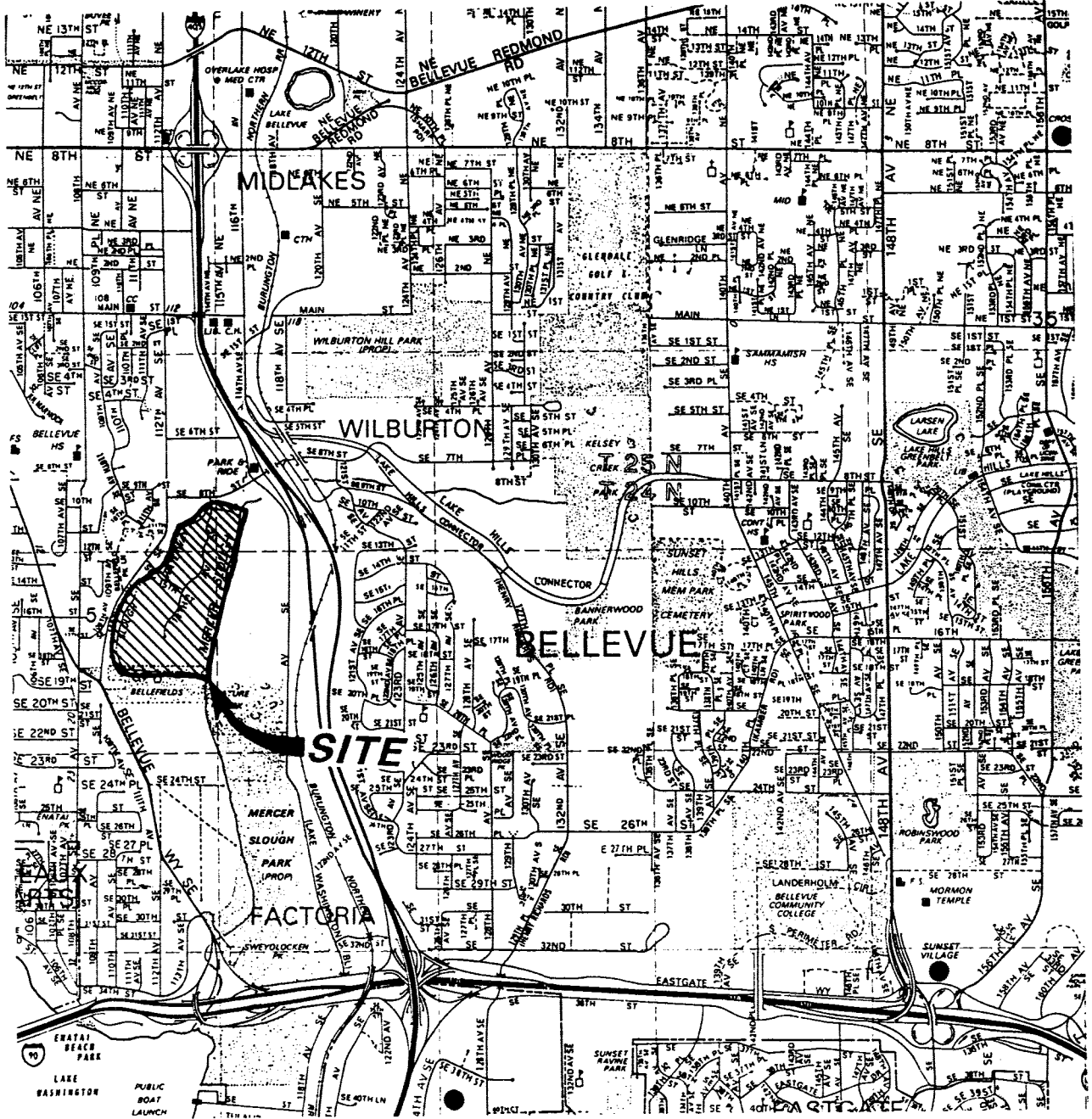


FIGURE 1

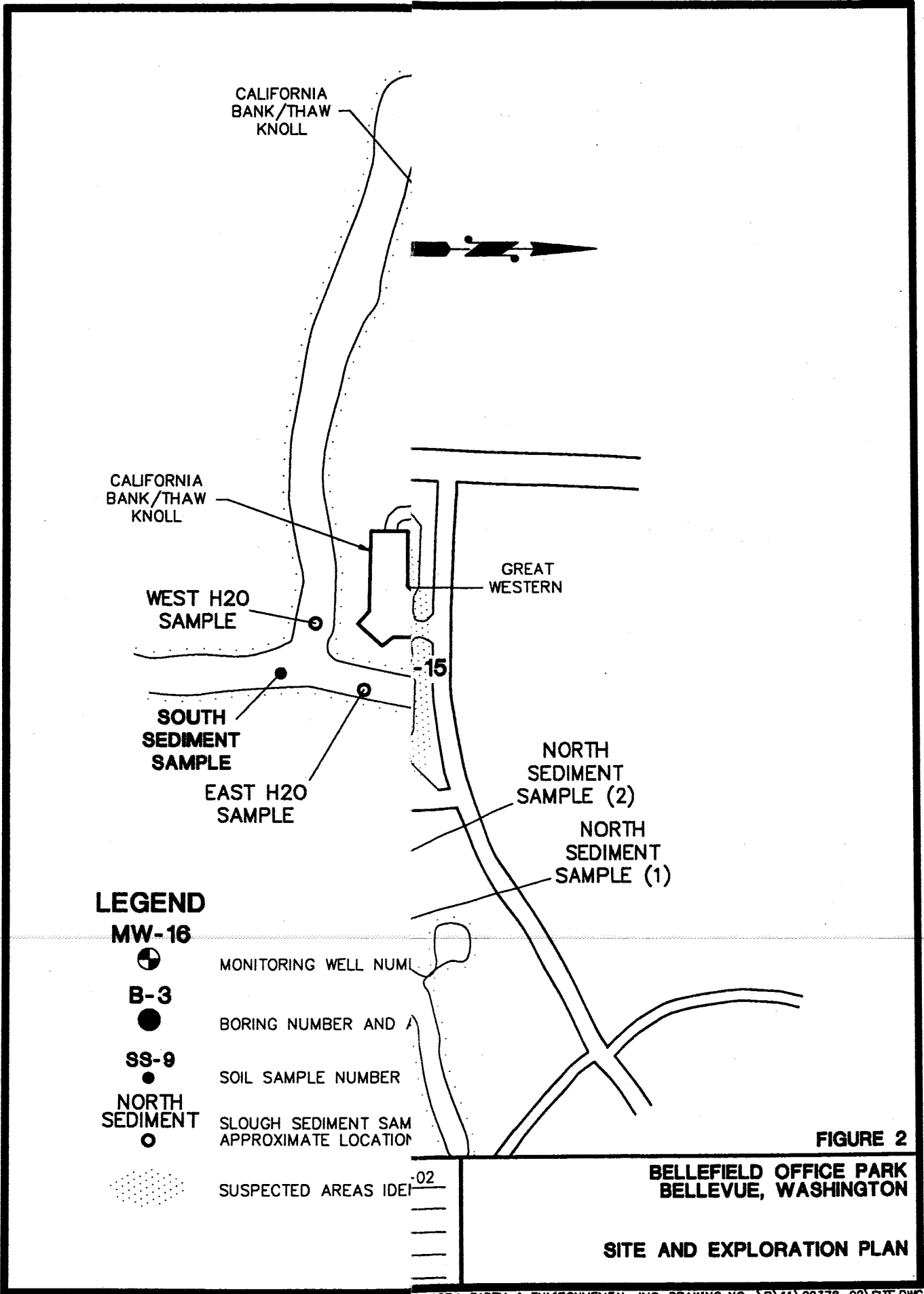
AGRA
Earth & Environmental

11335 N.E. 122nd Way, Suite 100
Kirkland, WA, U.S.A. 98034-6918

W.O.	11-09378-02
DESIGN	RFC
DRAWN	MJF
DATE	NOV 1994
SCALE	N.T.S.

**BELLEFIELD OFFICE PARK
BELLEVUE, WASHINGTON**

LOCATION MAP



Well Number:	WTPH-D EXTENDED (PPM)		POLYNUCLEAR AROMATIC HYDROCARBONS (8310) (PPB)				PESTICIDES/			PCB'S (8080) (PPB)		
	Diesel	Heavy oil	Benzo(ghi)pyrene	Benzo(k)fluoranthene	Fluoranthene	Pyrene	4,4'-DDD	4,4'-DDE	4,4'-DDT	PCB-1242	PCB-1254	PCB-1260
MW-1	0.34	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	4	16	2.1	0.98	7.7	9.3	0.34	0.043	0.12	1.5	1.7	0.42
MW-3	1.1	1.7	N.D.	N.D.	1.8	1.8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-4	0.37	ND	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-5	0.27	ND	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-6	2.1	4.8	N.D.	N.D.	N.D.	N.D.	0.042	N.D.	N.D.	N.D.	0.16	N.D.
MW-7	1.7	4.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-8	0.89	0.75	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-9	0.76	0.77	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-10	2.3	5.9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-11	0.63	0.96	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-12	0.53	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-13	0.74	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-14	0.94	1.3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-15	0.61	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-16	0.44	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Rinse Blank	4.1	8.8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MTCA Method												
A cleanup level	1	1	NA	0.1	NA	NA	NA	NA	NA	TOTAL PCBs:	0.1	
B cleanup level	NA	NA					0.365	0.257	0.257			
Soil Sample #												
SS-1/WP-12	40	300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-2/WP-14	46	290	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-3/WP-6	60	340	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-4/WP-10	130	490	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-5/WP-15	730	240	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-6	95	710	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-7	110	920	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-8	78	390	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SS-9	97	590	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MTCA Method												
A Cleanup level	200	200	NA	.1 (PPB)	NA		NA	NA	NA	TOTAL PCBs:	.1 (PPB)	
B Cleanup Level							4.17	2.94	2.94			

TABLE 1: SUMMARY OF INITIAL ANALYTICAL RESULTS, BELLEFIELD OFFICE PARK

SAMPLED 23 OCTOBER 1994

Well Number:	WTPH-D Extended (ppm)		VOC'S(8021)	PAH'S(8310) (ppb)	Pesticides	PCB's(8080)(PPB)		
	Diesel	Heavy oil				1242	1254	1260
MW-1	NT	NT	NT	NT	NT	NT	NT	NT
MW-2 *	0.5	3.8	NT	NT	NT	NT	NT	NT
MW-3 *	0.89	4.6	NT	NT	NT	NT	NT	NT
MW-4	NT	NT	NT	NT	NT	NT	NT	NT
MW-5	NT	NT	NT	NT	NT	NT	NT	NT
MW-6 *	1.1	1.8	NT	NT	NT	NT	NT	NT
MW-7 *	1.8	1.3	NT	NT	NT	NT	NT	NT
MW-8 *	0.85	2.5	NT	NT	NT	NT	NT	NT
MW-9	NT	NT	NT	NT	NT	NT	NT	NT
MW-10 *	1.3	2.3	NT	NT	ND	ND	0.41	ND
MW-11 *	5.3	4.1	NT	NT	ND	ND	ND	ND
MW-12	NT	NT	NT	NT	NT	NT	NT	NT
MW-13	NT	NT	NT	NT	NT	NT	NT	NT
MW-14 *	0.29	1.4	NT	NT	NT	NT	NT	NT
MW-15	NT	NT	NT	NT	NT	NT	NT	NT
MW-16	NT	NT	NT	NT	NT	NT	NT	NT
MW-17	0.67	3.4	NT	NT	ND	ND	NT	NT
MW-18	0.79	3.6	NT	NT	ND	ND	NT	NT
Rinse Blank	ND	ND	NT	NT	NT	NT	NT	NT
MTCA Method:								
A cleanup level(WATER)	1	1	#	#		TOTAL PCB'S: .1		
B cleanup level(WATER)								
BORING#/SAMPLE/DEPTH							PCB'S (8081)	
B-1/S-3/7.5 FEET	1400	9900	ND	NT	NT	61	200	74
B-1/S-6/15 FEET	120	1500	ND	NT	NT	ND	ND	ND
B-1/S-7/17.5 FEET	210	2700	ND	NT	NT	ND	ND	ND
B-2/S-1/2.5 FEET	190	1800	ND	NT	NT	ND	ND	ND
B-2/S-4/10 FEET	130	1600	ND	NT	NT	ND	ND	ND
B-2/S-8/20 FEET	530	2300	ND	NT	NT	64	190	56
B-3/S-1/2.5 FEET	45	440	ND	NT	NT	ND	110	ND
B-3/S-3/7.5 FEET	1200	5200	ND	NT	NT	ND	ND	ND
B-3/S-7/17.5 FEET	1000	5000	ND	NT	NT	190	420	140
MTCA Method a								
A Cleanup Level(SOIL)	200	200	#	#		TOTAL PCB'S: 1000		
# CLEANUP LEVELS DETERMINED BY INDIVIDUAL COMPOUND								
* WELLS REPLACED AND RESAMPLED 11, 14, 15, NOVEMBER, 1994								

TABLE 3: SUMMARY OF ANALYTICAL RESULTS, BELLEFIELD OFFICE PARK SAMPLED 11, 14, 15, NOVEMBER, 1994

DOCUMENT 5

8 December 1994

Great Western Bank, A Federal Savings Bank
285 Hamilton Avenue, Suite 325
Palo Alto, California 94301

Attention: Mr. Steve Mitchell

Subject: Petroleum Hydrocarbon Identification Results
Bellefield Office Park
11201 SE 8th Street
Bellevue, WA 98005

Dear Mr. Mitchell:

As per your request and verbal authorization, AGRA Earth & Environmental Inc.(AGRA) is pleased to present this summary of results obtained from petroleum hydrocarbon identification analyses of two soil and three groundwater samples collected from the Bellefield Office Park on 30 November 1994. (see attached Friedmann & Bruya Report)

These samples were submitted to the laboratory of Friedman & Bruya, Inc. in Seattle, Washington for petroleum hydrocarbon identification analyses, with the intention of differentiating, if possible, the approximate proportional amounts of hydrocarbons contained in the samples. By performing these analyses the suspect hydrocarbons would be identified (if present) as:

- biogenic compounds (naturally occurring hydrocarbons); and
- petroleum hydrocarbons associated with pyrolysis compounds (combustion residues); asphaltic debris; and petrogenic compounds (fuels and lubricants).

The purpose of this attempt to identify these compounds is to bring a better understanding of amounts and possible sources of elevated undifferentiated total petroleum hydrocarbons (TPH) concentrations exhibited by the property's soil and groundwater, thereby allowing us and future reviewers to establish a more confident opinion as to nature and likely impacts associated with this apparent TPH presence.

In earlier screening phases of study on the subject site samples obtained were analyzed by the Washington State approved broad spectrum analysis method (WTPH-Diesel Extended) for identifying TPH in the diesel and heavy oil range. There is growing realization within the scientific community that this commonly utilized state method, WTPH-D, may be subject to qualitative and quantitative inaccuracies in evaluating TPH types and concentrations due to possible media interferences and sensitivity to naturally occurring biogenic compounds that might be reported as petroleum hydrocarbons. Therefore this additional analyses was deemed prudent.

WORKSCOPE

AGRA personnel collected three groundwater samples, one each from existing temporary monitoring wells MW-2, MW-10, and MW-11 and two soil samples from shallow soil borings SS-1 B-1 and SS-2 B-2 . These monitoring well and soil boring locations correspond to those depicted upon attached



Figure 2, Site and Exploration Plan dated September 1994.

Soil samples were collected at the groundwater/ vadose zone interface at approximately 3 to 4 feet in each hand augered boring. Groundwater samples were collected from these particular existing wells due to past exhibited elevated TPH readings from previous sampling and analysis events. A groundwater sample was collected from MW-10 to reanalyze for the possible presence of Polychlorinated Biphenyls (PCB) which were reported in a previous analysis of a groundwater sample obtained from this well. All sampling, sample storage and transport and chemical analyses were performed in strict accordance with AGRA and Friedmann & Bruya Inc. quality control/quality assurance protocols.

FINGERPRINT PETROLEUM HYDROCARBON CHARACTERIZATION METHODS

All samples were submitted to Friedman & Bruya for petroleum hydrocarbon identification analyses. (see attached Friedman & Bruya report) All submitted samples were first analyzed by Capillary Gas Chromatography using both a flame ionization detector (FID) and electron capture detector (ECD). This analytical method defines the general range of hydrocarbon compounds present in the samples. Next the samples were analyzed by Gas Chromatography/ Mass Spectrometer to distinguish individual compound types within the range of observed compounds. The chemist finally performed Thin Layer Chromatography on soil sample SS-11 and groundwater sample MW-11 to further confirm heavy end petroleum hydrocarbon compound types exhibited in those samples. Based upon these total fingerprint analyses the chemists were then able to extrapolate approximate material types and proportions in the remaining submitted samples.

FINDINGS

Analyses indicate that the majority of petroleum hydrocarbons exhibited in both soil and groundwater samples can reasonably be attributed to internal combustion engine residues and tars and asphaltic debris associated with street and road run-off and parking lot materials and roofing buried on the site. Well located in areas surrounding monitoring well MW-2 (which exhibited possible PCB and pesticide concentrations) did not exhibit evidence of these compounds. It appears evident that if these compounds are present at MW-2, which is questionable based upon the results of hydrocarbon fingerprinting results, the compounds do not appear to be mobile to any significant extent.

RECOMMENDATIONS

With previously acquired subject site characterization data, and this additional hydrocarbon identification data, it is thought that a case may be presented (if necessary) to the Washington State Department of Ecology (Ecology) that suggests:

- Mobile hazardous/toxic compounds in significant concentrations are not being observed within the subject site soils and groundwater indicating that the property was not used as a hazardous waste landfill, which supports the EPA's and Ecology's previous decisions to give the property a "No Further Action Status";

- Hydrocarbons exhibited in analyses of soil and groundwater during earlier characterization of portions of the site are a heterogeneous, mixture of petroleum hydrocarbons from a variety of possible, and probably continuing, on and offsite sources, including buried asphaltic and tar debris, roadway and parking lot surface water runoff containing motor vehicle combustion residues and leakage residues and unknowns;
- That observed elevated TPH, which are regulated in this state on the basis of negative aesthetic values (i.e. odor), appear to be relatively immobile. These buried materials appear to be currently non-accessible by most users of the Bellefield Office Park with the exception of possible future roadway maintenance or utilities installation workers who might have cause to excavate portions of the property;
- That based on limited downgradient surface water sampling and analysis, there is no data to suggest significant volumes of contaminated leachate are entering adjacent surface waters possibly contributing to local environmental impairment;
- That continued on-site micro-characterization of the property may be unreasonable given the heterogeneity of buried debris materials, the variability over short time periods of analytical results from even the same sample location and media; and likely complex localized groundwater flow parameters that would make on-site possible source identification technically difficult and unreasonably expensive; and
- That society's purposes and the environment's health are better served by demonstrating through downgradient monitoring (if deemed necessary by Ecology) that significant negative environmental off-site impacts associated with the Bellefield Office Park are not occurring. Based upon the hydrogeology of this site downgradient monitoring could be efficiently and economically performed by simply sampling regulatory agency agreed upon points of compliance in adjacent Mercer Slough surface waters.

We believe it would be prudent to first informally approach Ecology with the information acquired to date concerning the Bellefield Office Park status and determine what they would likely require to supply an updated "No Further Action Letter". It is possible based upon the fact that both the EPA and Ecology have in the past considered this site a low priority, and have supplied No Further Action Status to the site; and that the major source of petroleum hydrocarbons on the site appears to be continuous, and at this time uncontrollable (road-runoff), that the existing No Further Action Status may simply be updated. Ecology may also require that a formal Independent Remediation Action Plan (IRAP) be presented for their review prior to issuing a new No Further Action letter. It is possible that restrictive covenants and downgradient monitoring would be required as described above, as part of the IRAP.

This report has been prepared for the exclusive use of Great Western Bank, for specific application to the referenced scope of services and in accordance with our general contract with Great Western Bank. No other warranty, express or implied is made. In the event that there are changes in usage at the site or nearby properties or new additional information is acquired concerning the property the conclusions and recommendations contained in this report should be verified by our office.



Great Western Bank
8 December 1994
Page 4

We appreciate the opportunity to be of service. Should you have any questions, please do not hesitate to call (206-820-4669).

Respectfully submitted,
AGRA Earth & Environmental Inc.

A handwritten signature in black ink, appearing to read 'D. S. Petrarca', written over a horizontal line.

Daryl S. Petrarca R.E.A.
Associate

James S. Dransfield, P.E.
Senior Associate

c.c Mr Matt Dalton
Mr Steve Mitchell

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

December 8, 1994

Daryl Petrarca, Project Leader
AGRA Earth & Environmental, Inc.
11335 NE 122nd Way, Suite 100
Kirkland, WA 98034-6918

Dear Mr. Petrarca:

Enclosed are the results from the testing of material submitted on November 30, 1994 from your 11-09378-02, Bellefield Office Park project.

The original GC/FID traces showed a medium boiling, individual peak pattern with a high boiling hump of material in MW-2 and MW-10, a medium petroleum distillate with a symmetrical *n*-alkane pattern, and a high boiling hump of material in sample MW-11, a high boiling hump of material in sample SS-11 (B-2), and a high boiling hump of material with a few prominent individual peaks in sample SS-10 (B-1). No PCB's were detected in any of the GC/ECD chromatograms generated.

The GC/MS was then employed to distinguish whether one, the individual peak patterns were PNA's resulting from pyrolysis (burning) and/or the presence of coal tar, or were other compounds which would be assumed to arise from biological origins, and whether two, the high boiling humps were refined distillates containing mostly alkanes, or were petroleum bases such as tars and asphalts containing a mixture of compound types, including organic acids, or were biological in origin.

The GC/MS results showed that the individual peak patterns in the GC/FID of MW-2, MW-10, and SS-10 (B-1) were indeed PNA's. The GC/MS results also showed that MW-11 contained a highly refined product such as a motor oil, along with a diesel. The high boiling material in MW-2 surprisingly also contained mostly alkanes, suggesting the material in this sample also was highly refined. The high boiling material in SS-10 and SS-11 appeared to contain organic acids as expected in a tar or street run-off. The high boiling material in MW-10 was at a level too low to characterize further in this manner.

The TLC of SS-11 and MW-11 supported the difference seen between the refined material in MW-11 and the tar-like material in SS-11. Both contained saturated hydrocarbons at Rf 0.9 (Hexane) at levels high enough to support that these both contain material of petroleum origin. SS-11 may contain material of biological origin. The material in SS-11, (as well as in SS-10), however, is consistent with street asphalt run-off.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Daryl Petrarca
December 8, 1994
Page 2

The fractionation of sample MW-11 showed that there was little or no organic material present other than the distilled and refined petroleum products. The fractionation of sample SS-11 showed that there was approximately one third of the material seen in the methylene chloride extractable fraction and the methanol extractable fraction contained virtually none of the material. Two thirds of what was seen in the total extract eluted in the hexane extractable fraction of saturated alkanes. This indicates a probable asphalt, a tar or heavily used motor oil as a source for this material.

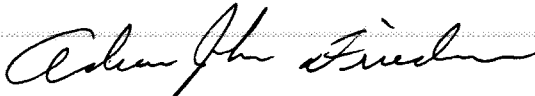
This fractionation information can be extrapolated to what is seen in the other samples when compared with their GC/FID traces and what we know from the GC/MS analyses about what types of materials are present. The organics in SS-10 are approximately 95% of the same material that is in SS-11 with approximately 5% pyrogenic PNA's. MW-2 organics consist of approximately 50% pyrogenic PNA's and 50% refined petroleum product such as motor oil. MW-10 organics consist of approximately 80% pyrogenic PNA's and 20% high boiling material. As said before, the high boiling material is at a level too low to characterize its constituents.

In summary, no clear indication of naturally occurring biogenic hydrocarbons was seen in any of the samples. With the exception of MW-11 all of the material present is consistent with a long term input of road run-off accumulating over a long period of time. MW-11 shows the presence of relatively unweathered diesel fuel or heating oil and motor oil. Though this is typical of street run-off, the diesel does not show the usual weathering pattern, suggesting it is of more recent deposition.

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.



Andrew John Friedman
Chemist

sao
Enclosures

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: December 8, 1994
Date Received: November 30, 1994
Project: 11-09378-02, Bellefield Office Park
Date Samples Extracted: November 30, 1994

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR FINGERPRINT CHARACTERIZATION
BY CAPILLARY GAS CHROMATOGRAPHY
USING A FLAME IONIZATION DETECTOR (FID)
AND ELECTRON CAPTURE DETECTOR (ECD)**

Sample ID

GC Characterization

SS-10 (B-1)

The GC trace using the flame ionization detector (FID) showed the presence of high boiling compounds. The patterns displayed by these peaks are indicative of motor oil and tar. The high boiling compounds appeared as a pattern of peaks eluting from n -C₂₀ to beyond n -C₃₆ showing a maximum near n -C₂₈. The GC/ECD trace showed the presence of halogenated or highly oxidized compounds. The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis.

SS-11 (B-2)

The GC trace using the flame ionization detector (FID) showed the presence of high boiling compounds. The patterns displayed by these peaks are indicative of motor oil and tar. The high boiling compounds appeared as a pattern of peaks eluting from n -C₂₀ to beyond n -C₃₆ showing a maximum near n -C₂₈. The GC/ECD trace showed the presence of halogenated or highly oxidized compounds. The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: December 8, 1994
Date Received: November 30, 1994
Project: 11-09378-02, Bellefield Office Park
Date Samples Extracted: November 30, 1994

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR FINGERPRINT CHARACTERIZATION
BY CAPILLARY GAS CHROMATOGRAPHY
USING A FLAME IONIZATION DETECTOR (FID)
AND ELECTRON CAPTURE DETECTOR (ECD)**

Sample ID

GC Characterization

MW-2

The GC trace using the flame ionization detector (FID) showed the presence of high boiling compounds. The patterns displayed by these peaks are indicative of coal tar and an unidentified product. The high boiling compounds appeared as a ragged pattern of peaks eluting from *n*-C₉ to beyond *n*-C₃₆ showing a maximum near *n*-C₁₅. The GC/ECD trace showed the presence of halogenated or highly oxidized compounds.

MW-10

The GC trace using the flame ionization detector (FID) showed the presence of high boiling compounds. The patterns displayed by these peaks are indicative of coal tar and an unidentified product. The high boiling compounds appeared as a ragged pattern of peaks eluting from *n*-C₁₂ to beyond *n*-C₃₆ showing a maximum near *n*-C₂₁. The GC/ECD trace showed the presence of halogenated or highly oxidized compounds. The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis.

MW-11

The GC trace using the flame ionization detector (FID) showed the presence of medium and high boiling compounds. The patterns displayed by these peaks are indicative of diesel fuel, as well as motor oil and lube oil.

The medium boiling compounds appeared as a regular pattern of peaks eluting from *n*-C₁₅ to *n*-C₂₂ showing a maximum near *n*-C₁₈. A regular pattern of the *n*-alkanes is seen for the medium boiling product. The high boiling compounds appeared as a pattern of peaks eluting from *n*-C₂₀ to beyond *n*-C₃₆ showing a maximum near *n*-C₂₈. An irregular pattern of *n*-alkanes was seen in the GC/FID trace. The GC/ECD trace showed the presence of halogenated or highly oxidized compounds. The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: December 8, 1994
Date Received: November 30, 1994
Project: 11-09378-02, Bellefield Office Park
Date Samples Extracted: December 2, 1994
Date Extracts Analyzed: December 2, 1994

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLE
FOR CONTAMINANT CHARACTERIZATION
BY THIN LAYER CHROMATOGRAPHY**

Sample ID

TLC Characterization

SS-11 (B-2)

The thin layer chromatographic trace showed the presence of non-polar, moderately polar and highly polar organic compounds, such as those found in tar or asphalt. This characterization is based on the presence of a band of material at Rf 0.9 (hexane), visible with iodine staining only that is indicative of saturated hydrocarbons. A second band of material was seen at Rf 0.1 to 0.4 (hexane), visible under both short and long wave UV light, as well as with iodine staining and is indicative of high boiling aromatic hydrocarbons. Material was also seen streaked from the origin through Rf 1.0 (methylene chloride). A large amount of material was left at the origin.

The thin layer chromatographic trace showed an absence of significant concentrations of semi-volatile or non-volatile organic compounds.

Date of Report: December 8, 1994
Date Received: November 30, 1994
Project: 11-09378-02, Bellefield Office Park
Date Samples Extracted: December 2, 1994
Date Extracts Analyzed: December 2, 1994

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CONTAMINANT CHARACTERIZATION
BY THIN LAYER CHROMATOGRAPHY**

Sample ID

TLC Characterization

MW-11

The thin layer chromatographic trace showed the presence of non-polar, moderately polar and highly polar organic compounds, such as those found in diesel and/or motor oil and heavy tar. This characterization is based on the presence of a band of material at Rf 0.9 (hexane), visible with iodine staining only that is indicative of saturated hydrocarbons. A second band of material was seen at Rf 0.2 to 0.6 (hexane), visible under both short and long wave UV light, as well as with iodine staining and is indicative of high boiling aromatic hydrocarbons. Material was also seen streaked from the origin through Rf 1.0 (methylene chloride). A small amount of material was seen at the origin. The bulk of the material was seen in the hexane section, with a large amount of the material at Rf 0.9.

The thin layer chromatographic trace showed an absence of significant concentrations of semi-volatile or non-volatile organic compounds.

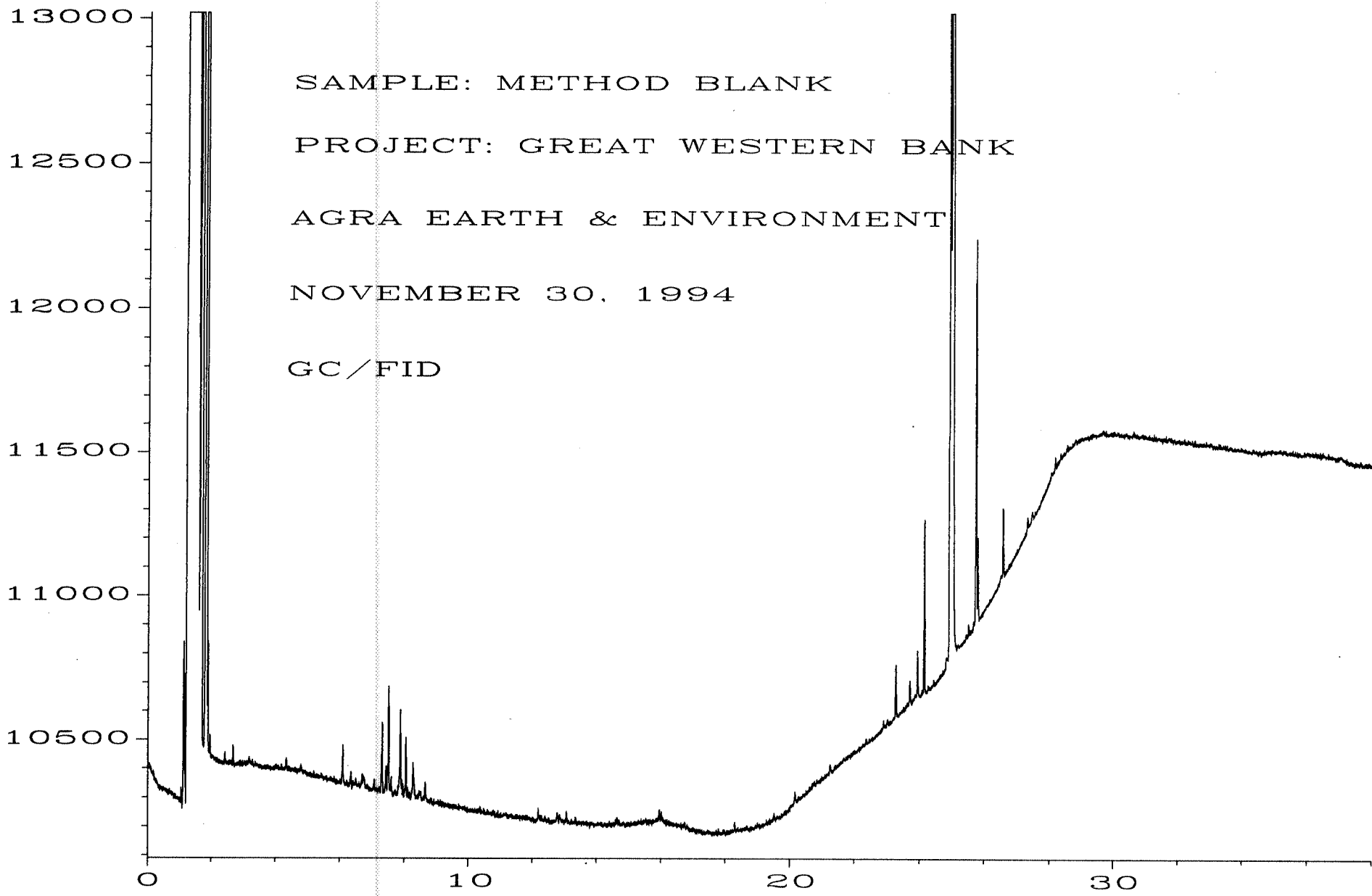
11-30-94
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 11/30/94

CHAIN OF CUSTODY

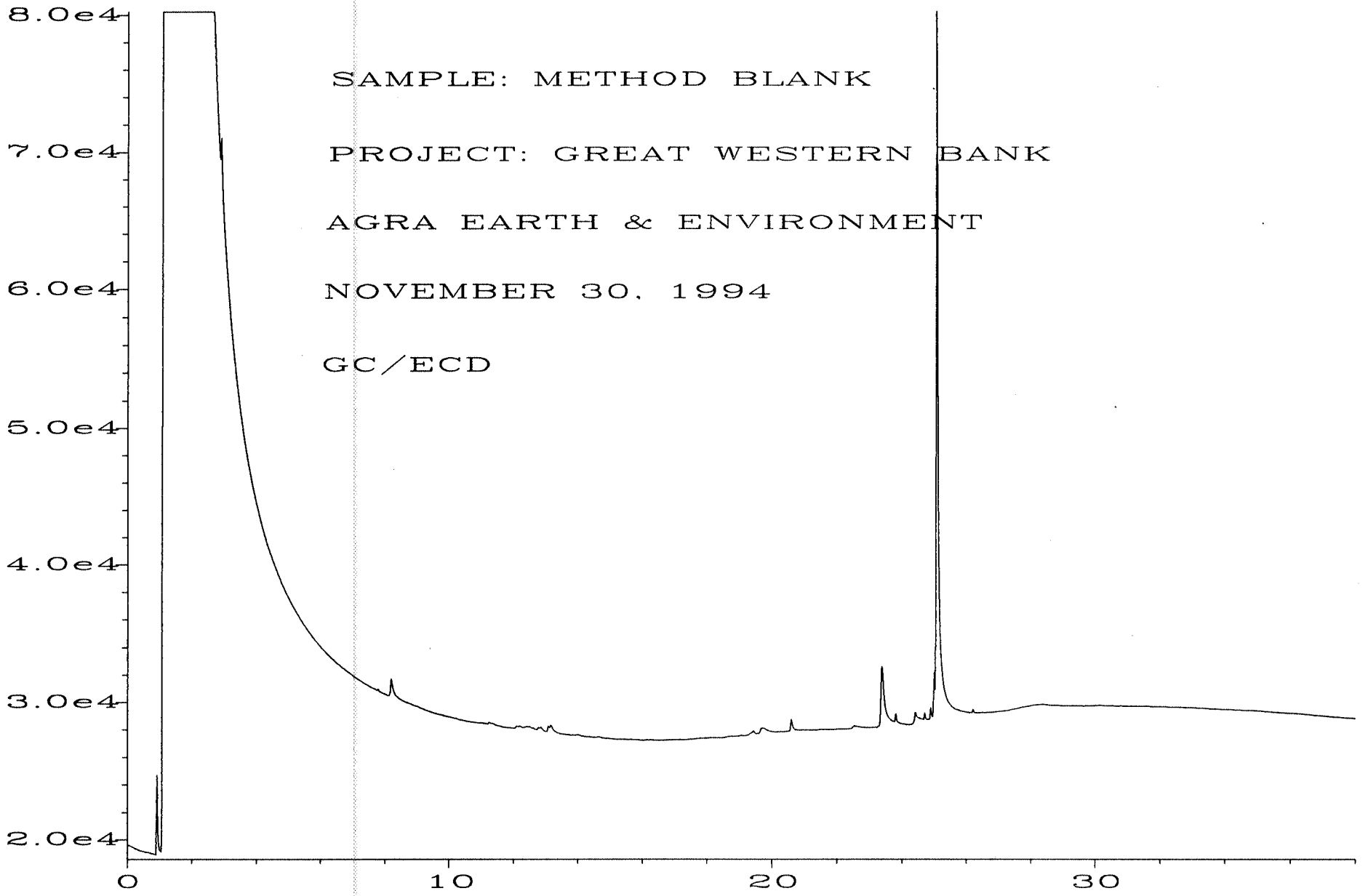
4:20

PROJECT BELLEFIELD OFFICE PARK				PROJECT No. 11-09378-02		ANALYSIS REQUESTED (circle, check box or write preferred method in box)																		
CLIENT GREAT WESTERN BANK				PHONE No.		BTEX by EPA 602 / 8020	WTPH-G	BTEX / WTPH-G	WTPH-HClD	WTPH-D / WTPH-D EXTENDED	TPH by EPA 8015 MODIFIED	WTPH-416.1 MODIFIED	TPH by EPA 416.1	GC / MS EPA 824 / 8240 or EPA 8260 Volatiles	GC / MS EPA 825 / 8270 Semi-volatiles	VOCs EPA 601 / 8010 or EPA 602 / 8020	PCBs EPA 608 / 8080	LEAD EPA 6010 / EPA 7421 Total / Dissolved	TOTAL METALS	TCUP	HFS	ID as needed using TCC R-2.0		
PROJECT MANAGER DARYL PETRARCA				PHONE No. 820-4669																				
SAMPLER'S NAME (please print) ROB COUSINS				PHONE No. " "																				
SAMPLER'S SIGNATURE <i>Robert Cousins</i>																								
SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	CONTAINERS																			
					No	VOL																		
1 SS-10 (B-1)	11-30-94	3:15	S		2	40Z																		X 55364-4
2 SS-11 (B-2)	↓		S		2	40Z																		X 55366-6
3 MW-2	↓		W		2	L																		X 55368-6
4 MW-10	↓		W		2	L																		X 55370-7
5 MW-11	↓		W		2	L																		X 55372-7
6																								
7																								
8																								
9																								
10																								

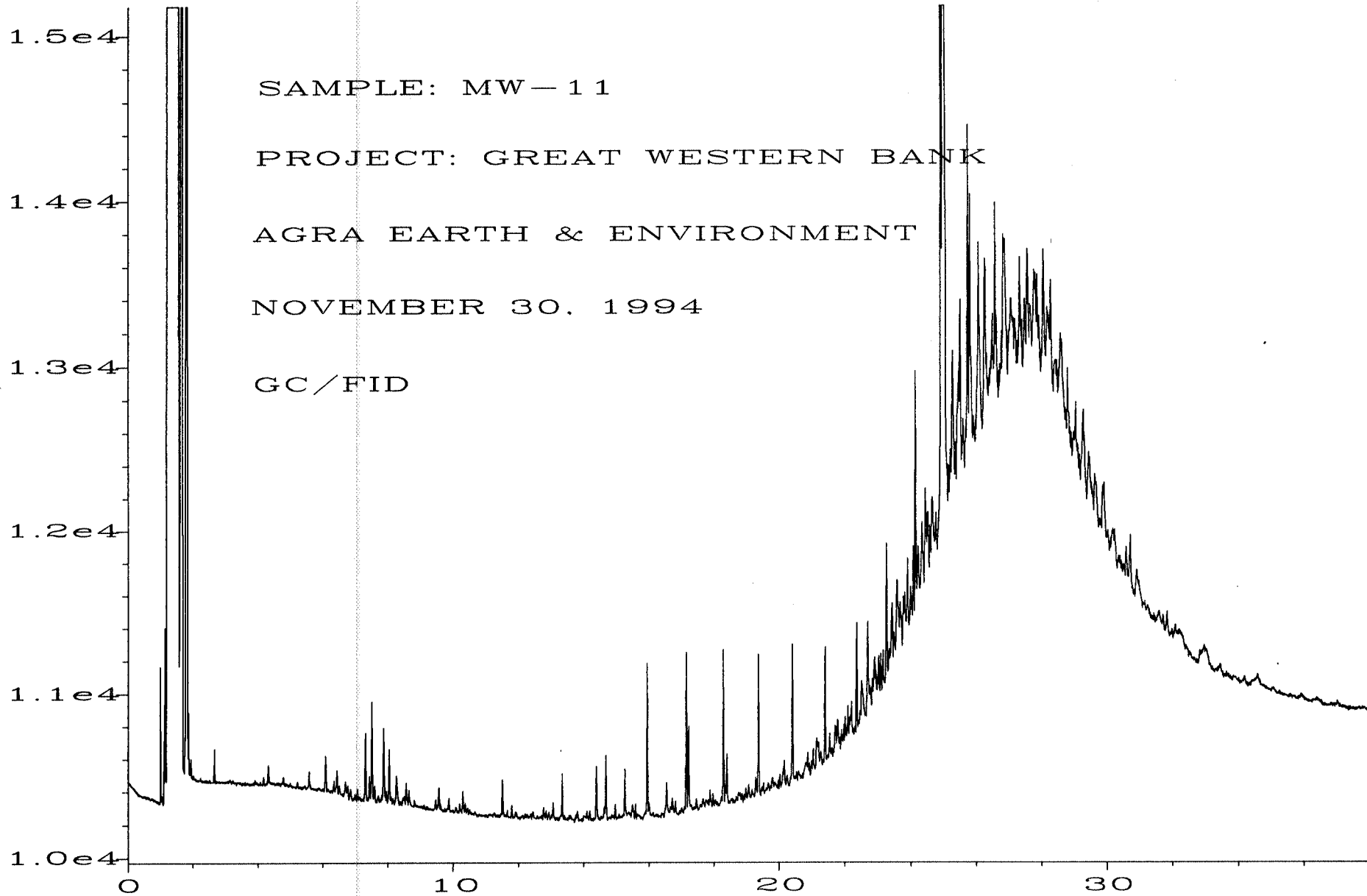
SAMPLE RECEIPT			LABORATORY			TURNAROUND TIME			SPECIAL INSTRUCTIONS / ADDITIONAL COMMENTS		
TOTAL # CONTAINERS 10			SHIPPING I.D. / AIRBILL #			<input type="checkbox"/> 8 HOUR			ASAP TURNAROUND		
CONDITION OF CONTAINERS SEALED			CARRIER			<input type="checkbox"/> 24 HOUR					
CONDITION OF SEALS			DOT DESIGNATION			<input type="checkbox"/> 1 WEEK					
						<input type="checkbox"/> 2 WEEK (standard)			LAB: FBI		
						<input type="checkbox"/> OTHER					
RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME		
<i>Robert Cousins</i>			11-30-94	4:10	<i>Kathryn Miller FBI</i>			11/30/94	4:10		

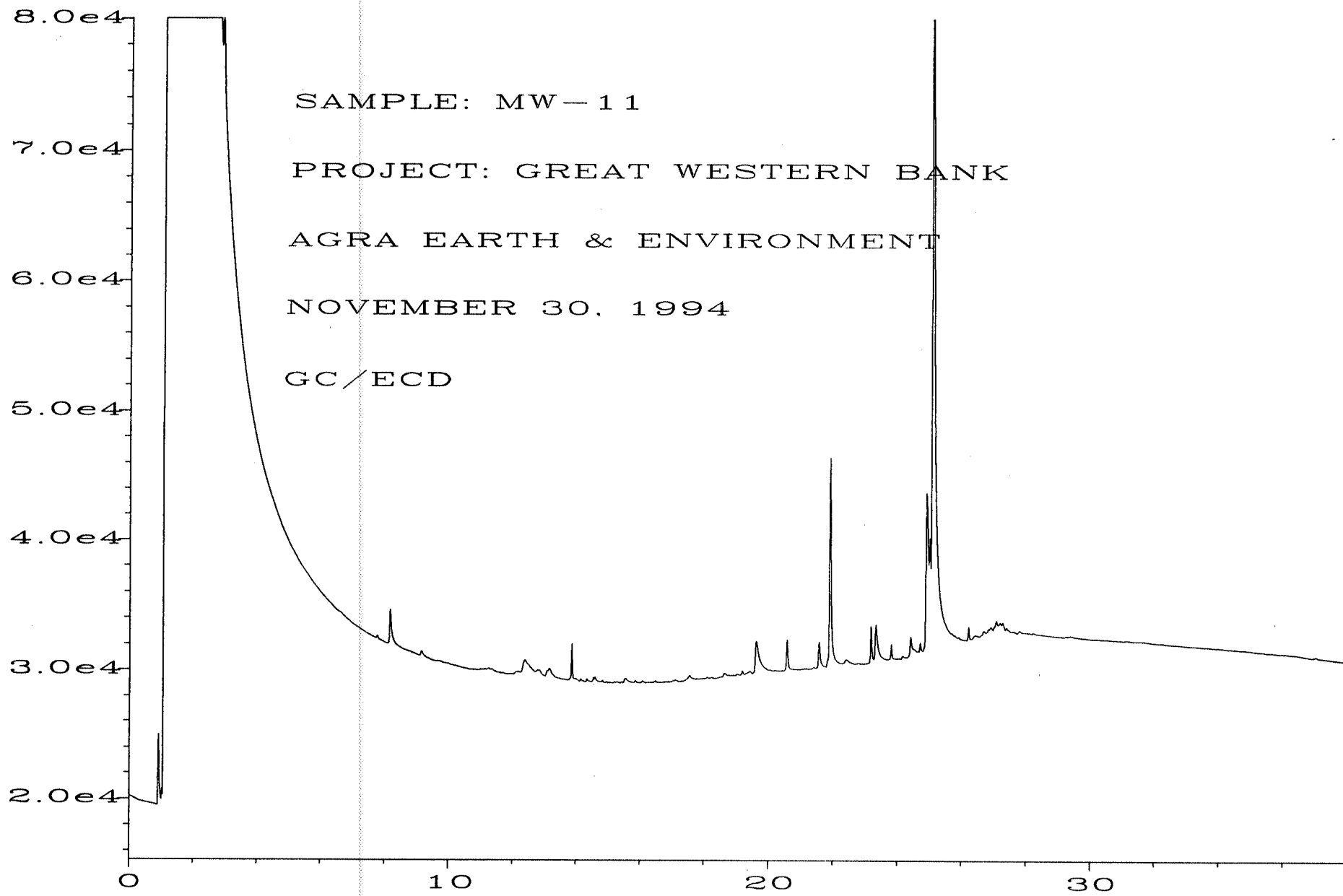


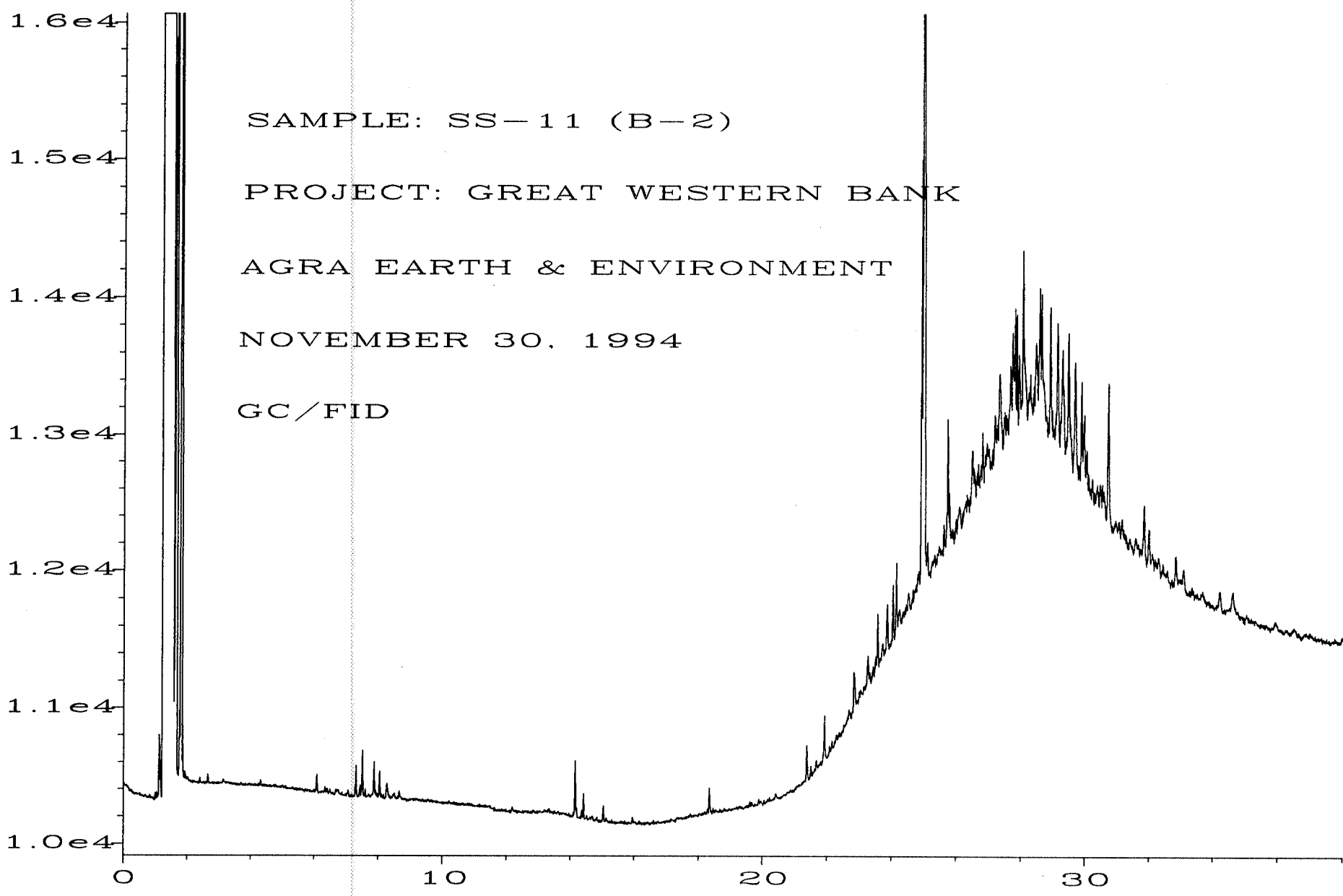
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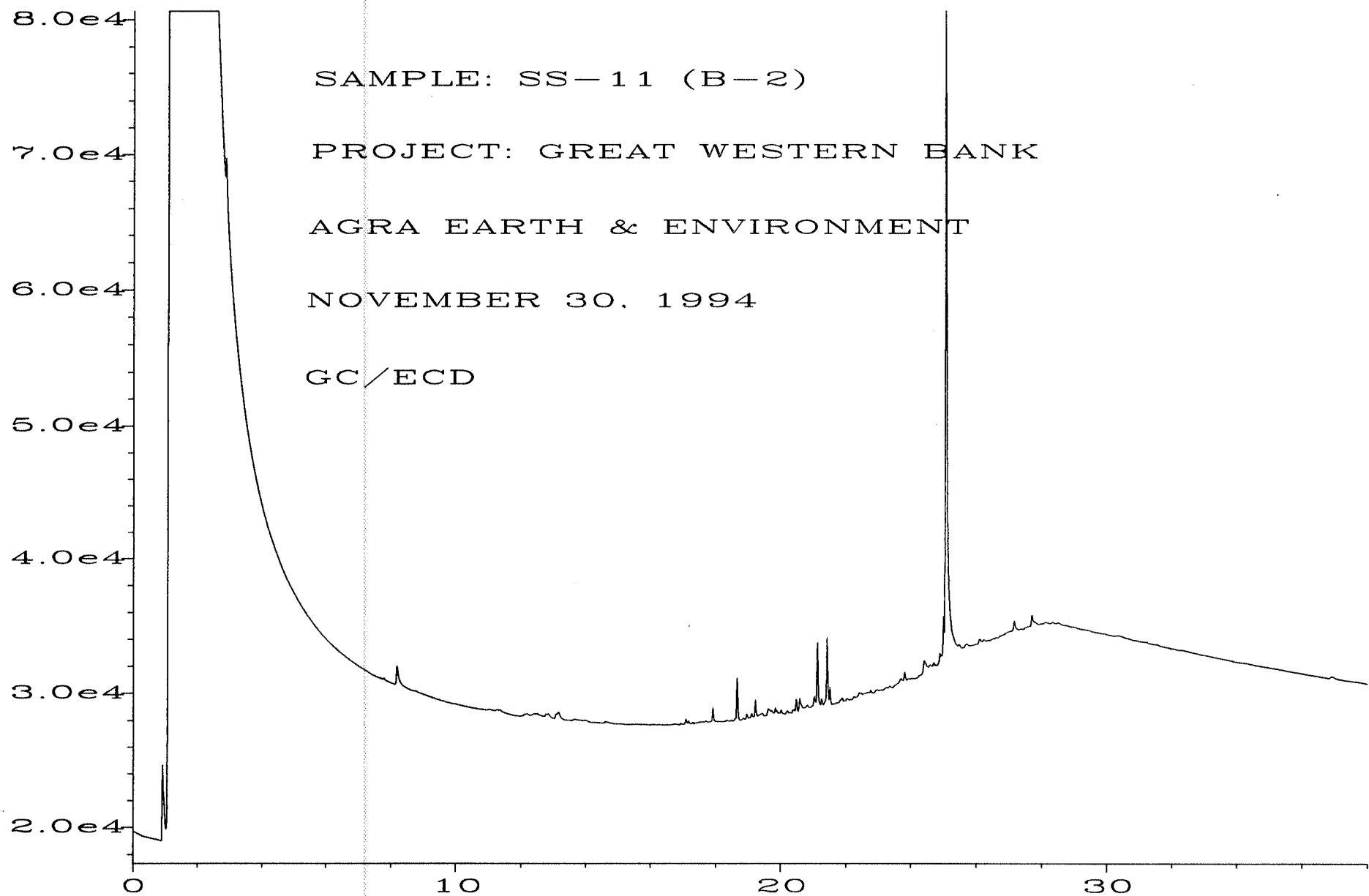


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PROJECT: GREAT WESTERN BANK
AGRA EARTH & ENVIRONMENT
NOVEMBER 30, 1994
GC/ECD

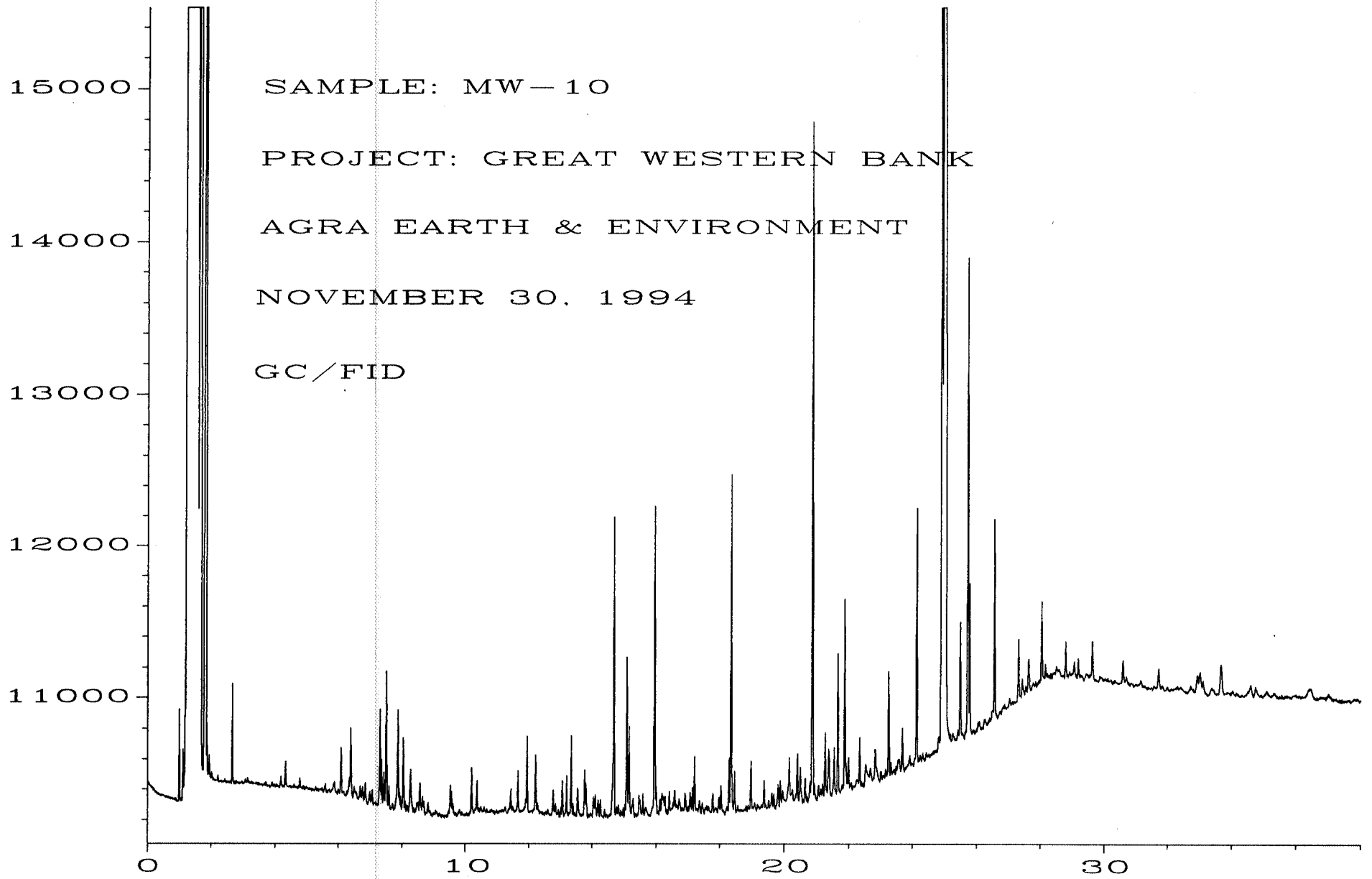


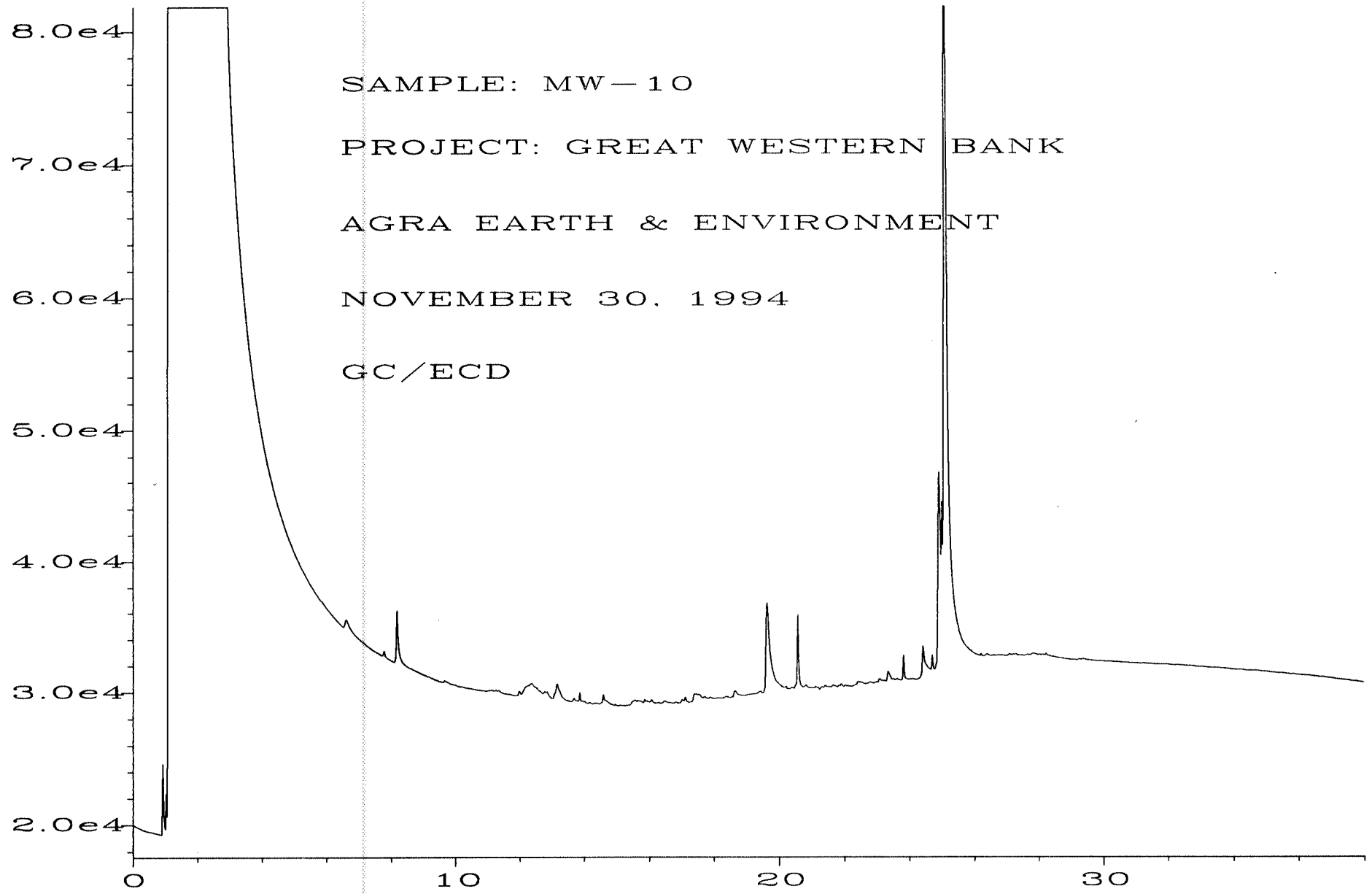




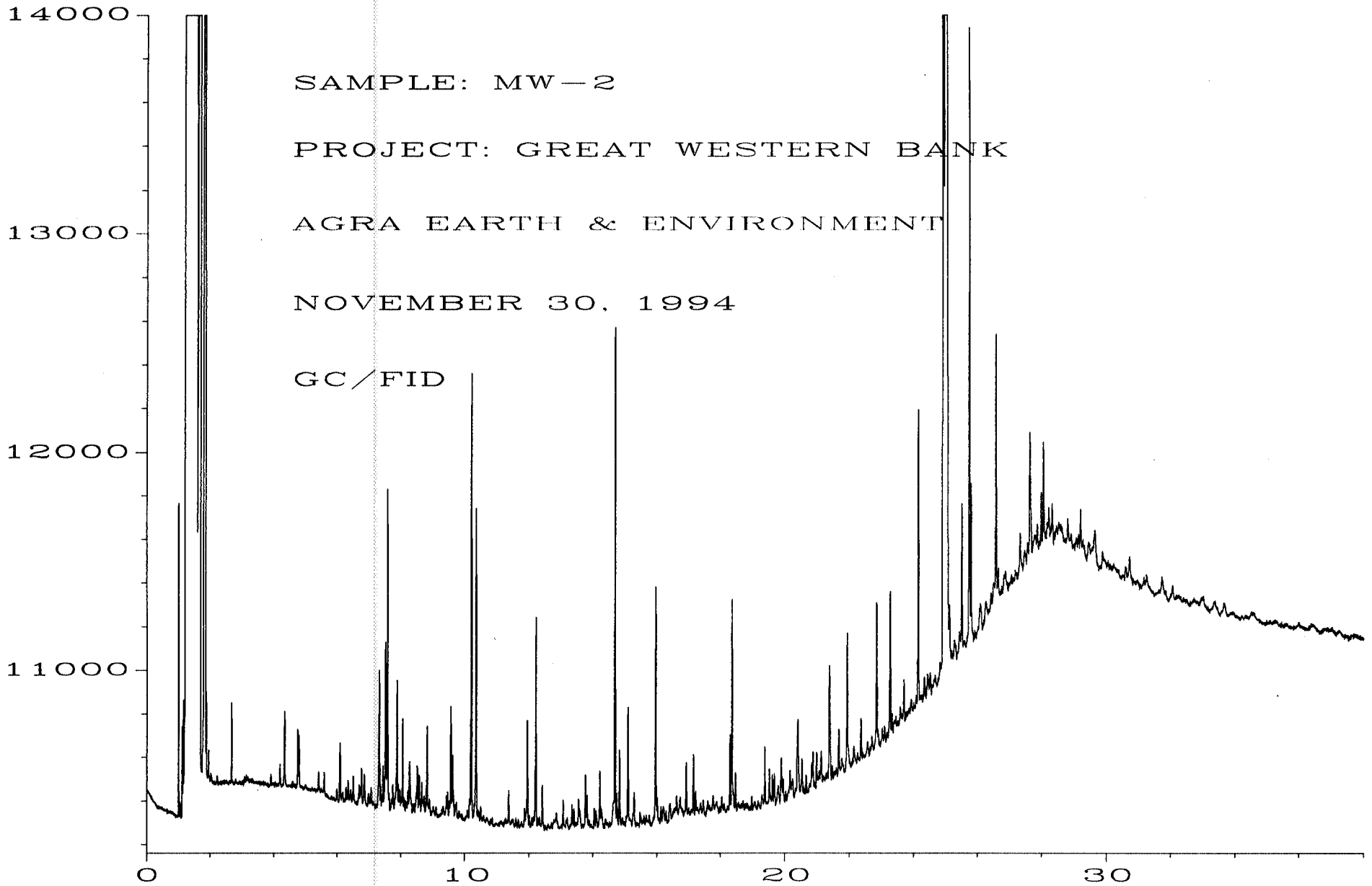


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AGRA EARTH & ENVIRONMENT
NOVEMBER 30, 1994
GC/ECD

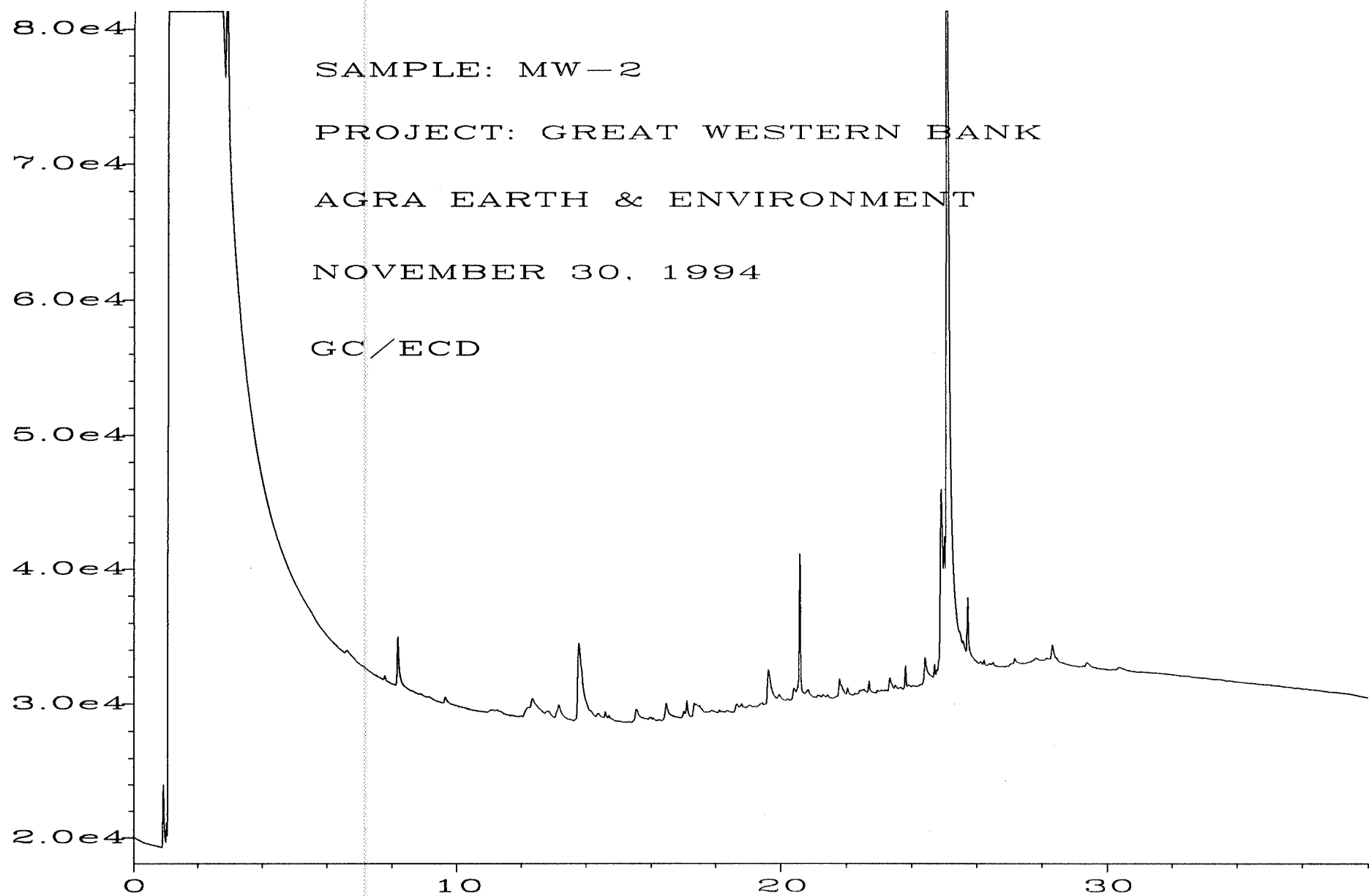


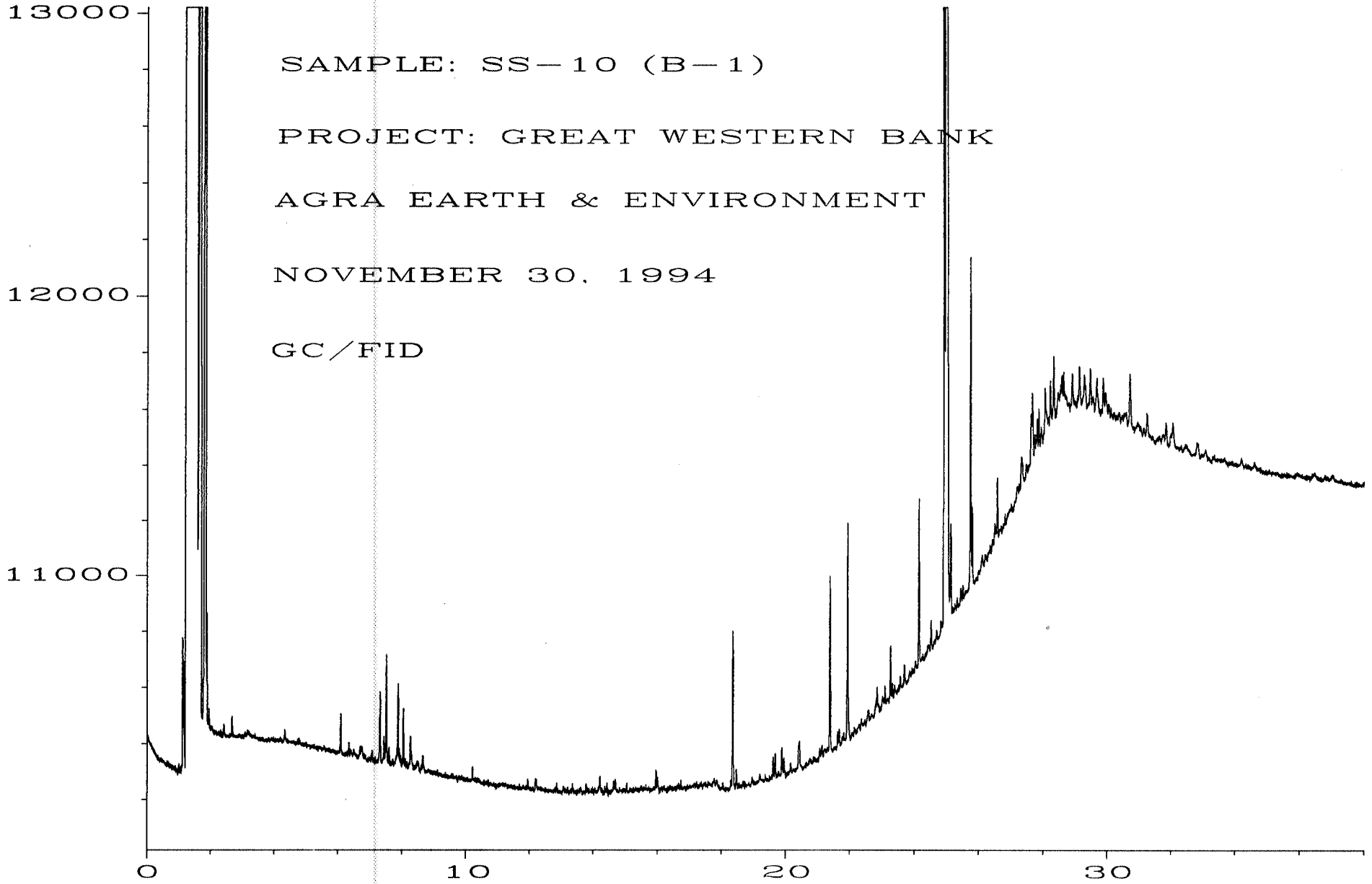


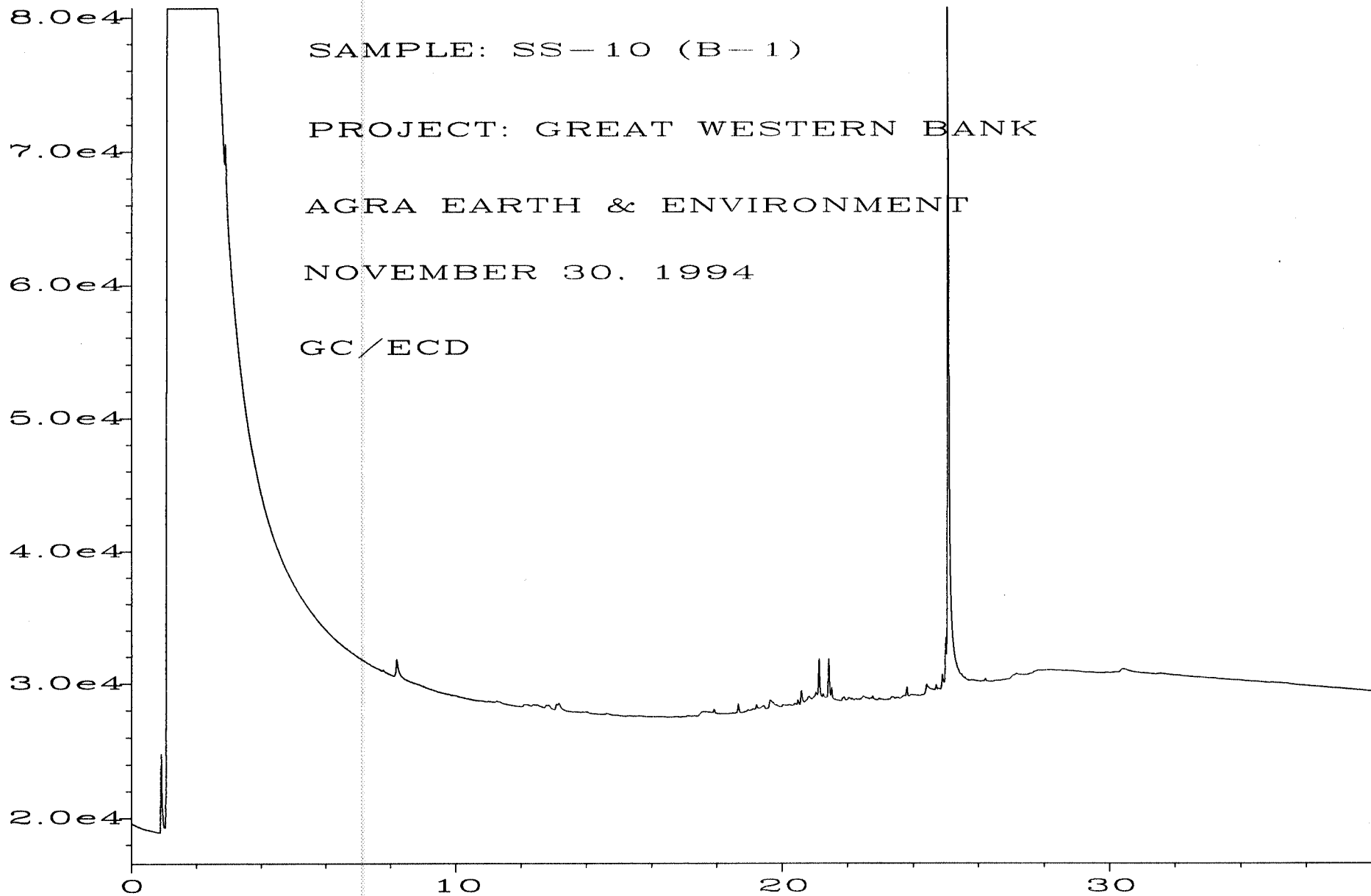
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PROJECT: GREAT WESTERN BANK
AGRA EARTH & ENVIRONMENT
NOVEMBER 30, 1994
GC/ECD



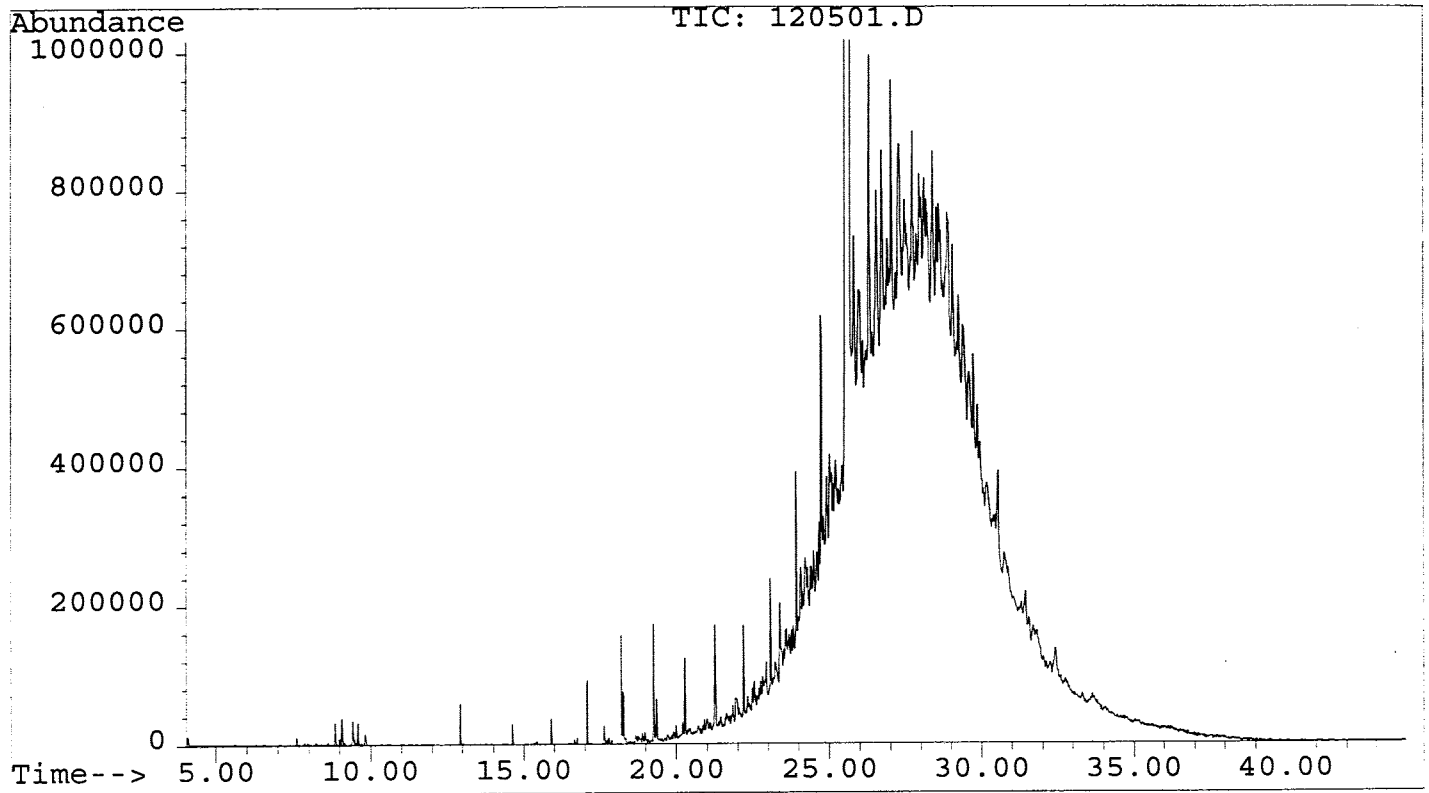
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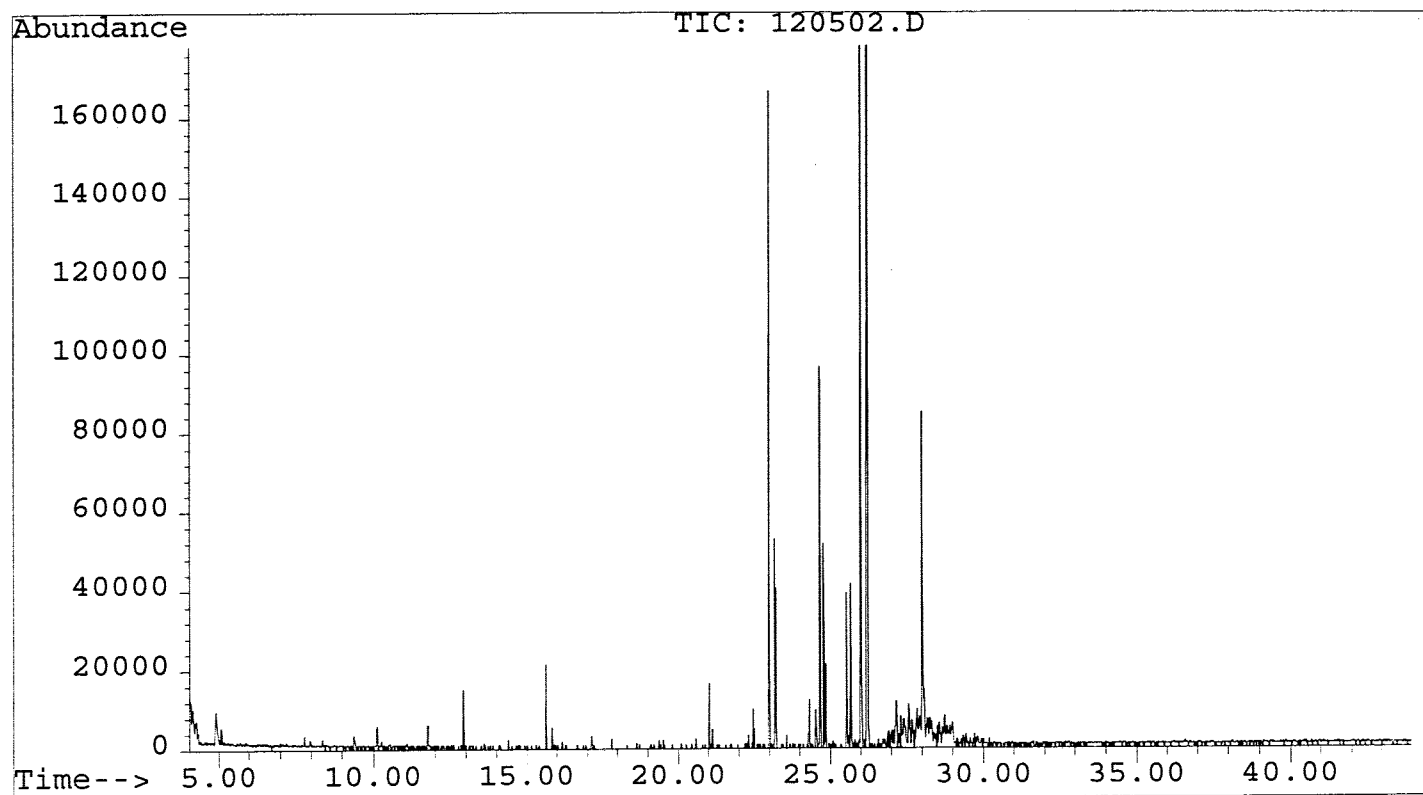




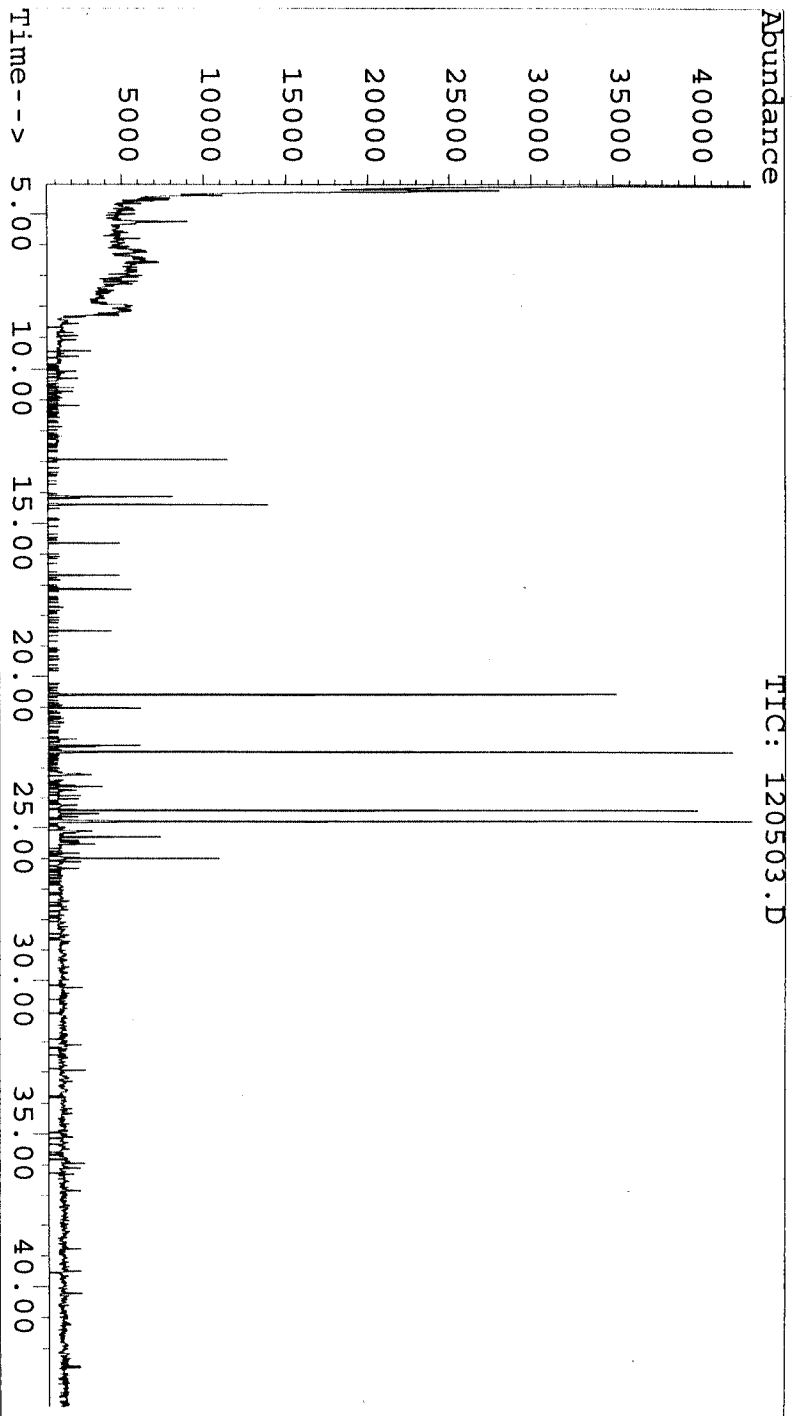
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Instrument : 5972 - In
Sample Name: 55373 S-1
Misc Info :
Vial Number: 1



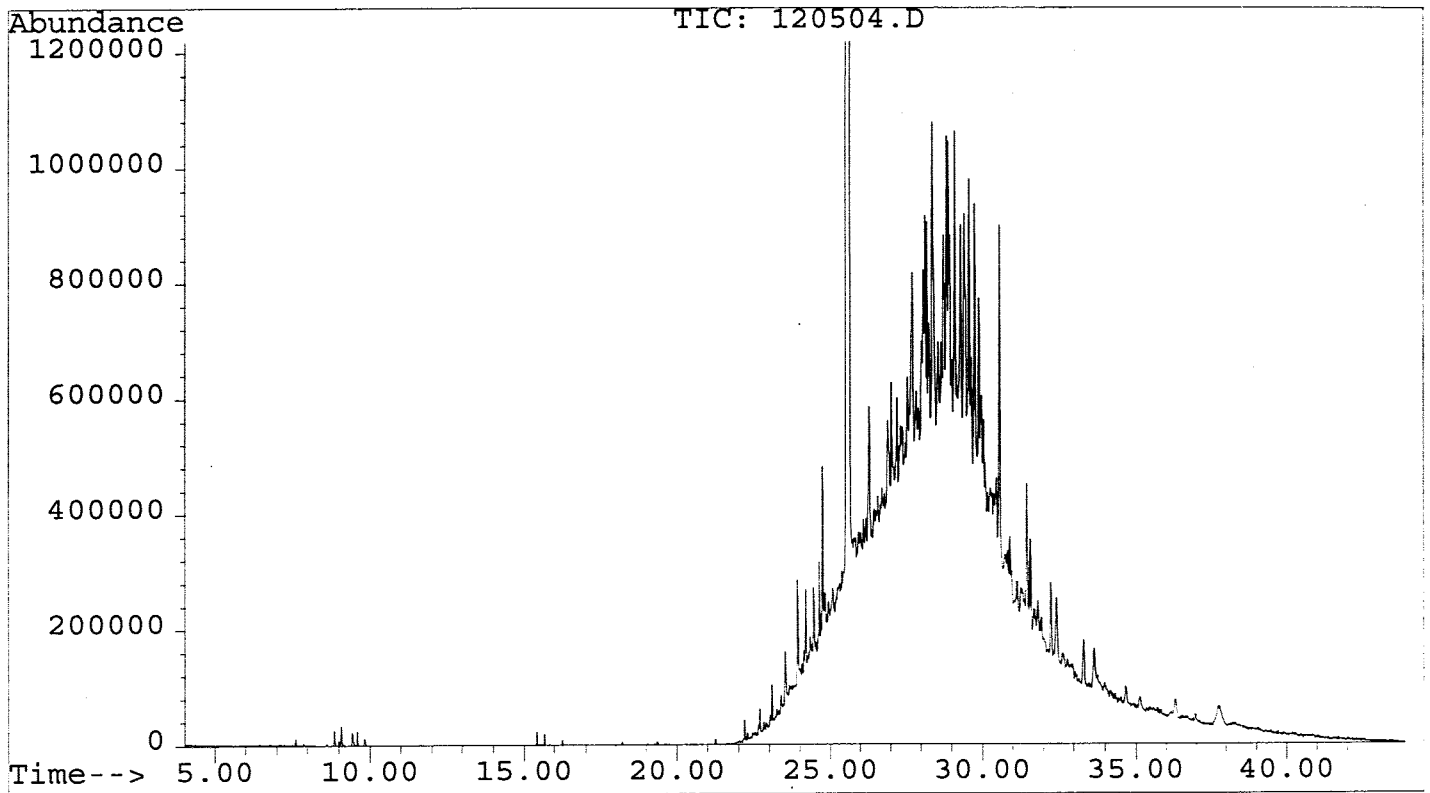
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Misc Info :
Vial Number: 2



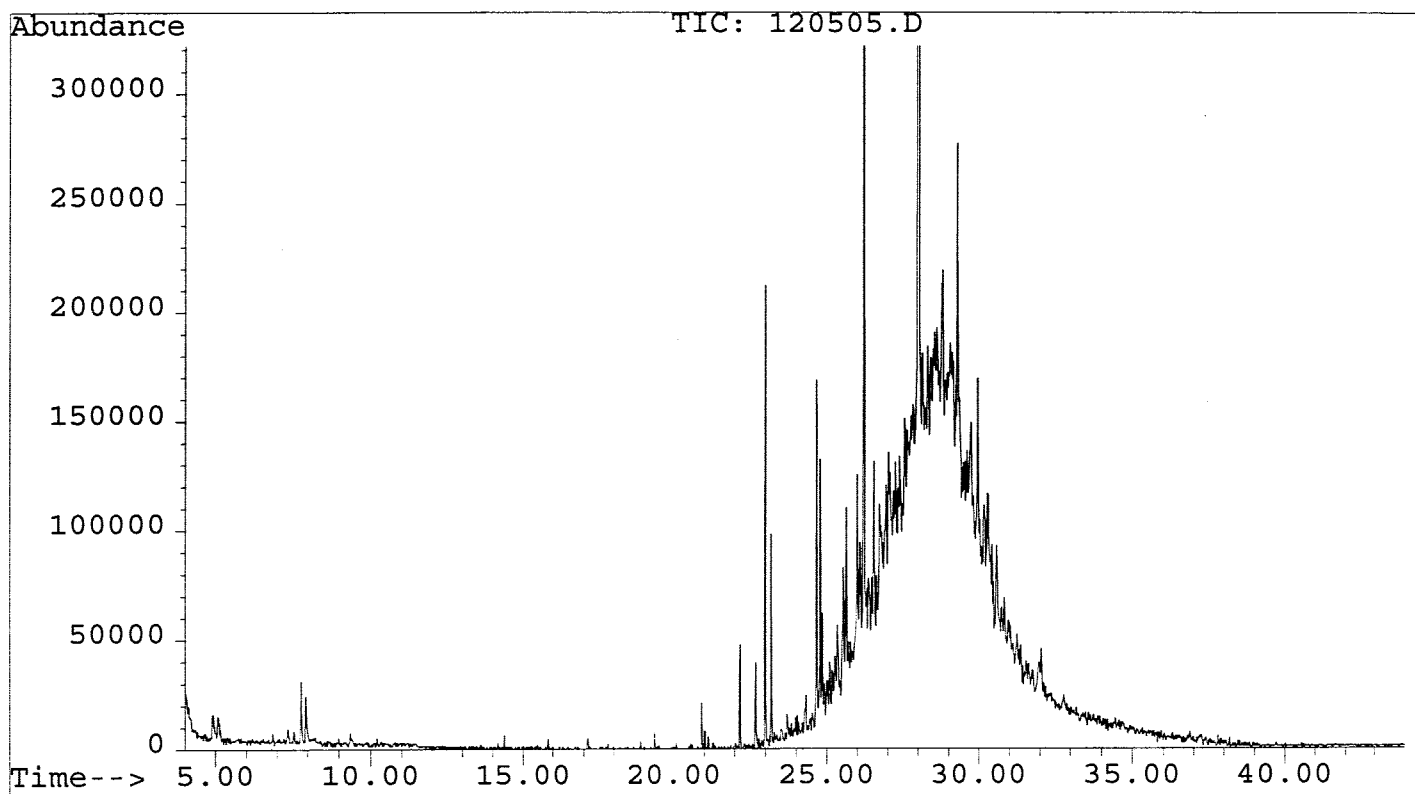
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Vial Number: 3



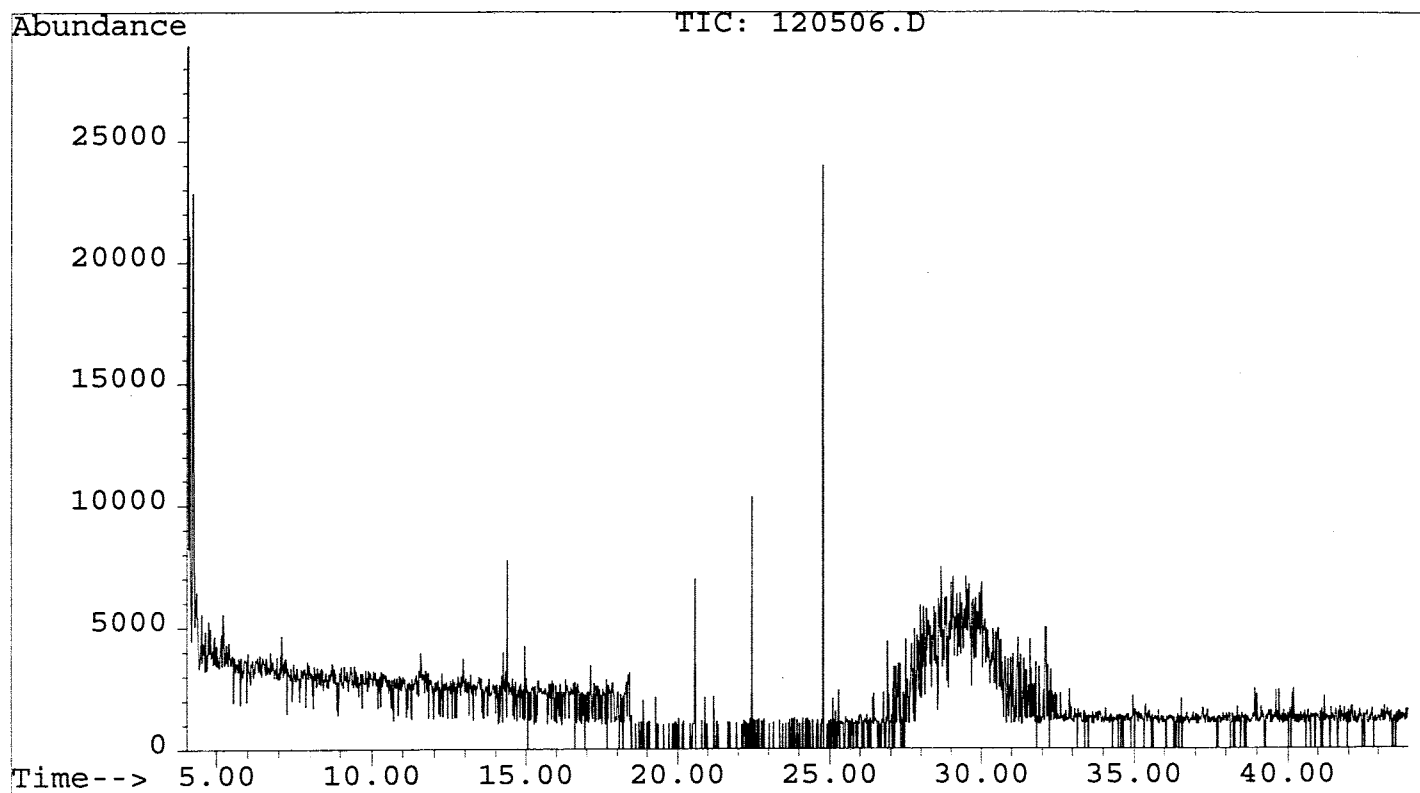
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Sample Name: 55366 S-1
Misc Info :
Vial Number: 4

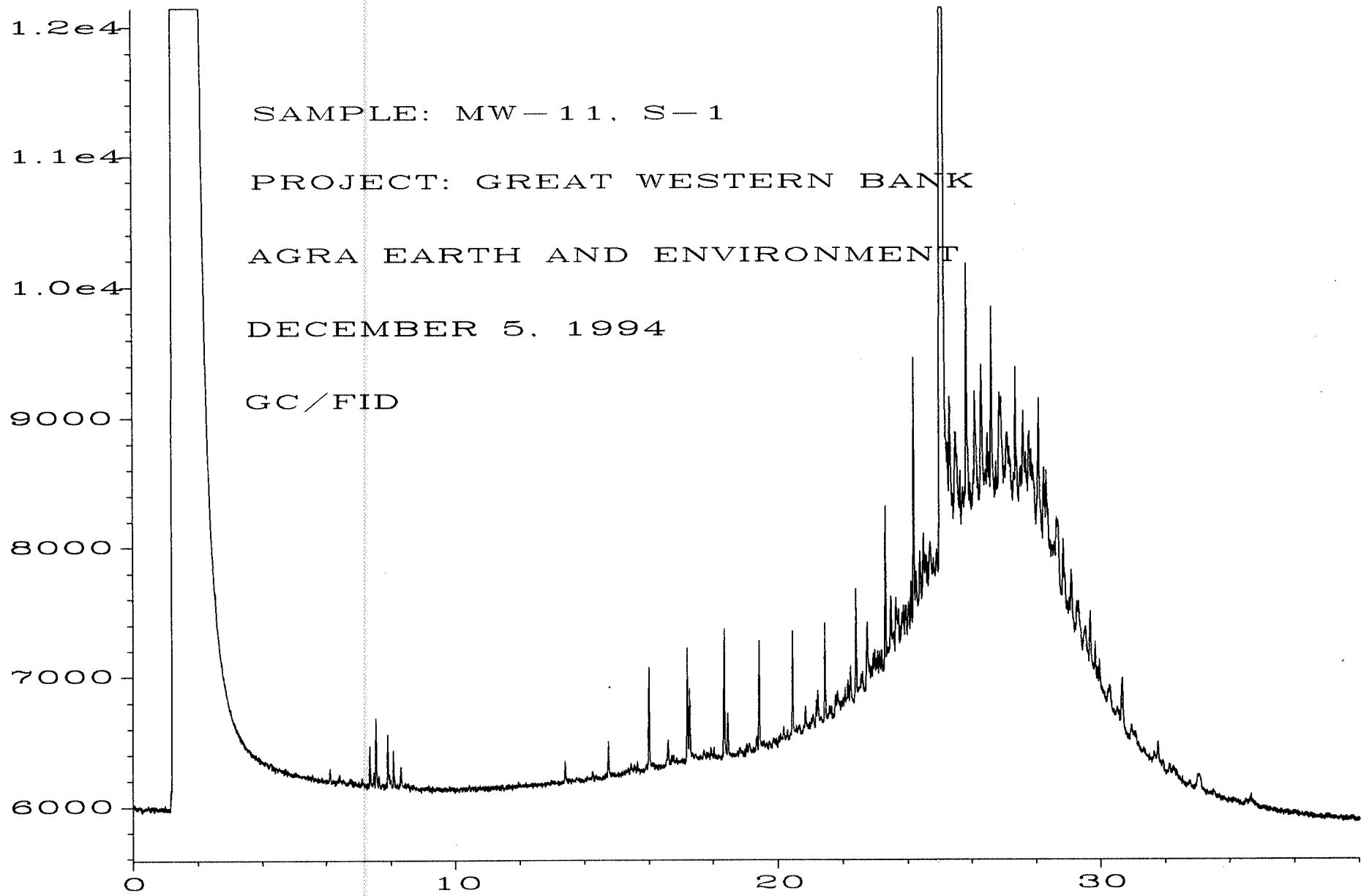


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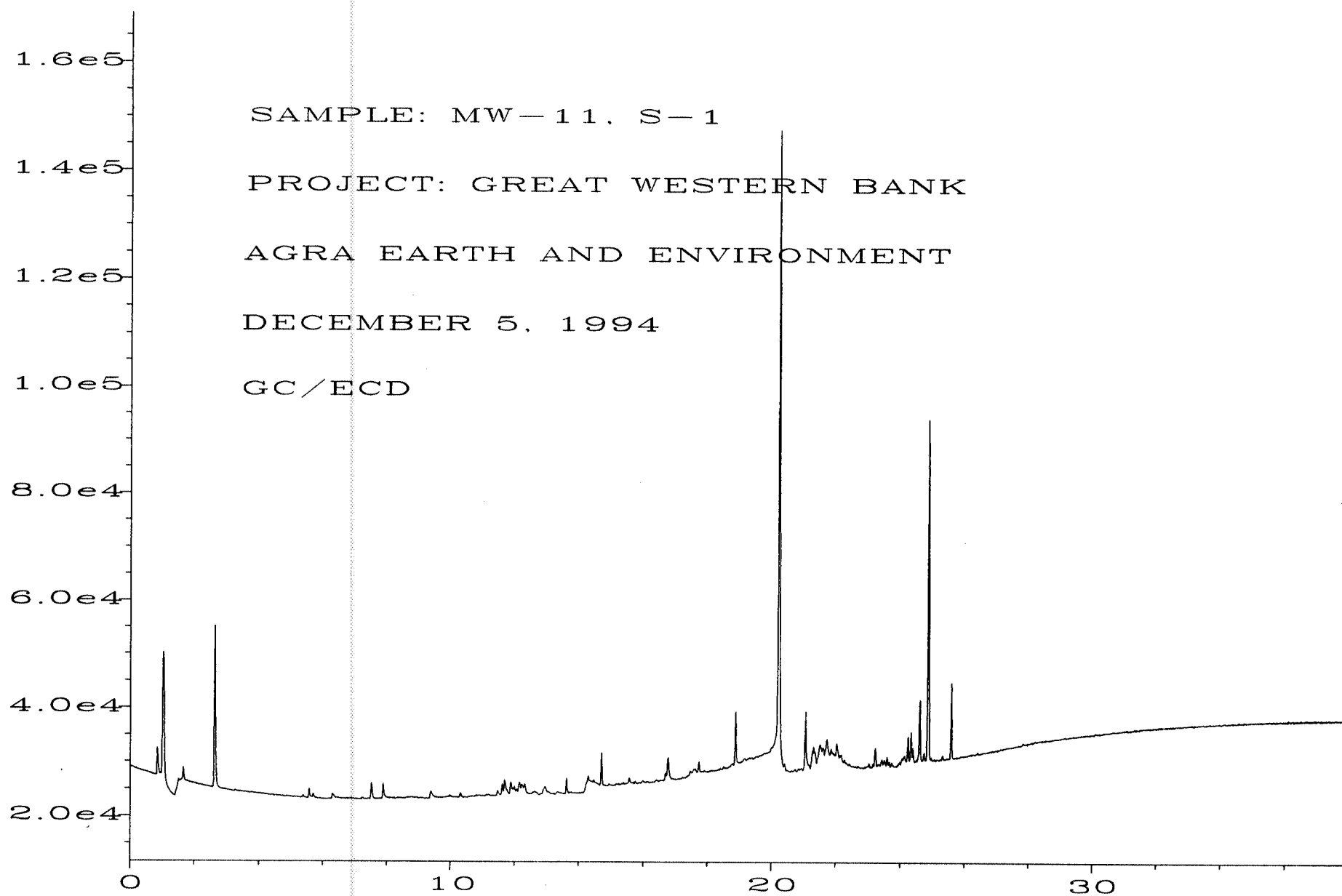


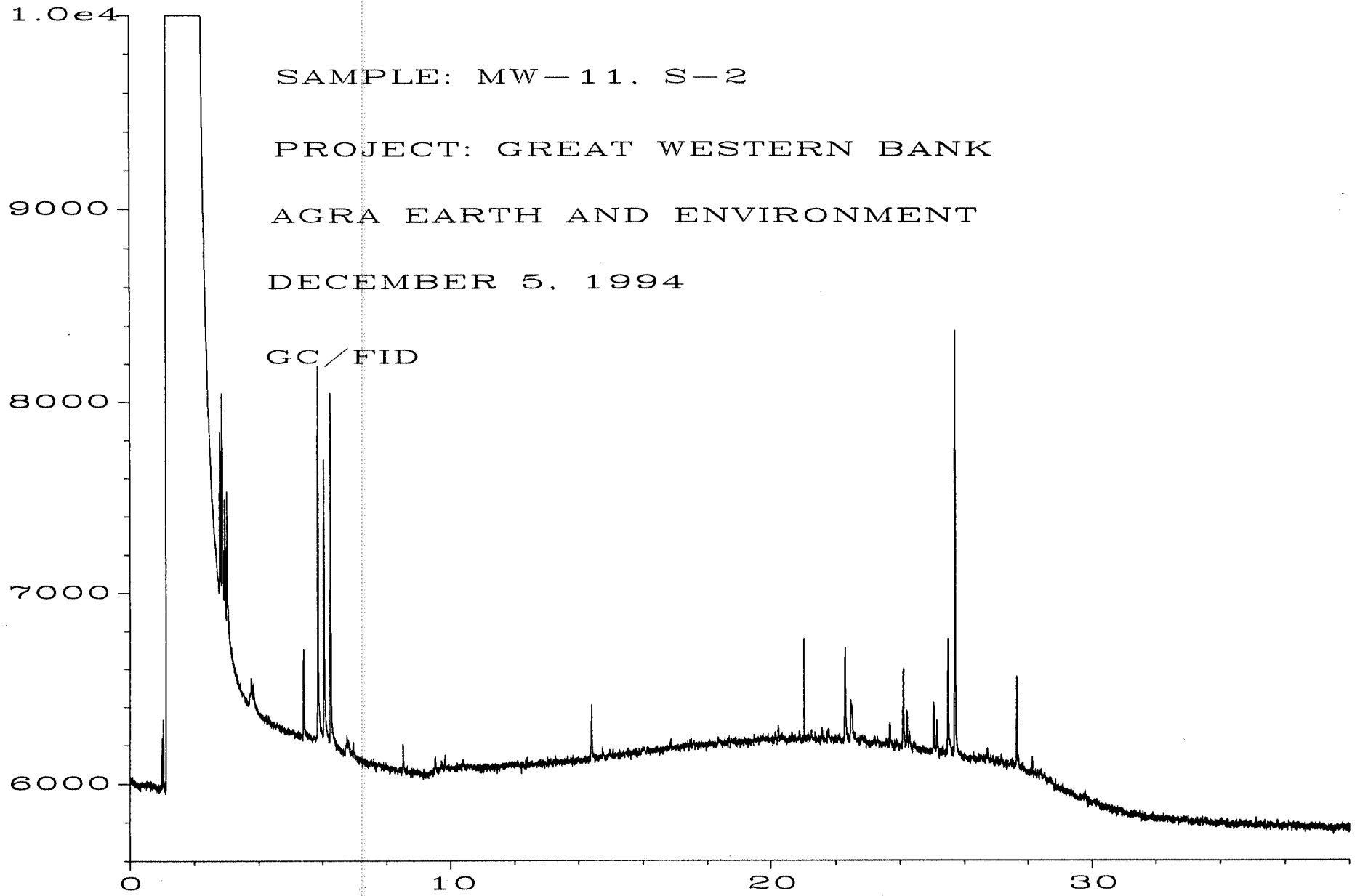
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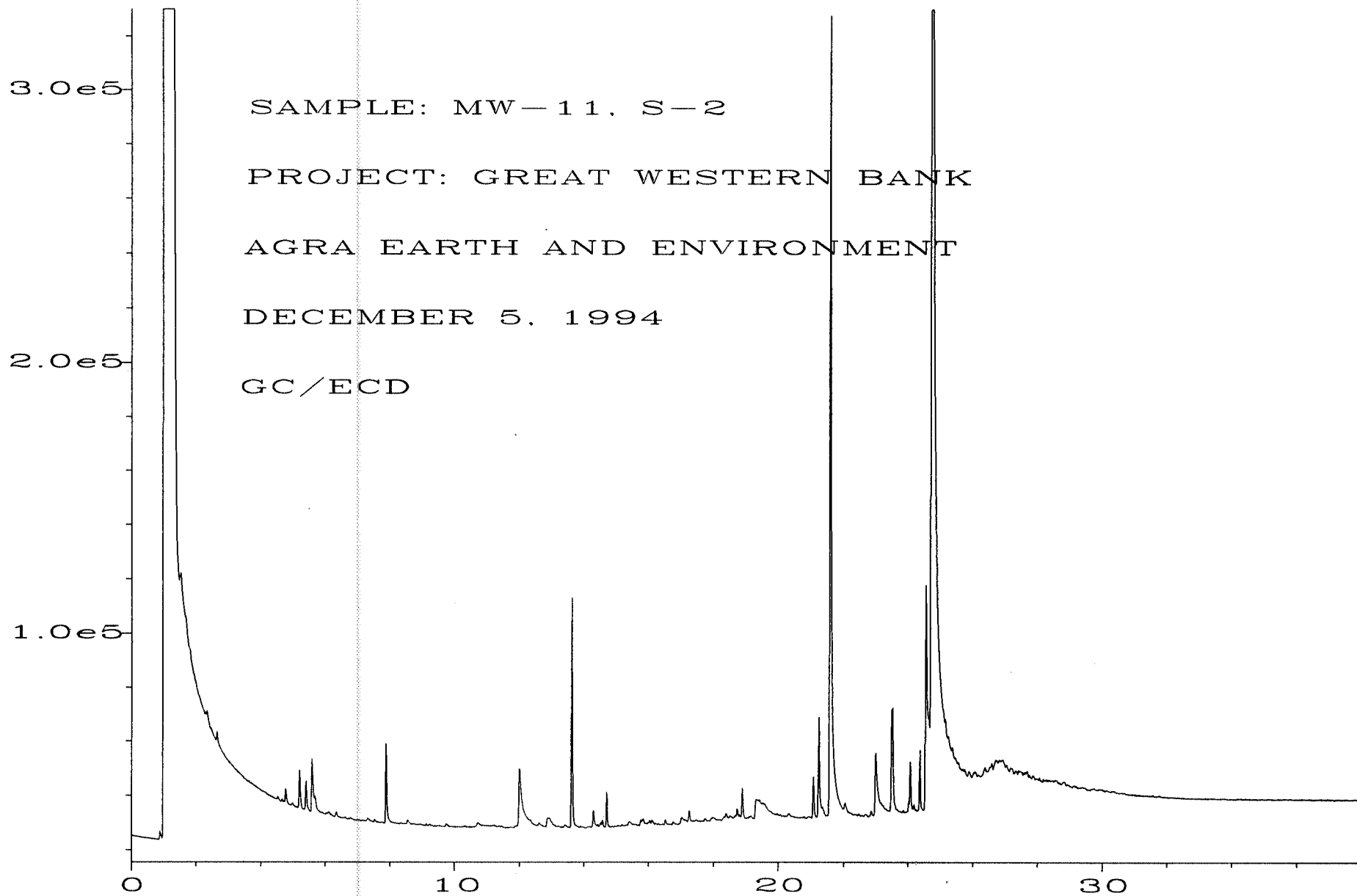


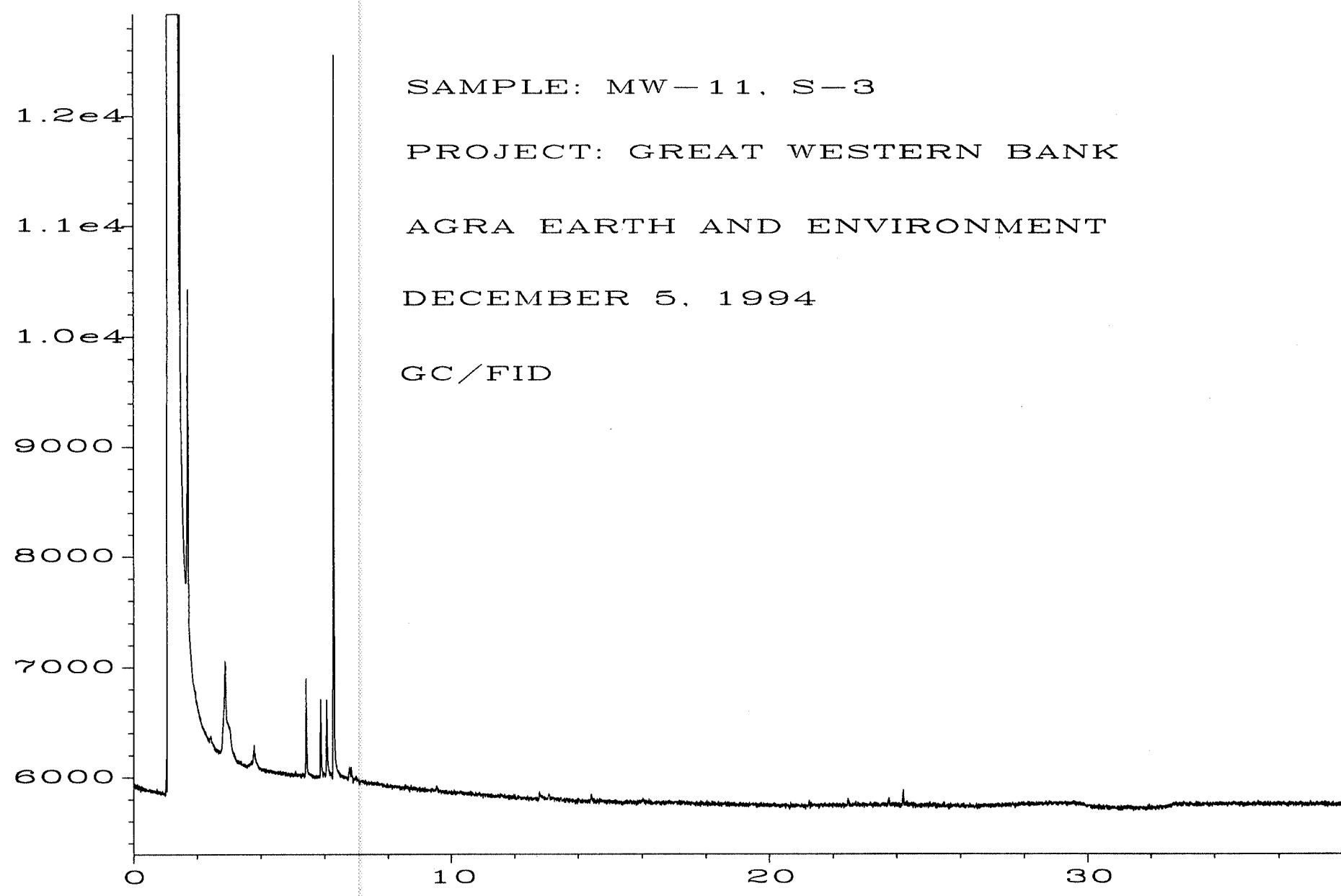
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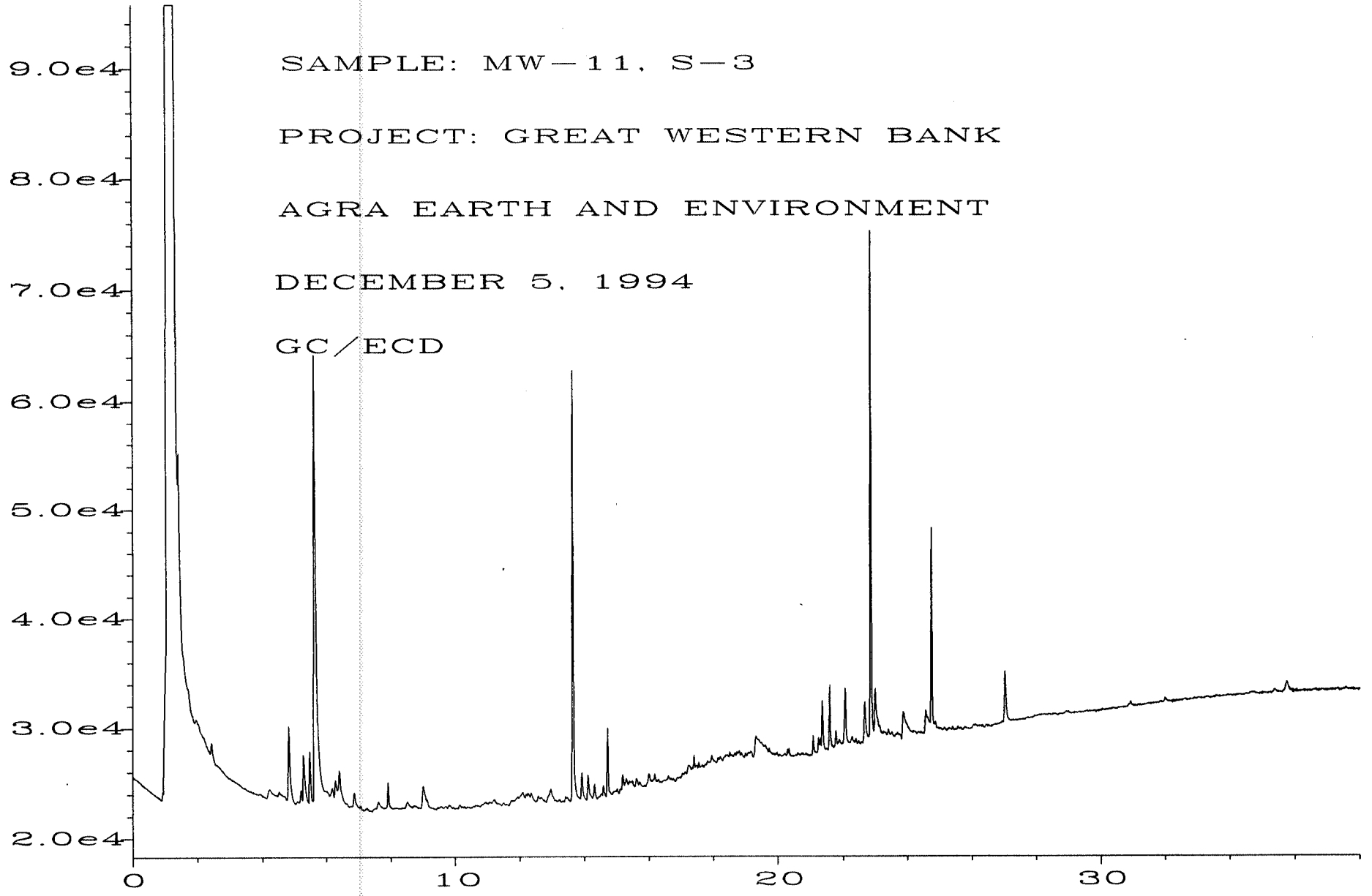
SAMPLE: MW-11, S-3

PROJECT: GREAT WESTERN BANK

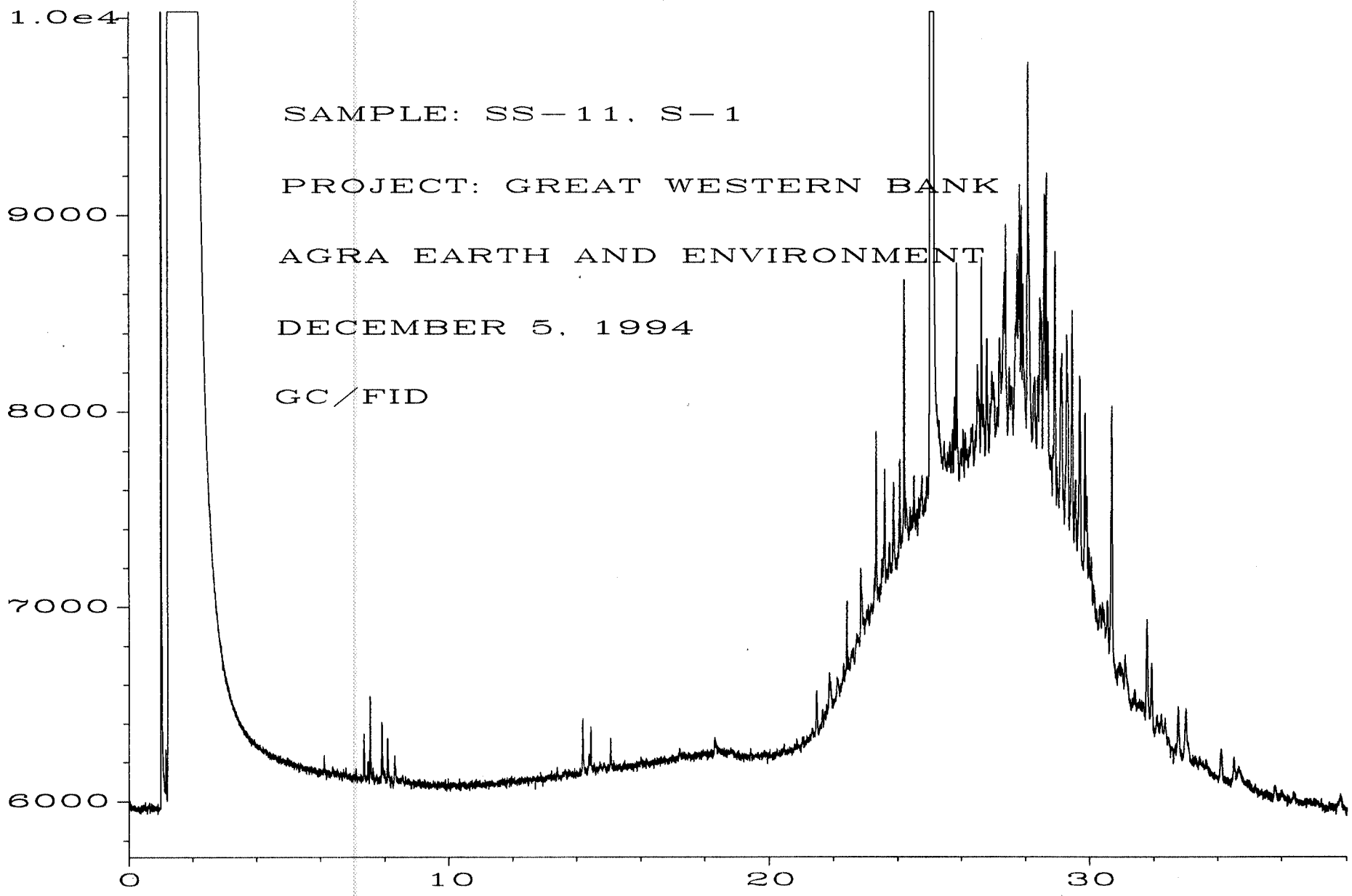
AGRA EARTH AND ENVIRONMENT

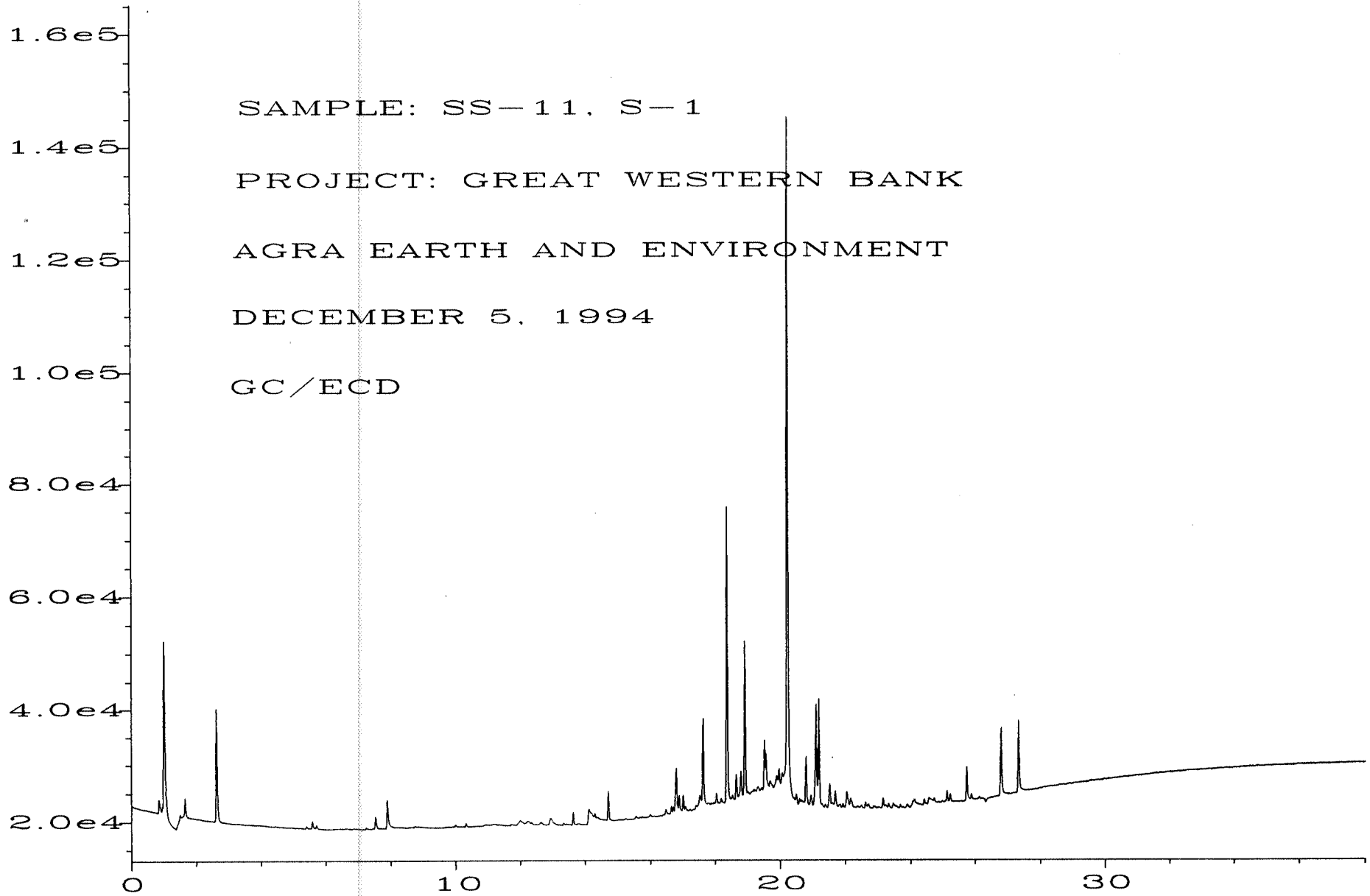
DECEMBER 5, 1994

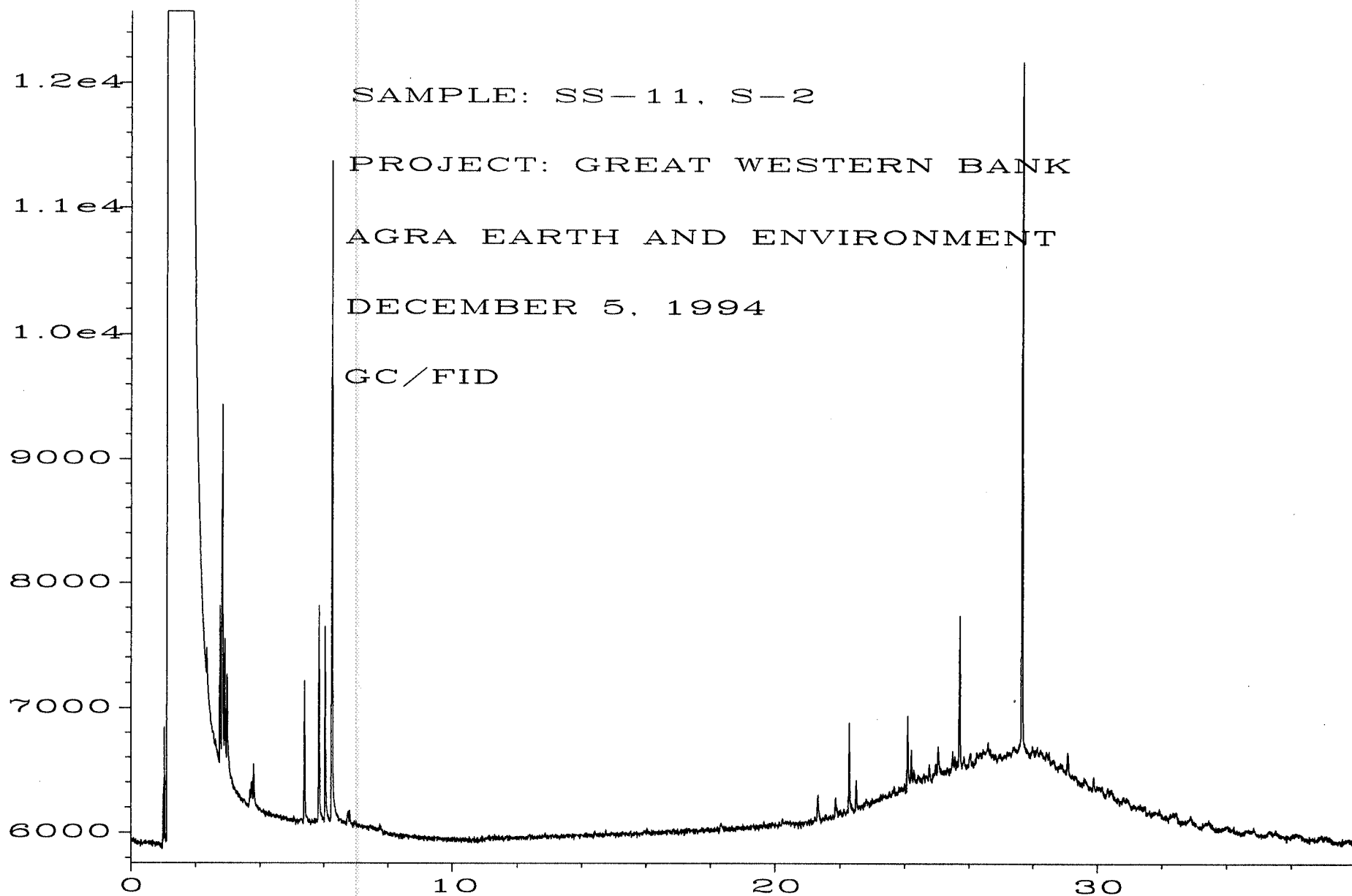
GC/FID

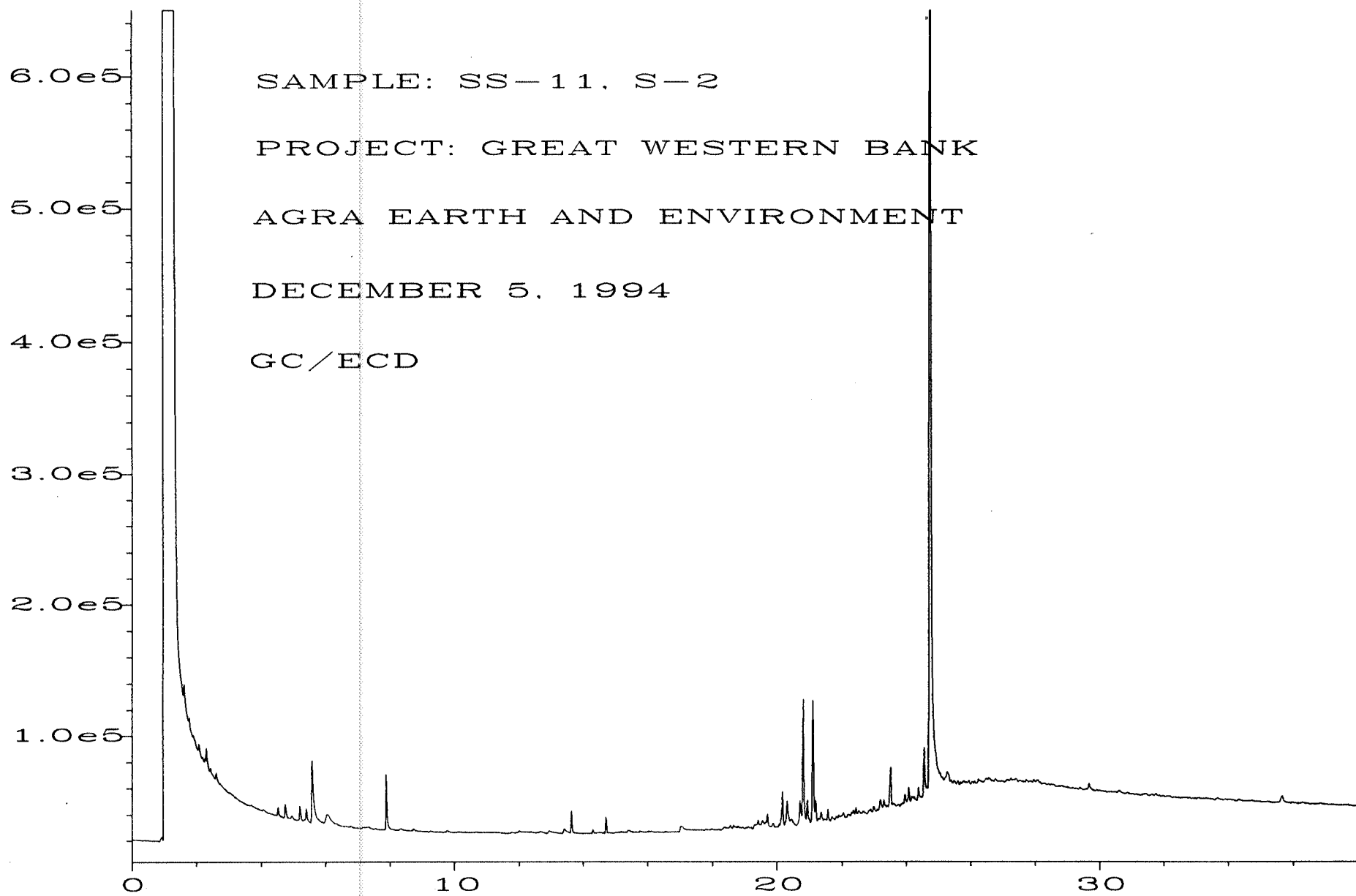


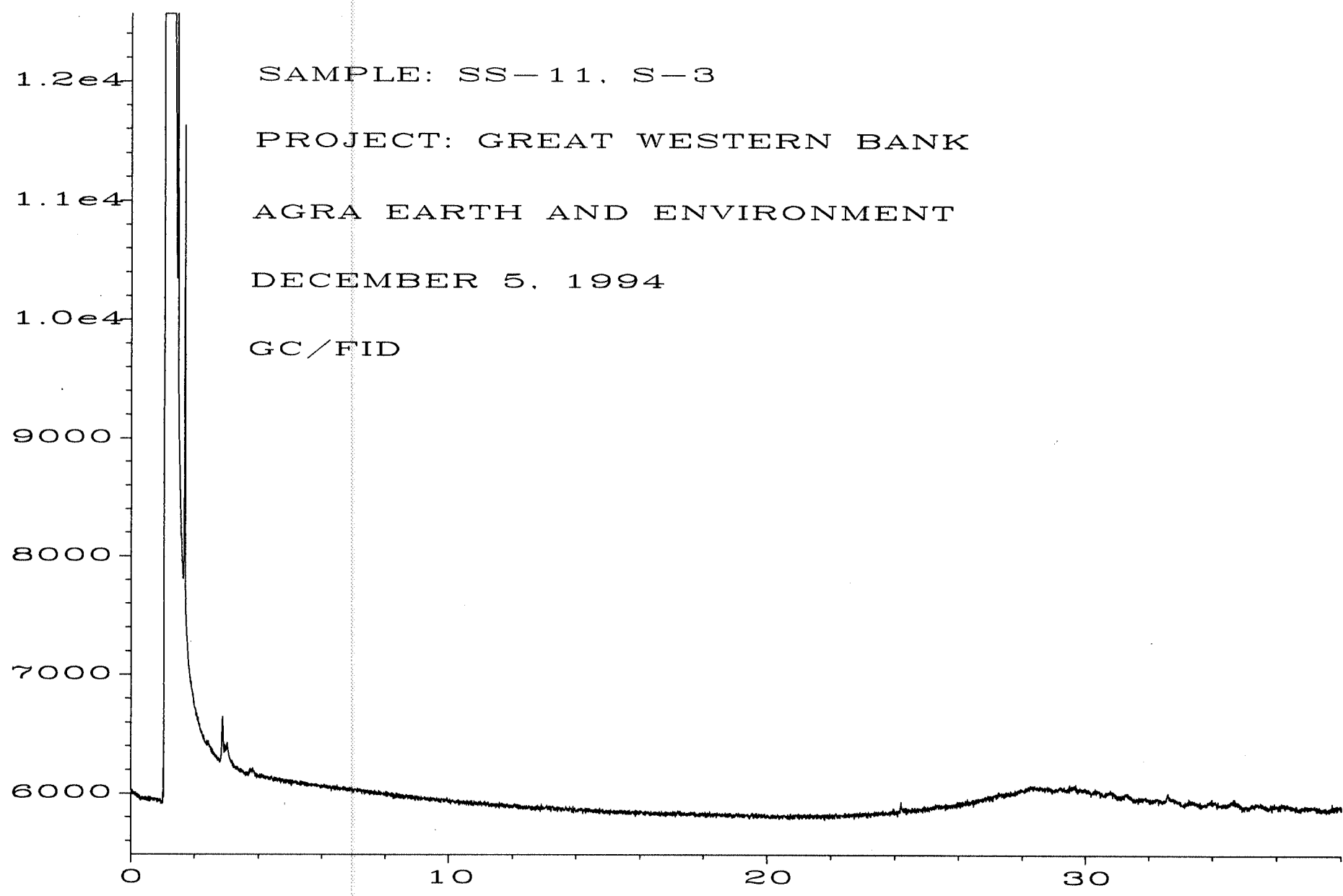
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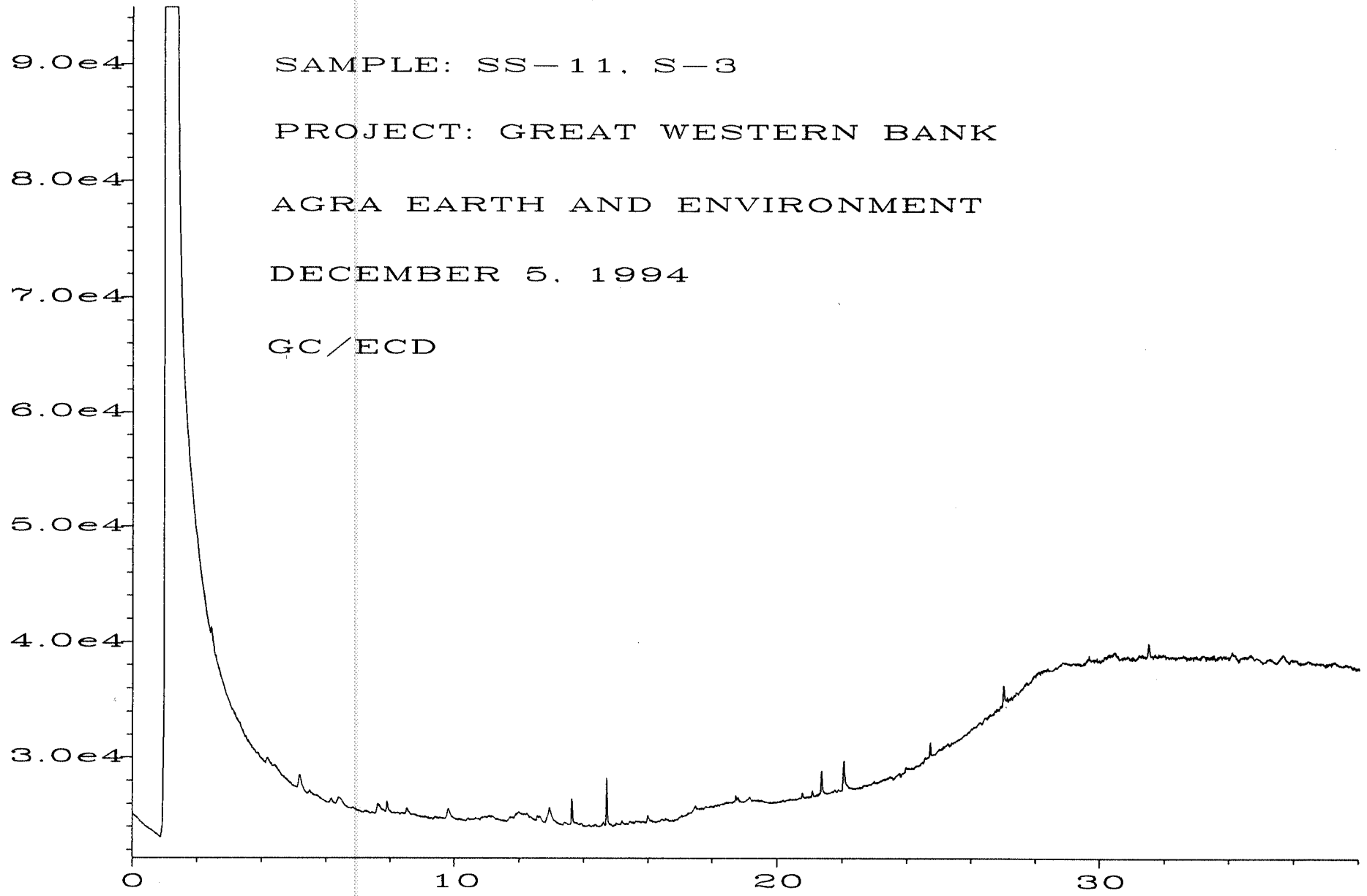












Appendix C

APPENDIX C
LABORATORY TEST PROCEDURES



APPENDIX C LABORATORY TEST PROCEDURES

Laboratory Testing Procedures

Soil samples were selected from each exploration, and groundwater samples were collected from each temporary monitoring well and submitted for analytical testing. Analyses were performed by North Creek Analytical, Inc. of Bothell, Washington, and Friedman Bruya, Inc. of Seattle Washington, under subcontract to our firm. A brief description of each of the laboratory tests conducted is given below. The described test methods include designated Washington State Department of Ecology methods and standard procedures.

WTPH-D Extended

WTPH-D Extended adapts EPA SE-846 methods 3540/3550 and 8000/8015 and covers the quantitative analysis of diesel and motor oil in soil and groundwater. Analytes are extracted by mixing the soil samples with methylene chloride in a sonicator. The extract can be filtered, diluted or concentrated, as appropriate. Analysis of the extract is conducted utilizing a gas chromatograph coupled with a flame ionizing detector (FID).

Analytes are extracted from water samples by mixing the samples with methylene chloride in a separator funnel. The methylene chloride extract can be diluted or concentrated as necessary. The remainder of the analysis is the same as that used for soil. Analysis is primarily restricted to petroleum hydrocarbons in the C₁₂ to C₂₄ (diesel) and C₂₄ to C₃₂ (motor oil).

Polychlorinated Bi-phenyls

Analysis for polychlorinated bi-phenyls (PCBs) was performed on select soil samples in accordance with EPA method 8080. Method 8080 provides gas chromatographic conditions for the detection of parts per billion (ppb) levels of certain organochlorine pesticides and PCBs. Prior to the use of this method appropriate sample extraction techniques must be used. Both heated and diluted organic liquids (Method 3580, Waste Dilution) may be analyzed by direct injection. A 2 to 5-u L sample is injected into a gas chromatograph (GC) using the solvent flush technique, and compounds in the GC effluent are detected by an electron capture detector (ECD) or a halogen specific detector (HSD).

The sensitivity of Method 8080 usually depends on the level of interferences rather than on instrumental limitations.

Volatile Organic Compounds

Volatile organic compound analysis of select soil and fluid samples was performed in accordance with EPA Method 8240. Method 8240 covers the determination of a number of purgeable organics. An inert gas is bubbled through 5 ml of the extracted sample, contained in a specially designed purging chamber at ambient temperature. The purgeables are efficiently transferred from the aqueous phase to the vapor phase. The vapor is then swept through a sorbent trap where the purgeables are collected. After purging is completed, the



trap is heated and backflushed with an inert gas to desorb the purgeables onto a gas chromatographic column. The gas chromatograph is temperature programmed to separate the purgeables which are then detected with a mass spectrometer.

Semi- Volatile Organic Compounds

Semi-volatile compound analysis of select soil and fluid samples was performed in accordance with EPA Method 8270. Method 8270 covers the determination of semi-volatile organics susceptible to extraction by methylene chloride. A measured aliquot of sample is acidified to a pH of 2 and extracted with methylene chloride using a continuous liquid-liquid extractor. The aliquot is then dried and concentrated to a volume of 1.0 mL. The resultant extract is analyzed by GC/MS. Qualitative identification of analytes in the extract is performed using the retention time and the relative abundance of three characteristic mass to charge ratios (m/z). Quantitative analysis is performed using internal standard techniques with a single characteristic m/z.

PH

The PH of calcareous and non-calcareous soil is done by mixing the soil sample with either type II water or with a calcium chloride solution depending on whether the soil is calcareous or non-calcareous. The PH of the solution is then measured with a PH meter. Similarly, water samples are measured using a PH meter.

Aromatic Volatile Organics by 8020

Method 8020 is used to determine the concentration of various aromatic volatile organic compounds. This method provides chromatographic conditions for the detection of aromatic volatile compounds. Samples can be analyzed using direct injection of purge-and-trap(Method 5030). Groundwater samples must be determined using method 5030. A temperature program is used in the gas chromatograph to separate the organic compounds. Detection is achieved by a photo ionizing detector(PID).

Priority Pollutant Metals by Method 6010, Inductively Coupled Plasma

Prior to analysis by ICP the sample must be dissolved or digested using appropriate sample preparation methods (e.g. Methods 3005-3050)

The thirteen priority pollutant metals are Antimony(Sb), Arsenic(As), Beryllium(Be), Cadmium(Cd), Chromium(Cr), Copper(Cu), Mercury(Hg), Nickel(Ni), Selenium(Se), Silver(Ag), Platinum(Pt), Thallium(Tl), and Zinc(Zn). Method 6010 describes the simultaneous, or sequential determination of elements by ICP. The method measures the light emitted by individual elements using optical spectrometry. Samples are nebulized and the resulting aerosol is transported to a plasma torch. Element-specific atomic-lines and spectra are produced by a radio-frequency inductively coupled plasma. The spectra are dispersed by a grating spectrometer, and the intensities of the lines are monitored by photomultiplier tubes.



Appendix D

APPENDIX D
ANALYTICAL RESULTS



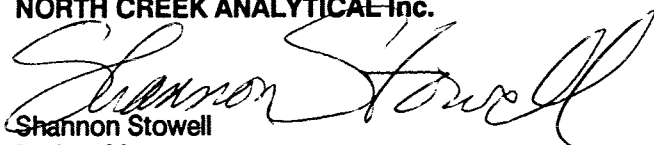
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-9378-02 Sample Matrix: Water Analysis Method: WTPH-D Extended First Sample #: 411-1184	Sampled: Nov 15, 1994 Received: Nov 15, 1994 Extracted: Nov 17, 1994 Analyzed: Nov 18, 1994 Reported: Nov 21, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
411-1184	MW-10	1.3	2.3	84
411-1185	MW-11	5.3	41	88
BLK111794	Method Blank	N.D.	N.D.	58

Reporting Limit:	0.25	0.75
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2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.
Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-9378-02
 Sample Matrix: Water
 Analysis Method: WTPH-D
 Units: mg/L (ppm)

Analyst: D. Anderson
 Extracted: Nov 17, 1994
 Analyzed: Nov 18, 1994
 Reported: Nov 21, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

PRECISION ASSESSMENT Sample Duplicate

Diesel

Diesel Range
 Organics

Spike Conc.
 Added: 2.1

Sample
 Number: 411-1035

Spike
 Result: 2.0

Original
 Result: N.D.

%
 Recovery: 95

Duplicate
 Result: N.D.

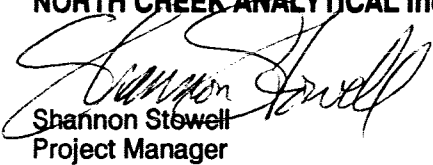
Upper Control
 Limit %: 126

Relative % Difference Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Lower Control
 Limit %: 71

Maximum
 RPD: 39

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
 Project Manager

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$	
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$	

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-9378-02 Sample Descript: Water, MW-10 Analysis Method: EPA 8081 Sample Number: 411-1184	Sampled: Nov 15, 1994 Received: Nov 15, 1994 Extracted: Nov 17, 1994 Analyzed: Nov 21, 1994 Reported: Nov 21, 1994
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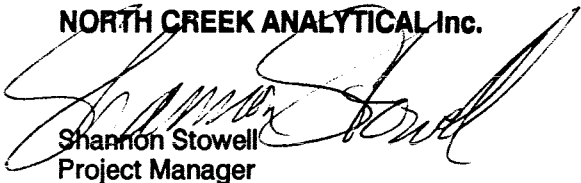
ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.080	N.D.
alpha-BHC.....	0.040	N.D.
beta-BHC.....	0.060	N.D.
delta-BHC.....	0.040	N.D.
gamma-BHC (Lindane).....	0.060	N.D.
Chlordane.....	0.30	N.D.
4,4'-DDD.....	0.080	N.D.
4,4'-DDE.....	0.060	N.D.
4,4'-DDT.....	0.18	N.D.
Dieldrin.....	0.14	N.D.
Endosulfan I.....	0.060	N.D.
Endosulfan II.....	0.10	N.D.
Endosulfan sulfate.....	0.14	N.D.
Endrin.....	0.16	N.D.
Endrin aldehyde.....	0.16	N.D.
Heptachlor.....	0.060	N.D.
Heptachlor epoxide.....	0.060	N.D.
Methoxychlor.....	10	N.D.
Toxaphene.....	1.0	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	0.41
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 87
 Surrogate Recovery Control Limits are 33 - 124 %.

Analytes reported as N.D. were not detected above the stated Reporting Limit. Because matrix effects and/or other factors required additional sample dilution, reporting limits for this sample have been raised.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: BBP, #11-9378-02
 Sample Descript: Method Blank
 Analysis Method: EPA 8081
 Sample Number: BLK111794

 Extracted: Nov 17, 1994
 Analyzed: Nov 20, 1994
 Reported: Nov 21, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.10	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 98
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-9378-02
 Sample Matrix: Water
 Analysis Method: EPA 8080
 Units: µg/L (ppb)
 QC Sample #: 411-0520

Analyst: M. Selbel
 Extracted: Nov 17, 1994
 Analyzed: Nov 20, 1994
 Reported: Nov 21, 1994

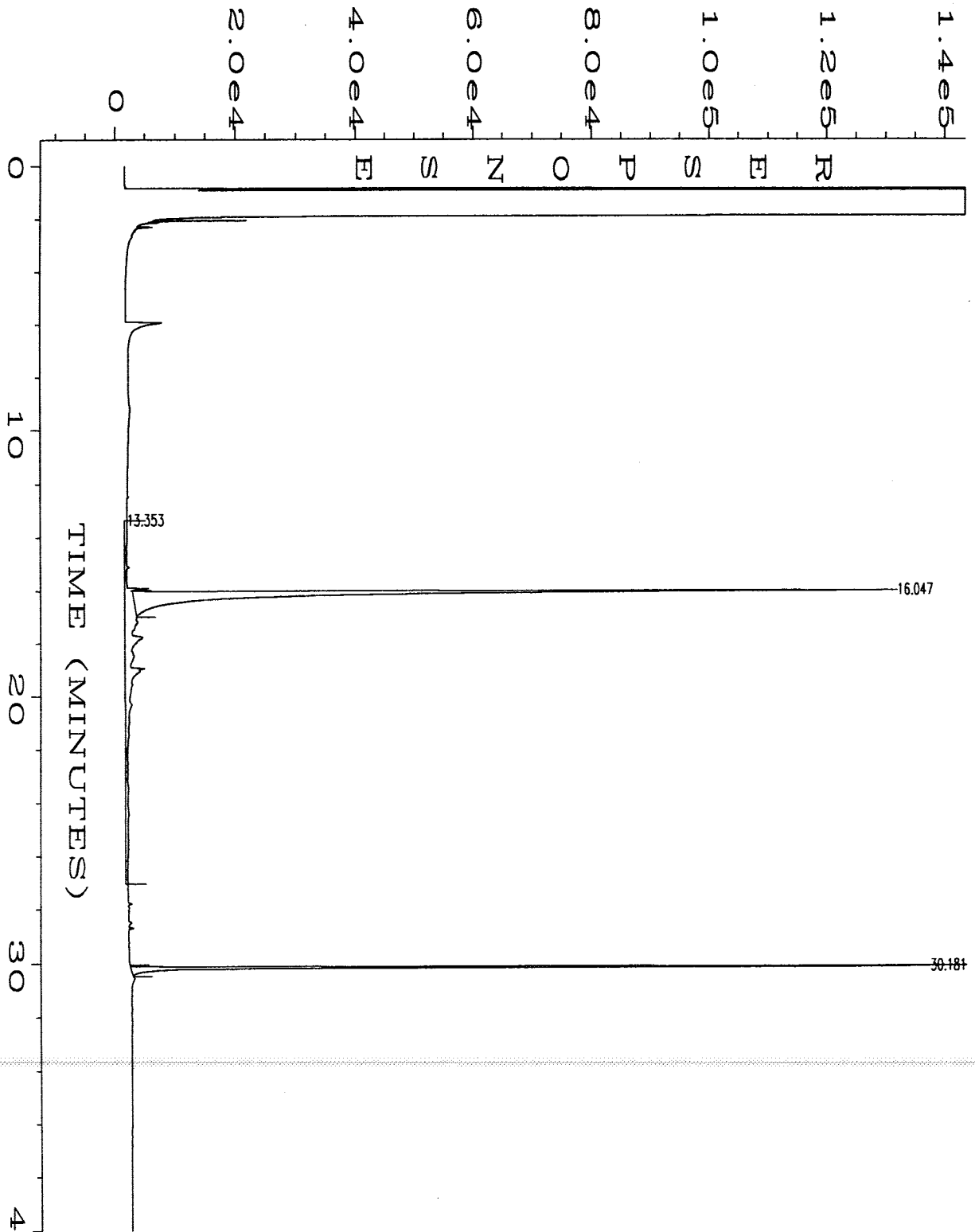
MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Lindane	Heptachlor	Aldrin	Aroclor 1260
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.83	0.83	0.83	6.7
Spike Result:	0.90	1.11	0.83	6.1
Spike % Recovery:	108%	134%	100%	91%
Spike Dup. Result:	0.93	1.04	0.83	6.1
Spike Duplicate % Recovery:	112%	125%	100%	91%
Upper Control Limit %:	151	166	150	135
Lower Control Limit %:	60	25	46	52
Relative % Difference:	3.2%	6.5%	0.0%	0.0%
Maximum RPD:	50	50	50	50

NORTH CREEK ANALYTICAL Inc.

% Recovery:	$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

Shannon Stowell
 Project Manager



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV18\026F0601.D	Page Number	: 1
Operator	: DAVE	Vial Number	: 26
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: BLK11/17W8015	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 09:12 PM	Analysis Method	: TPH1F.MTH
Report Created on:	18 Nov 94 10:05 PM		

=====
Area Percent Report
 =====

Data File Name : C:\HPCHEM1\DATA\NOV18\026F0601.D
 Operator : DAVE Page Number : 1
 Instrument : PHILLIP Vial Number : 26
 Sample Name : BLK11/17W8015 Injection Number : 1
 Run Time Bar Code: Sequence Line : 6
 Acquired on : 18 Nov 94 09:12 PM Instrument Method: TPH1F.MTH
 Report Created on: 18 Nov 94 10:05 PM Analysis Method : TPH1F.MTH

Sig. 1 in C:\HPCHEM1\DATA\NOV18\026F0601.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.353	682608	130587	MM R	0.087	30.163
2	16.047	1013169	128747	MM T	0.117	44.7698
3	30.181	567288	189912	MM T	0.05	25.0673

Total area = 2263065

User Modified

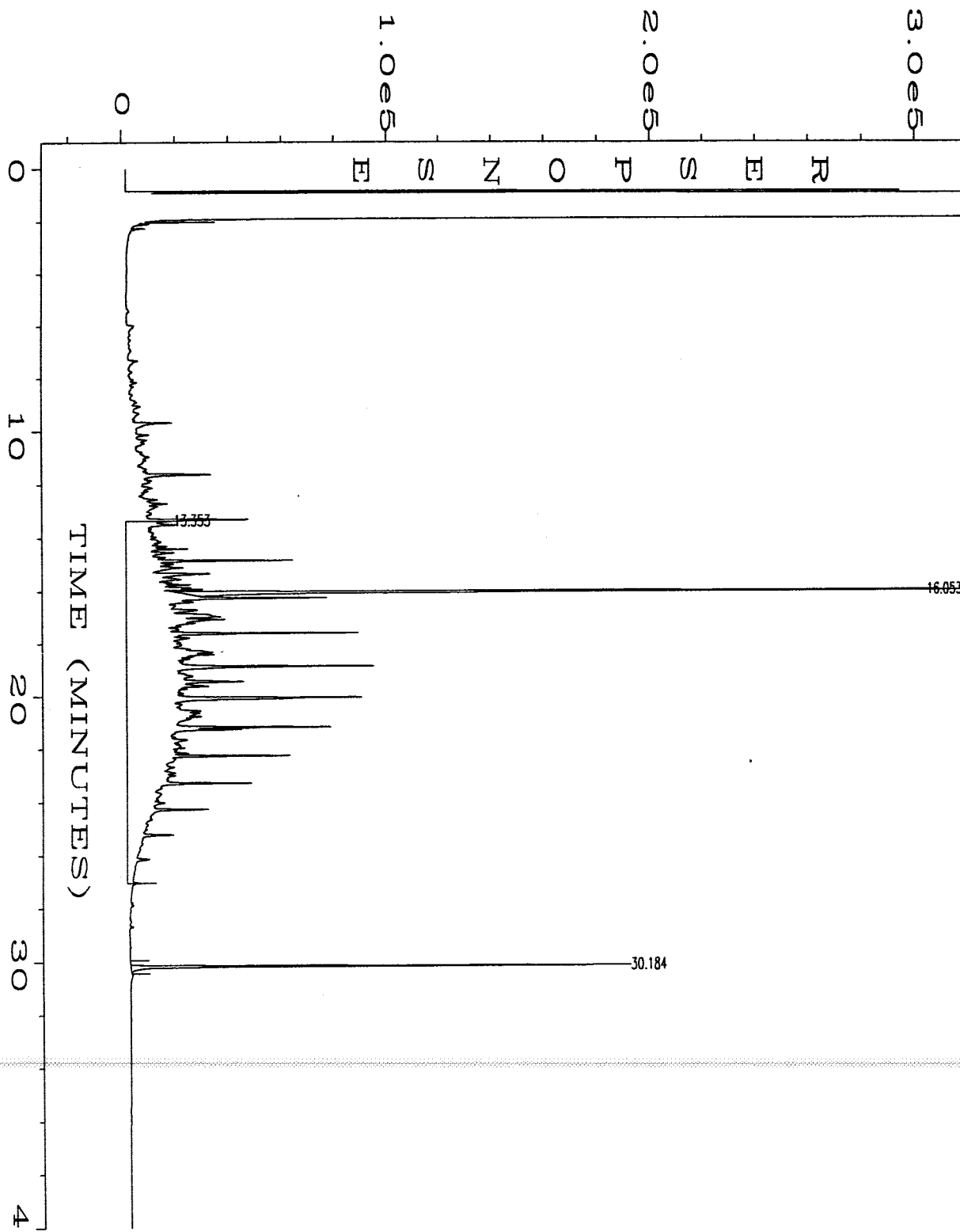
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Extraction Parameters-	Initial Wt.(g)/Vol(L):	1000	Final Volume(mL):	1
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Instrument Parameters-			
Dilution Fact.:	1	Injection Volume:	0.002
Calibration RF:	3607	2 Fbp RF:	3898
Analysis:	TPH1F.MTH	Octacosane RF:	1405

Integration Results (Area)-			
Total:	682608	2FBP:	1013169
		Oct:	567288

Calculation Results-			
Concentration(mg/kg or mg/L):	0.09		
2Fbp conc (mg/kg or mg/L):	0.13	2 FBP %:	58%
Octacosane conc (mg/kg or mg/L):	0.20	OCT %:	85%



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV18\027F0601.D	Page Number	: 1
Operator	: DAVE	Vial Number	: 27
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: BS11/17W8015	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 10:09 PM	Analysis Method	: TPH1F.MTH
Report Created on:	18 Nov 94 10:57 PM		

=====
Area Percent Report
 =====

Data File Name : C:\HPCHEM\1\DATA\NOV18\027F0601.D
 Operator : DAVE Page Number : 1
 Instrument : PHILLIP Vial Number : 27
 Sample Name : BS11/17W8015 Injection Number : 1
 Run Time Bar Code: Sequence Line : 6
 Acquired on : 18 Nov 94 10:09 PM Instrument Method: TPH1F.MTH
 Report Created on: 18 Nov 94 10:57 PM Analysis Method : TPH1F.MTH

Sig. 1 in C:\HPCHEM\1\DATA\NOV18\027F0601.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.353	1.45E+07	425108	MM R	0.567	88.7009
2	16.053	1266981	405204	MM T	0.052	7.7643
3	30.184	576806	192678	MM T	0.05	3.5348

Total area = 1.6318E+007

User Modified

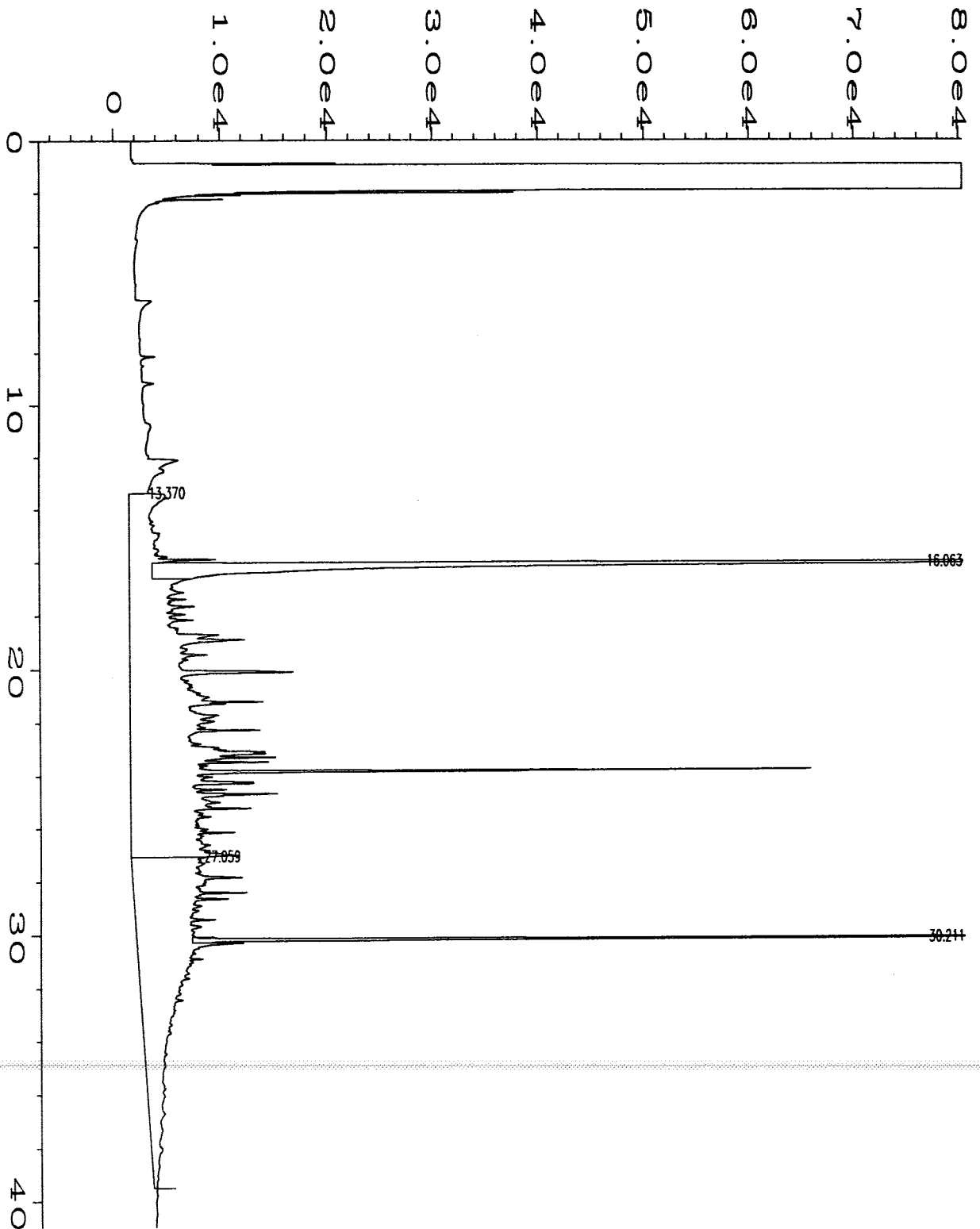
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Extraction Parameters-	Initial Wt.(g)/Vol(L):	1000	Final Volume(mL):	1
------------------------	------------------------	------	-------------------	---

Instrument Parameters-			
Dilution Fact.:	1	Injection Volume:	0.002
Calibration RF:	3607	2 Fbp RF:	3898
Analysis:	TPH1F.MTH	Octacosane RF:	1405

Integration Results (Area)-			
Total:	14474200	2FBP:	1266981
		Oct:	576806

Calculation Results-			
Concentration(mg/kg or mg/L):	2.01		
2Fbp conc (mg/kg or mg/L):	0.16	2 FBP %:	71%
Octacosane conc (mg/kg or mg/L):	0.21	OCT %:	89%



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV18\028F0601.D	Page Number	: 1
Operator	: DAVE	Vial Number	: 28
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1184 W	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 11:02 PM	Analysis Method	: TPH1F.MTH
Report Created on:	19 Nov 94 10:51 AM		

=====
Area Percent Report
=====

Data File Name : C:\HPCHEM\1\DATA\NOV18\028F0601.D
Operator : DAVE Page Number : 1
Instrument : PHILLIP Vial Number : 28
Sample Name : 411-1184 W Injection Number : 1
Run Time Bar Code: Sequence Line : 6
Acquired on : 18 Nov 94 11:02 PM Instrument Method: TPH1F.MTH
Report Created on: 19 Nov 94 10:51 AM Analysis Method : TPH1F.MTH

Sig. 1 in C:\HPCHEM\1\DATA\NOV18\028F0601.D

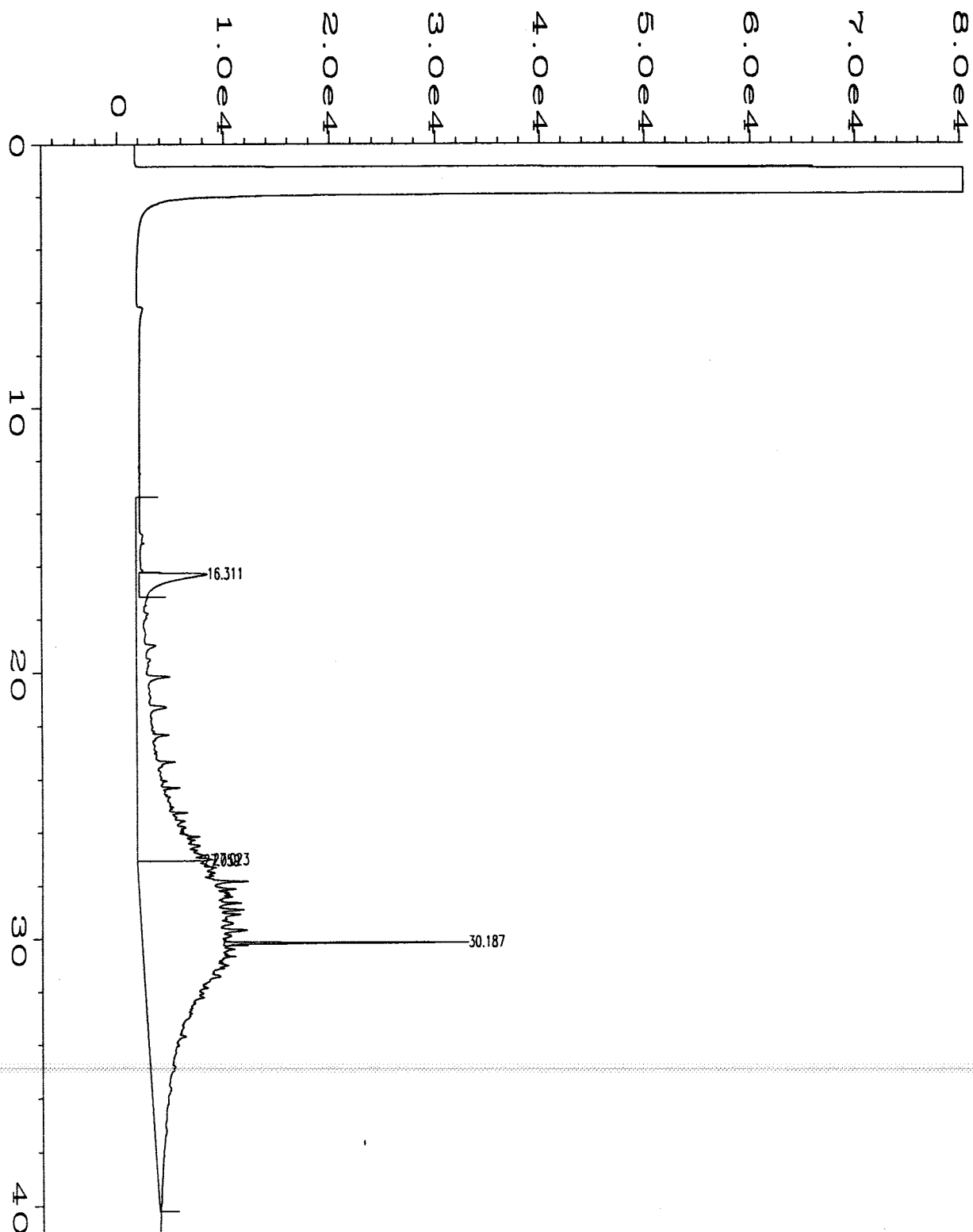
Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.370	4653816	319644	MM R	0.243	50.8793
2	16.063	1479342✓	317533	MM T	0.078	16.1734
3	27.059	2449712	200294	MM R	0.204	26.7822
4	30.211	563908✓	195107	MM T	0.048	6.1651

Total area = 9146777

User Modified

=====

user modified



Data File Name : C:\HPCHEM\1\DATA\NOV18\029F0601.D
Operator : DAVE
Instrument : PHILLIP
Sample Name : 411-1185 W 11X
Run Time Bar Code:
Acquired on : 18 Nov 94 11:55 PM
Report Created on: 19 Nov 94 10:53 AM
Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 6
Instrument Method: TPH1F.MTH
Analysis Method : TPH1F.MTH

=====
Area Percent Report
=====

Data File Name : C:\HPCHEM\1\DATA\NOV18\029F0601.D
Operator : DAVE Page Number : 1
Instrument : PHILLIP Vial Number : 29
Sample Name : 411-1185 W 11X Injection Number : 1
Run Time Bar Code: Sequence Line : 6
Acquired on : 18 Nov 94 11:55 PM Instrument Method: TPH1F.MTH
Report Created on: 19 Nov 94 10:53 AM Analysis Method : TPH1F.MTH

Sig. 1 in C:\HPCHEM\1\DATA\NOV18\029F0601.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	16.311	140350✓	6341	MM T	0.369	2.9763
2	27.023	1397955	7087	MM R	3.288	29.6449
3	27.059	3113257	30931	MM R	1.678	66.0196
4	30.187	64098✓	23287	MM T	0.046	1.3593

Total area = 4715659

User Modified

=====

CHAIN OF CUSTODY

PROJECT <i>Bullfield Business Park</i>				PROJECT No. <i>U 9378-02</i>		ANALYSIS REQUESTED (circle, check box or write preferred method in box)																			
CLIENT				PHONE No.		BTEX by EPA 602 / 8020	WTPH-G	BTEX / WTPH-G	WTPH-HClD	WTPH-D / WTPH-D EXTENDED	TPH by EPA 8015 MODIFIED	WTPH-418.1 MODIFIED	TPH by EPA 418.1	GC / MS EPA 624 / 8240 or EPA 8260 Volatiles	GC / MS EPA 625 / 8270 Semi-volatiles	VOCs EPA 601 / 8010 or EPA 602 / 8020	PCBs EPA 608 / 8080	LEAD EPA 6010 / EPA 7421 Total / Dissolved	TOTAL METALS	TCLP					
PROJECT MANAGER <i>Rob Cousins</i>				PHONE No. <i>820-4669</i>																					
SAMPLER'S NAME (please print) <i>Eric L. Smith</i>				PHONE No. <i>—</i>																					
SAMPLER'S SIGNATURE <i>Eric L. Smith</i>																									
SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	CONTAINERS																				
					No.	VOL.																			
<i>MU-17</i>	<i>11/15/94</i>	<i>2:15</i>	<i>W</i>	<i>Ch:4</i>	<i>1</i>	<i>11.7L</i>																			<i>411 1186</i>
<i>MU-18</i>	<i>11/15/94</i>	<i>2:30</i>	<i>W</i>	<i>Ch:11</i>	<i>1</i>	<i>11.7L</i>																			<i>411 1187</i>
3.																									
4.																									
5.																									
6.																									
7.																									
8.																									
9.																									
10.																									

SAMPLE RECEIPT			LABORATORY			TURNAROUND TIME			SPECIAL INSTRUCTIONS / ADDITIONAL COMMENTS			
TOTAL # CONTAINERS <i>2</i>			SHIPPING I.D. / AIRBILL #			<input type="checkbox"/> 8 HOUR <input type="checkbox"/> 24 HOUR <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 2 WEEK (standard) <input type="checkbox"/> OTHER _____			<i>Bill to Great Western Bank</i> <i>Due Nov 11/21</i>			
CONDITION OF CONTAINERS			CARRIER									
CONDITION OF SEALS			DOT DESIGNATION									
RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME			
<i>Eric L. Smith / AGRA</i>			<i>11/15/94</i>	<i>15:53</i>	<i>Eric L. Smith / AGRA</i>			<i>11/15</i>	<i>1600</i>			

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Rob Cousins

Client Project ID: BBP, #11-9378-02
Sample Matrix: Water
Analysis Method: WTPH-D Extended
First Sample #: 411-1186

Sampled: Nov 15, 1994
Received: Nov 15, 1994
Extracted: Nov 17, 1994
Analyzed: Nov 18, 1994
Reported: Nov 21, 1994

TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
411-1186	MW-17	0.67	3.4	91
411-1187	MW-18	0.79	3.6	92
BLK111794	Method Blank	N.D.	N.D.	58

Reporting Limit:
0.25
0.75

2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.

Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-9378-02
 Sample Matrix: Water
 Analysis Method: WTPH-D
 Units: mg/L (ppm)

Analyst: D. Anderson
 Extracted: Nov 17, 1994
 Analyzed: Nov 18, 1994
 Reported: Nov 21, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

PRECISION ASSESSMENT Sample Duplicate

Diesel

Diesel Range
 Organics

Spike Conc.
 Added: 2.1

Sample
 Number: 411-1035

Spike
 Result: 2.0

Original
 Result: N.D.

%
 Recovery: 95

Duplicate
 Result: N.D.

Upper Control
 Limit %: 126

Relative % Difference Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Lower Control
 Limit %: 71

Maximum
 RPD: 39

NORTH CREEK ANALYTICAL Inc.

% Recovery:

$$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$$

Relative % Difference:

$$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$$

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-9378-02
 Sample Descript: Water, MW-17
 Analysis Method: EPA 8081
 Sample Number: 411-1186

Sampled: Nov 15, 1994
 Received: Nov 15, 1994
 Extracted: Nov 17, 1994
 Analyzed: Nov 21, 1994
 Reported: Nov 21, 1994


ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.080	N.D.
alpha-BHC.....	0.040	N.D.
beta-BHC.....	0.060	N.D.
delta-BHC.....	0.040	N.D.
gamma-BHC (Lindane).....	0.060	N.D.
Chlordane.....	0.30	N.D.
4,4'-DDD.....	0.080	N.D.
4,4'-DDE.....	0.060	N.D.
4,4'-DDT.....	0.18	N.D.
Dieldrin.....	0.14	N.D.
Endosulfan I.....	0.060	N.D.
Endosulfan II.....	0.10	N.D.
Endosulfan sulfate.....	0.14	N.D.
Endrin.....	0.16	N.D.
Endrin aldehyde.....	0.16	N.D.
Heptachlor.....	0.060	N.D.
Heptachlor epoxide.....	0.060	N.D.
Methoxychlor.....	10	N.D.
Toxaphene.....	1.0	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 93
 Surrogate Recovery Control Limits are 33 - 124 %.

Analytes reported as N.D. were not detected above the stated Reporting Limit. Because matrix effects and/or other factors required additional sample dilution, reporting limits for this sample have been raised.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-9378-02 Sample Descript: Water, MW-18 Analysis Method: EPA 8081 Sample Number: 411-1187	Sampled: Nov 15, 1994 Received: Nov 15, 1994 Extracted: Nov 17, 1994 Analyzed: Nov 21, 1994 Reported: Nov 21, 1994
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ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.080	N.D.
alpha-BHC.....	0.040	N.D.
beta-BHC.....	0.060	N.D.
delta-BHC.....	0.040	N.D.
gamma-BHC (Lindane).....	0.060	N.D.
Chlordane.....	0.30	N.D.
4,4'-DDD.....	0.080	N.D.
4,4'-DDE.....	0.060	N.D.
4,4'-DDT.....	0.18	N.D.
Dieldrin.....	0.14	N.D.
Endosulfan I.....	0.060	N.D.
Endosulfan II.....	0.10	N.D.
Endosulfan sulfate.....	0.14	N.D.
Endrin.....	0.16	N.D.
Endrin aldehyde.....	0.16	N.D.
Heptachlor.....	0.060	N.D.
Heptachlor epoxide.....	0.060	N.D.
Methoxychlor.....	10	N.D.
Toxaphene.....	1.0	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 98
Surrogate Recovery Control Limits are 33 - 124 %.

Analytes reported as N.D. were not detected above the stated Reporting Limit. Because matrix effects and/or other factors required additional sample dilution, reporting limits for this sample have been raised.

NORTH CREEK ANALYTICAL Inc.


Shanrien Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-9378-02
 Sample Descript: Method Blank
 Analysis Method: EPA 8081
 Sample Number: BLK111794

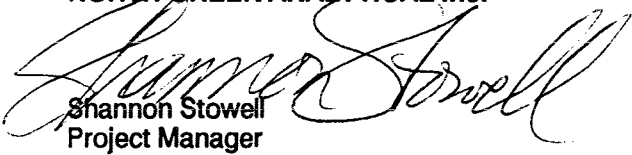
Extracted: Nov 17, 1994
 Analyzed: Nov 20, 1994
 Reported: Nov 21, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.10	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 98
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Rob Cousins

Client Project ID: BBP, #11-9378-02
Sample Matrix: Water
Analysis Method: EPA 8080
Units: µg/L (ppb)
QC Sample #: 411-0520

Analyst: M. Seibel
Extracted: Nov 17, 1994
Analyzed: Nov 20, 1994
Reported: Nov 21, 1994

MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Lindane	Heptachlor	Aldrin	Aroclor 1260
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.83	0.83	0.83	22
Spike Result:	0.90	1.11	0.83	20
Spike % Recovery:	108%	134%	100%	91%
Spike Dup. Result:	0.93	1.04	0.83	20
Spike Duplicate % Recovery:	112%	125%	100%	91%
Upper Control Limit %:	151	166	150	135
Lower Control Limit %:	60	25	46	52
Relative % Difference:	3.2%	6.5%	0.0%	0.0%
Maximum RPD:	50	50	50	50

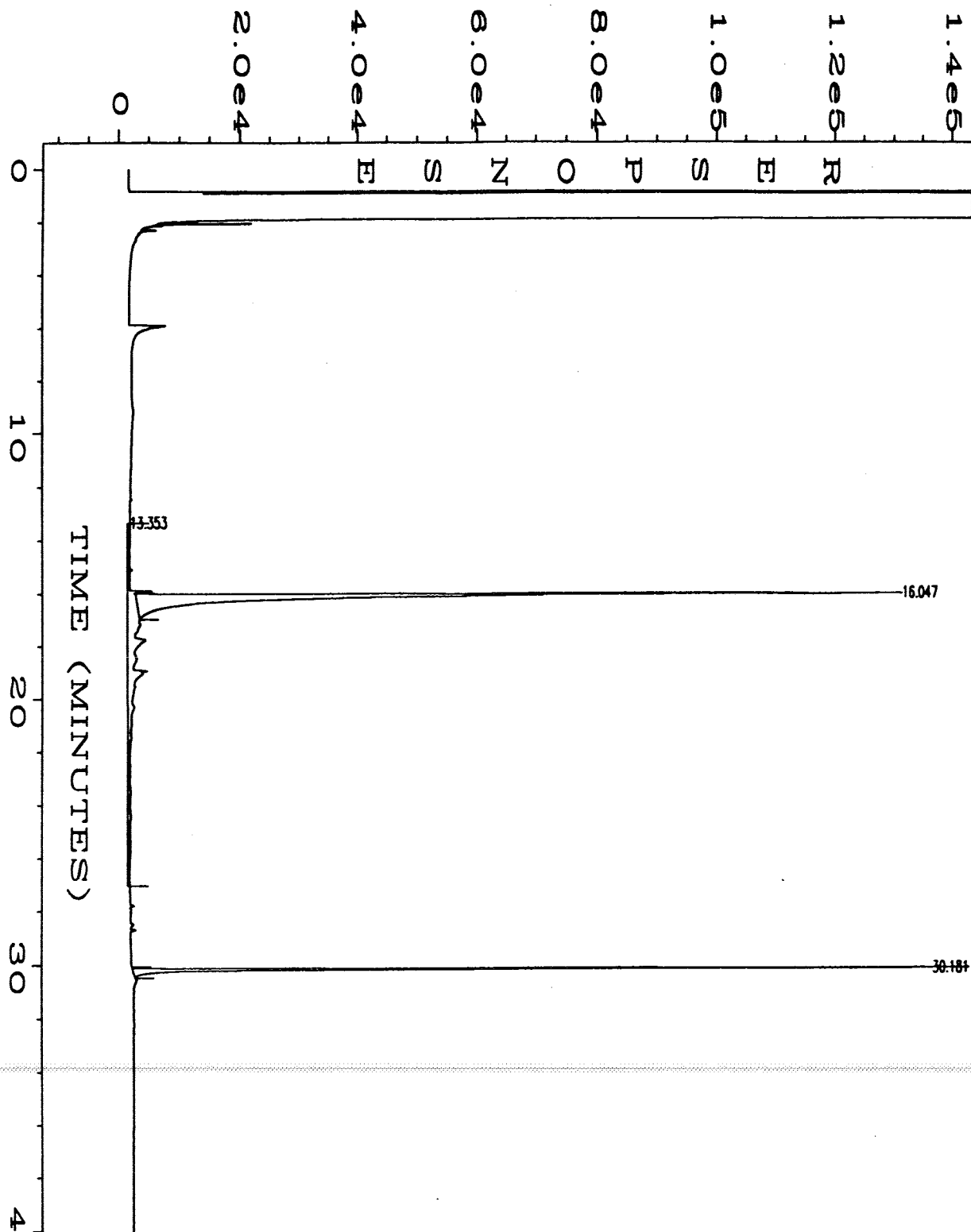
NORTH CREEK ANALYTICAL Inc.

% Recovery: $\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

Shannon Stowell
Project Manager

user modified



Data File Name : C:\HPCHEM\1\DATA\NOV18\026F0601.D
Operator : DAVE
Instrument : PHILLIP
Sample Name : BLK11/17W8015
Run Time Bar Code:
Acquired on : 18 Nov 94 09:12 PM
Report Created on: 18 Nov 94 10:05 PM
Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 6
Instrument Method: TPH1F.MTH
Analysis Method : TPH1F.MTH

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Area Percent Report
 =====

Data File Name : C:\HPCHEM1\DATA\NOV18\026F0601.D
 Operator : DAVE Page Number : 1
 Instrument : PHILLIP Vial Number : 26
 Sample Name : BLK11/17W8015 Injection Number : 1
 Run Time Bar Code: Sequence Line : 6
 Acquired on : 18 Nov 94 09:12 PM Instrument Method: TPH1F.MTH
 Report Created on: 18 Nov 94 10:05 PM Analysis Method : TPH1F.MTH

Sig. 1 in C:\HPCHEM1\DATA\NOV18\026F0601.D

PK#	Ret Time	Area	Height	Type	Width	Area %
1	13.353	682608	130587	MM R	0.087	30.163
2	16.047	1013169	128747	MM T	0.117	44.7898
3	30.181	567288	189912	MM T	0.05	25.0673

Total area = 2263065

User Modified

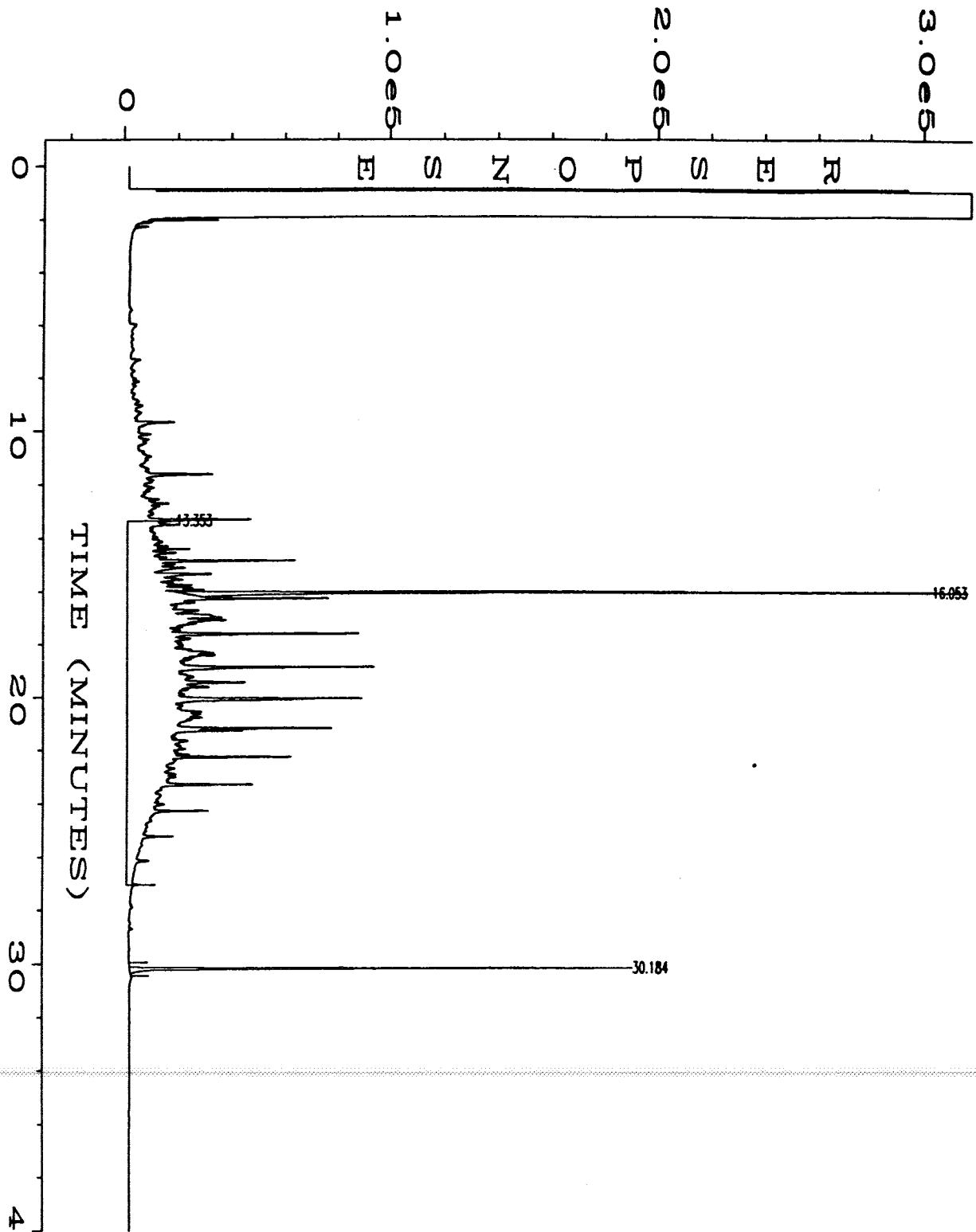
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Extraction Parameters-	Initial Wt.(g)/Vol(L):	1000	Final Volume(mL):	1
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Instrument Parameters-			
Dilution Fact.:	1	Injection Volume:	0.002
Calibration RF:	3607	2 Fbp RF:	3898
Analysis:	TPH1F.MTH	Octacosane RF:	1405

Integration Results (Area)-			
Total:	682608	2FBP:	1013169
		Oct:	567288

Calculation Results-			
Concentration(mg/kg or mg/L):	0.09		
2Fbp conc (mg/kg or mg/L):	0.13	2 FBP %:	58%
Octacosane conc (mg/kg or mg/L):	0.20	OCT %:	85%



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV18\027F0601.D	Page Number	: 1
Operator	: DAVE	Vial Number	: 27
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: BS11/17W8015	Sequence Line	: 6
Run Time Bar Code:		Instrument Method	: TPH1F.MTH
Acquired on	: 18 Nov 94 10:09 PM	Analysis Method	: TPH1F.MTH
Report Created on:	18 Nov 94 10:57 PM		

=====
Area Percent Report
 =====

Data File Name : C:\HPCHEM1\DATA\NOV18\027F0601.D
 Operator : DAVE Page Number : 1
 Instrument : PHILLIP Vial Number : 27
 Sample Name : BS11/17W8015 Injection Number : 1
 Run Time Bar Code: Sequence Line : 6
 Acquired on : 18 Nov 94 10:09 PM Instrument Method: TPH1F.MTH
 Report Created on: 18 Nov 94 10:57 PM Analysis Method : TPH1F.MTH

Sig. 1 in C:\HPCHEM1\DATA\NOV18\027F0601.D

PK#	Ret Time	Area	Height	Type	Width	Area %
1	13.353	1.45E+07	425108	MM R	0.567	88.7009
2	16.053	1266981	405204	MM T	0.052	7.7643
3	30.184	576806	192678	MM T	0.05	3.5348

Total area = 1.6318E+007

User Modified

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Extraction Parameters- Initial Wt.(g)/Vol(L): 1000 Final Volume(mL): 1

Instrument Parameters-

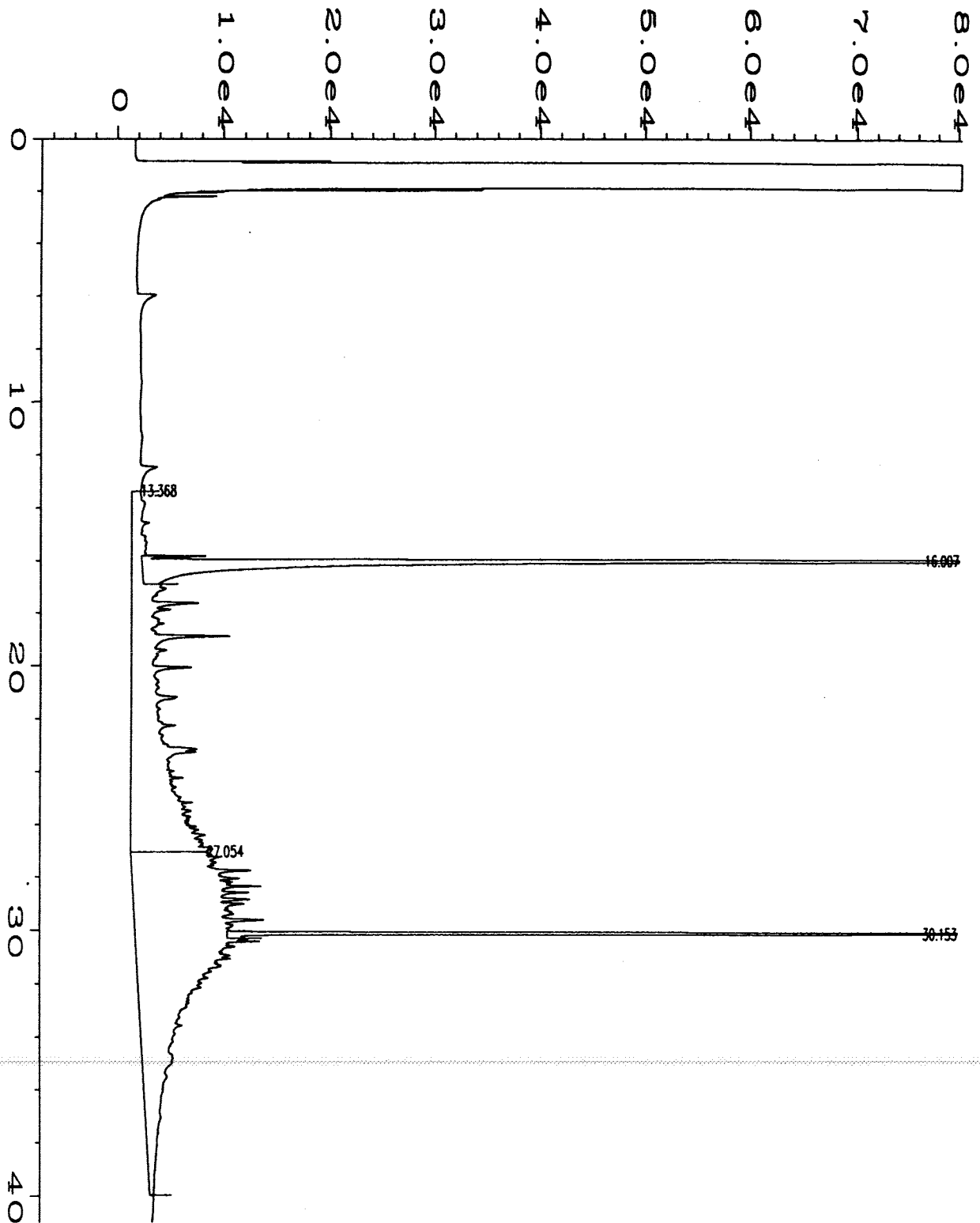
Dilution Fact.:	1	Injection Volume:	0.002
Calibration RF:	3607	2 Fbp RF:	3898
Analysis:	TPH1F.MTH	Octacosane RF:	1405

Integration Results (Area)-

Total:	14474200	2FBP:	1266981	Oct:	576806
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Calculation Results-

Concentration(mg/kg or mg/L):	2.01		
2Fbp conc (mg/kg or mg/L):	0.16	2 FBP %:	71%
Octacosane conc (mg/kg or mg/L):	0.21	OCT %:	89%



Data File Name	: C:\HPCHEM\1\DATA\NOV18\077F1301.D	Page Number	: 1
Operator	: DAVE	Vial Number	: 77
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1186 W	Sequence Line	: 13
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 19 Nov 94 11:58 AM	Analysis Method	: TPH1F.MTH
Report Created on:	19 Nov 94 01:07 PM		

Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\NOV18\077F1301.D
Operator : DAVE Page Number : 1
Instrument : PHILLIP Vial Number : 77
Sample Name : 411-1186 W Injection Number : 1
Run Time Bar Code: Sequence Line : 13
Acquired on : 19 Nov 94 11:58 AM Instrument Method: TPH1F.MTH
Report Created on: 19 Nov 94 01:07 PM Analysis Method : TPH1F.MTH

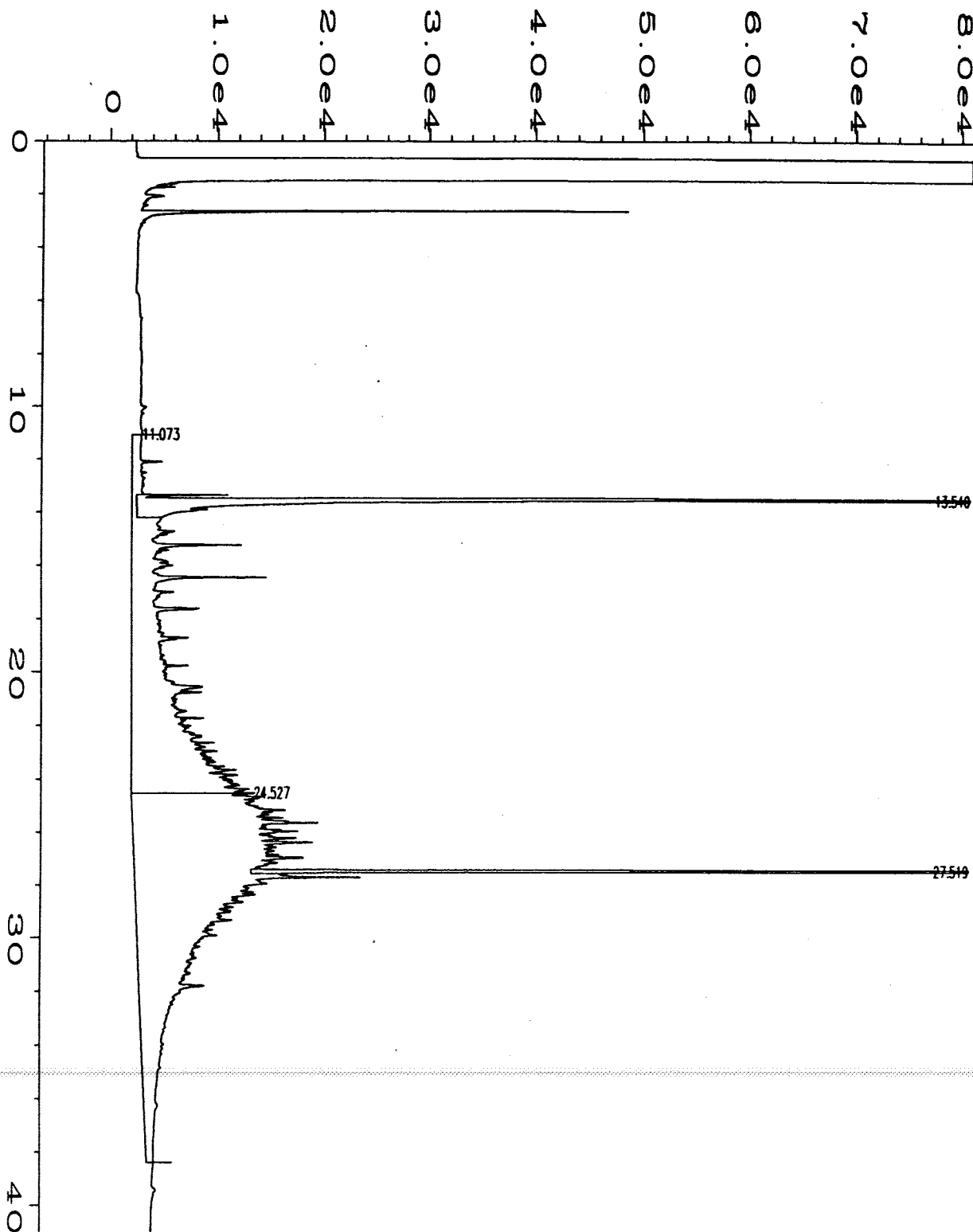
Sig. 1 in C:\HPCHEM\1\DATA\NOV18\077F1301.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.368	2428947	305087	MM R	0.133	29.3063
2	16.007	1594811	301826	MM T	0.125	19.2421
3	27.054	3537580	240376	MM R	0.245	42.6825
4	30.153	726787	231716	MM T	0.052	8.7690

Total area = 8288124

User Modified

p.67
91%
3.4



Data File Name	: C:\HPCHEM\1\DATA\NOV18\078R0601.D	Page Number	: 1
Operator	: DAVE	Vial Number	: 78
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1187 W	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 10:09 PM	Analysis Method	: TPH1F.MTH
Report Created on:	19 Nov 94 10:58 AM		

Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\NOV18\078R0601.D
Operator : DAVE Page Number : 1
Instrument : PHILLIP Vial Number : 78
Sample Name : 411-1187 W Injection Number : 1
Run Time Bar Code: Sequence Line : 6
Acquired on : 18 Nov 94 10:09 PM Instrument Method: TPH1F.MTH
Report Created on: 19 Nov 94 10:58 AM Analysis Method : TPH1F.MTH

Sig. 2 in C:\HPCHEM\1\DATA\NOV18\078R0601.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	11.073	2757147	385435	MM R	0.119	28.3334
2	13.540	1475766	369131	MM T	0.067	15.1655
3	24.527	4776462	241784	MM R	0.329	49.0846
4	27.519	721708	230986	MM T	0.052	7.4165

Total area = 9731083

User Modified

0.79
922
76

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Water Analysis Method: WTPH-D Extended First Sample #: 411-1049	Sampled: Nov 14, 1994 Received: Nov 14, 1994 Extracted: Nov 16, 1994 Analyzed: Nov 18, 1994 Reported: Nov 18, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
411-1049	MW-2	0.50	3.8	72
411-1050	MW-3	0.89	4.6	75
411-1051	MW-6	1.1	1.8	84
411-1052	MW-7	1.8	13	70
411-1053	MW-8	0.85	2.5	78
411-1054	MW-14	0.29	1.4	50
BLK	Method Blank	N.D.	N.D.	80

Reporting Limit:	0.25	0.75
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2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.
Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Water Analysis Method: WTPH-D Units: mg/L (ppm)	Analyst: D. Anderson Extracted: Nov 16, 1994 Analyzed: Nov 18, 1994 Reported: Nov 18, 1994
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HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

Spike Conc. Added: 2.1

Spike Result: 2.1

% Recovery: 100

Upper Control Limit %: 126

Lower Control Limit %: 71

PRECISION ASSESSMENT Sample Duplicate

Diesel Range Organics

Sample Number: 411-1011

Original Result: N.D.

Duplicate Result: N.D.

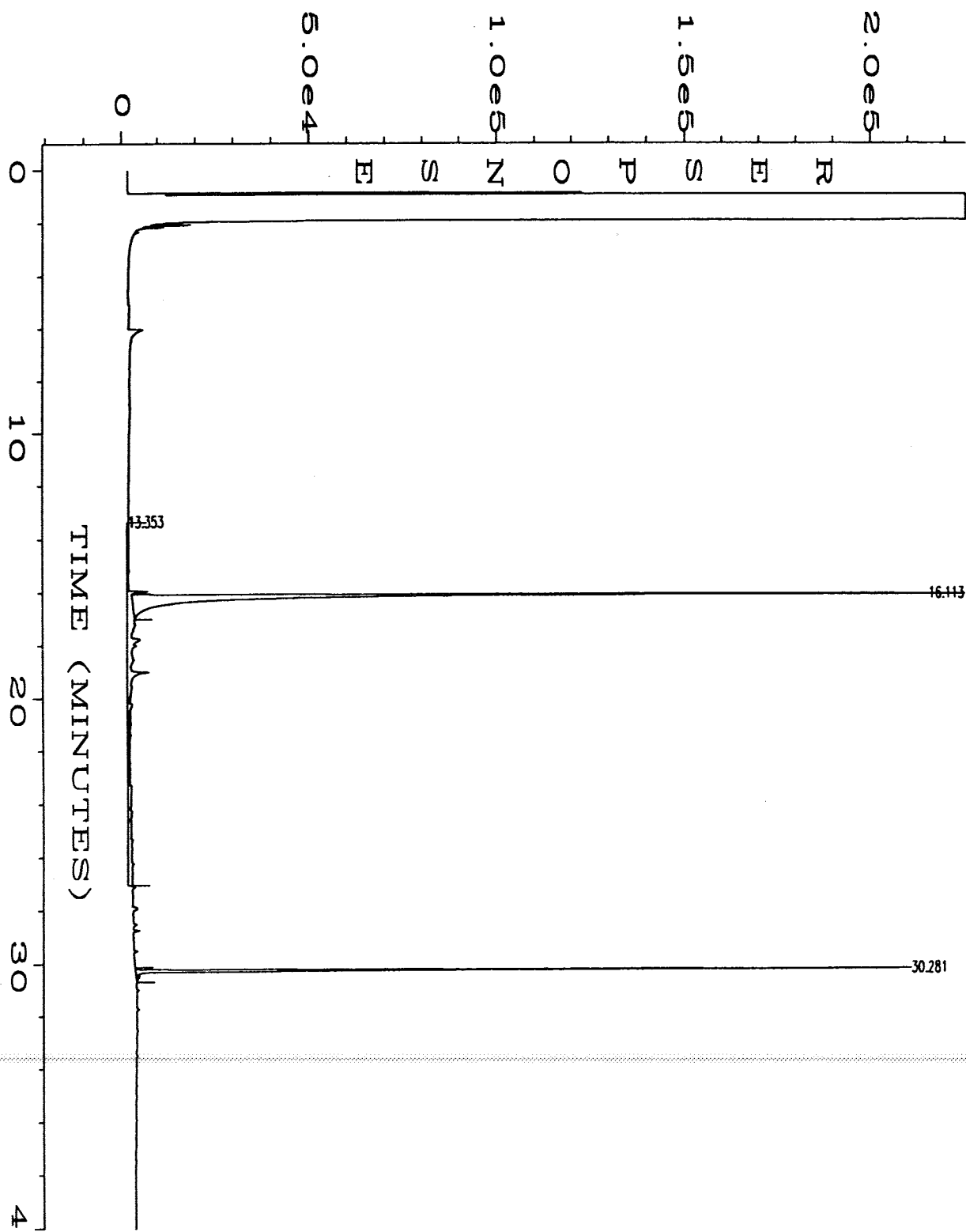
Relative % Difference Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Maximum RPD: 39

NORTH CREEK ANALYTICAL Inc.

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$

Shannon Stowell
Shannon Stowell
Project Manager



Data File Name	: C:\HPCHEM\1\DATA\NOV16\034F2101.D	Page Number	: 1
Operator	: sk	Vial Number	: 34
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: blk1116w8015	Sequence Line	: 21
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 07:23 AM	Analysis Method	: TPH1F.MTH
Report Created on:	18 Nov 94 08:10 AM		

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Area Percent Report
 =====

Data File Name : C:\HPCHEM\1\DATA\NOV16\034F2101.D
 Operator : sk Page Number : 1
 Instrument : PHILLIP Vial Number : 34
 Sample Name : blk1116w8015 Injection Number : 1
 Run Time Bar Code: Sequence Line : 21
 Acquired on : 18 Nov 94 07:23 AM Instrument Method: TPH1F.MTH
 Report Created on: 18 Nov 94 08:11 AM Analysis Method : TPH1F.MTH

Sig. 1 in C:\HPCHEM\1\DATA\NOV16\034F2101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.353	861621	301191	MM R	0.048	29.2601
2	16.113	1455990	299851	MM T	0.081	49.4445
3	30.281	627085	208968	MM T	0.05	21.2954

Total area = 2944696

User Modified

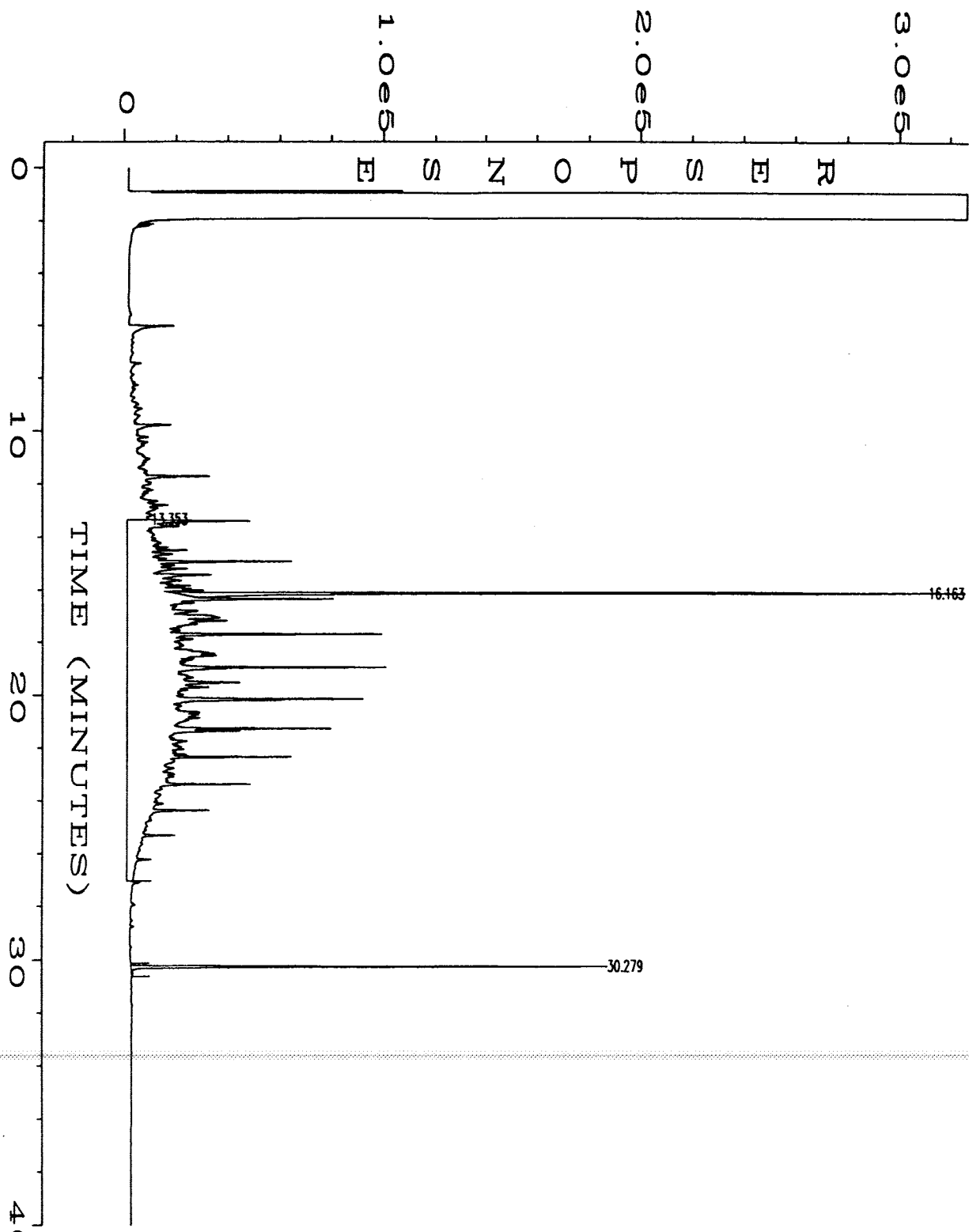
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Extraction Parameters-	Initial Wt.(g)/Vol(L):	1000	Final Volume(mL):	1
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Instrument Parameters-			
Dilution Fact.:	1	Injection Volume:	0.002
Calibration RF:	3607	2 Fbp RF:	3995
Analysis:	TPH1F.MTH	Octacosane RF:	2007

Integration Results (Area)-			
Total:	861621	2FBP:	1455990
		Oct:	627085

Calculation Results-			
Concentration(mg/kg or mg/L):	0.12		
2Fbp conc (mg/kg or mg/L):	0.18	2 FBP %:	80%
Octacosane conc (mg/kg or mg/L):	0.16	OCT %:	68%



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\035F2101.D	Page Number	: 1
Operator	: sk	Vial Number	: 35
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: bs1116w8015	Sequence Line	: 21
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 08:16 AM	Analysis Method	: TPH1F.MTH
Report Created on:	18 Nov 94 09:02 AM		

=====
Area Percent Report
 =====

Data File Name : C:\HPCHEM\1\DATA\NOV16\035F2101.D
 Operator : sk Page Number : 1
 Instrument : PHILLIP Vial Number : 35
 Sample Name : bs1116w8015 Injection Number : 1
 Run Time Bar Code: Sequence Line : 21
 Acquired on : 18 Nov 94 08:16 AM Instrument Method: TPH1F.MTH
 Report Created on: 18 Nov 94 09:03 AM Analysis Method : TPH1F.MTH

Sig. 1 in C:\HPCHEM\1\DATA\NOV16\035F2101.D

PK#	Ret Time	Area	Height	Type	Width	Area %
1	13.353	1.50E+07	446784	MM R	0.559	88.9203
2	16.163	1329979	426343	MM T	0.052	7.8908
3	30.279	537485	186592	MM T	0.048	3.1889

Total area = 1.68548E+007

User Modified

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Extraction Parameters-	Initial Wt.(g)/Vol(L):	1000	Final Volume(mL):	1
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Instrument Parameters-

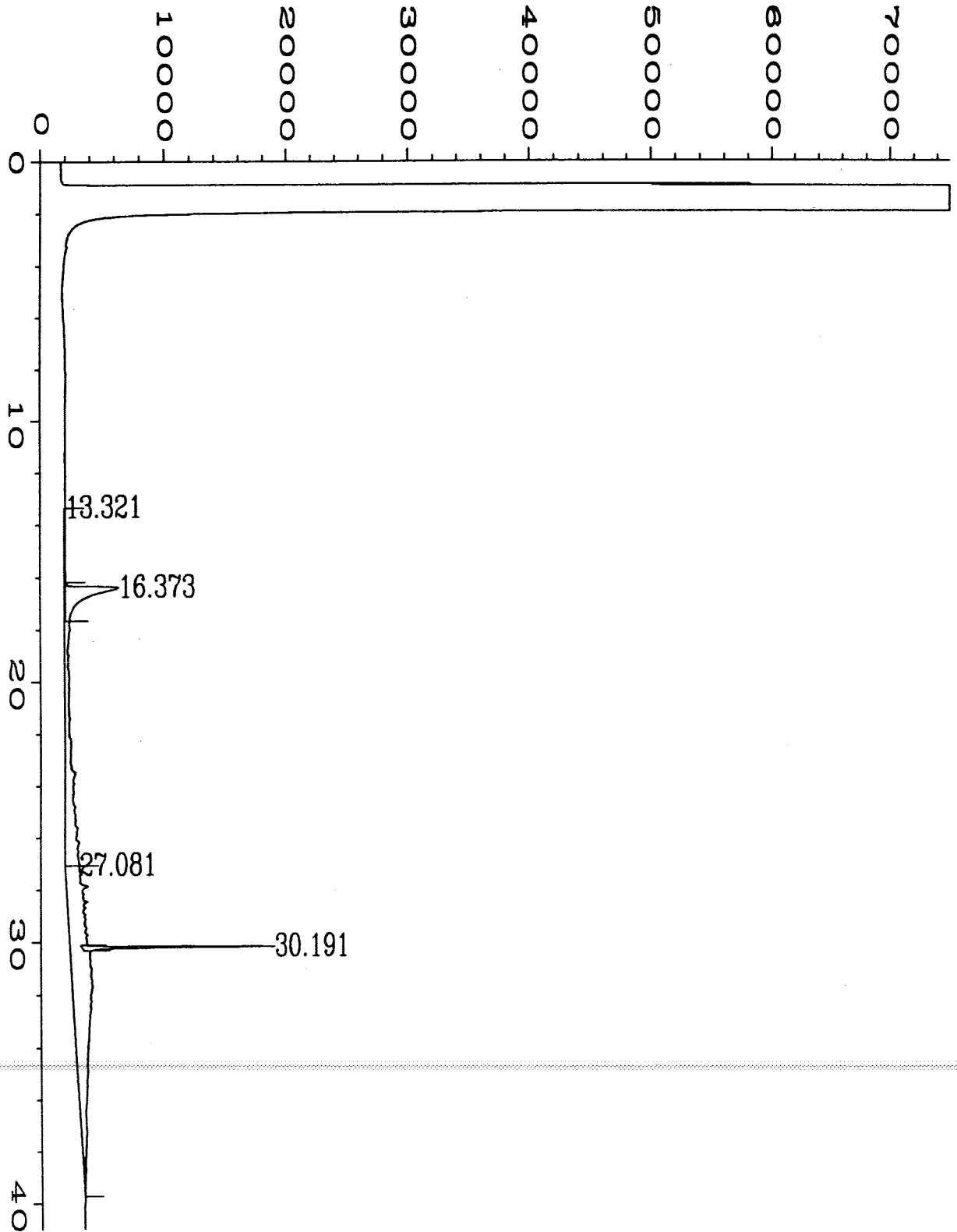
Dilution Fact.:	1	Injection Volume:	0.002
Calibration RF:	3607	2 Fbp RF:	3995
Analysis:	TPH1F.MTH	Octacosane RF:	2007

Integration Results (Area)-

Total:	14987300	2FBP:	1329979	Oct:	537485
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Calculation Results-

Concentration(mg/kg or mg/L):	2.08		
2Fbp conc (mg/kg or mg/L):	0.17	2 FBp %:	76%
Octacosane conc (mg/kg or mg/L):	0.13	OCT %:	55%



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\036F2101.D	Page Number	: 1
Operator	: sk	Vial Number	: 36
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1049 11x	Sequence Line	: 21
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 09:08 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 12:19 PM		

=====
Area Percent Report
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Data File Name : C:\HPCHEM\1\DATA\NOV16\036F2101.D
Operator : sk Page Number : 1
Instrument : PHILLIP Vial Number : 36
Sample Name : 411-1049 11x Injection Number : 1
Run Time Bar Code: Sequence Line : 21
Acquired on : 18 Nov 94 09:08 AM Instrument Method: TPH1F.MTH
Report Created on: 18 Nov 94 12:19 PM Analysis Method : TPHTST.MTH

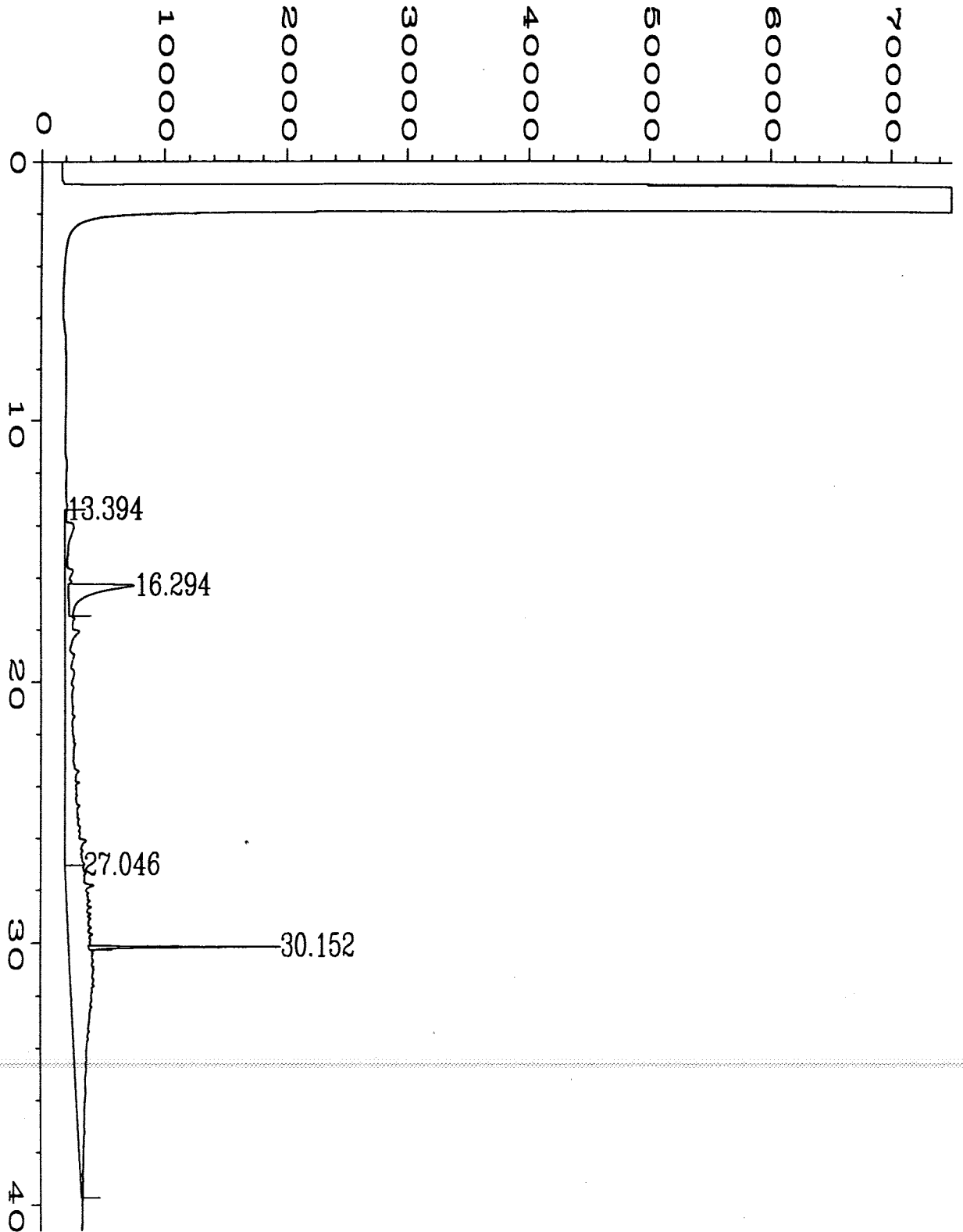
Sig. 1 in C:\HPCHEM\1\DATA\NOV16\036F2101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.321	329102 [✓]	4374	MM R	1.254	26.7188
2	16.373	118125	4294	MM T	0.458	9.5902
3	27.081	729461	16889	MM R	0.720	59.2228
4	30.191	55036 [✓]	15936	MM T	0.058	4.4682

Total area = 1231725

User Modified

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Handwritten:
351 = 8.18
170 = 3.83



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\037F2101.D	Page Number	: 1
Operator	: sk	Vial Number	: 37
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1050 11x	Sequence Line	: 21
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 10:01 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 12:22 PM		

=====
Area Percent Report
=====

Data File Name : C:\HPCHEM\1\DATA\NOV16\037F2101.D
Operator : sk Page Number : 1
Instrument : PHILLIP Vial Number : 37
Sample Name : 411-1050 11x Injection Number : 1
Run Time Bar Code: Sequence Line : 21
Acquired on : 18 Nov 94 10:01 AM Instrument Method: TPH1F.MTH
Report Created on: 18 Nov 94 12:22 PM Analysis Method : TPHTST.MTH

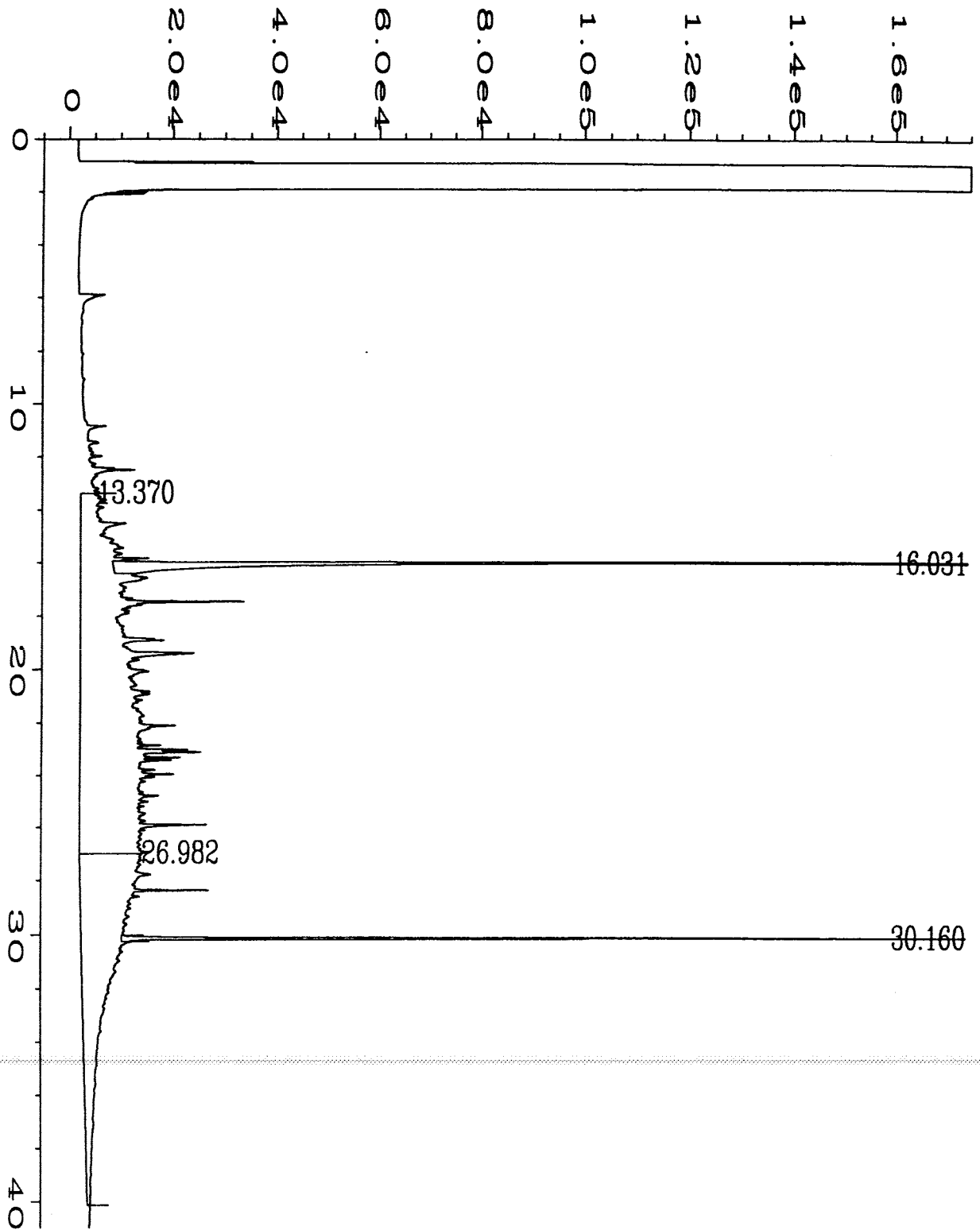
Sig. 1 in C:\HPCHEM\1\DATA\NOV16\037F2101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.394	585049	5668	MM R	1.720	35.7369
2	16.294	122113✓	5373	MM T	0.379	7.4591
3	27.046	880437	17407	MM R	0.843	53.7802
4	30.152	49502✓	15763	MM T	0.052	3.0238

Total area = 1637101

User Modified

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user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\038F2101.D	Page Number	: 1
Operator	: sk	Vial Number	: 38
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1051	Sequence Line	: 21
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 10:55 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 02:18 PM		

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Area Percent Report
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Data File Name : C:\HPCHEM\1\DATA\NOV16\038F2101.D
Operator : sk Page Number : 1
Instrument : PHILLIP Vial Number : 38
Sample Name : 411-1051 Injection Number : 1
Run Time Bar Code: Sequence Line : 21
Acquired on : 18 Nov 94 10:55 AM Instrument Method: TPH1F.MTH
Report Created on: 18 Nov 94 02:18 PM Analysis Method : TPHTST.MTH

Sig. 1 in C:\HPCHEM\1\DATA\NOV16\038F2101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.370	8110345	390615	MM R	0.346	58.4103
2	16.031	1514839✓	384415	MM T	0.066	10.9098
3	26.982	3675455	203929	MM R	0.300	26.4704
4	30.160	584488✓	196198	MM T	0.050	4.2095

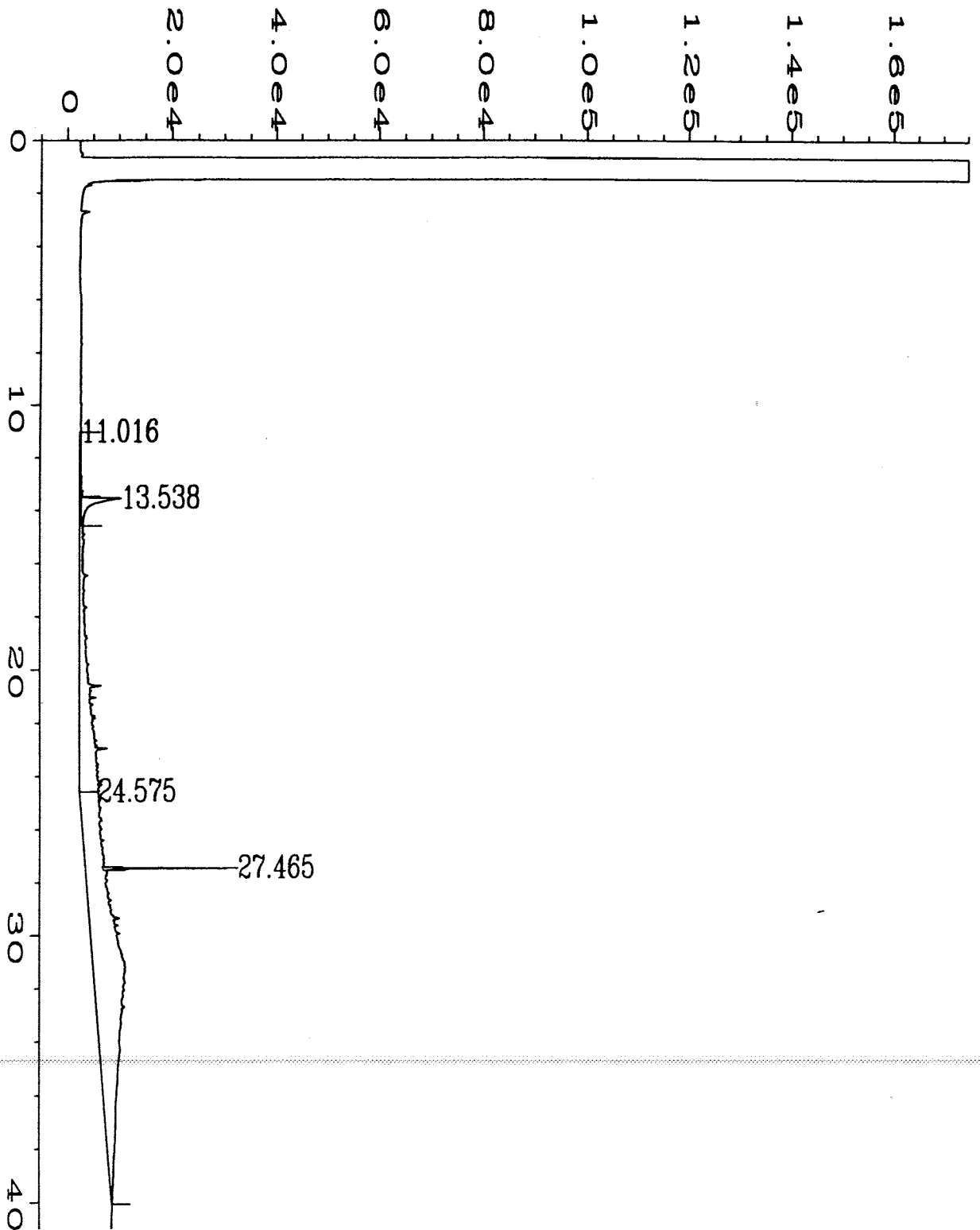
Total area = 1.38851E+007

User Modified

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DSL =

MO



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\084R2201.D	Page Number	: 1
Operator	: sk	Vial Number	: 84
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1052 11x	Sequence Line	: 22
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 09:08 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 02:21 PM		

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Area Percent Report
=====

Data File Name : C:\HPCHEM\1\DATA\NOV16\084R2201.D
Operator : sk Page Number : 1
Instrument : PHILLIP Vial Number : 84
Sample Name : 411-1052 11x Injection Number : 1
Run Time Bar Code: Sequence Line : 22
Acquired on : 18 Nov 94 09:08 AM Instrument Method: TPH1F.MTH
Report Created on: 18 Nov 94 02:22 PM Analysis Method : TPHTST.MTH

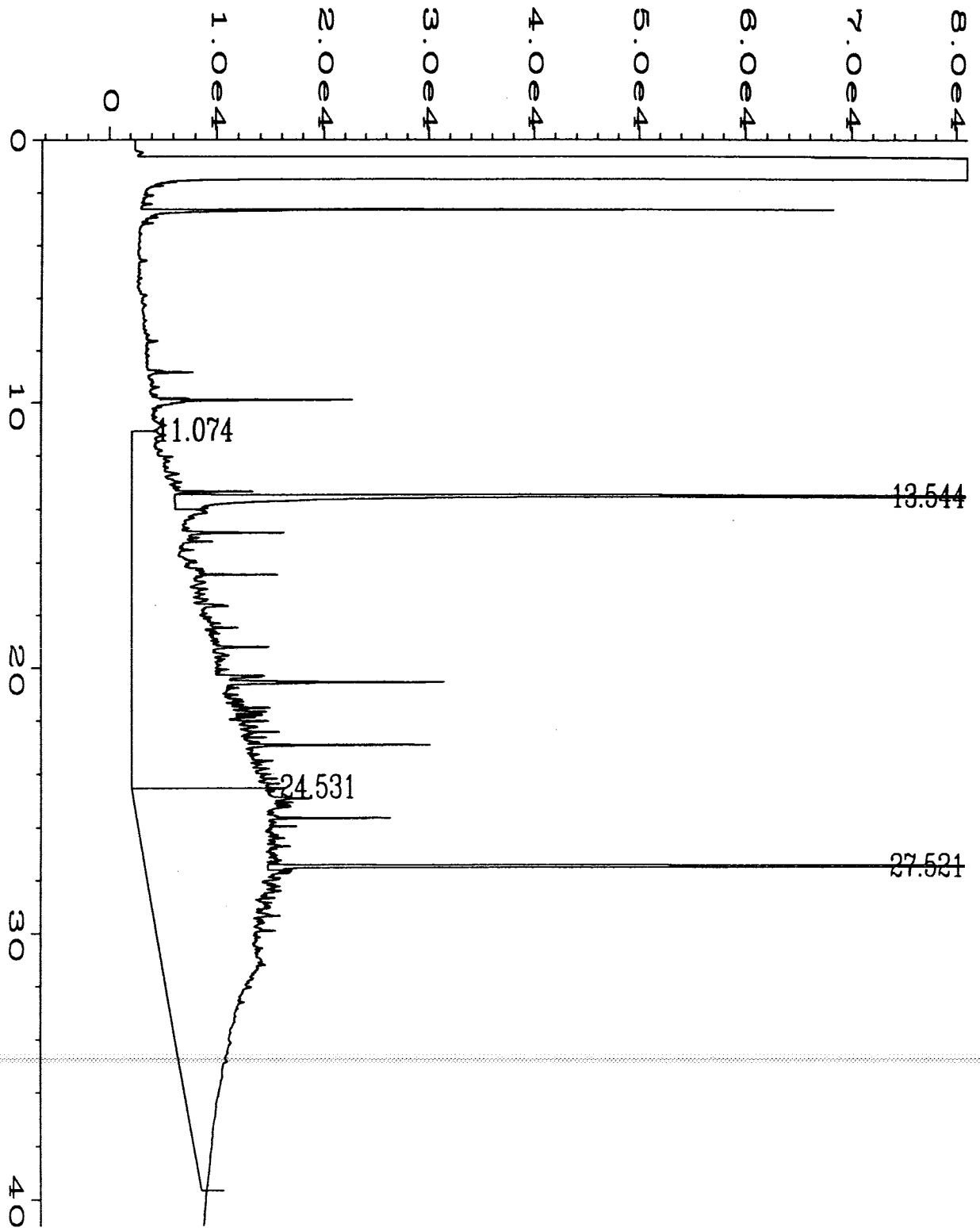
Sig. 2 in C:\HPCHEM\1\DATA\NOV16\084R2201.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	11.016	1136074	8077	MM R	2.344	25.0376
2	13.538	109586✓	7792	MM T	0.234	2.4151
3	24.575	3232540	29692	MM R	1.814	71.2411
4	27.465	59267✓	26374	MM T	0.037	1.3062

Total area = 4537467

User Modified

PSL *
NO 2



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\085R2201.D	Page Number	: 1
Operator	: sk	Vial Number	: 85
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1053	Sequence Line	: 22
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 10:01 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 02:23 PM		

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Area Percent Report
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Data File Name : C:\HPCHEM\1\DATA\NOV16\085R2201.D
Operator : sk Page Number : 1
Instrument : PHILLIP Vial Number : 85
Sample Name : 411-1053 Injection Number : 1
Run Time Bar Code: Sequence Line : 22
Acquired on : 18 Nov 94 10:01 AM Instrument Method: TPH1F.MTH
Report Created on: 18 Nov 94 02:24 PM Analysis Method : TPHTST.MTH

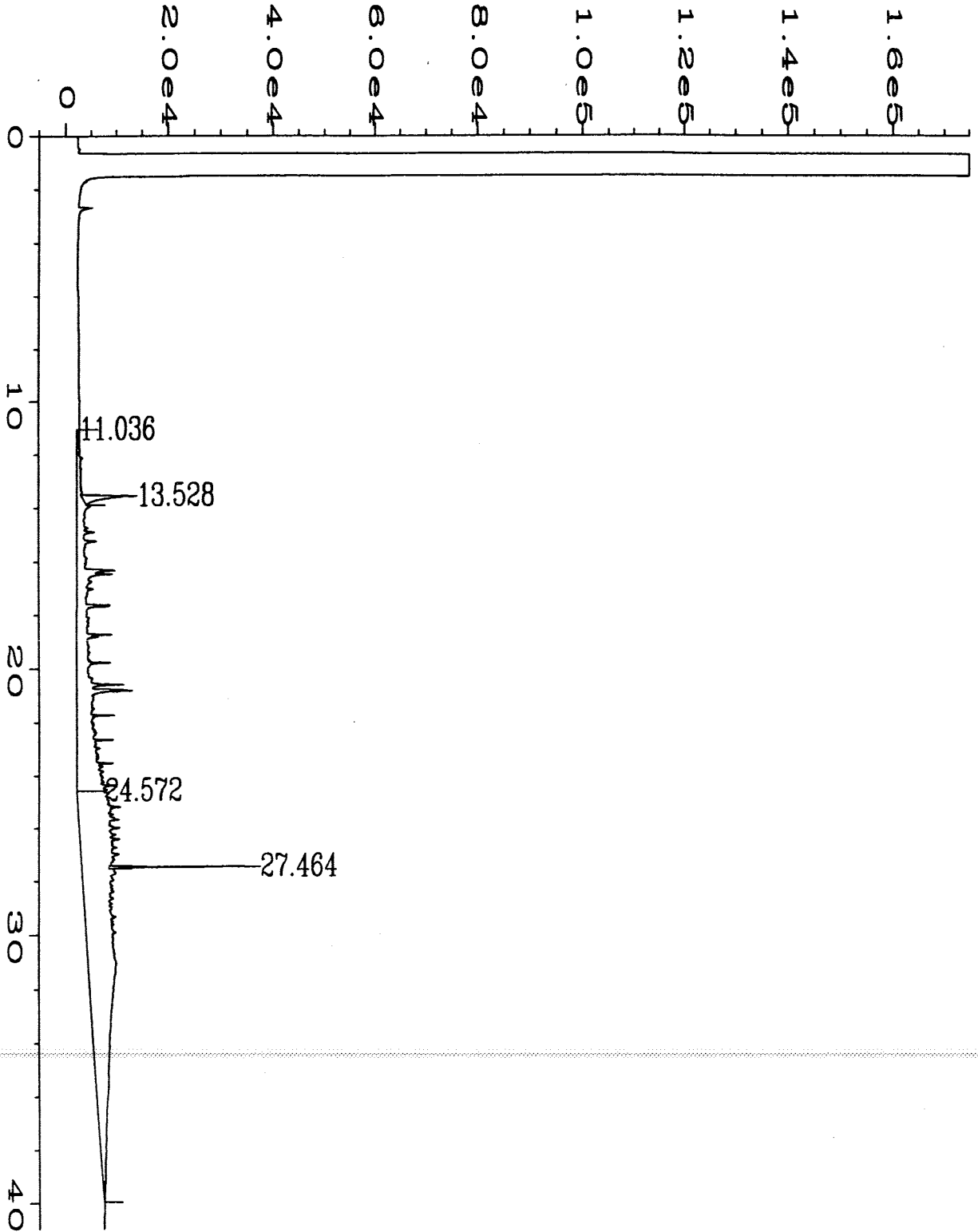
Sig. 2 in C:\HPCHEM\1\DATA\NOV16\085R2201.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	11.074	5940567	386975	MM R	0.256	41.0017
2	13.544	1347473✓	382977	MM T	0.059	9.3002
3	24.531	6533874	225865	MM R	0.482	45.0966
4	27.521	666691✓	214533	MM T	0.052	4.6015

Total area = 1.44886E+007

User Modified

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user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\086R2201.D	Page Number	: 1
Operator	: sk	Vial Number	: 86
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1054 11x	Sequence Line	: 22
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 10:55 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 02:26 PM		

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Area Percent Report
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Data File Name : C:\HPCHEM\1\DATA\NOV16\086R2201.D
Operator : sk Page Number : 1
Instrument : PHILLIP Vial Number : 86
Sample Name : 411-1054 11x Injection Number : 1
Run Time Bar Code: Sequence Line : 22
Acquired on : 18 Nov 94 10:55 AM Instrument Method: TPH1F.MTH
Report Created on: 18 Nov 94 02:27 PM Analysis Method : TPHTST.MTH

Sig. 2 in C:\HPCHEM\1\DATA\NOV16\086R2201.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	11.036	2016757	11841	MM R	2.839	34.9259
2	13.528	77811✓	10958	MM T	0.118	1.3475
3	24.572	3613882	35422	MM R	1.700	62.5847
4	27.464	65936✓	30041	MM T	0.037	1.1419

Total area = 5774387

User Modified

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NORTH BUCKLEEN BRIDGE TOWER

AGRA
Earth & Environmental
 1335 NE 122nd Way, Suite 100
 Kirkland, Washington 98034-6918
 Tel (206) 820-4669 Fax (206) 821-3914

CHAIN OF CUSTODY

PROJECT BELLEFIELD BUSINESSPARK		PROJECT No. 1109378-02		ANALYSIS REQUESTED (circle, check box or write preferred method in box)															
CLIENT GREAT WESTERN BANK		PHONE No.																	
PROJECT MANAGER ROB COUSINS		PHONE No. 820-4669																	
SAMPLER'S NAME (please print) ROB COUSINS / ERIC SMITH		PHONE No. u u																	
SAMPLER'S SIGNATURE <i>[Signature]</i>				BTEX by EPA 802 / 8020	WTPH G	RTEX / WTPH-G	WTPH-HClD	WTPH-D <u>WTPH-D EXTENDED</u>	TPH by EPA 8015 MODIFIED	WTPH-18:1 MODIFIED	TPH by EPA 418.1	GC / MS EPA 824 / 8240 or EPA 8260 Volatiles	GC / MS EPA 825 / 8270 Semi-volatiles	VOCs EPA 801 / 8010 or EPA 802 / 8020	PCBs EPA 808 / 8080	LEAD EPA 8010 / EPA 7421 Total / Dissolved	TOTAL METALS	TCLP	
SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	CONTAINERS														
					No.	VOL.													
1. MW-2	11-14	2:30	W	-	2	12													
2. MW-3		3:30																	4111049
3. MW-6		3:45																	4111050
4. MW-7		3:45																	4111051
5. MW-8		3:45																	4111052
6. MW-14		3:30																	4111053
7.																			4111054
8.																			
9.																			
10.																			

SAMPLE RECEIPT		LABORATORY		TURNAROUND TIME		SPECIAL INSTRUCTIONS / ADDITIONAL COMMENTS	
TOTAL # CONTAINERS 12		SHIPPING I.D. / AIRBILL #		<input type="checkbox"/> 8 HOUR <input type="checkbox"/> 24 HOUR		BILL TO AGRA <u>5 DAY TURN</u>	
CONDITION OF CONTAINERS		CARRIER		<input checked="" type="checkbox"/> WEEK <input type="checkbox"/> 2 WEEK (standard) <input type="checkbox"/> OTHER			
CONDITION OF SEALS		DOT DESIGNATION					
RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION	
<i>[Signature]</i>		11-14		5:15		<i>[Signature]</i> NCA	
						DATE	
						11/14/94 1715	
						TIME	
						PAGE 1 OF 1	

CHAIN OF CUSTODY

PROJECT <i>Bellfield Business Park</i>						PROJECT No.		ANALYSIS REQUESTED (circle, check box or write preferred method in box)																		
CLIENT						PHONE No.		BTX by EPA 602 / 8020	WTPHG	BTEX / WTPHG	WTPH-HCID	WTPH-D / WTPH-D EXTENDED	TPH by EPA 8015 MODIFIED	WTPH-418.1 MODIFIED	TPH by EPA 418.1	GC / MS EPA 624 / 8240 or EPA 8260 Volatiles	GC / MS EPA 625 / 8270 Semi-volatiles	VOCs EPA 601 / 8010 or EPA 602 / 8020	PCBs EPA 608 (8080)	LEAD EPA 6010 / EPA 7421 Total / Dissolved	TOTAL METALS	TCLP	<i>8021</i>			
PROJECT MANAGER <i>Rob Cousins</i>						PHONE No. <i>820-4664</i>																				
SAMPLER'S NAME (please print) <i>Eric L. Smith</i>						PHONE No. <i>Same</i>																				
SAMPLER'S SIGNATURE <i>Eric L. Smith</i>																										
SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	CONTAINERS																					
					No.	VOL.																				
<i>1. B1/S1 - 2.5'</i>	<i>11/11/04</i>	<i>8:00</i>	<i>S</i>	<i>CH. 11</i>	<i>2</i>	<i>50z</i>																				<i>4111012</i>
<i>2. B1/S2 - 5.0'</i>		<i>8:15</i>			<i>1</i>																					<i>4111013</i>
<i>3. B1/S3 - 7.5'</i>		<i>8:30</i>			<i>2</i>						<input checked="" type="checkbox"/>															<input checked="" type="checkbox"/> <i>4111014</i>
<i>4. B1/S4 - 15.0'</i>		<i>9:00</i>			<i>2</i>						<input checked="" type="checkbox"/>															<i>4111015</i>
<i>5. B1/S7 - 17.5'</i>		<i>9:10</i>			<i>2</i>						<input checked="" type="checkbox"/>															<i>4111016</i>
<i>6. B1/S8 - 20.0'</i>		<i>9:20</i>			<i>2</i>																					<i>4111017</i>
<i>7. B2/S1 - 2.5'</i>		<i>10:00</i>			<i>1</i>						<input checked="" type="checkbox"/>															<i>4111018</i>
<i>8. B2/S3 - 7.5'</i>		<i>10:20</i>			<i>1</i>																					<i>4111019</i>
<i>9. B2/S4 - 10.0'</i>		<i>10:30</i>			<i>2</i>						<input checked="" type="checkbox"/>															<input checked="" type="checkbox"/> <i>4111020</i>
<i>10. B2/S5 - 12.5'</i>		<i>10:40</i>			<i>1</i>																					<i>4111021</i>

SAMPLE RECEIPT			LABORATORY			TURNAROUND TIME		SPECIAL INSTRUCTIONS / ADDITIONAL COMMENTS			
TOTAL # CONTAINERS <i>26</i>			SHIPPING I.D. / AIRBILL #			<input type="checkbox"/> 8 HOUR <input type="checkbox"/> 24 HOUR <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 2 WEEK (standard) <input type="checkbox"/> OTHER _____		<p><u>5 DAY TURN</u></p> <p><i>BILL TO G.W.B.</i></p>			
CONDITION OF CONTAINERS			CARRIER								
CONDITION OF SEALS			DOT DESIGNATION								
RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME				
<i>Robert Lundy AGRA</i>		<i>11-14</i>	<i>11:00</i>	<i>Dana Leij NCA</i>		<i>11/14/04</i>	<i>11:00</i>				
2.				2.							
3.				3.							

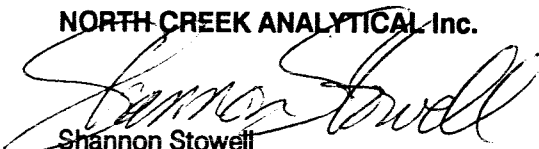
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Bellfield Business Park Sample Matrix: Soil First Sample #: 411-1014	Received: Nov 14, 1994 Reported: Nov 18, 1994
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TOTAL SOLIDS & MOISTURE CONTENT REPORT

Sample Number	Sample Description	Total Solids %	Moisture Content %
411-1014	B1/S3-7.5'	34	66
411-1015	B1/S6-15.0'	12	88
411-1016	B1/S7-17.5'	13	87
411-1018	B2/S1-2.5'	90	10
411-1020	B2/S4-10.0'	82	18
411-1024	B2/S8-20'	46	54
411-1025	B3/S1-2.5'	79	21
411-1027	B3/S3-7.5'	15	85
411-1028	B3-S7-17.5'	28	72

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis. To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total 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.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: Bellfield Business Park
 Sample Matrix: Soil
 Analysis Method: WTPH-D Extended
 First Sample #: 411-1014

Sampled: Nov 11, 1994
 Received: Nov 14, 1994
 Extracted: Nov 17, 1994
 Analyzed: Nov 18, 1994
 Reported: Nov 18, 1994

TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
411-1014	B1/S3-7.5'	1,400	9,900	Diluted Out
411-1015	B1/S6-15.0'	120	1,500	63
411-1016	B1/S7-17.5'	210	2,700	60
411-1018	B2/S1-2.5'	190	1,800	78
411-1020	B2/S4-10.0'	130	1,600	64
411-1024	B2/S8-20'	530	2,300	Diluted Out
411-1025	B3/S1-2.5'	45	440	58
411-1027	B3/S3-7.5'	1,200	5,200	Diluted Out
411-1028	B3-S7-17.5'	1,000	5,000	Diluted Out
BLK111794	Method Blank	N.D.	N.D.	58

Reporting Limit:

10

25

2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.

Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: Bellfield Business Park
 Sample Matrix: Soil
 Analysis Method: WTPH-D
 Units: mg/kg (ppm)

 Analyst: D. Anderson
 Extracted: Nov 17, 1994
 Analyzed: Nov 18, 1994
 Reported: Nov 18, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

 Spike Conc.
 Added: 70

 Spike
 Result: 60

 %
 Recovery: 86

 Upper Control
 Limit %: 116

 Lower Control
 Limit %: 71

PRECISION ASSESSMENT Sample Duplicate

Diesel Range Hydrocarbons

 Sample
 Number: 411-1025

 Original
 Result: 45


 Duplicate
 Result: 40

Relative % Difference Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

 Maximum
 RPD: 43

NORTH CREEK ANALYTICAL Inc

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

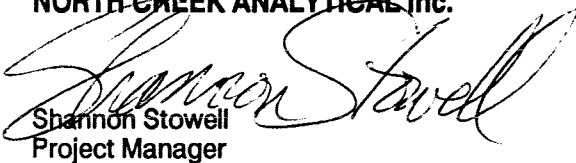
 Client Project ID: Bellfield Business Park
 Sample Descript: Soil, B1/S3-7.5'
 Analysis Method: EPA 8081
 Sample Number: 411-1014

 Sampled: Nov 11, 1994
 Received: Nov 14, 1994
 Extracted: Nov 15, 1994
 Analyzed: Nov 16, 17, 1994
 Reported: Nov 18, 1994

POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit μg/kg (ppb)	Sample Results μg/kg (ppb)
PCB 1016.....	50	N.D.
PCB 1221.....	50	N.D.
PCB 1232.....	50	N.D.
PCB 1242.....	50	61
PCB 1248.....	50	N.D.
PCB 1254.....	50	200
PCB 1260.....	50	74

Tetrachloro-m-xylene Surrogate Recovery, 82
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Bellfield Business Park Sample Descript: Soil, B1/S6-15.0' Analysis Method: EPA 8081 Sample Number: 411-1015	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Extracted: Nov 15, 1994 Analyzed: Nov 16, 1994 Reported: Nov 18, 1994
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POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	N.D.
PCB 1221.....	50	N.D.
PCB 1232.....	50	N.D.
PCB 1242.....	50	N.D.
PCB 1248.....	50	N.D.
PCB 1254.....	50	N.D.
PCB 1260.....	50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, 65
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

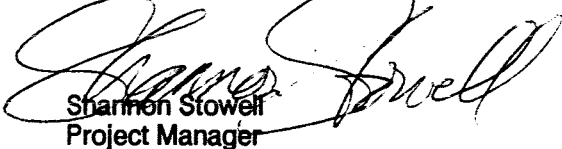
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Bellfield Business Park Sample Descript: Soil, B1/S7-17.5' Analysis Method: EPA 8081 Sample Number: 411-1016	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Extracted: Nov 15, 1994 Analyzed: Nov 16, 1994 Reported: Nov 18, 1994
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POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	N.D.
PCB 1221.....	50	N.D.
PCB 1232.....	50	N.D.
PCB 1242.....	50	N.D.
PCB 1248.....	50	N.D.
PCB 1254.....	50	N.D.
PCB 1260.....	50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, 74
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Sharron Stowell
Project Manager



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-9508 (206) 481-9200 • FAX 485-2992
 East 11115 Montgomery, Suite B • Spokane, WA 99206-4776 (509) 924-9200 • FAX 924-9290
 9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Bellfield Business Park Sample Descript: Soil, B2/S1-2.5' Analysis Method: EPA 8081 Sample Number: 411-1018	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Extracted: Nov 15, 1994 Analyzed: Nov 16, 1994 Reported: Nov 18, 1994
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POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit μg/kg (ppb)	Sample Results μg/kg (ppb)
PCB 1016.....	50	N.D.
PCB 1221.....	50	N.D.
PCB 1232.....	50	N.D.
PCB 1242.....	50	N.D.
PCB 1248.....	50	N.D.
PCB 1254.....	50	N.D.
PCB 1260.....	50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, 79
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Belfield Business Park Sample Descript: Soil, B2/S4-10.0' Analysis Method: EPA 8081 Sample Number: 411-1020	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Extracted: Nov 15, 1994 Analyzed: Nov 16, 1994 Reported: Nov 18, 1994
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POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	N.D.
PCB 1221.....	50	N.D.
PCB 1232.....	50	N.D.
PCB 1242.....	50	N.D.
PCB 1248.....	50	N.D.
PCB 1254.....	50	N.D.
PCB 1260.....	50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, 79
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-9508 (206) 481-9200 • FAX 485-2992
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 9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Bellfield Business Park Sample Descript: Soil, B2/S8-20' Analysis Method: EPA 8081 Sample Number: 411-1024	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Extracted: Nov 15, 1994 Analyzed: Nov 16,17, 1994 Reported: Nov 18, 1994
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POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	N.D.
PCB 1221.....	50	N.D.
PCB 1232.....	50	N.D.
PCB 1242.....	50	64
PCB 1248.....	50	N.D.
PCB 1254.....	50	190
PCB 1260.....	50	56

Tetrachloro-m-xylene Surrogate Recovery, 75
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

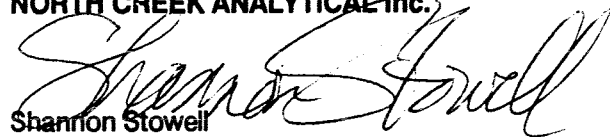
 Client Project ID: Bellfield Business Park
 Sample Descript: Soil, B3/S1-2.5'
 Analysis Method: EPA 8081
 Sample Number: 411-1025

 Sampled: Nov 11, 1994
 Received: Nov 14, 1994
 Extracted: Nov 15, 1994
 Analyzed: Nov 16, 1994
 Reported: Nov 18, 1994

POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	N.D.
PCB 1221.....	50	N.D.
PCB 1232.....	50	N.D.
PCB 1242.....	50	N.D.
PCB 1248.....	50	N.D.
PCB 1254.....	50	110
PCB 1260.....	50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, 81
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Bellfield Business Park Sample Descript: Soil, B3/S3-7.5' Analysis Method: EPA 8081 Sample Number: 411-1027	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Extracted: Nov 15, 1994 Analyzed: ov 16, 17, 1994 Reported: Nov 18, 1994
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POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	N.D.
PCB 1221.....	50	N.D.
PCB 1232.....	50	N.D.
PCB 1242.....	50	64
PCB 1248.....	50	N.D.
PCB 1254.....	50	500
PCB 1260.....	50	100

Tetrachloro-m-xylene Surrogate Recovery, 77
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

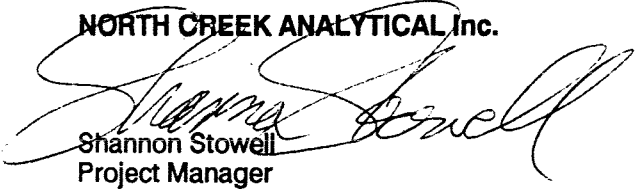
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Bellfield Business Park Sample Descript: Soil, B3/S7-17.5' Analysis Method: EPA 8081 Sample Number: 411-1028	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Extracted: Nov 15, 1994 Analyzed: Nov 16, 17, 1994 Reported: Nov 18, 1994
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POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	N.D.
PCB 1221.....	50	N.D.
PCB 1232.....	50	N.D.
PCB 1242.....	50	190
PCB 1248.....	50	N.D.
PCB 1254.....	50	420
PCB 1260.....	50	140

Tetrachloro-m-xylene Surrogate Recovery, 75
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Belfield Business Park Sample Descript: Method Blank Analysis Method: EPA 8081 Sample Number: BLK1115994	Extracted: Nov 15, 1994 Analyzed: Nov 15, 1994 Reported: Nov 18, 1994
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POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	N.D.
PCB 1221.....	50	N.D.
PCB 1232.....	50	N.D.
PCB 1242.....	50	N.D.
PCB 1248.....	50	N.D.
PCB 1254.....	50	N.D.
PCB 1260.....	50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, 84
 Surrogate Recovery Control Limits are 27 - 123 %.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Bellfield Business Park Sample Matrix: Soil Analysis Method: EPA 8080 Units: $\mu\text{g}/\text{kg}$ (ppb) QC Sample #: 411-1121	Analyst: M. Seibel Extracted: Nov 15, 1994 Analyzed: Nov 16, 1994 Reported: Nov 18, 1994
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MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Aroclor 1260
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Sample Result: N.D.

**Spike Conc.
Added:** 223

**Spike
Result:** 233

**Spike
% Recovery:** 104%

**Spike Dup.
Result:** 244

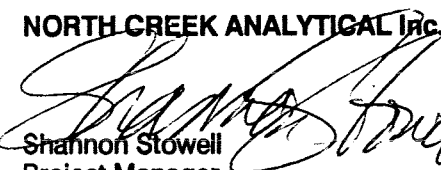
**Spike
Duplicate
% Recovery:** 109%

**Upper Control
Limit %:** 150

**Lower Control
Limit %:** 46

**Relative
% Difference:** 4.6%

**Maximum
RPD:** 50

NORTH CREEK ANALYTICAL Inc.  Shannon Stowell Project Manager	% Recovery: $\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$
	Relative % Difference: $\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Belfield Business Park Sample Descript: Soil, B1/S3-7.5' Analysis Method: EPA 8021 Sample Number: 411-1014	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Analyzed: Nov 15, 1994 Reported: Nov 18, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Benzene.....	100	N.D.
Bromobenzene.....	100	N.D.
Bromochloromethane.....	100	N.D.
Bromodichloromethane.....	100	N.D.
Bromoform.....	100	N.D.
Bromomethane.....	100	N.D.
n-Butylbenzene.....	100	N.D.
sec-Butylbenzene.....	100	N.D.
tert-Butylbenzene.....	100	N.D.
Carbon tetrachloride.....	100	N.D.
Chlorobenzene.....	100	N.D.
Chloroethane.....	100	N.D.
Chloroform.....	100	N.D.
Chloromethane.....	100	N.D.
2-Chlorotoluene.....	100	N.D.
4-Chlorotoluene.....	100	N.D.
Dibromochloromethane.....	100	N.D.
1,2-Dibromo-3-chloropropane.....	100	N.D.
1,2-Dibromoethane.....	100	N.D.
Dibromomethane.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
Dichlorodifluoromethane.....	100	N.D.
1,1-Dichloroethane.....	100	N.D.
1,2-Dichloroethane.....	100	N.D.
1,1-Dichloroethene.....	100	N.D.
cis-1,2-Dichloroethene.....	100	N.D.
trans-1,2-Dichloroethene.....	100	N.D.
1,2-Dichloropropane.....	100	N.D.
1,3-Dichloropropane.....	100	N.D.
2,2-Dichloropropane.....	100	N.D.
1,1-Dichloropropene.....	100	N.D.
Ethylbenzene.....	100	N.D.
Hexachlorobutadiene.....	100	N.D.
Isopropylbenzene.....	100	N.D.
p-Isopropyltoluene.....	100	N.D.
Methyl ethyl ketone.....	500	N.D.
Methylene chloride.....	500	N.D.

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Bellfield Business Park Sample Descript: Soil, B1/S3-7.5' Analysis Method: EPA 8021 Sample Number: 411-1014	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Analyzed: Nov 15, 1994 Reported: Nov 18, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Naphthalene.....	100	N.D.
n-Propylbenzene.....	100	N.D.
Styrene.....	100	N.D.
1,1,1,2-Tetrachloroethane.....	100	N.D.
1,1,2,2-Tetrachloroethane.....	100	N.D.
Tetrachloroethene.....	100	N.D.
Toluene.....	100	N.D.
1,2,3-Trichlorobenzene.....	100	N.D.
1,2,4-Trichlorobenzene.....	100	N.D.
1,1,1-Trichloroethane.....	100	N.D.
1,1,2-Trichloroethane.....	100	N.D.
Trichloroethene.....	100	N.D.
Trichlorofluoromethane.....	100	N.D.
1,2,3-Trichloropropane.....	100	N.D.
1,2,4-Trimethylbenzene.....	100	N.D.
1,3,5-Trimethylbenzene.....	100	N.D.
Vinyl chloride.....	100	N.D.
o-Xylene.....	100	N.D.
m,p-Xylene.....	100	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 51 ; PID: 51, S3
 Surrogate Recovery Control Limits are ELCD: 32 - 148 %; PID: 61 - 120%.
 The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

NORTH CREEK ANALYTICAL Inc.

Please Note:

The PID Surrogate Recovery for sample # 411-1014 is outside of the NCA established control limits.

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: Bellfield Business Park
 Sample Descript: Soil, B2/S4-10.0'
 Analysis Method: EPA 8021
 Sample Number: 411-1020

 Sampled: Nov 11, 1994
 Received: Nov 14, 1994
 Analyzed: Nov 15, 1994
 Reported: Nov 18, 1994

VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Benzene.....	50	N.D.
Bromobenzene.....	50	N.D.
Bromochloromethane.....	50	N.D.
Bromodichloromethane.....	50	N.D.
Bromoform.....	50	N.D.
Bromomethane.....	50	N.D.
n-Butylbenzene.....	50	N.D.
sec-Butylbenzene.....	50	N.D.
tert-Butylbenzene.....	50	N.D.
Carbon tetrachloride.....	50	N.D.
Chlorobenzene.....	50	N.D.
Chloroethane.....	50	N.D.
Chloroform.....	50	N.D.
Chloromethane.....	50	N.D.
2-Chlorotoluene.....	50	N.D.
4-Chlorotoluene.....	50	N.D.
Dibromochloromethane.....	50	N.D.
1,2-Dibromo-3-chloropropane.....	50	N.D.
1,2-Dibromoethane.....	50	N.D.
Dibromomethane.....	50	N.D.
1,2-Dichlorobenzene.....	50	N.D.
1,3-Dichlorobenzene.....	50	N.D.
1,4-Dichlorobenzene.....	50	N.D.
Dichlorodifluoromethane.....	50	N.D.
1,1-Dichloroethane.....	50	N.D.
1,2-Dichloroethane.....	50	N.D.
1,1-Dichloroethene.....	50	N.D.
cis-1,2-Dichloroethene.....	50	N.D.
trans-1,2-Dichloroethene.....	50	N.D.
1,2-Dichloropropane.....	50	N.D.
1,3-Dichloropropane.....	50	N.D.
2,2-Dichloropropane.....	50	N.D.
1,1-Dichloropropene.....	50	N.D.
Ethylbenzene.....	50	N.D.
Hexachlorobutadiene.....	50	N.D.
Isopropylbenzene.....	50	N.D.
p-Isopropyltoluene.....	50	N.D.
Methyl ethyl ketone.....	500	N.D.
Methylene chloride.....	500	N.D.

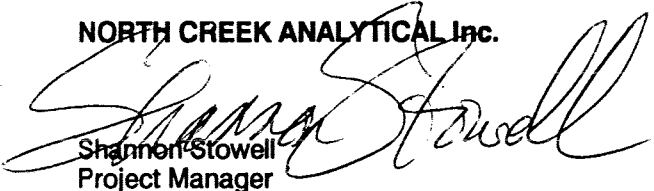
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Bellfield Business Park Sample Descript: Soil, B2/S4-10.0' Analysis Method: EPA 8021 Sample Number: 411-1020	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Analyzed: Nov 15, 1994 Reported: Nov 18, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Naphthalene.....	100	N.D.
n-Propylbenzene.....	50	N.D.
Styrene.....	50	N.D.
1,1,1,2-Tetrachloroethane.....	50	N.D.
1,1,2,2-Tetrachloroethane.....	50	N.D.
Tetrachloroethene.....	50	N.D.
Toluene.....	50	N.D.
1,2,3-Trichlorobenzene.....	50	N.D.
1,2,4-Trichlorobenzene.....	50	N.D.
1,1,1-Trichloroethane.....	50	N.D.
1,1,2-Trichloroethane.....	50	N.D.
Trichloroethene.....	50	N.D.
Trichlorofluoromethane.....	50	N.D.
1,2,3-Trichloropropane.....	50	N.D.
1,2,4-Trimethylbenzene.....	50	N.D.
1,3,5-Trimethylbenzene.....	50	N.D.
Vinyl chloride.....	50	N.D.
o-Xylene.....	50	N.D.
m,p-Xylene.....	50	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 81 ; PID: 85
 Surrogate Recovery Control Limits are ELCD: 32 - 148 %; PID: 61 - 120%.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Belfield Business Park Sample Descript: Soil, B3/S3-7.5' Analysis Method: EPA 8021 Sample Number: 411-1027	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Analyzed: Nov 15, 1994 Reported: Nov 18, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Benzene.....	200	N.D.
Bromobenzene.....	200	N.D.
Bromochloromethane.....	200	N.D.
Bromodichloromethane.....	200	N.D.
Bromoform.....	200	N.D.
Bromomethane.....	200	N.D.
n-Butylbenzene.....	200	N.D.
sec-Butylbenzene.....	200	N.D.
tert-Butylbenzene.....	200	N.D.
Carbon tetrachloride.....	200	N.D.
Chlorobenzene.....	200	N.D.
Chloroethane.....	200	N.D.
Chloroform.....	200	N.D.
Chloromethane.....	200	N.D.
2-Chlorotoluene.....	200	N.D.
4-Chlorotoluene.....	200	N.D.
Dibromochloromethane.....	200	N.D.
1,2-Dibromo-3-chloropropane.....	200	N.D.
1,2-Dibromoethane.....	200	N.D.
Dibromomethane.....	200	N.D.
1,2-Dichlorobenzene.....	200	N.D.
1,3-Dichlorobenzene.....	200	N.D.
1,4-Dichlorobenzene.....	200	N.D.
Dichlorodifluoromethane.....	200	N.D.
1,1-Dichloroethane.....	200	N.D.
1,2-Dichloroethane.....	200	N.D.
1,1-Dichloroethene.....	200	N.D.
cis-1,2-Dichloroethene.....	200	N.D.
trans-1,2-Dichloroethene.....	200	N.D.
1,2-Dichloropropane.....	200	N.D.
1,3-Dichloropropane.....	200	N.D.
2,2-Dichloropropane.....	200	N.D.
1,1-Dichloropropene.....	200	N.D.
Ethylbenzene.....	200	N.D.
Hexachlorobutadiene.....	200	N.D.
Isopropylbenzene.....	200	N.D.
p-Isopropyltoluene.....	200	N.D.
Methyl ethyl ketone.....	500	N.D.
Methylene chloride.....	500	N.D.

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Belfield Business Park Sample Descript: Soil, B3/S3-7.5' Analysis Method: EPA 8021 Sample Number: 411-1027	Sampled: Nov 11, 1994 Received: Nov 14, 1994 Analyzed: Nov 15, 1994 Reported: Nov 18, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Naphthalene.....	200	N.D.
n-Propylbenzene.....	200	N.D.
Styrene.....	200	N.D.
1,1,1,2-Tetrachloroethane.....	200	N.D.
1,1,2,2-Tetrachloroethane.....	200	N.D.
Tetrachloroethene.....	200	N.D.
Toluene.....	200	N.D.
1,2,3-Trichlorobenzene.....	200	N.D.
1,2,4-Trichlorobenzene.....	200	N.D.
1,1,1-Trichloroethane.....	200	N.D.
1,1,2-Trichloroethane.....	200	N.D.
Trichloroethene.....	200	N.D.
Trichlorofluoromethane.....	200	N.D.
1,2,3-Trichloropropane.....	200	N.D.
1,2,4-Trimethylbenzene.....	200	N.D.
1,3,5-Trimethylbenzene.....	200	N.D.
Vinyl chloride.....	200	N.D.
o-Xylene.....	200	N.D.
m,p-Xylene.....	200	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 44 ; PID: 43, S3
 Surrogate Recovery Control Limits are ELCD: 32 - 148 %; PID: 61 - 120%.
 The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

NORTH CREEK ANALYTICAL Inc.

Please Note:

The PID Surrogate Recovery for sample # 411-1027 is outside of the NCA established control limits.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Rob Cousins

Client Project ID: Bellfield Business Park
Sample Descript: Method Blank
Analysis Method: EPA 8021
Sample Number: BLK111594

Analyzed: Nov 15, 1994
Reported: Nov 18, 1994

VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Benzene.....	50	N.D.
Bromobenzene.....	50	N.D.
Bromochloromethane.....	50	N.D.
Bromodichloromethane.....	50	N.D.
Bromoform.....	50	N.D.
Bromomethane.....	50	N.D.
n-Butylbenzene.....	50	N.D.
sec-Butylbenzene.....	50	N.D.
tert-Butylbenzene.....	50	N.D.
Carbon tetrachloride.....	50	N.D.
Chlorobenzene.....	50	N.D.
Chloroethane.....	50	N.D.
Chloroform.....	50	N.D.
Chloromethane.....	50	N.D.
2-Chlorotoluene.....	50	N.D.
4-Chlorotoluene.....	50	N.D.
Dibromochloromethane.....	50	N.D.
1,2-Dibromo-3-chloropropane.....	50	N.D.
1,2-Dibromoethane.....	50	N.D.
Dibromomethane.....	50	N.D.
1,2-Dichlorobenzene.....	50	N.D.
1,3-Dichlorobenzene.....	50	N.D.
1,4-Dichlorobenzene.....	50	N.D.
Dichlorodifluoromethane.....	50	N.D.
1,1-Dichloroethane.....	50	N.D.
1,2-Dichloroethane.....	50	N.D.
1,1-Dichloroethene.....	50	N.D.
cis-1,2-Dichloroethene.....	50	N.D.
trans-1,2-Dichloroethene.....	50	N.D.
1,2-Dichloropropane.....	50	N.D.
1,3-Dichloropropane.....	50	N.D.
2,2-Dichloropropane.....	50	N.D.
1,1-Dichloropropene.....	50	N.D.
Ethylbenzene.....	50	N.D.
Hexachlorobutadiene.....	50	N.D.
Isopropylbenzene.....	50	N.D.
p-Isopropyltoluene.....	50	N.D.
Methyl ethyl ketone.....	500	N.D.
Methylene chloride.....	500	N.D.


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: Belfield Business Park Sample Descript: Method Blank Analysis Method: EPA 8021 Sample Number: BLK111594	Analyzed: Nov 15, 1994 Reported: Nov 18, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
Naphthalene.....	50	N.D.
n-Propylbenzene.....	50	N.D.
Styrene.....	50	N.D.
1,1,1,2-Tetrachloroethane.....	50	N.D.
1,1,2,2-Tetrachloroethane.....	50	N.D.
Tetrachloroethene.....	50	N.D.
Toluene.....	50	N.D.
1,2,3-Trichlorobenzene.....	50	N.D.
1,2,4-Trichlorobenzene.....	50	N.D.
1,1,1-Trichloroethane.....	50	N.D.
1,1,2-Trichloroethane.....	50	N.D.
Trichloroethene.....	50	N.D.
Trichlorofluoromethane.....	50	N.D.
1,2,3-Trichloropropane.....	50	N.D.
1,2,4-Trimethylbenzene.....	50	N.D.
1,3,5-Trimethylbenzene.....	50	N.D.
Vinyl chloride.....	50	N.D.
o-Xylene.....	50	N.D.
m,p-Xylene.....	50	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 89 ; PID: 94
 Surrogate Recovery Control Limits are ELCD: 32 - 148 %; PID: 61 - 120%.
 The results reported above are on a dry weight basis.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: Bellfield Business Park
 Sample Matrix: Soil
 Analysis Method: EPA 8021
 Units: mg/kg (ppm)
 QC Sample #: 411-1020

Analyst: R. Lister

 Analyzed: Nov 15, 1994
 Reported: Nov 18, 1994

MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	1,1-DCE	TCE	Chloro-Benzene	Benzene	Toluene
Sample Result:	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	2.44	2.44	2.44	2.44	2.44
Spike Result:	1.71	1.45	1.65	1.79	1.78
Spike % Recovery:	70%	59%	68%	73%	73%
Spike Dup. Result:	1.70	1.52	1.76	1.89	1.88
Spike Duplicate % Recovery:	70%	62%	72%	77%	77%
Upper Control Limit %:	115	102	113	113	110
Lower Control Limit %:	31	46	54	58	63
Relative % Difference:	0.6%	4.8%	6.5%	5.4%	5.5%
Maximum RPD:	20	21	22	25	23

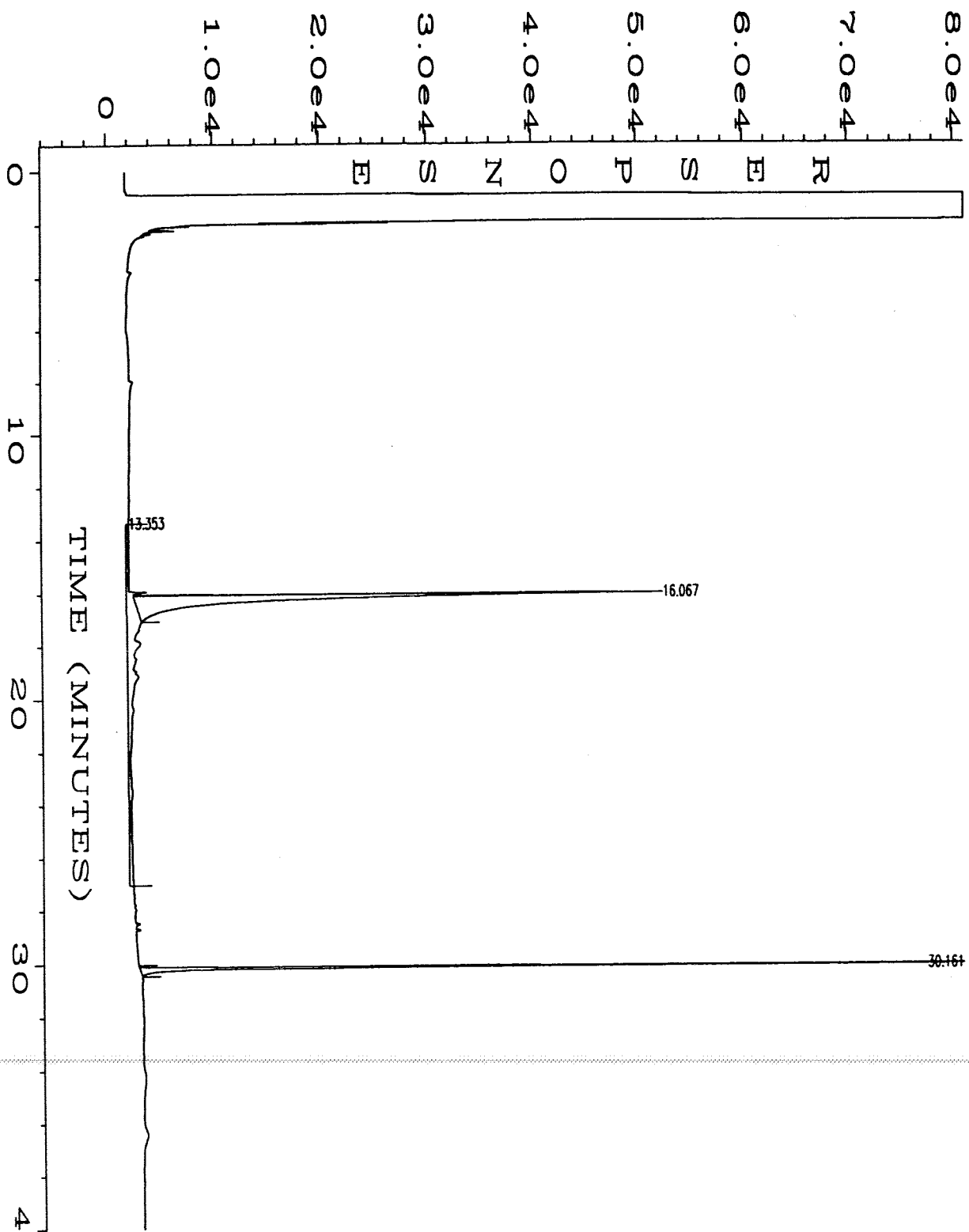
NORTH CREEK ANALYTICAL Inc.

$$\% \text{ Recovery} = \frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$$

$$\text{Relative \% Difference} = \frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$$

 Shannon Stowell
 Project Manager

user modified



Data File Name : C:\HPCHEM\1\DATA\NOV16\027F1901.D
Operator : sk
Instrument : PHILLIP
Sample Name : blk11/17s8015
Run Time Bar Code:
Acquired on : 18 Nov 94 00:23 AM
Report Created on: 18 Nov 94 01:13 AM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 19
Instrument Method: TPH1F.MTH
Analysis Method : TPH1F.MTH

=====
Area Percent Report
 =====

Data File Name : C:\HPCHEM\1\DATA\NOV16\027F1901.D
 Operator : sk Page Number : 1
 Instrument : PHILLIP Vial Number : 27
 Sample Name : blk11/17s8015 Injection Number : 1
 Run Time Bar Code: Sequence Line : 19
 Acquired on : 18 Nov 94 00:23 AM Instrument Method: TPH1F.MTH
 Report Created on: 18 Nov 94 01:13 AM Analysis Method : TPH1F.MTH

Sig. 1 in C:\HPCHEM\1\DATA\NOV16\027F1901.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.353	448885	50926	MM R	0.147	35.0325
2	16.067	523164	50086	MM T	0.174	40.8295
3	30.161	309289	105969	MM T	0.049	24.138

Total area = 1281339

User Modified

=====

Extraction Parameters-	Initial Wt.(g)/Vol(L):	30	Final Volume(mL):	2
------------------------	------------------------	----	-------------------	---

Instrument Parameters-

Dilution Fact.:	1	Injection Volume:	0.002
Calibration RF:	3607	2 Fbp RF:	3995
Analysis:	TPH1F.MTH	Octacosane RF:	2007

Integration Results (Area)-

Total:	448885	2FBP:	523164	Oct:	309289
--------	--------	-------	--------	------	--------

Calculation Results-

Concentration(mg/kg or mg/L):	4.15		
2Fbp conc (mg/kg or mg/L):	4.37	2 FBP %:	58%
Octacosane conc (mg/kg or mg/L):	5.14	OCT %:	66%

=====
Area Percent Report
 =====

Data File Name : C:\HPCHEM\1\DATA\NOV16\028F1901.D
 Operator : sk Page Number : 1
 Instrument : PHILLIP Vial Number : 28
 Sample Name : bs11/17s8015 Injection Number : 1
 Run Time Bar Code: Sequence Line : 19
 Acquired on : 18 Nov 94 01:16 AM Instrument Method: TPH1F.MTH
 Report Created on: 18 Nov 94 02:06 AM Analysis Method : TPH1F.MTH

Sig. 1 in C:\HPCHEM\1\DATA\NOV16\028F1901.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.353	6537310	126698	MM R	0.86	89.2899
2	16.04	465040	115384	MM T	0.072	6.3518
3	30.16	319095	106181	MM T	0.05	4.3584

Total area = 7321445

User Modified

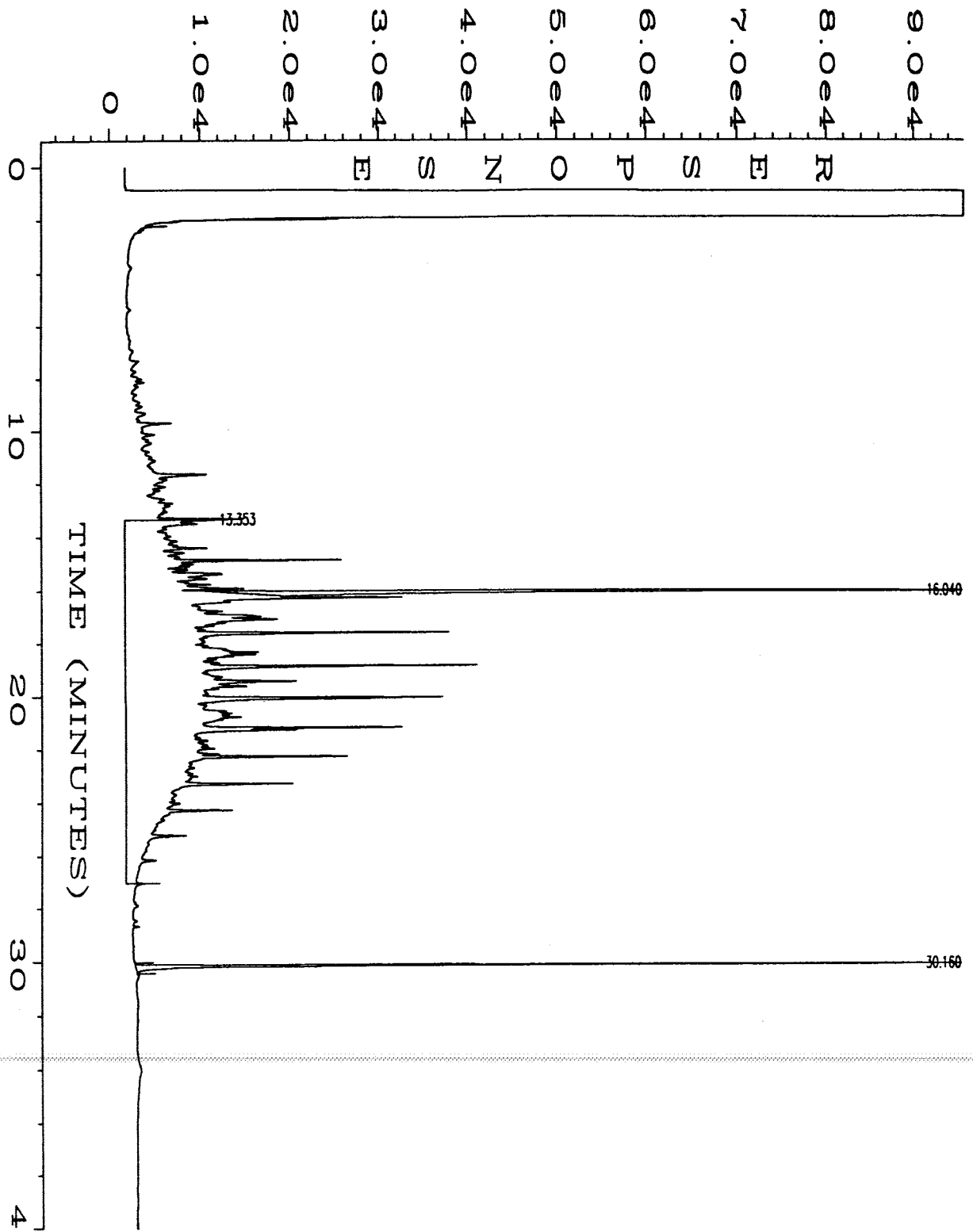
=====

Extraction Parameters-	Initial Wt.(g)/Vol(L):	30	Final Volume(mL):	2
------------------------	------------------------	----	-------------------	---

Instrument Parameters-			
Dilution Fact.:	1	Injection Volume:	0.002
Calibration RF:	3607	2 Fbp RF:	3995
Analysis:	TPH1F.MTH	Octacosane RF:	2007

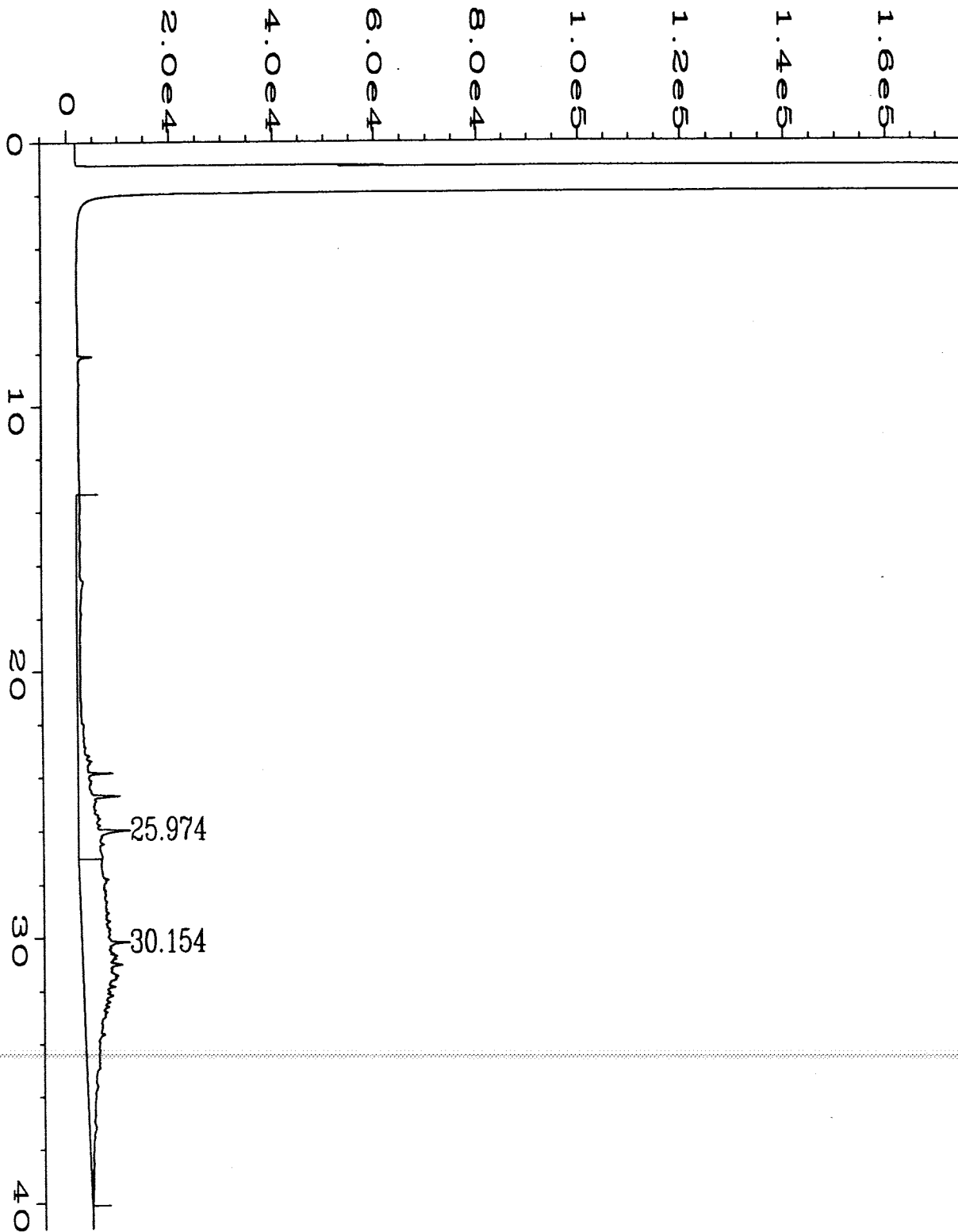
Integration Results (Area)-			
Total:	6537310	2FBP:	465040
		Oct:	319095

Calculation Results-			
Concentration(mg/kg or mg/L):	60.41		
2Fbp conc (mg/kg or mg/L):	3.88	2 FBP %:	52%
Octacosane conc (mg/kg or mg/L):	5.30	OCT %:	68%



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\028F1901.D	Page Number	: 1
Operator	: sk	Vial Number	: 28
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: bs11/17s8015	Sequence Line	: 19
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 01:16 AM	Analysis Method	: TPH1F.MTH
Report Created on:	18 Nov 94 02:05 AM		



user modified

Data File Name : C:\HPCHEM\1\DATA\NOV16\029F1901.D
 Operator : sk
 Instrument : PHILLIP
 Sample Name : 411-1014 21x
 Run Time Bar Code:
 Acquired on : 18 Nov 94 02:11 AM
 Report Created on: 18 Nov 94 11:03 AM
 Page Number : 1
 Vial Number : 29
 Injection Number : 1
 Sequence Line : 19
 Instrument Method: TPH1F.MTH
 Analysis Method : TPHTST.MTH

Area Percent Report

```

Data File Name   : C:\HPCHEM\1\DATA\NOV16\029F1901.D
Operator        : sk
Instrument       : PHILLIP
Sample Name     : 411-1014 21x
Run Time Bar Code:
Acquired on    : 18 Nov 94 02:11 AM
Report Created on: 18 Nov 94 11:03 AM

Page Number     : 1
Vial Number     : 29
Injection Number: 1
Sequence Line   : 19
Instrument Method: TPH1F.MTH
Analysis Method  : TPHTST.MTH
    
```

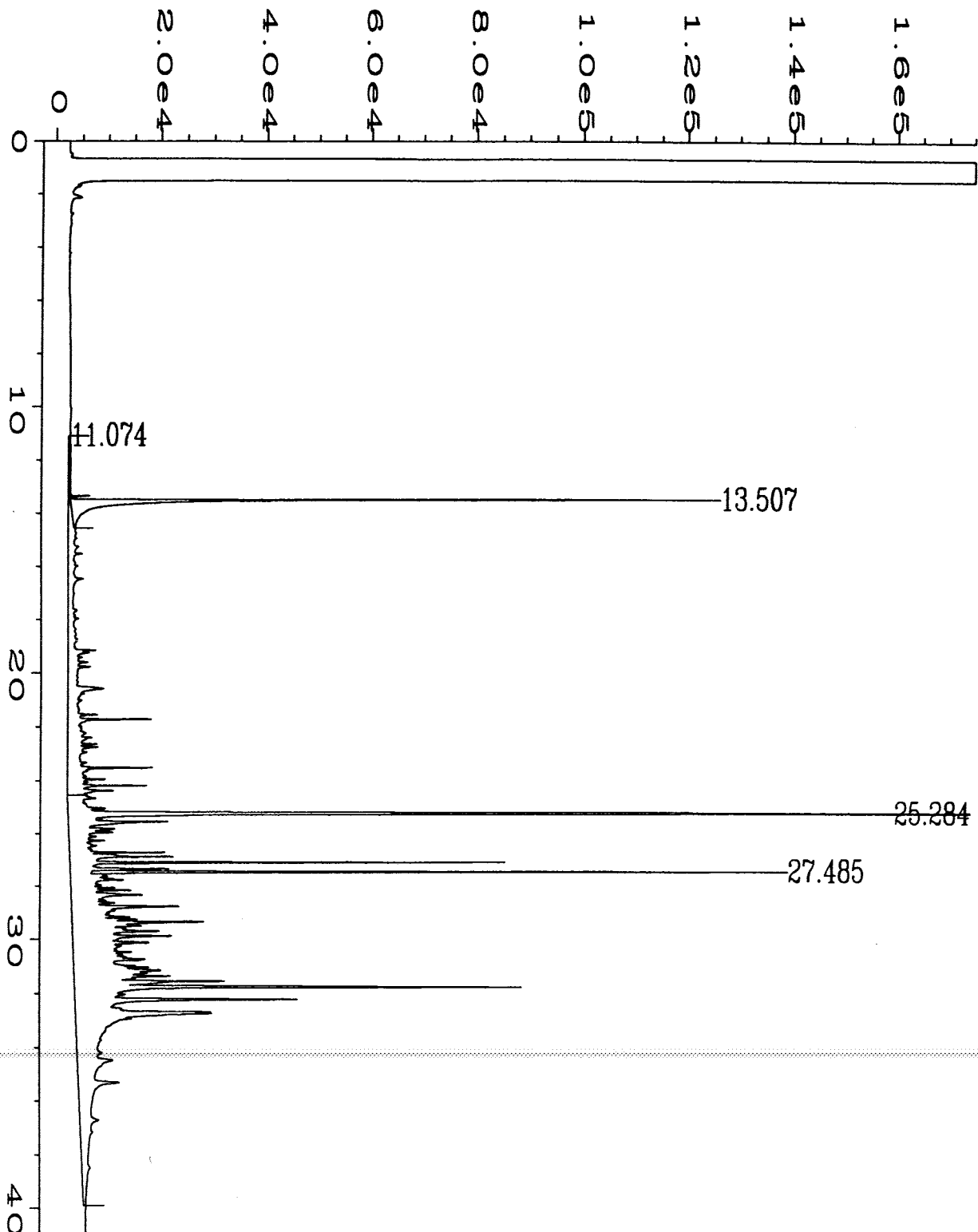
Sig. 1 in C:\HPCHEM\1\DATA\NOV16\029F1901.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	25.974	1250249	10109	MM	2.061	33.1670
2	30.154	2519310	9349	MM	4.491	66.8330

Total area = 3769559

User Modified

$25.1 = 23.1 + 2.0$
 $10 = 9.34 + 0.66$
 $63.96 \times 21 = 1400$
 9900



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\081R2201.D	Page Number	: 1
Operator	: sk	Vial Number	: 81
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1015	Sequence Line	: 22
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 06:29 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 12:05 PM		

=====
Area Percent Report
 =====

Data File Name : C:\HPCHEM\1\DATA\NOV16\081R2201.D
 Operator : sk Page Number : 1
 Instrument : PHILLIP Vial Number : 81
 Sample Name : 411-1015 Injection Number : 1
 Run Time Bar Code: Sequence Line : 22
 Acquired on : 18 Nov 94 06:29 AM Instrument Method: TPH1F.MTH
 Report Created on: 18 Nov 94 12:06 PM Analysis Method : TPHTST.MTH

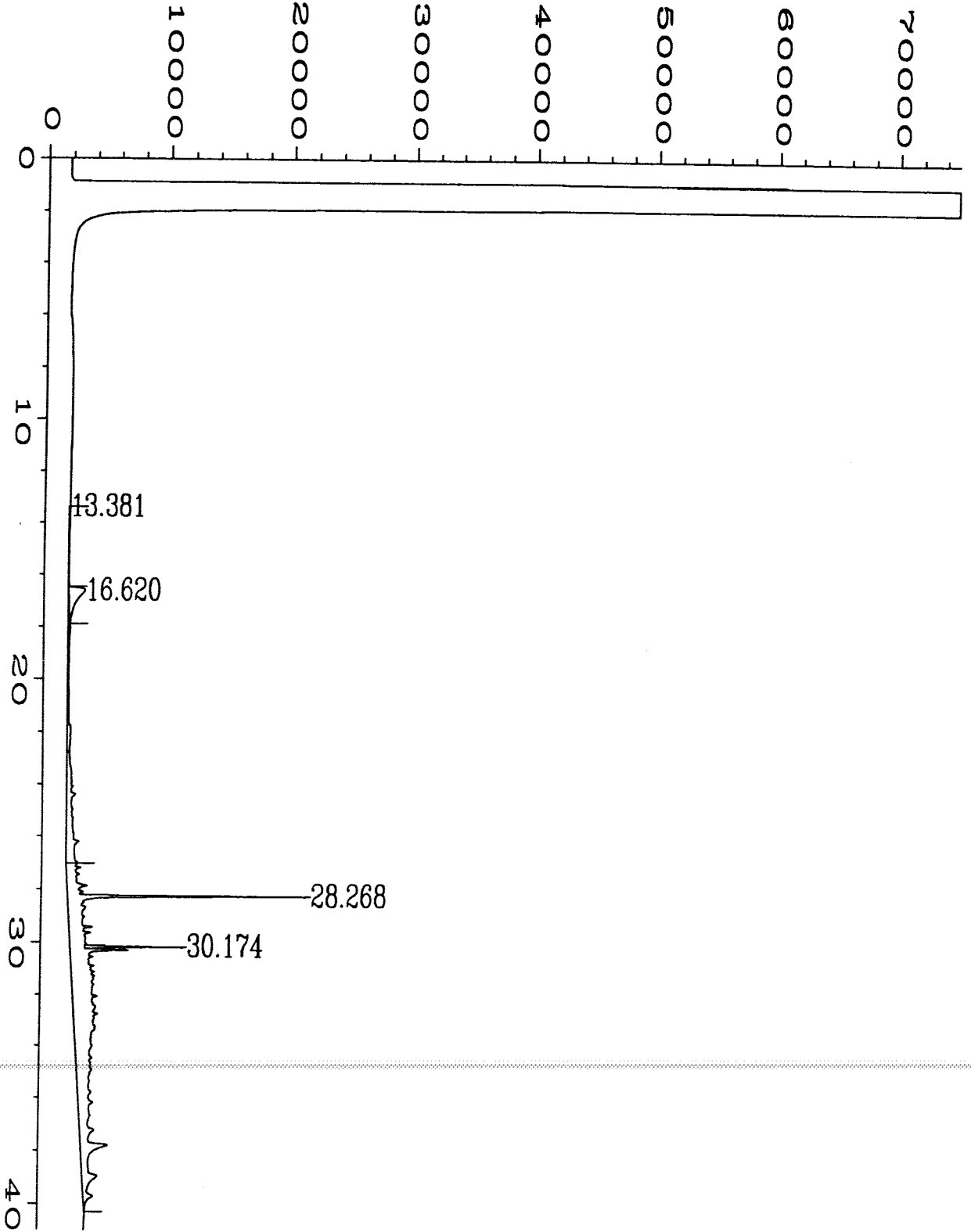
Sig. 2 in C:\HPCHEM\1\DATA\NOV16\081R2201.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	11.074	1491690	125255	MM R	0.198	15.8663
2	13.507	544522	123665	MM T	0.073	5.7918
3	25.284	7020708	289813	MM R	0.404	74.6754
4	27.485	344710	135777	MM T	0.042	3.6665

Total area = 9401629

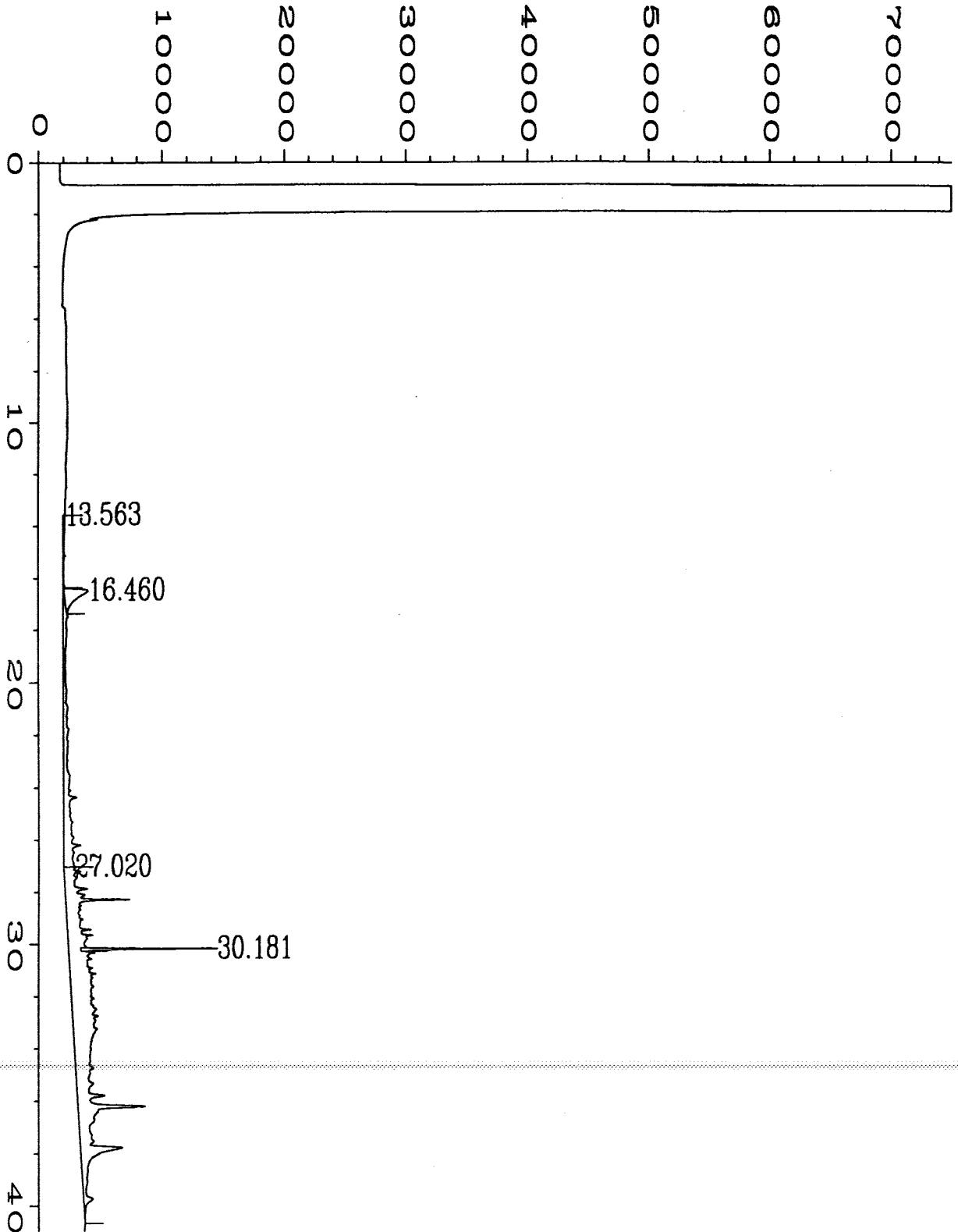
User Modified

$DSL = 14.2 \div 176.9 = 0.12 = \frac{120}{1500}$
 MO = 6370



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\030F1901.D	Page Number	: 1
Operator	: sk	Vial Number	: 30
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1015 11x	Sequence Line	: 19
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 03:03 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 11:09 AM		



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\031F1901.D	Page Number	: 1
Operator	: sk	Vial Number	: 31
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1016 11x	Sequence Line	: 19
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 03:56 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 11:12 AM		

Area Percent Report

```

Data File Name   : C:\HPCHEM\1\DATA\NOV16\031F1901.D
Operator        : sk
Instrument       : PHILLIP
Sample Name     : 411-1016 11x
Run Time Bar Code:
Acquired on    : 18 Nov 94 03:56 AM
Report Created on: 18 Nov 94 11:12 AM

Page Number    : 1
Vial Number    : 31
Injection Number : 1
Sequence Line  : 19
Instrument Method: TPH1F.MTH
Analysis Method : TPHTST.MTH
    
```

Sig. 1 in C:\HPCHEM\1\DATA\NOV16\031F1901.D

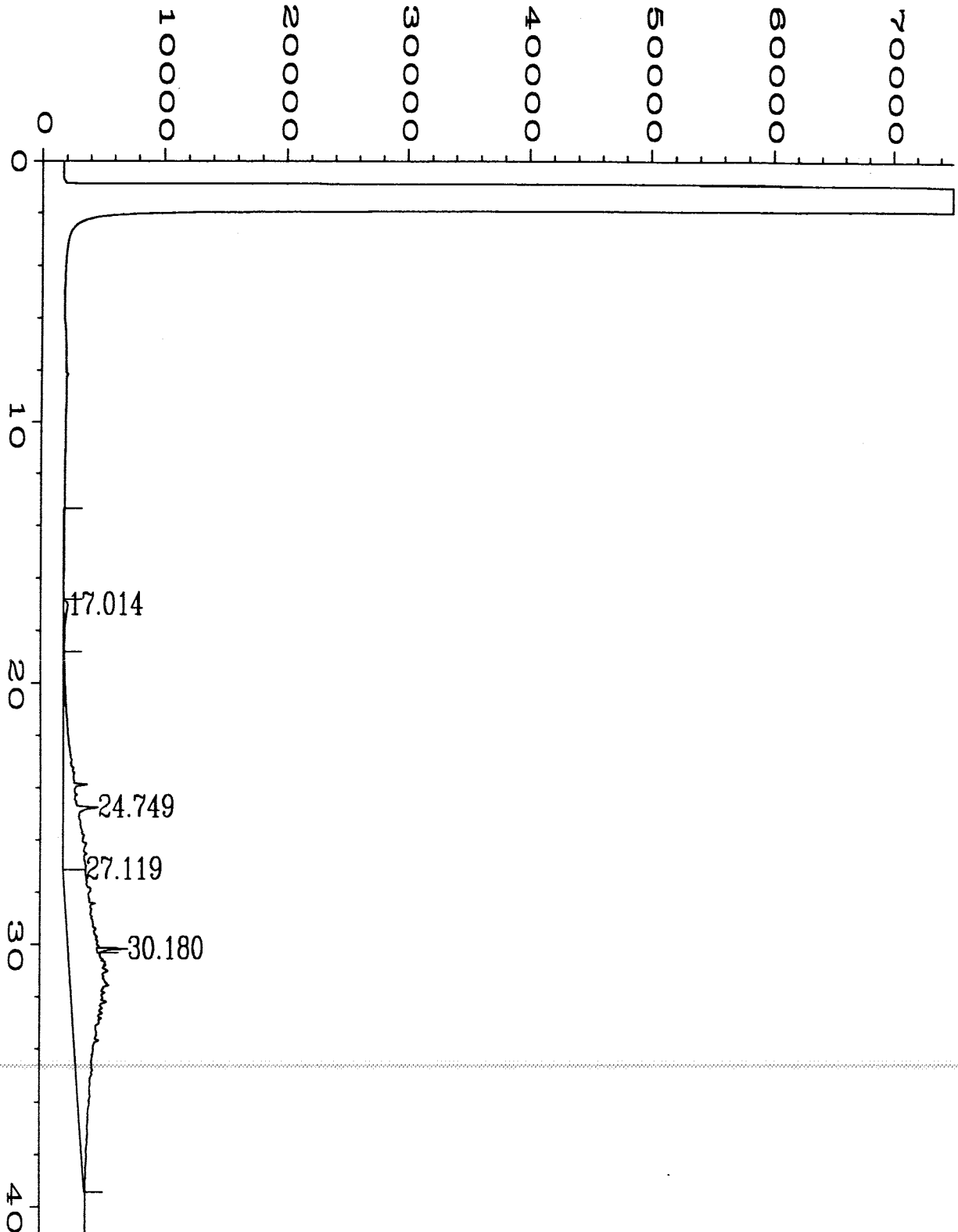
Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.563	268443	2107	MM R	2.123	19.5896
2	16.460	49222✓	2039	MM T	0.402	3.5919
3	27.020	1019504	12194	MM R	1.393	74.3982
4	30.181	33165✓	11159	MM T	0.050	2.4202

Total area = 1370334

User Modified

$$Dst = 27.3 \div 4.13 = 210$$

$$Mo = 356.7 \div " = 2700$$
 60%



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\032F2101.D	Page Number	: 1
Operator	: sk	Vial Number	: 32
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1018 21x	Sequence Line	: 21
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 05:37 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 11:21 AM		

=====
Area Percent Report
 =====

```

Data File Name   : C:\HPCHEM\1\DATA\NOV16\032F2101.D
Operator        : sk
Instrument       : PHILLIP
Sample Name     : 411-1018 21x
Run Time Bar Code:
Acquired on    : 18 Nov 94 05:37 AM
Report Created on: 18 Nov 94 11:21 AM

Page Number     : 1
Vial Number     : 32
Injection Number: 1
Sequence Line   : 21
Instrument Method: TPH1F.MTH
Analysis Method : TPHTST.MTH
  
```

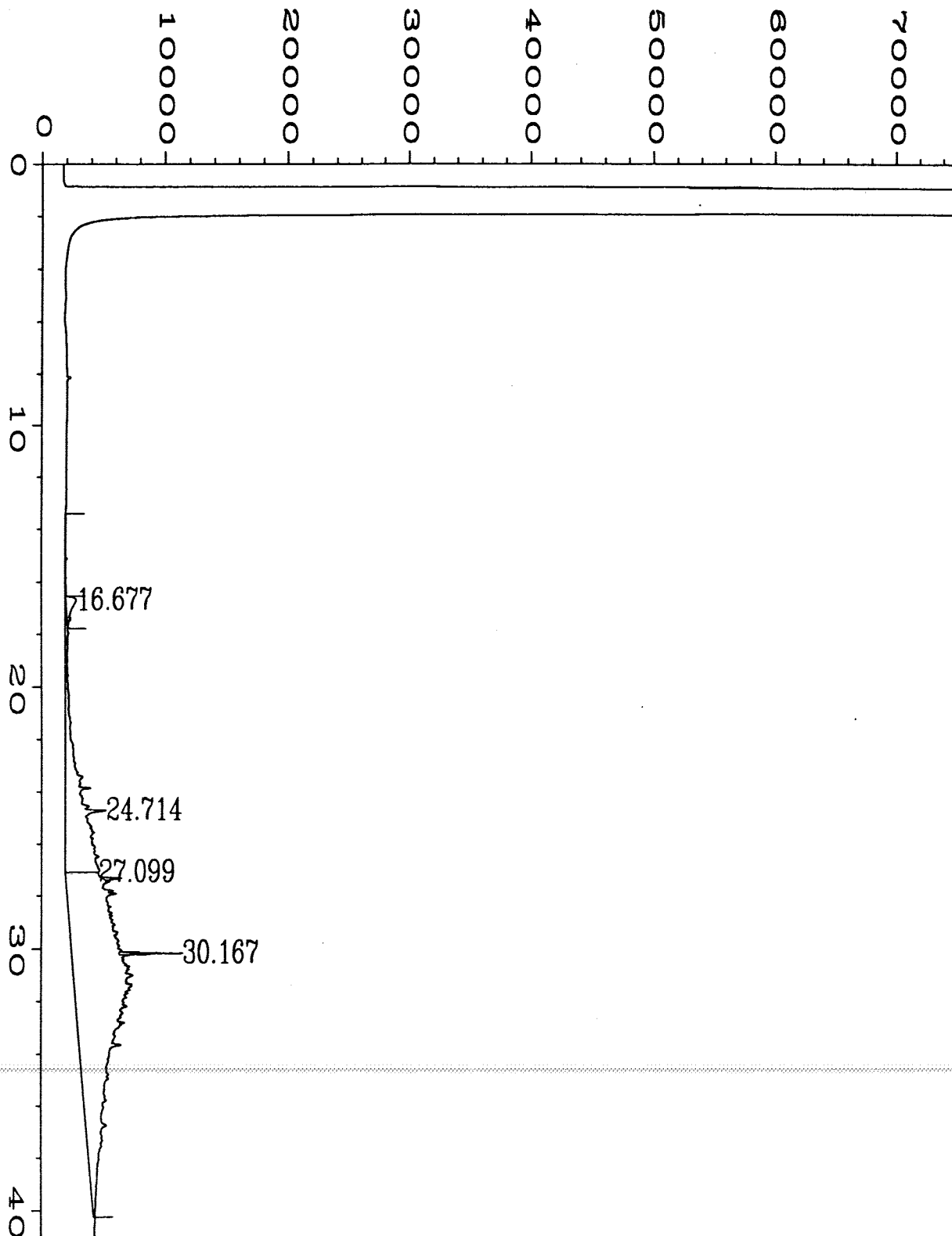
Sig. 1 in C:\HPCHEM\1\DATA\NOV16\032F2101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	17.014	16728✓	349	MM T	0.798	1.0025
2	24.749	447101	2929	MM R	2.544	26.7949
3	27.119	1194172	4932	MM R	4.036	71.5672
4	30.180	10601✓	2507	MM T	0.070	0.6353

Total area = 1668603

User Modified

=====
 DSL = 173.5 ÷ 0.90 = 190
 MO = 1595 ÷ " = 1800



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\033F2101.D	Page Number	: 1
Operator	: sk	Vial Number	: 33
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1020 21x	Sequence Line	: 21
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 06:29 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 11:24 AM		

=====
Area Percent Report
=====

Data File Name : C:\HPCHEM\1\DATA\NOV16\033F2101.D
Operator : sk Page Number : 1
Instrument : PHILLIP Vial Number : 33
Sample Name : 411-1020 21x Injection Number : 1
Run Time Bar Code: Sequence Line : 21
Acquired on : 18 Nov 94 06:29 AM Instrument Method: TPH1F.MTH
Report Created on: 18 Nov 94 11:24 AM Analysis Method : TPHTST.MTH

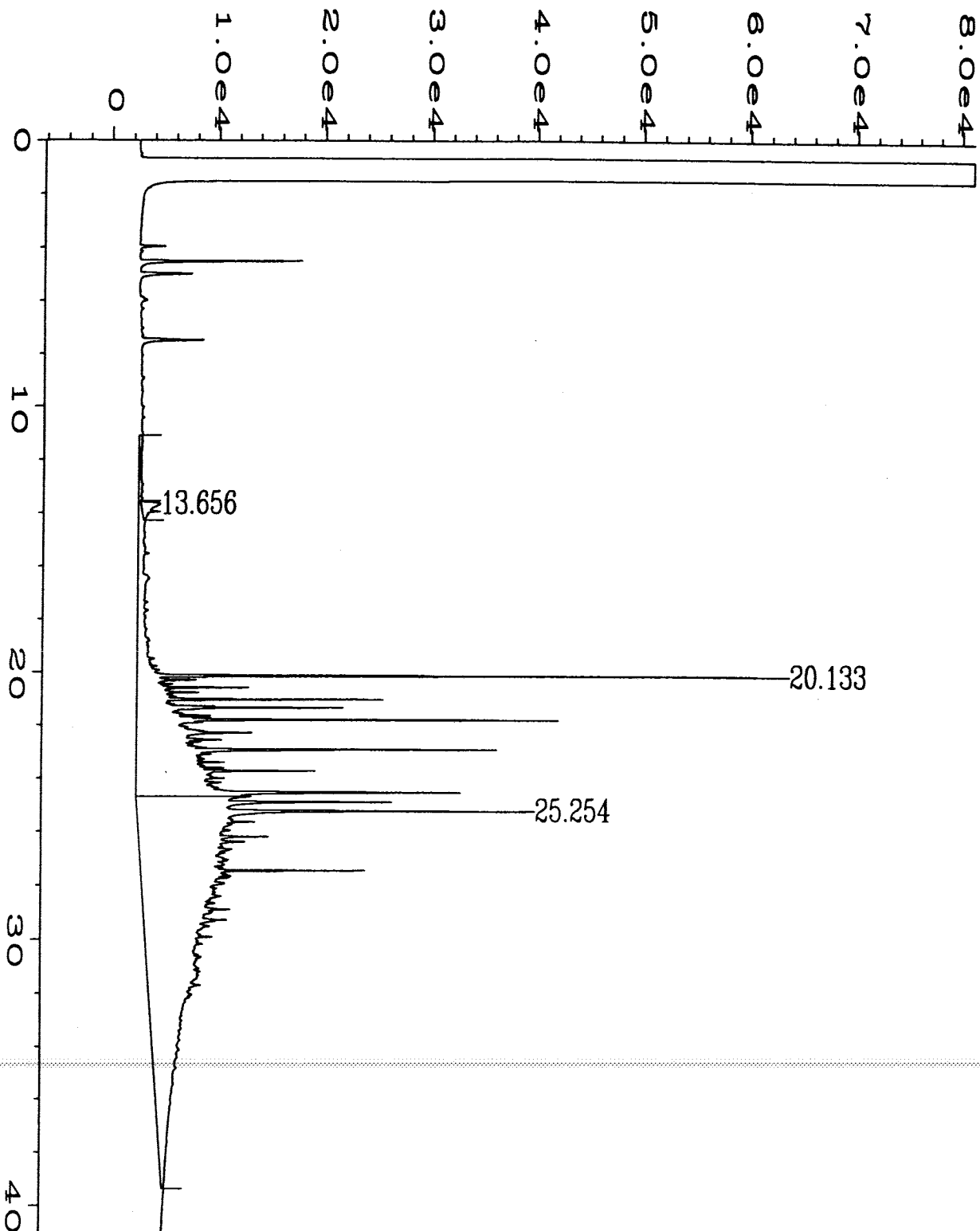
Sig. 1 in C:\HPCHEM\1\DATA\NOV16\033F2101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	16.677	27409✓	828	MM T	0.551	1.0830
2	24.714	567178	3300	MM R	2.864	22.4114
3	27.099	1920770	9051	MM R	3.537	75.8971
4	30.167	15397✓	5214	MM T	0.049	0.6084

Total area = 2530754

User Modified

=====
 $DBL = 5.24 \div 0.82 = \sim 134$
 $MO = 1560$



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\076R2001.D	Page Number	: 1
Operator	: sk	Vial Number	: 76
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1024 11x	Sequence Line	: 20
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 01:16 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 11:27 AM		

=====
Area Percent Report
=====

Data File Name : C:\HPCHEM\1\DATA\NOV16\076R2001.D
Operator : sk Page Number : 1
Instrument : PHILLIP Vial Number : 76
Sample Name : 411-1024 11x Injection Number : 1
Run Time Bar Code: Sequence Line : 20
Acquired on : 18 Nov 94 01:16 AM Instrument Method: TPH1F.MTH
Report Created on: 18 Nov 94 11:28 AM Analysis Method : TPHTST.MTH

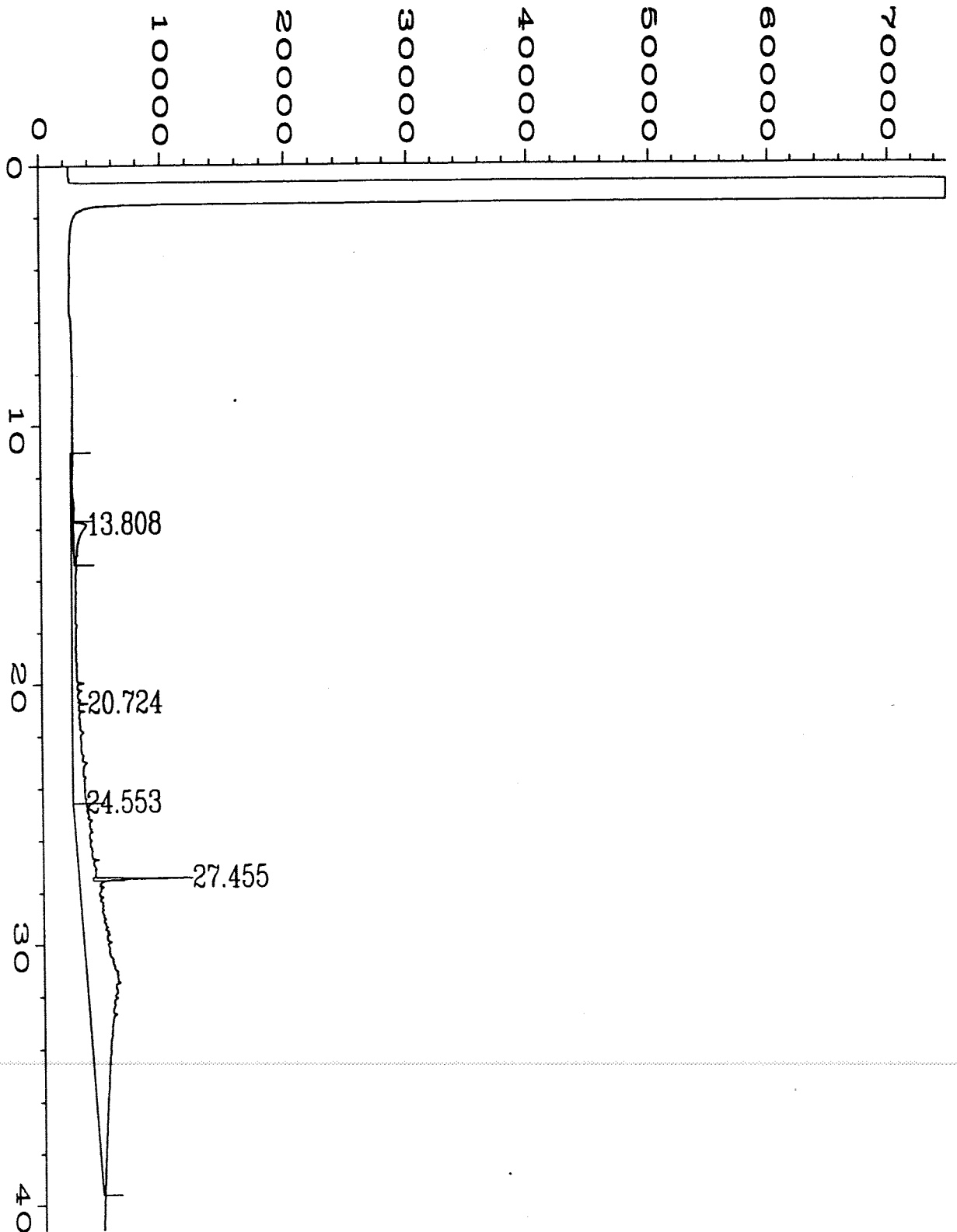
Sig. 2 in C:\HPCHEM\1\DATA\NOV16\076R2001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.656	36311	1817	MM T	0.333	0.5873
2	20.133	2320144	61985	MM R	0.624	37.5244
3	25.254	3826572	37739	MM	1.690	61.8883

Total area = 6183026

User Modified

=====
 $282 = 243 \div 0.46 = 520$
 $MO = 1060 \div " = 2300$



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\077R2001.D	Page Number	: 1
Operator	: sk	Vial Number	: 77
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1025 11x	Sequence Line	: 20
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 02:11 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 11:32 AM		

=====
Area Percent Report
 =====

```

Data File Name   : C:\HPCHEM\1\DATA\NOV16\077R2001.D
Operator        : sk
Instrument       : PHILLIP
Sample Name     : 411-1025 11x
Run Time Bar Code:
Acquired on    : 18 Nov 94 02:11 AM
Report Created on: 18 Nov 94 11:32 AM

Page Number     : 1
Vial Number     : 77
Injection Number: 1
Sequence Line   : 20
Instrument Method: TPH1F.MTH
Analysis Method  : TPHTST.MTH
  
```

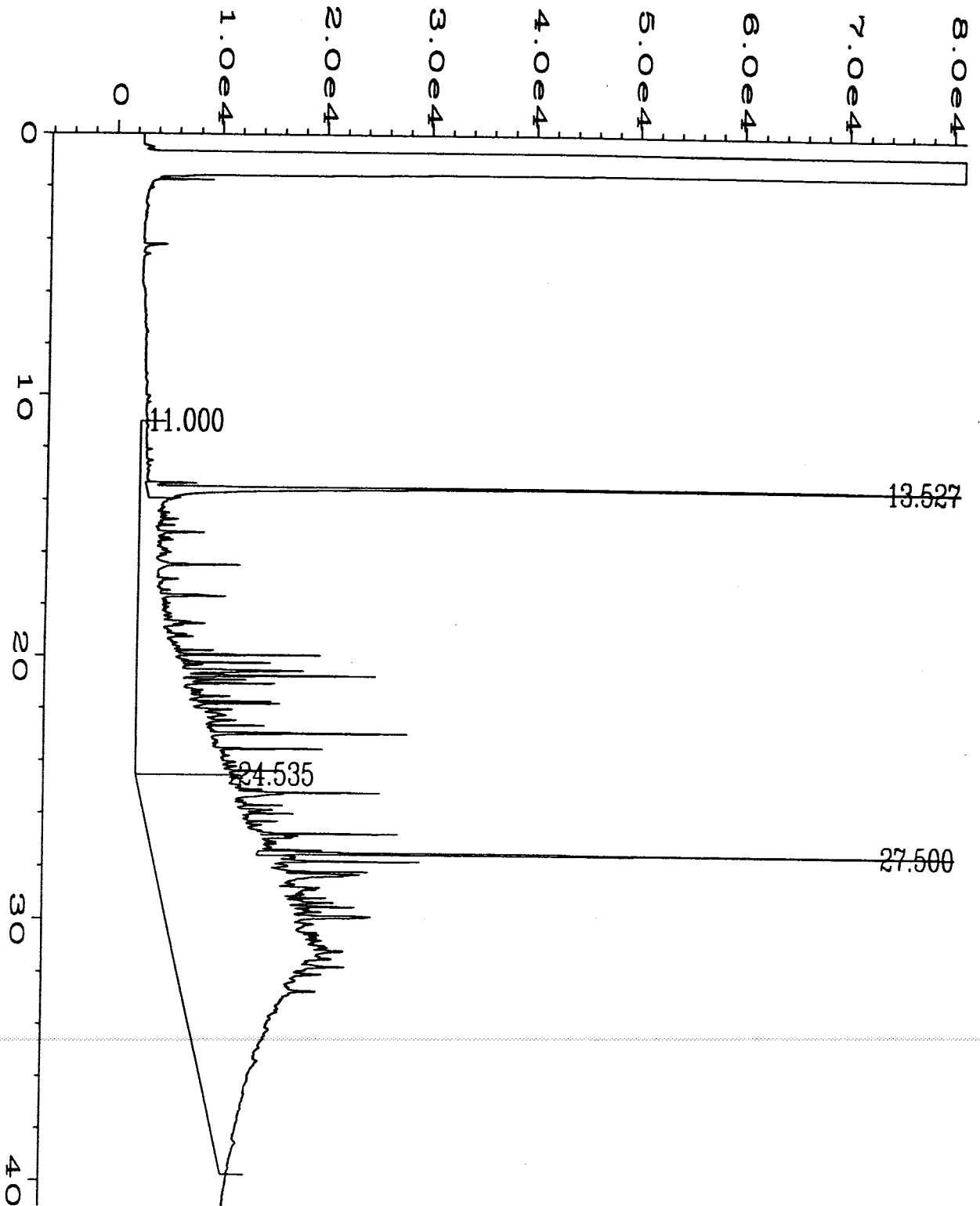
Sig. 2 in C:\HPCHEM\1\DATA\NOV16\077R2001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.808	45519 ✓	1083	MM T	0.701	2.7283
2	20.724	340890	1249	MM R	4.548	20.4322
3	24.553	1255438	9400	MM R	2.226	75.2484
4	27.455	26544 ✓	8277	MM T	0.053	1.5910

Total area = 1668391

User Modified

=====
DBL = 95.7 ± 0.79% 45°
MS = 347.9 ± " = 440



Data File Name	: C:\HPCHEM\1\DATA\NOV16\083R2201.D	Page Number	: 1
Operator	: sk	Vial Number	: 83
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1025d	Sequence Line	: 22
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 08:16 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 12:12 PM		

=====
Area Percent Report
=====

Data File Name : C:\HPCHEM\1\DATA\NOV16\083R2201.D
Operator : sk Page Number : 1
Instrument : PHILLIP Vial Number : 83
Sample Name : 411-1025d Injection Number : 1
Run Time Bar Code: Sequence Line : 22
Acquired on : 18 Nov 94 08:16 AM Instrument Method: TPH1F.MTH
Report Created on: 18 Nov 94 12:13 PM Analysis Method : TPHTST.MTH

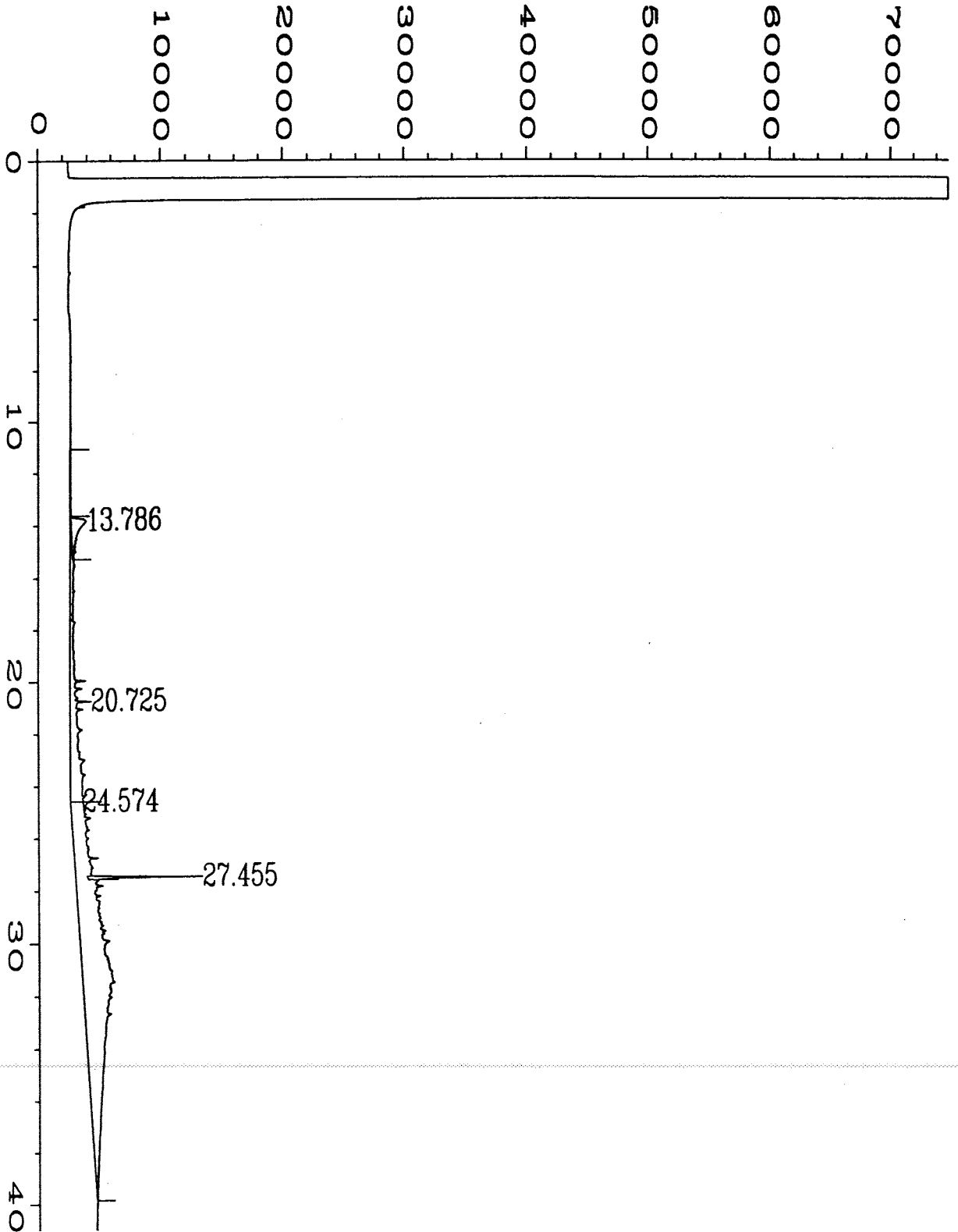
Sig. 2 in C:\HPCHEM\1\DATA\NOV16\083R2201.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	11.000	3289919	203344	MM R	0.270	26.6184
2	13.527	675314	196801	MM T	0.057	5.4639
3	24.535	8051711	141937	MM R	0.945	65.1456
4	27.500	342612	130779	MM T	0.062	2.7720

Total area = 1.23596E+007

User Modified

=====



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\078R2001.D	Page Number	: 1
Operator	: sk	Vial Number	: 78
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1025d 11x	Sequence Line	: 20
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 03:03 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 11:39 AM		

=====
Area Percent Report
 =====

```

Data File Name   : C:\HPCHEM\1\DATA\NOV16\078R2001.D
Operator        : sk
Instrument       : PHILLIP
Sample Name     : 411-1025d 11x
Run Time Bar Code:
Acquired on    : 18 Nov 94 03:03 AM
Report Created on: 18 Nov 94 11:39 AM

Page Number     : 1
Vial Number     : 78
Injection Number: 1
Sequence Line   : 20
Instrument Method: TPH1F.MTH
Analysis Method : TPHTST.MTH
  
```

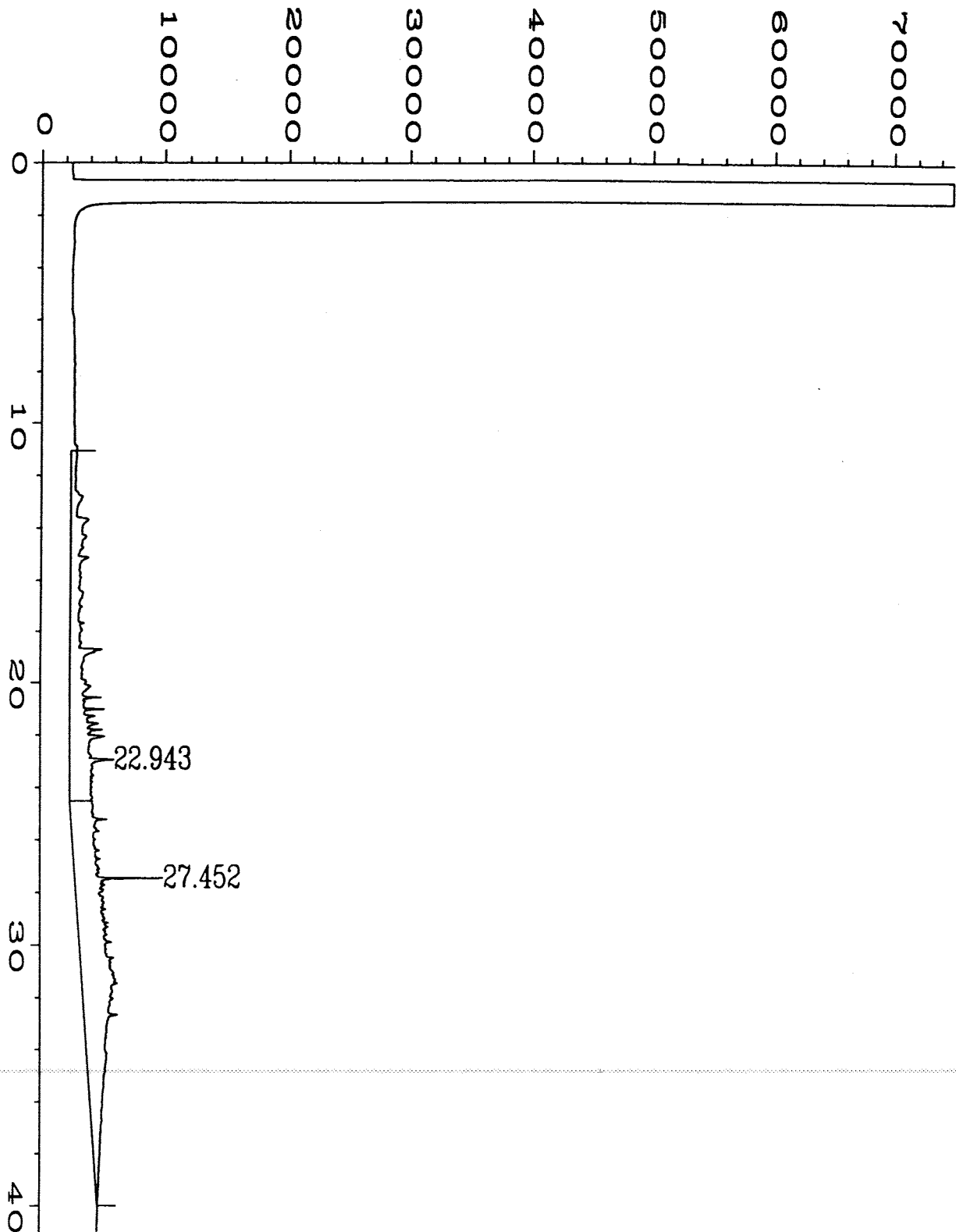
Sig. 2 in C:\HPCHEM\1\DATA\NOV16\078R2001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	13.786	44023	1236	MM T	0.594	2.8180
2	20.725	299878	1708	MM R	2.926	19.1958
3	24.574	1189316	10519	MM R	1.884	76.1306
4	27.455	28987	9542	MM T	0.051	1.8555

Total area = 1562204

User Modified

DSL = 31.4 ÷ 9.79 = 40



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\079R2001.D	Page Number	: 1
Operator	: sk	Vial Number	: 79
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1027 21x	Sequence Line	: 20
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 18 Nov 94 03:56 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 11:49 AM		

Area Percent Report

Data File Name : C:\HPCHEM\1\DATA\NOV16\079R2001.D
Operator : sk Page Number : 1
Instrument : PHILLIP Vial Number : 79
Sample Name : 411-1027 21x Injection Number : 1
Run Time Bar Code: Sequence Line : 20
Acquired on : 18 Nov 94 03:56 AM Instrument Method: TPH1F.MTH
Report Created on: 18 Nov 94 11:50 AM Analysis Method : TPHTST.MTH

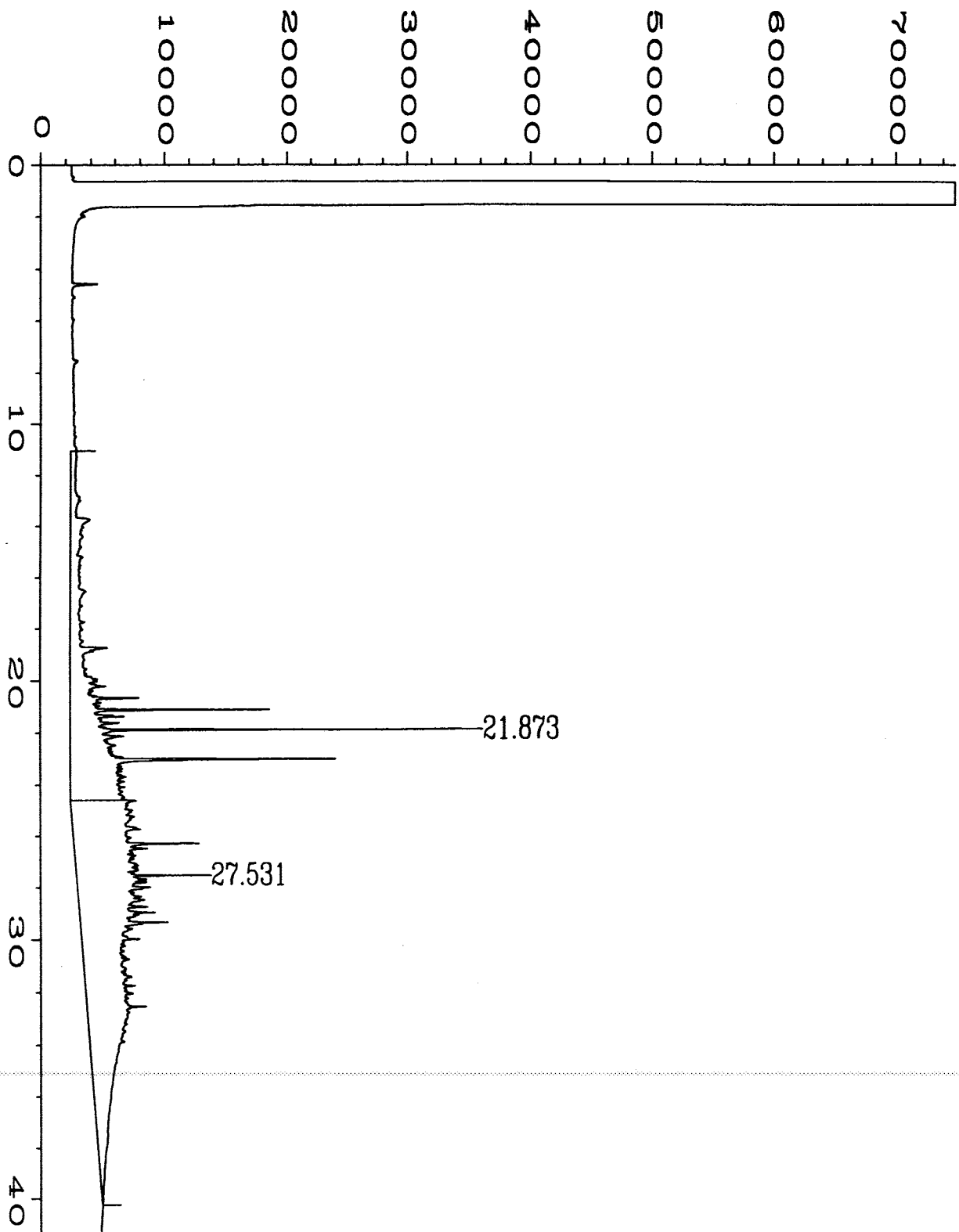
Sig. 2 in C:\HPCHEM\1\DATA\NOV16\079R2001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	22.943	901044 ✓	3629	MM	4.139	38.1112
2	27.452	1463203 ✓	7183	MM	3.395	61.8888

Total area = 2364247

User Modified

$DS2 = 180 \div 0.15 = 1200$
 $MO = 774 \div \dots = 5200$



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV16\080R2001.D	Page Number	: 1
Operator	: sk	Vial Number	: 80
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-1028 21x	Sequence Line	: 20
Run Time Bar Code:		Instrument Method:	BLK.MTH
Acquired on	: 18 Nov 94 04:49 AM	Analysis Method	: TPHTST.MTH
Report Created on:	18 Nov 94 12:02 PM		

Area Percent Report

```

Data File Name   : C:\HPCHEM\1\DATA\NOV16\080R2001.D
Operator        : sk
Instrument       : PHILLIP
Sample Name     : 411-1028  21x
Run Time Bar Code:
Acquired on    : 18 Nov 94  04:49 AM
Report Created on: 18 Nov 94  12:02 PM

Page Number     : 1
Vial Number     : 80
Injection Number: 1
Sequence Line   : 20
Instrument Method: BLK.MTH
Analysis Method : TPHTST.MTH
    
```

Sig. 2 in C:\HPCHEM\1\DATA\NOV16\080R2001.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	21.873	1437491	34162	MM	0.701	35.0921
2	27.531	2658843	11139	MM	3.978	64.9079

Total area = 4096334

User Modified

$281 = 287.6 \div 8.28 = 102.7$
 $40 = 146.8 \div 3.67 = 5000$

RZA AGRA, Inc.

Engineering & Environmental Services
 11335 N.E. 122nd Way, Suite 100
 Kirkland, Washington 98034
 (206) 820-4669 FAX (206) 821-3914

12603

(SRP)

Chain of Custody Record / Analysis Request

Project Name: BELLEFIELD BUS. PARK Job No.: 1109738-02
 Project Manager: ROB COUSINS Phone #: 820-4669
 Sampler: ROB COUSINS / ERIC SMITH

Analysis Requested: (circle, check box or write preferred method in box)

Matrix (S=soil, W=water, A=air)	40 ml VOA / HCL	1 L Glass / SURFURIC	8 oz Glass /	16 GASS / -	POLY / NITRIC	CHILL	BTEX by EPA 8020 Soil / EPA 602 Water	WTPH-G	BTEX / WTPH-G	WTPH-HCID	WTPH-D / EXTRACT, STRENGTH TREATMENT	TPH by EPA 8015 Mod.	WTPH-418.1 Modified	TPH by EPA 418.1	LEAD EPA 6010 7420 7421 Soil	Total / Dissolved EPA 7421 Water	TOTAL METALS	TCLP EPA 1311	PCBs EPA 8080 Soil EPA 608 Water	VOCs EPA 8010 8020 Soil EPA 601 602 Water	GC/MS EPA 8240 Volatiles	GC/MS EPA-8210 Semi-volatiles 8310	EPA 8021	PESTICIDES / PCB EPA 8081	Hold for Further Analysis	RUSH (see below)	
MW-1	W	2	1	1	1						X																X
MW-8		2	1	3	1																						
MW-10																											
MW-11																											
MW-12																											
MW-15																											
MW-16																											

Cancelled per Rob Cousins 10/24/94

RELINQUISHED BY SAMPLER: Signature: <u>[Signature]</u> Printed Name: <u>ROBERT COUSINS</u> Firm: <u>AGRA</u> Date/Time: <u>10/24/94 1:50 PM</u>	RELINQUISHED BY: Signature: Printed Name: Firm: Date/Time:	RELINQUISHED BY: Signature: Printed Name: Firm: Date/Time:	LABORATORY: Total # Containers: Condition of Containers?: Condition of Seals?:	Special Handling Turnaround: <input type="checkbox"/> 8 hour <input type="checkbox"/> 24 hour <input type="checkbox"/> 5 business day <input type="checkbox"/> 10 business day <input type="checkbox"/> other _____ (#) business day
RECEIVED BY: Signature: <u>[Signature]</u> Printed Name: <u>PETER FERRARA</u> Firm: <u>NCA</u> Date/Time: <u>10/24/94 1:50</u>	RECEIVED BY: Signature: Printed Name: Firm: Date/Time:	RECEIVED BY: Signature: Printed Name: Firm: Date/Time:	PURPOSE OF SAMPLING / COMMENTS: WELLPOINT SAMPLES 10-24-94 (MWD) LAB = NORTH CREEK	

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Rob Cousins

Client Project ID: BBP, #11-09738-02
Sample Matrix: Water
Analysis Method: WTPH-D Extended
First Sample #: 410-1409

Sampled: Oct 24, 1994
Received: Oct 24, 1994
Extracted: Oct 26, 1994
Analyzed: Oct 29, 1994
Reported: Oct 31, 1994

TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
410-1409	MW-1 10/23/94	0.34	N.D.	90
410-1410	MW-8	0.89	0.75	82
410-1411	MW-10	2.3	5.9	64
410-1412	MW-11	0.63	0.96	93
410-1413	MW-12	0.53	N.D.	86
410-1414	MW-15	0.61	N.D.	104
410-1415	MW-16	0.44	N.D.	50
BLK102694	Method Blank	N.D.	N.D.	84

Reporting Limit:
0.25
0.75

2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.

Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Please Note:

Sample #410-1411 was received with H2SO4 as a preservative.


Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09738-02
 Sample Matrix: Water
 Analysis Method: WTPH-D
 Units: mg/L (ppm)

Analyst: D. Anderson
 Extracted: Oct 26, 1994
 Analyzed: Oct 28, 1994
 Reported: Oct 31, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

Spike Conc.
 Added: 2.1

Spike
 Result: 1.9

%
 Recovery: 90

Upper Control
 Limit %: 126

Lower Control
 Limit %: 71

PRECISION ASSESSMENT Sample Duplicate

Diesel Range
 Organics

Sample
 Number: 410-1399

Original
 Result: 1.1

Duplicate
 Result: 1.4

Relative % Difference Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Maximum
 RPD: 39

NORTH CREEK ANALYTICAL Inc.

% Recovery: $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$

Relative % Difference: $\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-8 Analysis Method: EPA 8081 Sample Number: 410-1410	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Extracted: Oct 25, 1994 Analyzed: Oct 27-28, 1994 Reported: Oct 31, 1994
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ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 7, S-3
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Please Note:

S-3 = The Surrogate Recovery for this sample is outside of NCA established control limits.

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins


 Client Project ID: BBP, #11-09738-02
 Sample Descript: Water, MW-11
 Analysis Method: EPA 8081
 Sample Number: 410-1412

 Sampled: Oct 24, 1994
 Received: Oct 24, 1994
 Extracted: Oct 25, 1994
 Analyzed: Oct 28, 1994
 Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 57
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: BBP, #11-09738-02
 Sample Descript: Water, MW-12
 Analysis Method: EPA 8081
 Sample Number: 410-1413

 Sampled: Oct 24, 1994
 Received: Oct 24, 1994
 Extracted: Oct 25, 1994
 Analyzed: Oct 28, 1994
 Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 55
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

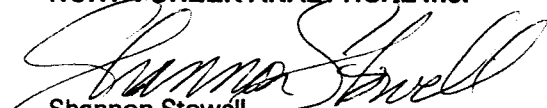
 Client Project ID: BBP, #11-09738-02
 Sample Descript: Water, MW-15
 Analysis Method: EPA 8081
 Sample Number: 410-1414

 Sampled: Oct 24, 1994
 Received: Oct 24, 1994
 Extracted: Oct 25, 1994
 Analyzed: Oct 28, 1994
 Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 56
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins


 Client Project ID: BBP, #11-09738-02
 Sample Descript: Water, MW-16
 Analysis Method: EPA 8081
 Sample Number: 410-1415

 Sampled: Oct 24, 1994
 Received: Oct 24, 1994
 Extracted: Oct 25, 1994
 Analyzed: Oct 27-28, 1994
 Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 49
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Rob Cousins

Client Project ID: BBP, #11-09738-02
Sample Descript: Method Blank
Analysis Method: EPA 8081
Sample Number: BLK102594

Extracted: Oct 25, 1994
Analyzed: Oct 27-28, 1994
Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 80
Surrogate Recovery Control Limits are 33 - 124 %.
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
Project Manager

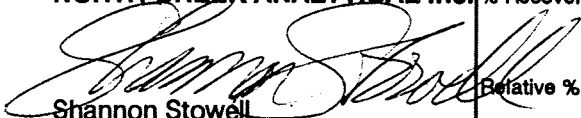
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Matrix: Water Analysis Method: EPA 8080 Units: $\mu\text{g/L}$ (ppb) QC Sample #: BLK102594	Analyst: M. Seibel Extracted: Oct 25, 1994 Analyzed: Oct 27, 1994 Reported: Oct 31, 1994
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BLANK SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Lindane	Heptachlor	Aldrin	Aroclor 1260
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.25	0.25	0.25	6.7
Spike Result:	0.20	0.29	0.22	7.1
Spike % Recovery:	80%	116%	88%	106%
Spike Dup. Result:	0.21	0.31	0.23	7.2
Spike Duplicate % Recovery:	84%	124%	92%	107%
Upper Control Limit %:	151	166	150	135
Lower Control Limit %:	60	25	46	52
Relative % Difference:	4.8%	6.7%	4.4%	1.4%
Maximum RPD:	50	50	50	50

NORTH CREEK ANALYTICAL Inc.

% Recovery:	$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: BBP, #11-09738-02
 Sample Descript: Water, MW-1
 Analysis Method: EPA 8021
 Sample Number: 410-1409

 Sampled: Oct 24, 1994
 Received: Oct 24, 1994
 Analyzed: Oct 29, 1994
 Reported: Oct 31, 1994

VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Benzene.....	1.0	N.D.
Bromobenzene.....	1.0	N.D.
Bromochloromethane.....	1.0	N.D.
Bromodichloromethane.....	1.0	N.D.
Bromoform.....	1.0	N.D.
Bromomethane.....	1.0	N.D.
n-Butylbenzene.....	1.0	N.D.
sec-Butylbenzene.....	1.0	N.D.
tert-Butylbenzene.....	1.0	N.D.
Carbon tetrachloride.....	1.0	N.D.
Chlorobenzene.....	1.0	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	1.0	N.D.
Chloromethane.....	1.0	N.D.
2-Chlorotoluene.....	1.0	N.D.
4-Chlorotoluene.....	1.0	N.D.
Dibromochloromethane.....	1.0	N.D.
1,2-Dibromo-3-chloropropane.....	1.0	N.D.
1,2-Dibromoethane.....	1.0	N.D.
Dibromomethane.....	1.0	N.D.
1,2-Dichlorobenzene.....	1.0	N.D.
1,3-Dichlorobenzene.....	1.0	N.D.
1,4-Dichlorobenzene.....	1.0	N.D.
Dichlorodifluoromethane.....	1.0	N.D.
1,1-Dichloroethane.....	1.0	N.D.
1,2-Dichloroethane.....	1.0	N.D.
1,1-Dichloroethene.....	1.0	N.D.
cis-1,2-Dichloroethene.....	1.0	N.D.
trans-1,2-Dichloroethene.....	1.0	N.D.
1,2-Dichloropropane.....	1.0	N.D.
1,3-Dichloropropane.....	1.0	N.D.
2,2-Dichloropropane.....	1.0	N.D.
1,1-Dichloropropene.....	1.0	N.D.
Ethyl Benzene.....	1.0	N.D.
Hexachlorobutadiene.....	1.0	N.D.
Isopropylbenzene.....	1.0	N.D.
p-Isopropyltoluene.....	1.0	N.D.
Methyl ethyl ketone.....	10	N.D.
Methylene chloride.....	5.0	N.D.

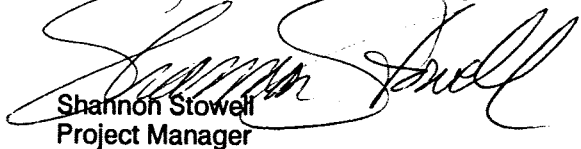
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-1 Analysis Method: EPA 8021 Sample Number: 410-1409	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Naphthalene.....	1.0	N.D.
n-Propylbenzene.....	1.0	N.D.
Styrene.....	1.0	N.D.
1,1,1,2-Tetrachloroethane.....	1.0	N.D.
1,1,2,2-Tetrachloroethane.....	1.0	N.D.
Tetrachloroethene.....	1.0	N.D.
Toluene.....	1.0	N.D.
1,2,3-Trichlorobenzene.....	1.0	N.D.
1,2,4-Trichlorobenzene.....	1.0	N.D.
1,1,1-Trichloroethane.....	1.0	N.D.
1,1,2-Trichloroethane.....	1.0	N.D.
Trichloroethene.....	1.0	N.D.
Trichlorofluoromethane.....	1.0	N.D.
1,2,3-Trichloropropane.....	1.0	N.D.
1,2,4-Trimethylbenzene.....	1.0	N.D.
1,3,5-Trimethylbenzene.....	1.0	N.D.
Vinyl chloride.....	1.0	N.D.
o-Xylene.....	1.0	N.D.
m,p-Xylene.....	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 104; PID: 108
 Surrogate Recovery Control Limits are ELCD: 69 - 135 %; PID: 60 - 145%.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-8 Analysis Method: EPA 8021 Sample Number: 410-1410	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Benzene.....	1.0	N.D.
Bromobenzene.....	1.0	N.D.
Bromochloromethane.....	1.0	N.D.
Bromodichloromethane.....	1.0	N.D.
Bromoform.....	1.0	N.D.
Bromomethane.....	1.0	N.D.
n-Butylbenzene.....	1.0	N.D.
sec-Butylbenzene.....	1.0	N.D.
tert-Butylbenzene.....	1.0	N.D.
Carbon tetrachloride.....	1.0	N.D.
Chlorobenzene.....	1.0	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	1.0	N.D.
Chloromethane.....	1.0	N.D.
2-Chlorotoluene.....	1.0	N.D.
4-Chlorotoluene.....	1.0	N.D.
Dibromochloromethane.....	1.0	N.D.
1,2-Dibromo-3-chloropropane.....	1.0	N.D.
1,2-Dibromoethane.....	1.0	N.D.
Dibromomethane.....	1.0	N.D.
1,2-Dichlorobenzene.....	1.0	N.D.
1,3-Dichlorobenzene.....	1.0	N.D.
1,4-Dichlorobenzene.....	1.0	N.D.
Dichlorodifluoromethane.....	1.0	N.D.
1,1-Dichloroethane.....	1.0	N.D.
1,2-Dichloroethane.....	1.0	N.D.
1,1-Dichloroethene.....	1.0	N.D.
cis-1,2-Dichloroethene.....	1.0	N.D.
trans-1,2-Dichloroethene.....	1.0	N.D.
1,2-Dichloropropane.....	1.0	N.D.
1,3-Dichloropropane.....	1.0	N.D.
2,2-Dichloropropane.....	1.0	N.D.
1,1-Dichloropropene.....	1.0	N.D.
Ethyl Benzene.....	1.0	N.D.
Hexachlorobutadiene.....	1.0	N.D.
Isopropylbenzene.....	1.0	N.D.
p-Isopropyltoluene.....	1.0	N.D.
Methyl ethyl ketone.....	10	N.D.
Methylene chloride.....	5.0	N.D.

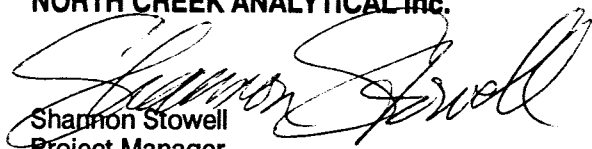
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-8 Analysis Method: EPA 8021 Sample Number: 410-1410	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit μg/L (ppb)	Sample Results μg/L (ppb)
Naphthalene.....	1.0	N.D.
n-Propylbenzene.....	1.0	N.D.
Styrene.....	1.0	N.D.
1,1,1,2-Tetrachloroethane.....	1.0	N.D.
1,1,2,2-Tetrachloroethane.....	1.0	N.D.
Tetrachloroethene.....	1.0	N.D.
Toluene.....	1.0	N.D.
1,2,3-Trichlorobenzene.....	1.0	N.D.
1,2,4-Trichlorobenzene.....	1.0	N.D.
1,1,1-Trichloroethane.....	1.0	N.D.
1,1,2-Trichloroethane.....	1.0	N.D.
Trichloroethene.....	1.0	N.D.
Trichlorofluoromethane.....	1.0	N.D.
1,2,3-Trichloropropane.....	1.0	N.D.
1,2,4-Trimethylbenzene.....	1.0	N.D.
1,3,5-Trimethylbenzene.....	1.0	N.D.
Vinyl chloride.....	1.0	N.D.
o-Xylene.....	1.0	N.D.
m,p-Xylene.....	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 94; PID: 107
 Surrogate Recovery Control Limits are ELCD: 69 - 135 %; PID: 60 - 145%.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Rob Cousins

Client Project ID: BBP, #11-09738-02
Sample Descript: Water, MW-10
Analysis Method: EPA 8021
Sample Number: 410-1411

Sampled: Oct 24, 1994
Received: Oct 24, 1994
Analyzed: Oct 29, 1994
Reported: Oct 31, 1994

VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Benzene.....	1.0	N.D.
Bromobenzene.....	1.0	N.D.
Bromochloromethane.....	1.0	N.D.
Bromodichloromethane.....	1.0	N.D.
Bromoform.....	1.0	N.D.
Bromomethane.....	1.0	N.D.
n-Butylbenzene.....	1.0	N.D.
sec-Butylbenzene.....	1.0	N.D.
tert-Butylbenzene.....	1.0	N.D.
Carbon tetrachloride.....	1.0	N.D.
Chlorobenzene.....	1.0	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	1.0	N.D.
Chloromethane.....	1.0	N.D.
2-Chlorotoluene.....	1.0	N.D.
4-Chlorotoluene.....	1.0	N.D.
Dibromochloromethane.....	1.0	N.D.
1,2-Dibromo-3-chloropropane.....	1.0	N.D.
1,2-Dibromoethane.....	1.0	N.D.
Dibromomethane.....	1.0	N.D.
1,2-Dichlorobenzene.....	1.0	N.D.
1,3-Dichlorobenzene.....	1.0	N.D.
1,4-Dichlorobenzene.....	1.0	N.D.
Dichlorodifluoromethane.....	1.0	N.D.
1,1-Dichloroethane.....	1.0	N.D.
1,2-Dichloroethane.....	1.0	N.D.
1,1-Dichloroethene.....	1.0	N.D.
cis-1,2-Dichloroethene.....	1.0	N.D.
trans-1,2-Dichloroethene.....	1.0	N.D.
1,2-Dichloropropane.....	1.0	N.D.
1,3-Dichloropropane.....	1.0	N.D.
2,2-Dichloropropane.....	1.0	N.D.
1,1-Dichloropropene.....	1.0	N.D.
Ethyl Benzene.....	1.0	N.D.
Hexachlorobutadiene.....	1.0	N.D.
Isopropylbenzene.....	1.0	N.D.
p-Isopropyltoluene.....	1.0	N.D.
Methyl ethyl ketone.....	10	N.D.
Methylene chloride.....	5.0	N.D.

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-10 Analysis Method: EPA 8021 Sample Number: 410-1411	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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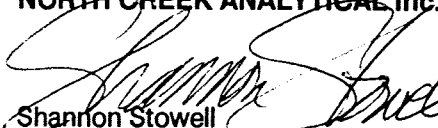
VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Naphthalene.....	1.0	N.D.
n-Propylbenzene.....	1.0	N.D.
Styrene.....	1.0	N.D.
1,1,1,2-Tetrachloroethane.....	1.0	N.D.
1,1,2,2-Tetrachloroethane.....	1.0	N.D.
Tetrachloroethene.....	1.0	N.D.
Toluene.....	1.0	N.D.
1,2,3-Trichlorobenzene.....	1.0	N.D.
1,2,4-Trichlorobenzene.....	1.0	N.D.
1,1,1-Trichloroethane.....	1.0	N.D.
1,1,2-Trichloroethane.....	1.0	N.D.
Trichloroethene.....	1.0	N.D.
Trichlorofluoromethane.....	1.0	N.D.
1,2,3-Trichloropropane.....	1.0	N.D.
1,2,4-Trimethylbenzene.....	1.0	N.D.
1,3,5-Trimethylbenzene.....	1.0	N.D.
Vinyl chloride.....	1.0	N.D.
o-Xylene.....	1.0	N.D.
m,p-Xylene.....	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 110; PID: 108
 Surrogate Recovery Control Limits are ELCD: 69 - 135 %; PID: 60 - 145%.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Please Note:
 This sample was received with a bubble in the VOA.


 Shannon Stowell
 Project Manager

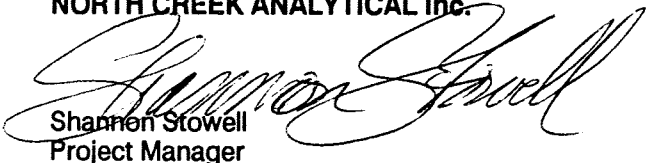
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-11 Analysis Method: EPA 8021 Sample Number: 410-1412	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Naphthalene.....	1.0	N.D.
n-Propylbenzene.....	1.0	N.D.
Styrene.....	1.0	N.D.
1,1,1,2-Tetrachloroethane.....	1.0	N.D.
1,1,2,2-Tetrachloroethane.....	1.0	N.D.
Tetrachloroethene.....	1.0	N.D.
Toluene.....	1.0	N.D.
1,2,3-Trichlorobenzene.....	1.0	N.D.
1,2,4-Trichlorobenzene.....	1.0	N.D.
1,1,1-Trichloroethane.....	1.0	N.D.
1,1,2-Trichloroethane.....	1.0	N.D.
Trichloroethene.....	1.0	N.D.
Trichlorofluoromethane.....	1.0	N.D.
1,2,3-Trichloropropane.....	1.0	N.D.
1,2,4-Trimethylbenzene.....	1.0	N.D.
1,3,5-Trimethylbenzene.....	1.0	N.D.
Vinyl chloride.....	1.0	N.D.
o-Xylene.....	1.0	N.D.
m,p-Xylene.....	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 131; PID: 108
 Surrogate Recovery Control Limits are ELCD: 69 - 135 %; PID: 60 - 145%.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannen Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-12 Analysis Method: EPA 8021 Sample Number: 410-1413	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Benzene.....	1.0	N.D.
Bromobenzene.....	1.0	N.D.
Bromochloromethane.....	1.0	N.D.
Bromodichloromethane.....	1.0	N.D.
Bromoform.....	1.0	N.D.
Bromomethane.....	1.0	N.D.
n-Butylbenzene.....	1.0	N.D.
sec-Butylbenzene.....	1.0	N.D.
tert-Butylbenzene.....	1.0	N.D.
Carbon tetrachloride.....	1.0	N.D.
Chlorobenzene.....	1.0	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	1.0	N.D.
Chloromethane.....	1.0	N.D.
2-Chlorotoluene.....	1.0	N.D.
4-Chlorotoluene.....	1.0	N.D.
Dibromochloromethane.....	1.0	N.D.
1,2-Dibromo-3-chloropropane.....	1.0	N.D.
1,2-Dibromoethane.....	1.0	N.D.
Dibromomethane.....	1.0	N.D.
1,2-Dichlorobenzene.....	1.0	N.D.
1,3-Dichlorobenzene.....	1.0	N.D.
1,4-Dichlorobenzene.....	1.0	N.D.
Dichlorodifluoromethane.....	1.0	N.D.
1,1-Dichloroethane.....	1.0	N.D.
1,2-Dichloroethane.....	1.0	N.D.
1,1-Dichloroethene.....	1.0	N.D.
cis-1,2-Dichloroethene.....	1.0	N.D.
trans-1,2-Dichloroethene.....	1.0	N.D.
1,2-Dichloropropane.....	1.0	N.D.
1,3-Dichloropropane.....	1.0	N.D.
2,2-Dichloropropane.....	1.0	N.D.
1,1-Dichloropropene.....	1.0	N.D.
Ethyl Benzene.....	1.0	N.D.
Hexachlorobutadiene.....	1.0	N.D.
Isopropylbenzene.....	1.0	N.D.
p-Isopropyltoluene.....	1.0	N.D.
Methyl ethyl ketone.....	10	N.D.
Methylene chloride.....	5.0	N.D.


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-12 Analysis Method: EPA 8021 Sample Number: 410-1413	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Naphthalene.....	1.0	N.D.
n-Propylbenzene.....	1.0	N.D.
Styrene.....	1.0	N.D.
1,1,1,2-Tetrachloroethane.....	1.0	N.D.
1,1,2,2-Tetrachloroethane.....	1.0	N.D.
Tetrachloroethene.....	1.0	N.D.
Toluene.....	1.0	N.D.
1,2,3-Trichlorobenzene.....	1.0	N.D.
1,2,4-Trichlorobenzene.....	1.0	N.D.
1,1,1-Trichloroethane.....	1.0	N.D.
1,1,2-Trichloroethane.....	1.0	N.D.
Trichloroethene.....	1.0	N.D.
Trichlorofluoromethane.....	1.0	N.D.
1,2,3-Trichloropropane.....	1.0	N.D.
1,2,4-Trimethylbenzene.....	1.0	N.D.
1,3,5-Trimethylbenzene.....	1.0	N.D.
Vinyl chloride.....	1.0	N.D.
o-Xylene.....	1.0	N.D.
m,p-Xylene.....	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 112; PID: 108
 Surrogate Recovery Control Limits are ELCD: 69 - 135 %; PID: 60 - 145%.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-15 Analysis Method: EPA 8021 Sample Number: 410-1414	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Benzene.....	1.0	N.D.
Bromobenzene.....	1.0	N.D.
Bromochloromethane.....	1.0	N.D.
Bromodichloromethane.....	1.0	N.D.
Bromoform.....	1.0	N.D.
Bromomethane.....	1.0	N.D.
n-Butylbenzene.....	1.0	N.D.
sec-Butylbenzene.....	1.0	N.D.
tert-Butylbenzene.....	1.0	N.D.
Carbon tetrachloride.....	1.0	N.D.
Chlorobenzene.....	1.0	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	1.0	N.D.
Chloromethane.....	1.0	N.D.
2-Chlorotoluene.....	1.0	N.D.
4-Chlorotoluene.....	1.0	N.D.
Dibromochloromethane.....	1.0	N.D.
1,2-Dibromo-3-chloropropane.....	1.0	N.D.
1,2-Dibromoethane.....	1.0	N.D.
Dibromomethane.....	1.0	N.D.
1,2-Dichlorobenzene.....	1.0	N.D.
1,3-Dichlorobenzene.....	1.0	N.D.
1,4-Dichlorobenzene.....	1.0	N.D.
Dichlorodifluoromethane.....	1.0	N.D.
1,1-Dichloroethane.....	1.0	N.D.
1,2-Dichloroethane.....	1.0	N.D.
1,1-Dichloroethene.....	1.0	N.D.
cis-1,2-Dichloroethene.....	1.0	N.D.
trans-1,2-Dichloroethene.....	1.0	N.D.
1,2-Dichloropropane.....	1.0	N.D.
1,3-Dichloropropane.....	1.0	N.D.
2,2-Dichloropropane.....	1.0	N.D.
1,1-Dichloropropene.....	1.0	N.D.
Ethyl Benzene.....	1.0	N.D.
Hexachlorobutadiene.....	1.0	N.D.
Isopropylbenzene.....	1.0	N.D.
p-Isopropyltoluene.....	1.0	N.D.
Methyl ethyl ketone.....	10	N.D.
Methylene chloride.....	5.0	N.D.

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: BBP, #11-09738-02
 Sample Descript: Water, MW-15
 Analysis Method: EPA 8021
 Sample Number: 410-1414

 Sampled: Oct 24, 1994
 Received: Oct 24, 1994
 Analyzed: Oct 29, 1994
 Reported: Oct 31, 1994

VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit μg/L (ppb)	Sample Results μg/L (ppb)
Naphthalene.....	1.0	N.D.
n-Propylbenzene.....	1.0	N.D.
Styrene.....	1.0	N.D.
1,1,1,2-Tetrachloroethane.....	1.0	N.D.
1,1,2,2-Tetrachloroethane.....	1.0	N.D.
Tetrachloroethene.....	1.0	N.D.
Toluene.....	1.0	N.D.
1,2,3-Trichlorobenzene.....	1.0	N.D.
1,2,4-Trichlorobenzene.....	1.0	N.D.
1,1,1-Trichloroethane.....	1.0	N.D.
1,1,2-Trichloroethane.....	1.0	N.D.
Trichloroethene.....	1.0	N.D.
Trichlorofluoromethane.....	1.0	N.D.
1,2,3-Trichloropropane.....	1.0	N.D.
1,2,4-Trimethylbenzene.....	1.0	N.D.
1,3,5-Trimethylbenzene.....	1.0	N.D.
Vinyl chloride.....	1.0	N.D.
o-Xylene.....	1.0	N.D.
m,p-Xylene.....	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 101; PID: 107
 Surrogate Recovery Control Limits are ELCD: 69 - 135 %; PID: 60 - 145%.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-16 Analysis Method: EPA 8021 Sample Number: 410-1415	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Benzene.....	1.0	N.D.
Bromobenzene.....	1.0	N.D.
Bromochloromethane.....	1.0	N.D.
Bromodichloromethane.....	1.0	N.D.
Bromoform.....	1.0	N.D.
Bromomethane.....	1.0	N.D.
n-Butylbenzene.....	1.0	N.D.
sec-Butylbenzene.....	1.0	N.D.
tert-Butylbenzene.....	1.0	N.D.
Carbon tetrachloride.....	1.0	N.D.
Chlorobenzene.....	1.0	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	1.0	N.D.
Chloromethane.....	1.0	N.D.
2-Chlorotoluene.....	1.0	N.D.
4-Chlorotoluene.....	1.0	N.D.
Dibromochloromethane.....	1.0	N.D.
1,2-Dibromo-3-chloropropane.....	1.0	N.D.
1,2-Dibromoethane.....	1.0	N.D.
Dibromomethane.....	1.0	N.D.
1,2-Dichlorobenzene.....	1.0	N.D.
1,3-Dichlorobenzene.....	1.0	N.D.
1,4-Dichlorobenzene.....	1.0	N.D.
Dichlorodifluoromethane.....	1.0	N.D.
1,1-Dichloroethane.....	1.0	N.D.
1,2-Dichloroethane.....	1.0	N.D.
1,1-Dichloroethene.....	1.0	N.D.
cis-1,2-Dichloroethene.....	1.0	N.D.
trans-1,2-Dichloroethene.....	1.0	N.D.
1,2-Dichloropropane.....	1.0	N.D.
1,3-Dichloropropane.....	1.0	N.D.
2,2-Dichloropropane.....	1.0	N.D.
1,1-Dichloropropene.....	1.0	N.D.
Ethyl Benzene.....	1.0	N.D.
Hexachlorobutadiene.....	1.0	N.D.
Isopropylbenzene.....	1.0	N.D.
p-Isopropyltoluene.....	2.5	N.D.
Methyl ethyl ketone.....	10	N.D.
Methylene chloride.....	5.0	N.D.

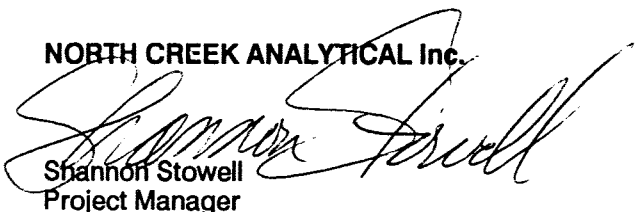
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-16 Analysis Method: EPA 8021 Sample Number: 410-1415	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Naphthalene.....	1.0	N.D.
n-Propylbenzene.....	1.0	N.D.
Styrene.....	1.0	N.D.
1,1,1,2-Tetrachloroethane.....	1.0	N.D.
1,1,2,2-Tetrachloroethane.....	1.0	N.D.
Tetrachloroethene.....	1.0	N.D.
Toluene.....	1.0	N.D.
1,2,3-Trichlorobenzene.....	1.0	N.D.
1,2,4-Trichlorobenzene.....	1.0	N.D.
1,1,1-Trichloroethane.....	1.0	N.D.
1,1,2-Trichloroethane.....	1.0	N.D.
Trichloroethene.....	1.0	N.D.
Trichlorofluoromethane.....	1.0	N.D.
1,2,3-Trichloropropane.....	1.0	N.D.
1,2,4-Trimethylbenzene.....	1.0	N.D.
1,3,5-Trimethylbenzene.....	1.0	N.D.
Vinyl chloride.....	1.0	N.D.
o-Xylene.....	1.0	N.D.
m,p-Xylene.....	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 110; PID: 106
 Surrogate Recovery Control Limits are ELCD: 69 - 135 %; PID: 60 - 145%.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Method Blank Analysis Method: EPA 8021 Sample Number: BLK102994	Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Benzene.....	1.0	N.D.
Bromobenzene.....	1.0	N.D.
Bromochloromethane.....	1.0	N.D.
Bromodichloromethane.....	1.0	N.D.
Bromoform.....	1.0	N.D.
Bromomethane.....	1.0	N.D.
n-Butylbenzene.....	1.0	N.D.
sec-Butylbenzene.....	1.0	N.D.
tert-Butylbenzene.....	1.0	N.D.
Carbon tetrachloride.....	1.0	N.D.
Chlorobenzene.....	1.0	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	1.0	N.D.
Chloromethane.....	1.0	N.D.
2-Chlorotoluene.....	1.0	N.D.
4-Chlorotoluene.....	1.0	N.D.
Dibromochloromethane.....	1.0	N.D.
1,2-Dibromo-3-chloropropane.....	1.0	N.D.
1,2-Dibromoethane.....	1.0	N.D.
Dibromomethane.....	1.0	N.D.
1,2-Dichlorobenzene.....	1.0	N.D.
1,3-Dichlorobenzene.....	1.0	N.D.
1,4-Dichlorobenzene.....	1.0	N.D.
Dichlorodifluoromethane.....	1.0	N.D.
1,1-Dichloroethane.....	1.0	N.D.
1,2-Dichloroethane.....	1.0	N.D.
1,1-Dichloroethene.....	1.0	N.D.
cis-1,2-Dichloroethene.....	1.0	N.D.
trans-1,2-Dichloroethene.....	1.0	N.D.
1,2-Dichloropropane.....	1.0	N.D.
1,3-Dichloropropane.....	1.0	N.D.
2,2-Dichloropropane.....	1.0	N.D.
1,1-Dichloropropene.....	1.0	N.D.
Ethyl Benzene.....	1.0	N.D.
Hexachlorobutadiene.....	1.0	N.D.
Isopropylbenzene.....	1.0	N.D.
p-Isopropyltoluene.....	1.0	N.D.
Methyl ethyl ketone.....	10	N.D.
Methylene chloride.....	5.0	N.D.


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Method Blank Analysis Method: EPA 8021 Sample Number: BLK102994	Analyzed: Oct 29, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Naphthalene.....	1.0	N.D.
n-Propylbenzene.....	1.0	N.D.
Styrene.....	1.0	N.D.
1,1,1,2-Tetrachloroethane.....	1.0	N.D.
1,1,2,2-Tetrachloroethane.....	1.0	N.D.
Tetrachloroethene.....	1.0	N.D.
Toluene.....	1.0	N.D.
1,2,3-Trichlorobenzene.....	1.0	N.D.
1,2,4-Trichlorobenzene.....	1.0	N.D.
1,1,1-Trichloroethane.....	1.0	N.D.
1,1,2-Trichloroethane.....	1.0	N.D.
Trichloroethene.....	1.0	N.D.
Trichlorofluoromethane.....	1.0	N.D.
1,2,3-Trichloropropane.....	1.0	N.D.
1,2,4-Trimethylbenzene.....	1.0	N.D.
1,3,5-Trimethylbenzene.....	1.0	N.D.
Vinyl chloride.....	1.0	N.D.
o-Xylene.....	1.0	N.D.
m,p-Xylene.....	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: 103; PID: 108
Surrogate Recovery Control Limits are ELCD: 69 - 135 %; PID: 60 - 145%.
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager


AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-8 Analysis Method: EPA 8310 Sample Number: 410-1410	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 27, 1994 Reported: Oct 31, 1994
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POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 80
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: BBP, #11-09738-02
 Sample Descript: Water, MW-11
 Analysis Method: EPA 8310
 Sample Number: 410-1412

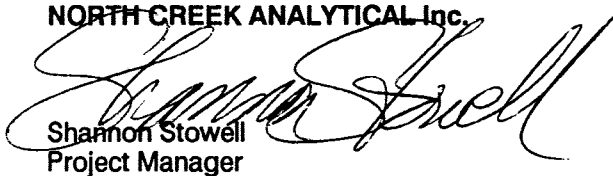
 Sampled: Oct 24, 1994
 Received: Oct 24, 1994
 Extracted: Oct 24, 1994
 Analyzed: Oct 27, 1994
 Reported: Oct 31, 1994

POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 71
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

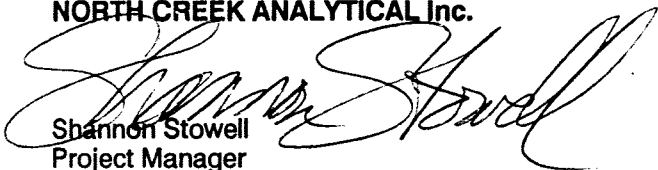
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-12 Analysis Method: EPA 8310 Sample Number: 410-1413	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 27, 1994 Reported: Oct 31, 1994
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POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 81
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

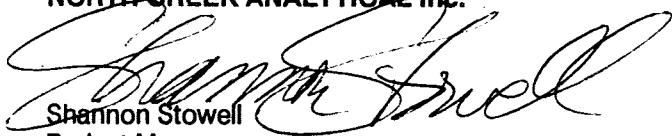
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-15 Analysis Method: EPA 8310 Sample Number: 410-1414	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 26, 1994 Reported: Oct 31, 1994
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POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 65
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

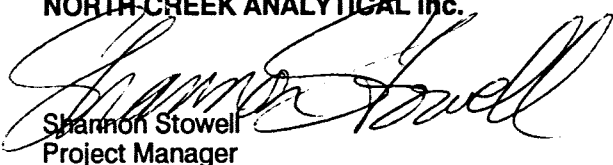
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09738-02 Sample Descript: Water, MW-16 Analysis Method: EPA 8310 Sample Number: 410-1415	Sampled: Oct 24, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 27, 1994 Reported: Oct 31, 1994
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POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 62
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: **BBP, #11-09738-02**
 Sample Descript: **Method Blank**
 Analysis Method: **EPA 8310**
 Sample Number: **BLK102494**

 Extracted: **Oct 24, 1994**
 Analyzed: **Oct 26, 1994**
 Reported: **Oct 31, 1994**
POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit μg/L (ppb)	Sample Results μg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 70
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: **BBP, #11-09738-02**
 Sample Matrix: **Water**
 Analysis Method: **EPA 8310**
 Units: **µg/L (ppb)**
 QC Sample #: **BLK102494**

 Analyst: **S. Kouri**
 Extracted: **Oct 24, 1994**
 Analyzed: **Oct 26, 1994**
 Reported: **Oct 31, 1994**

BLANK SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Fluorene	Indeno(1,2,3-cd) pyrene	Chrysene
	Sample Result:	N.D.	N.D.
Spike Conc. Added:	10	1.0	1.0
Spike Result:	11	0.87	1.0
Spike % Recovery:	110%	87%	100%
Spike Dup. Result:	9.7	0.88	1.1
Spike Duplicate % Recovery:	97%	88%	110%
Upper Control Limit %:	116	121	124
Lower Control Limit %:	42	54	62
Relative % Difference:	13%	1%	9%
Maximum RPD:	30	39	32

NORTH CREEK ANALYTICAL Inc.

% Recovery:

$$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$$

x 100

Relative % Difference:

$$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$$

x 100


 Shannon Stowell
 Project Manager

RZA AGRA, Inc.

Engineering & Environmental Services
 11335 N.E. 122nd Way, Suite 100
 Kirkland, Washington 98034
 (206) 820-4669 FAX (206) 821-3914

12604

(BBP)

Chain of Custody Record / Analysis Request

Analysis Requested: (circle, check box or write preferred method in box)

Project Name: BELLEFIELD BUS. PARK Job No.: 11-09378-02
 Project Manager: ROB COUSINS Phone #: 820-4669
 Sampler: ROB COUSINS

RZA AGRA, Inc. Sample ID	Lab Samp ID	Date Collected	Time Collected	# Containers/Preservation						CHILL	BTEX by EPA 8020 Soil / EPA 602 Water	WTPH-G	BTEX / WTPH-G	WTPH-HCID	WTPH-DX SILICA GEL TREATMENT	TPH by EPA 8015 Mod.	WTPH-418.1 Modified	TPH by EPA 418.1	LEAD EPA 6010 7420 7421 Soil Total / Dissolved EPA 7421 Water	TOTAL METALS	TCLP EPA 1311	PCBs EPA 8080 Soil EPA 608 Water	VOCs EPA 8010 8020 Soil EPA 601 602 Water	GC/MS EPA 8240 Volatiles	GC/MS EPA 8310 Semi-volatiles	EPA 8021	DESTIC-DE-3/RED EPA 8081	Hold for Further Analysis	RUSH (see below)					
				Matrix (S=soil, W=water, A=air)	40 ml VOA /	1 L Glass /	8 oz Glass /	1 L GLASS SW/URK	1 POLY/NITRIL																									
MW-1		10-23	5:25	2	3	1	1																											
MW-2		10-23	10:45	2	3	1	1						X											X	X	X	X	X	X	X	X	X	X	
MW-3			12:00										X										X	X	X	X	X	X	X	X	X	X	X	
MW-4			3:15										X										X	X	X	X	X	X	X	X	X	X	X	
MW-5			2:30										X										X	X	X	X	X	X	X	X	X	X	X	
MW-6			1:45										X										X	X	X	X	X	X	X	X	X	X	X	
MW-7			11:15										X										X	X	X	X	X	X	X	X	X	X	X	
MW-14			4:00										X										X	X	X	X	X	X	X	X	X	X	X	
MW-13			4:50										X										X	X	X	X	X	X	X	X	X	X	X	
MW-9			5:55										X										X	X	X	X	X	X	X	X	X	X	X	
RINSE BLANK 2"		10-20	10:30										X										X	X	X	X	X	X	X	X	X	X	X	
RINSE BLANK 1.25"		10-20	10:30										X										X	X	X	X	X	X	X	X	X	X	X	X

RELINQUISHED BY SAMPLER: Signature: <u>[Signature]</u> Printed Name: <u>ROBERT COUSINS</u> Firm: <u>AGRA</u> Date/Time:	RELINQUISHED BY: Signature: Printed Name: Firm: Date/Time:	RELINQUISHED BY: Signature: Printed Name: Firm: Date/Time:	LABORATORY: Total # Containers: Condition of Containers? Condition of Seals?	Special Handling Turnaround: <input type="checkbox"/> 8 hour <input type="checkbox"/> 24 hour <input checked="" type="checkbox"/> 5 business day <input type="checkbox"/> 10 business day <input type="checkbox"/> other _____ (#)business day
RECEIVED BY: Signature: <u>[Signature]</u> Printed Name: <u>Shannon Stowell</u> Firm: <u>NCA</u> Date/Time: <u>10/24/04 12:15</u>	RECEIVED BY: Signature: Printed Name: Firm: Date/Time:	RECEIVED BY: Signature: Printed Name: Firm: Date/Time:	PURPOSE OF SAMPLING / COMMENTS: WELLPOINT SAMPLES LAB: NORTHCREEK	

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Water Analysis Method: WTPH-D Extended First Sample #: 410-1398	Sampled: Oct 23, 1994 Received: Oct 24, 1994 Extracted: Oct 26, 1994 Analyzed: Oct 28, 1994 Reported: Oct 31, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
410-1398	MW-2	4.0	16	78
410-1399	MW-3	1.1	1.7	83
410-1400	MW-4	0.37	N.D.	96
410-1401	MW-5	0.27	N.D.	94
410-1402	MW-6	2.1	4.8	71
410-1403	MW-7	1.7	4.2	89
410-1404	MW-14	0.94	1.3	87
410-1405	MW-13	0.74	N.D.	92
410-1406	MW-9	0.76	0.77	81
410-1407	RINSE BLANK 2* 10/20/94	4.1	8.8	84

Reporting Limit:	0.25	0.75
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2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.
 Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Please Note:
 Reporting Limit for #410-1407 Diesel Result = 2.5 mg/L (ppm).
 Reporting Limit for #410-1407 Heavy Oil Result = 7.5 mg/L (ppm).

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: BBP, #11-09378-02
 Sample Matrix: Water
 Analysis Method: WTPH-D Extended
 First Sample #: 410-1408

 Sampled: Oct 20, 1994
 Received: Oct 24, 1994
 Extracted: Oct 26, 1994
 Analyzed: Oct 29, 1994
 Reported: Oct 31, 1994

TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
410-1408	RINSE BLANK 1.25"	N.D.	N.D.	97
BLK102694	Method Blank	N.D.	N.D.	84

Reporting Limit:	0.25	0.75
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2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.
 Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Please Note:
 Reporting Limit for #410-1408 Diesel Result = 2.5 mg/L (ppm).
 Reporting Limit for #410-1408 Heavy Oil Result = 7.5 mg/L (ppm).


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Matrix: Water
 Analysis Method: WTPH-D
 Units: mg/L (ppm)

Analyst: D. Anderson
 Extracted: Oct 26, 1994
 Analyzed: Oct 28, 1994
 Reported: Oct 31, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

PRECISION ASSESSMENT Sample Duplicate

Diesel

Diesel Range Organics	Diesel Range Organics
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**Spike Conc.
 Added:** 2.1

Sample Number:	410-1398	410-1399
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Spike Result: 1.9

Original Result:	4.0	1.1
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% Recovery: 90

Duplicate Result:	6.1	1.4
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Upper Control Limit %: 126


Relative % Difference	42	Q-5
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Lower Control Limit %: 71

Maximum RPD:	39	39
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Q-5 = RPD values are not reported at sample concentration levels < 10 X the Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
 Project Manager

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$	
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$	

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Descript: Water, MW-2
 Analysis Method: EPA 8081
 Sample Number: 410-1398

Sampled: Oct 23, 1994
 Received: Oct 24, 1994
 Extracted: Oct 25, 1994
 Analyzed: Oct 27-29, 1994
 Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	0.34
4,4'-DDE.....	0.030	0.043
4,4'-DDT.....	0.090	0.12
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	1.5
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	1.7
PCB-1260.....	0.10	0.42

Tetrachloro-m-xylene Surrogate Recovery, %: 73
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc


 Shannon Stowell
 Project Manager

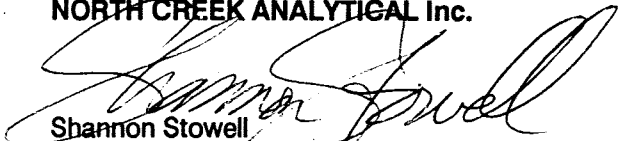
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Descript: Water, MW-3 Analysis Method: EPA 8081 Sample Number: 410-1399	Sampled: Oct 23, 1994 Received: Oct 24, 1994 Extracted: Oct 25, 1994 Analyzed: Oct 27-28, 1994 Reported: Oct 31, 1994
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ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 59
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins


 Client Project ID: BBP, #11-09378-02
 Sample Descript: Water, MW-4
 Analysis Method: EPA 8081
 Sample Number: 410-1400

 Sampled: Oct 23, 1994
 Received: Oct 24, 1994
 Extracted: Oct 25, 1994
 Analyzed: Oct 27, 1994
 Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor expoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 61
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

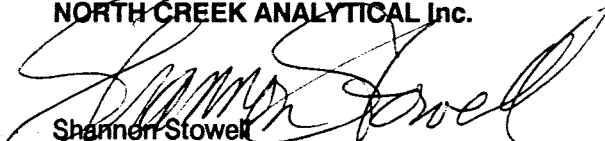
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Descript: Water, MW-5 Analysis Method: EPA 8081 Sample Number: 410-1401	Sampled: Oct 23, 1994 Received: Oct 24, 1994 Extracted: Oct 25, 1994 Analyzed: Oct 27, 1994 Reported: Oct 31, 1994
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ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 60
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-9508 (206) 481-9200 • FAX 485-2992
 East 11115 Montgomery, Suite B • Spokane, WA 99206-4776 (509) 924-9200 • FAX 924-9290
 9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Descript: Water, MW-6
 Analysis Method: EPA 8081
 Sample Number: 410-1402

Sampled: Oct 23, 1994
 Received: Oct 24, 1994
 Extracted: Oct 25, 1994
 Analyzed: Oct 27-28, 1994
 Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	0.042
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	0.16
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 55
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Project Manager

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
Sample Descript: Water, MW-7
Analysis Method: EPA 8081
Sample Number: 410-1403

Sampled: Oct 23, 1994
Received: Oct 24, 1994
Extracted: Oct 25, 1994
Analyzed: Oct 27-28, 1994
Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor expoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 68
Surrogate Recovery Control Limits are 33 - 124 %.
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc

Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Descript: Water, MW-14
 Analysis Method: EPA 8081
 Sample Number: 410-1404

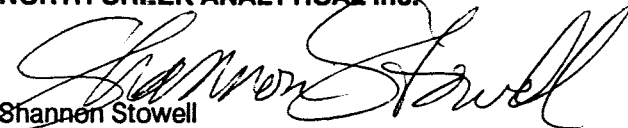
Sampled: Oct 23, 1994
 Received: Oct 24, 1994
 Extracted: Oct 25, 1994
 Analyzed: Oct 27-28, 1994
 Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 63
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

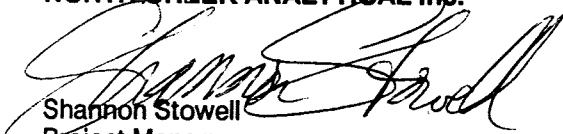
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Descript: Water, MW-13 Analysis Method: EPA 8081 Sample Number: 410-1405	Sampled: Oct 23, 1994 Received: Oct 24, 1994 Extracted: Oct 25, 1994 Analyzed: Oct 27-28, 1994 Reported: Oct 31, 1994
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ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 54
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Rob Cousins

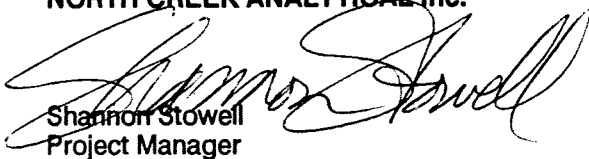
Client Project ID: BBP, #11-09378-02
Sample Descript: Water, MW-9
Analysis Method: EPA 8081
Sample Number: 410-1406

Sampled: Oct 23, 1994
Received: Oct 24, 1994
Extracted: Oct 25, 1994
Analyzed: Oct 27-28, 1994
Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 57
Surrogate Recovery Control Limits are 33 - 124 %.
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: BBP, #11-09378-02
 Sample Descript: Method Blank
 Analysis Method: EPA 8081
 Sample Number: BLK102594


 Extracted: Oct 25, 1994
 Analyzed: Oct 27, 1994
 Reported: Oct 31, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.10	N.D.
PCB-1221.....	0.10	N.D.
PCB-1232.....	0.10	N.D.
PCB-1242.....	0.10	N.D.
PCB-1248.....	0.10	N.D.
PCB-1254.....	0.10	N.D.
PCB-1260.....	0.10	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 80
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Water Analysis Method: EPA 8080 Units: µg/L (ppb) QC Sample #: BLK102594	Analyst: M. Seibel Extracted: Oct 25, 1994 Analyzed: Oct 27, 1994 Reported: Oct 31, 1994
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BLANK SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Lindane	Heptachlor	Aldrin	Aroclor 1260
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.25	0.25	0.25	6.7
Spike Result:	0.20	0.29	0.22	7.1
Spike % Recovery:	80%	116%	88%	106%
Spike Dup. Result:	0.21	0.31	0.23	7.2
Spike Duplicate % Recovery:	84%	124%	92%	107%
Upper Control Limit %:	151	166	150	135
Lower Control Limit %:	60	25	46	52
Relative % Difference:	4.8%	6.7%	4.4%	1.4%
Maximum RPD:	50	50	50	50

NORTH CREEK ANALYTICAL Inc. $\% \text{ Recovery} = \frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$

Shannon Stowell
 Shannon Stowell
 Project Manager $\text{Relative } \% \text{ Difference} = \frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Descript: Method Blank Analysis Method: EPA 8021 Sample Number: BLK102894	Analyzed: Oct 28, 1994 Reported: Oct 31, 1994
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VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Benzene.....	1.0	N.D.
Bromobenzene.....	1.0	N.D.
Bromochloromethane.....	1.0	N.D.
Bromodichloromethane.....	1.0	N.D.
Bromoform.....	1.0	N.D.
Bromomethane.....	1.0	N.D.
n-Butylbenzene.....	1.0	N.D.
sec-Butylbenzene.....	1.0	N.D.
tert-Butylbenzene.....	1.0	N.D.
Carbon tetrachloride.....	1.0	N.D.
Chlorobenzene.....	1.0	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	1.0	N.D.
Chloromethane.....	1.0	N.D.
2-Chlorotoluene.....	1.0	N.D.
4-Chlorotoluene.....	1.0	N.D.
Dibromochloromethane.....	1.0	N.D.
1,2-Dibromo-3-chloropropane.....	1.0	N.D.
1,2-Dibromoethane.....	1.0	N.D.
Dibromomethane.....	1.0	N.D.
1,2-Dichlorobenzene.....	1.0	N.D.
1,3-Dichlorobenzene.....	1.0	N.D.
1,4-Dichlorobenzene.....	1.0	N.D.
Dichlorodifluoromethane.....	1.0	N.D.
1,1-Dichloroethane.....	1.0	N.D.
1,2-Dichloroethane.....	1.0	N.D.
1,1-Dichloroethene.....	1.0	N.D.
cis-1,2-Dichloroethene.....	1.0	N.D.
trans-1,2-Dichloroethene.....	1.0	N.D.
1,2-Dichloropropane.....	1.0	N.D.
1,3-Dichloropropane.....	1.0	N.D.
2,2-Dichloropropane.....	1.0	N.D.
1,1-Dichloropropene.....	1.0	N.D.
Ethyl Benzene.....	1.0	N.D.
Hexachlorobutadiene.....	1.0	N.D.
Isopropylbenzene.....	1.0	N.D.
p-Isopropyltoluene.....	1.0	N.D.
Methyl ethyl ketone.....	10	N.D.
Methylene chloride.....	5.0	N.D.


AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: **BBP, #11-09378-02**
 Sample Descript: **Method Blank**
 Analysis Method: **EPA 8021**
 Sample Number: **BLK102894**

 Analyzed: **Oct 28, 1994**
 Reported: **Oct 31, 1994**
VOLATILE ORGANIC COMPOUNDS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Naphthalene.....	1.0	N.D.
n-Propylbenzene.....	1.0	N.D.
Styrene.....	1.0	N.D.
1,1,1,2-Tetrachloroethane.....	1.0	N.D.
1,1,2,2-Tetrachloroethane.....	1.0	N.D.
Tetrachloroethene.....	1.0	N.D.
Toluene.....	1.0	N.D.
1,2,3-Trichlorobenzene.....	1.0	N.D.
1,2,4-Trichlorobenzene.....	1.0	N.D.
1,1,1-Trichloroethane.....	1.0	N.D.
1,1,2-Trichloroethane.....	1.0	N.D.
Trichloroethene.....	1.0	N.D.
Trichlorofluoromethane.....	1.0	N.D.
1,2,3-Trichloropropane.....	1.0	N.D.
1,2,4-Trimethylbenzene.....	1.0	N.D.
1,3,5-Trimethylbenzene.....	1.0	N.D.
Vinyl chloride.....	1.0	N.D.
o-Xylene.....	1.0	N.D.
m,p-Xylene.....	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: ELCD: ; PID:
 Surrogate Recovery Control Limits are ELCD: 69 - 135 %; PID: 60 - 145%.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Descript: Water, MW-2
 Analysis Method: EPA 8310
 Sample Number: 410-1398

Sampled: Oct 23, 1994
 Received: Oct 24, 1994
 Extracted: Oct 24, 1994
 Analyzed: Oct 26, 1994
 Reported: Oct 31, 1994

POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	2.1
Benzo (k) fluoranthene.....	0.10	0.98
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	7.7
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	5.0	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	9.3

**PRELIMINARY
VALUES**

*confirming
by
GC/MS
SJS 10/31/94*

2-Fluorobiphenyl Surrogate Recovery, %: 77
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: BBP, #11-09378-02
 Sample Descript: Water, MW-3
 Analysis Method: EPA 8310
 Sample Number: 410-1399

 Sampled: Oct 23, 1994
 Received: Oct 24, 1994
 Extracted: Oct 24, 1994
 Analyzed: Oct 26, 1994
 Reported: Oct 31, 1994

POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	1.8
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	1.8

PRELIMINARY VALUES

*confirming by
GC/MS
SJB 10/31/94*

2-Fluorobiphenyl Surrogate Recovery, %: 78
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

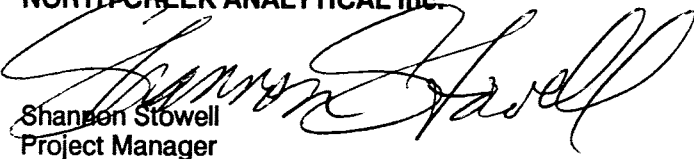
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Descript: Water, MW-4 Analysis Method: EPA 8310 Sample Number: 410-1400	Sampled: Oct 23, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 26, 1994 Reported: Oct 31, 1994
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POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 77
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

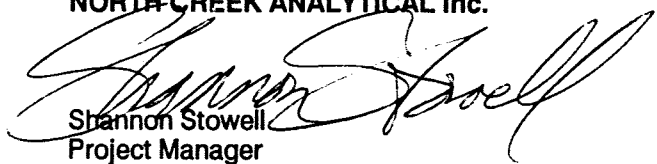
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Descript: Water, MW-5 Analysis Method: EPA 8310 Sample Number: 410-1401	Sampled: Oct 23, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 26, 1994 Reported: Oct 31, 1994
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POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 75
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Descript: Water, MW-6 Analysis Method: EPA 8310 Sample Number: 410-1402	Sampled: Oct 23, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 27, 1994 Reported: Oct 31, 1994
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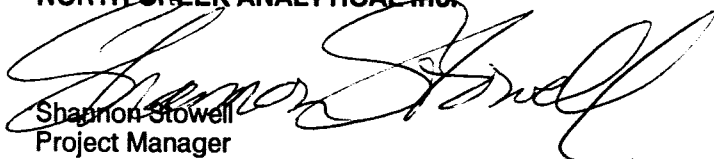
POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	18	N.D.
Acenaphthylene.....	18	N.D.
Anthracene.....	18	N.D.
Benzo (a) anthracene.....	0.35	N.D.
Benzo (a) pyrene.....	0.35	N.D.
Benzo (b) fluoranthene.....	0.35	N.D.
Benzo (ghi) perylene.....	0.35	N.D.
Benzo (k) fluoranthene.....	0.35	N.D.
Chrysene.....	0.35	N.D.
Dibenzo (a,h) anthracene.....	0.35	N.D.
Fluoranthene.....	0.35	N.D.
Fluorene.....	18	N.D.
Indeno (1,2,3-cd) pyrene.....	0.35	N.D.
Naphthalene.....	18	N.D.
Phenanthrene.....	18	N.D.
Pyrene.....	18	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 93
 Surrogate Recovery Control Limits are 33 - 115 %.

Analytes reported as N.D. were not detected above the stated Reporting Limit. Because matrix effects and/or other factors required additional sample dilution, reporting limits for this sample have been raised.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Descript: Water, MW-7 Analysis Method: EPA 8310 Sample Number: 410-1403	Sampled: Oct 23, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 26, 1994 Reported: Oct 31, 1994
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POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 61
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

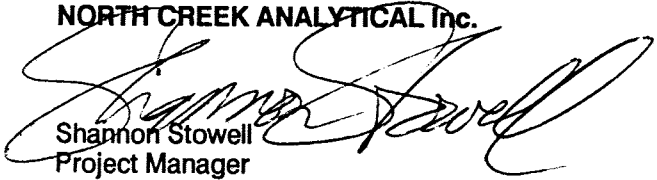
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Descript: Water, MW-14 Analysis Method: EPA 8310 Sample Number: 410-1404	Sampled: Oct 23, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 26, 1994 Reported: Oct 31, 1994
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POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 78
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Descript: Water, MW-13
 Analysis Method: EPA 8310
 Sample Number: 410-1405

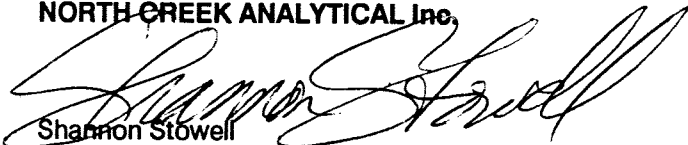
Sampled: Oct 23, 1994
 Received: Oct 24, 1994
 Extracted: Oct 24, 1994
 Analyzed: Oct 26, 1994
 Reported: Oct 31, 1994

POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 71
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Descript: Water, MW-9
 Analysis Method: EPA 8310
 Sample Number: 410-1406

Sampled: Oct 23, 1994
 Received: Oct 24, 1994
 Extracted: Oct 24, 1994
 Analyzed: Oct 26, 1994
 Reported: Oct 31, 1994

POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit μg/L (ppb)	Sample Results μg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 80
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Descript: Method Blank
 Analysis Method: EPA 8310
 Sample Number: BLK102494

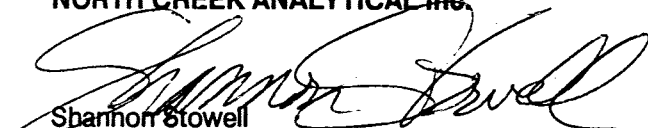
Extracted: Oct 24, 1994
 Analyzed: Oct 26, 1994
 Reported: Oct 31, 1994

POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 70
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: **BBP, #11-09378-02**
 Sample Matrix: **Water**
 Analysis Method: **EPA 8310**
 Units: **µg/L (ppb)**
 QC Sample #: **BLK102494**

 Analyst: **S. Kouri**
 Extracted: **Oct 24, 1994**
 Analyzed: **Oct 26, 1994**
 Reported: **Oct 31, 1994**

BLANK SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Indeno(1,2,3-cd) pyrene		
	Fluorene	pyrene	Chrysene
Sample Result:	N.D.	N.D.	N.D.
Spike Conc. Added:	10	1.0	1.0
Spike Result:	11	0.87	1.0
Spike % Recovery:	110%	87%	100%
Spike Dup. Result:	9.7	0.88	1.1
Spike Duplicate % Recovery:	97%	88%	110%
Upper Control Limit %:	116	121	124
Lower Control Limit %:	42	54	62
Relative % Difference:	13%	1%	9%
Maximum RPD:	30	39	32

NORTH CREEK ANALYTICAL Inc.

% Recovery:

$$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$$

x 100

Relative % Difference:

$$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$$

x 100


 Shannon Stowell
 Project Manager

RZA AGRA, Inc.

Engineering & Environmental Services
 1335 N.E. 122nd Way, Suite 100
 Kirkland, Washington 98034
 (206) 820-4669 FAX (206) 821-3914

12605

Chain of Custody Record / Analysis Request

Analysis Requested: (circle, check box or write preferred method in box)

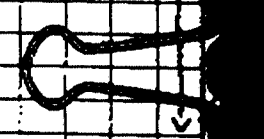
Project Name: BELLEFIELD BUS PARK Job No.: 11-09378-02
 Project Manager: ROB COUSINS Phone #: 820-4669
 Sampler: ROB COUSINS/ERIC SMITH

RZA AGRA, Inc. Sample ID	Lab Samp ID	Date Collected	Time Collected	# Containers/Preservation				CHILL	BTEX by EPA 8020 Sol / EPA 802 Water	WTPH-G	WTPH-ACID	WTPH-DX SILICA-GEL TPH by EPA 8015 Mod.	WTPH-L18.1 Modified	TPH by EPA 418.1	LEAD EPA 8010 TOXN / Dissolved EPA 7421 Water	TOTAL METALS	TCUP EPA 1311	PCBS EPA 8080 Sol EPA 808 Water	VOCs EPA 8010 EPA 801 802 Water	GC/MS EPA 8240 Volatiles	GC/MS EPA 8270 Semi-volatiles	Hold for Further Analysis	RUSH (see below)	
				Matrix (S=soil, W=water, A=air)	40 ml VOC/	1 L Glass /	8 oz Glass /																	
SS-1/WP-12	4101388	10/21		S																				
SS-2/WP-14	1389			S/W																				
SS-3/WP-6	1390			S																				
SS-4/WP-10	1391			S																				
SS-5/WP-15	1392			S																				
SS-6	1393			S																				
SS-7	1394			S																				
SS-8	1395			S																				
SS-9	1396			S																				
SEDS. UPSTREAM (MUD)	1397			S/W																				

Next w/ site

CR

*Relog
SS
11/2*



RELINQUISHED BY SAMPLER: Signature: <i>Robert Cousins</i> Printed Name: ROBERT COUSINS Firm: AGR Date/Time:	RELINQUISHED BY: Signature: Printed Name: Firm: Date/Time:	RELINQUISHED BY: Signature: Printed Name: Firm: Date/Time:	LABORATORY: Total # Containers: Condition of Containers? Condition of Seals?	Special Handling Turnaround: <input type="checkbox"/> 8 hour <input checked="" type="checkbox"/> 2 day <input type="checkbox"/> 5 business day <input type="checkbox"/> 10 business day <input type="checkbox"/> other () business day
RECEIVED BY: Signature: <i>Dana Heinz</i> Printed Name: DANA HEINZ Firm: NCA RELOG Date/Time: 10/21/94 12:15	RECEIVED BY: Signature: Printed Name: Firm: Date/Time: 11/2/94 11:00am	RECEIVED BY: Signature: Printed Name: Firm: Date/Time:	PURPOSE OF SAMPLING / COMMENTS: - SOIL SAMPLES NEAR WELLPONTS AND 4 PERIMETER SAMPLES - MERCER SLOUGH BOTTOM SEDS MUD RUSH SEDS, UPSTREAM 1 DAY TURBIDITY UTB - NORTH CREEK	

NORTH CREEK
 206 483 2392
 11-04-94
 11:00
 11:00



18930 170th Avenue N.E., Suite 101 • Rothcll, WA 98011-9508 (206) 481 9200 • FAX 485 2992
 East 11115 Montgomery, Suite B • Spokane, WA 99206-4776 (509) 924-9200 • FAX 924-9290
 9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644 2202

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Soil Analysis Method: 8015 Modified First Sample #: 410-1391	Sampled: Oct 21, 1994 Relogged: Nov 2, 1994 Analyzed: Nov 4, 1994 Reported: Nov 4, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Before Silica Gel Result mg/kg (ppm)	After Silica Gel Result mg/kg (ppm)	Percent Difference %
410-1391	SS-4/WP-10	81	91	12
410-1392	SS-5/WP-15	680	650	5



NORTH CREEK ANALYTICAL Inc.

Please Note:
 Results are approximate & qualitative and should only be used for comparison.
 Please see chromatograms for more information.

Shannon Stowell
 Shannon Stowell
 Project Manager



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-9508 (206) 481-9200 • FAX 485 2992
 East 11115 Montgomery, Suite B • Spokane, WA 99206-4770 (509) 924 9200 • FAX 924-9790
 9105 S.W. Nimbus Avenue • Beaverton, OH 97008-7132 (503) 643-8200 • FAX 644-2202

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-08378-02 Sample Matrix: Water Analysis Method: 8015 Modified First Sample #: 410-1410	Sampled: Oct 24, 1994 Relogged: Nov 2, 1994 Analyzed: Nov 4, 1994 Reported: Nov 4, 1994
--	--	--

TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Before Silica Gel Result mg/kg (ppm)	After Silica Gel Result mg/kg (ppm)	Percent Difference %
410-1410	MW-8	0.91	0.22, F-1	122
410-1412	MW-11	0.63	0.25, F-1	86

NORTH CREEK ANALYTICAL Inc.

Please Note:

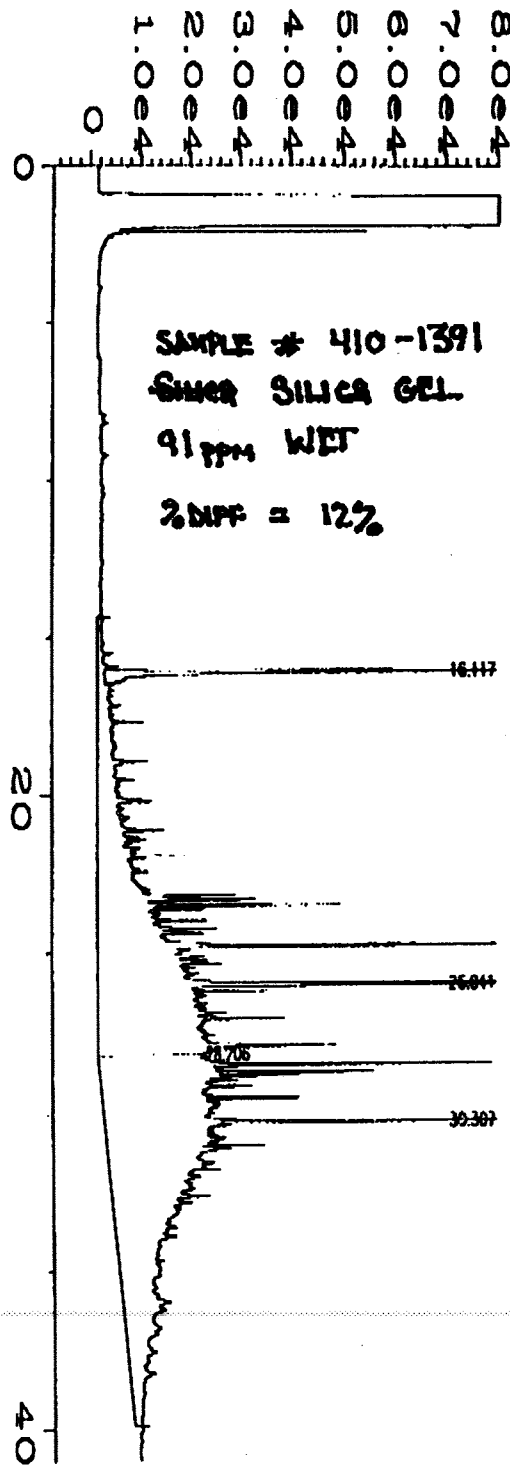
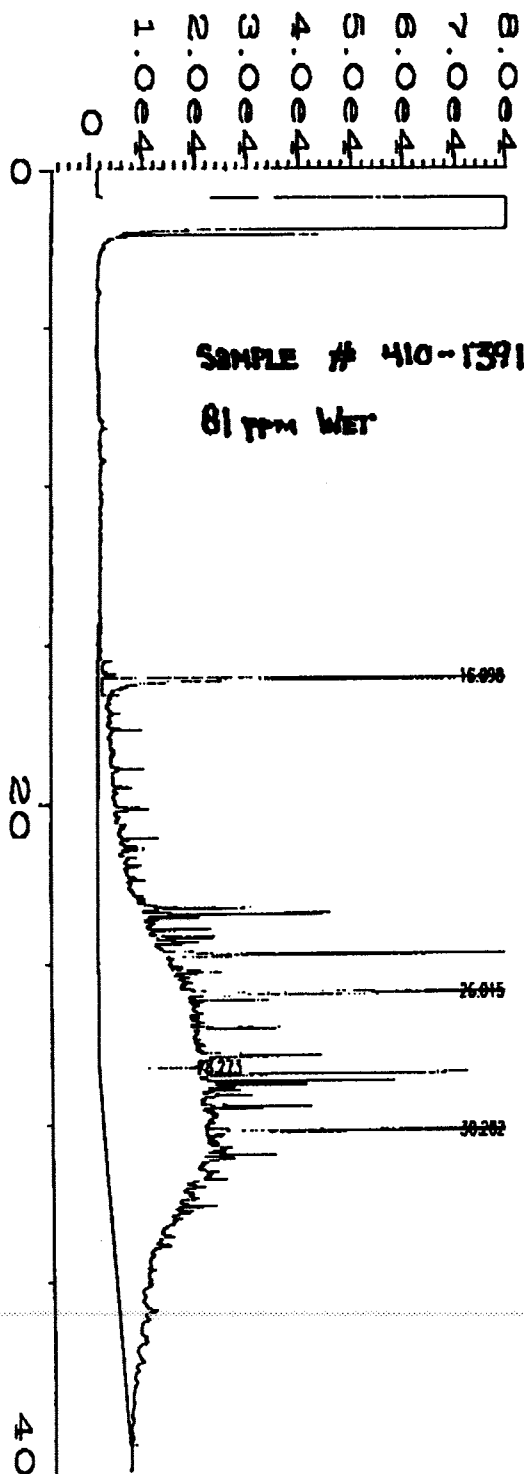
F-1 = This result is below reporting limit and is only reported for comparative purposes.

Results are approximate & qualitative and should only be used for comparison.

Please see chromatograms for more information.

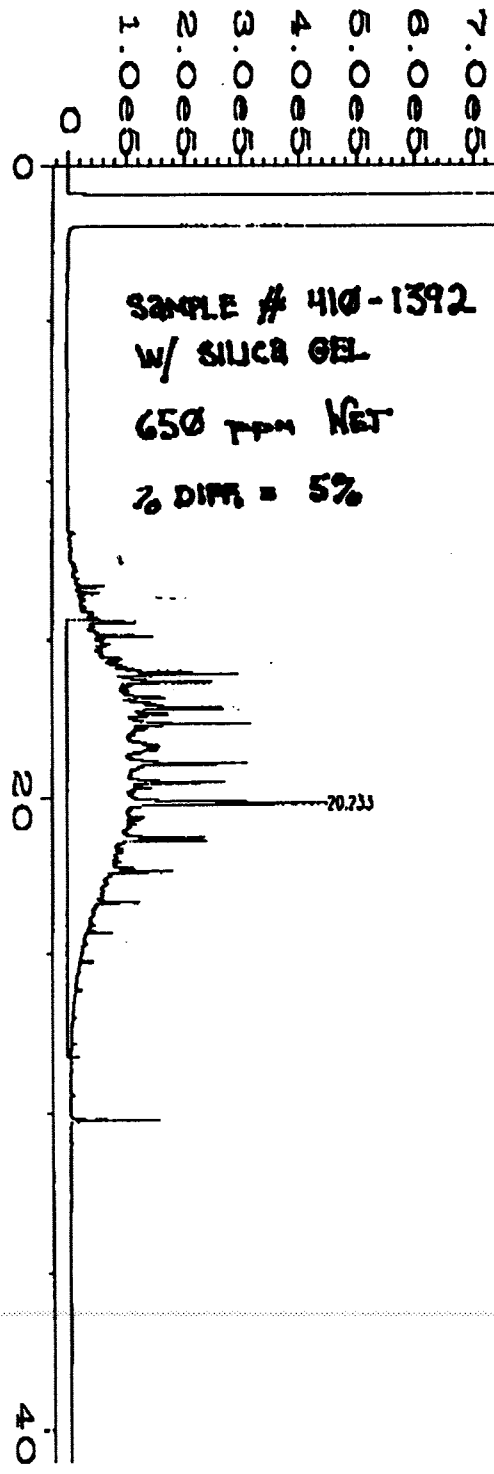
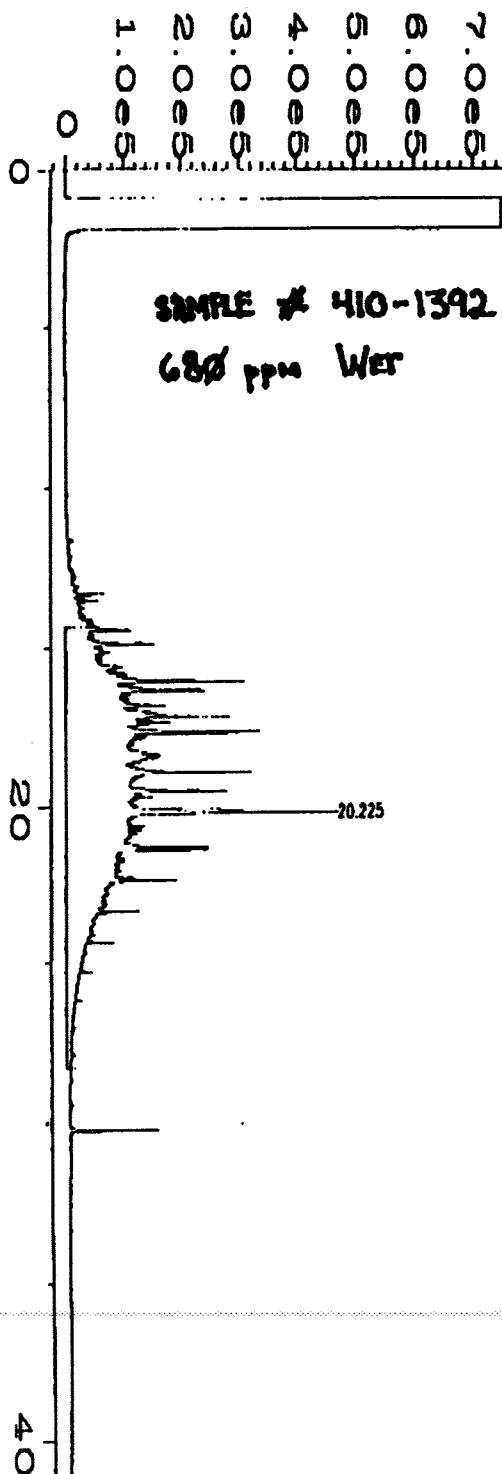

Shannon Stowell
Project Manager

4101385.R2A <7>

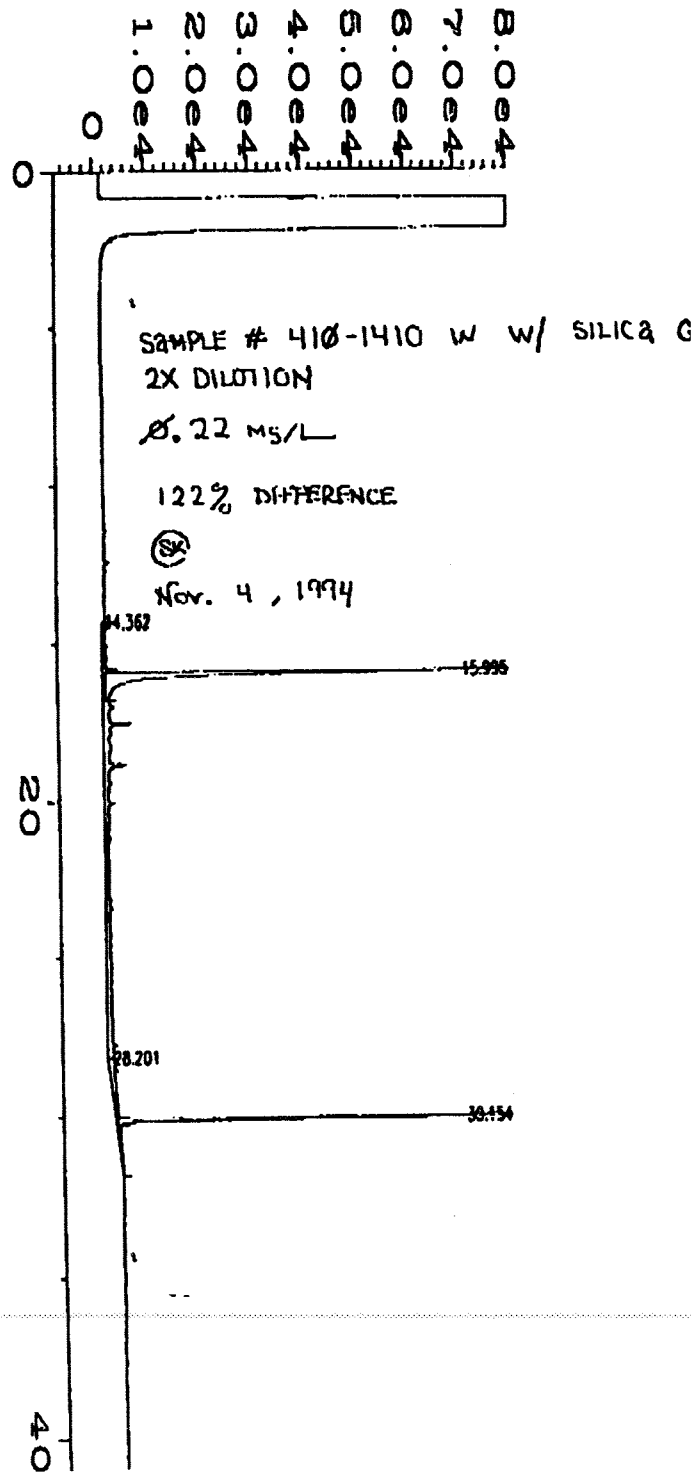
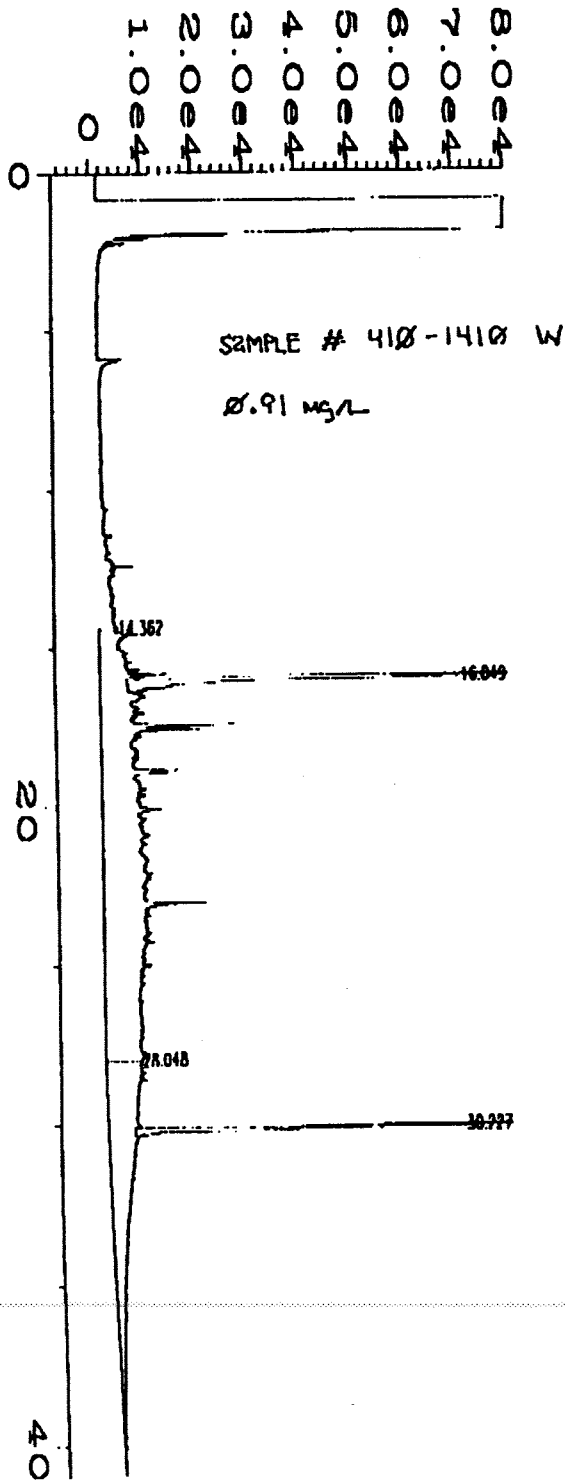


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 Sample Name : 410-1391-Silica
 Run Time Bar Code:
 Acquired on : 04 Nov 94 00:31 AM
 Report Created on: 04 Nov 94 07:44 AM

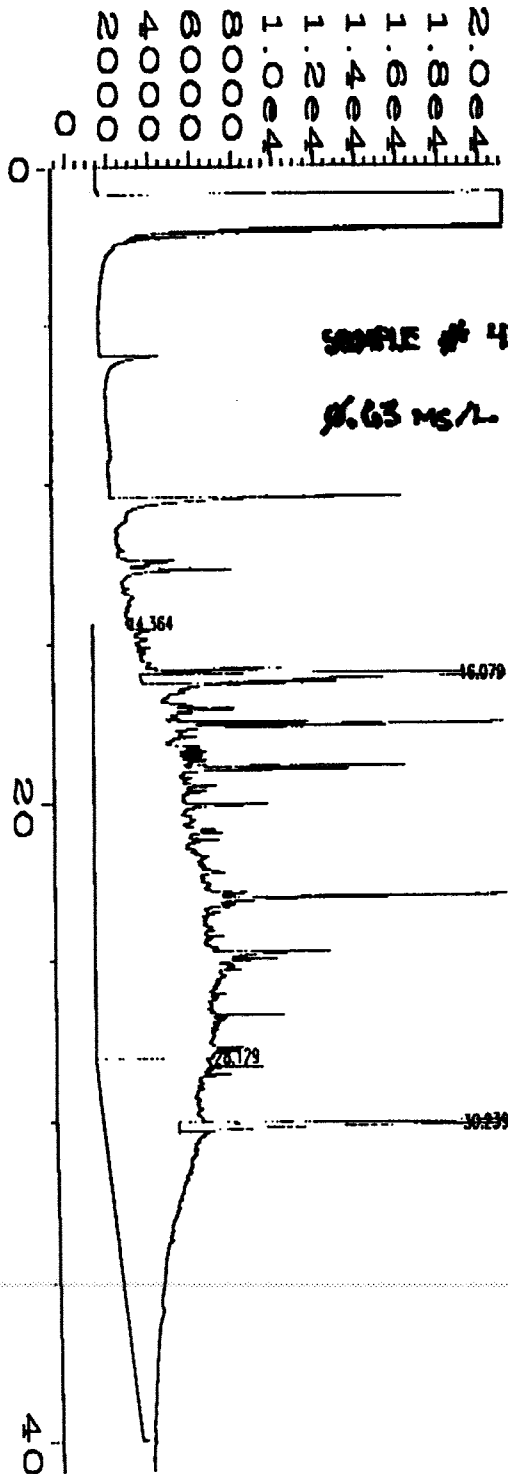
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 Injection Number : 1
 Sequence Line : 5
 Instrument Method: TFH1F.MTH
 Analysis Method : TPH1F.MTH



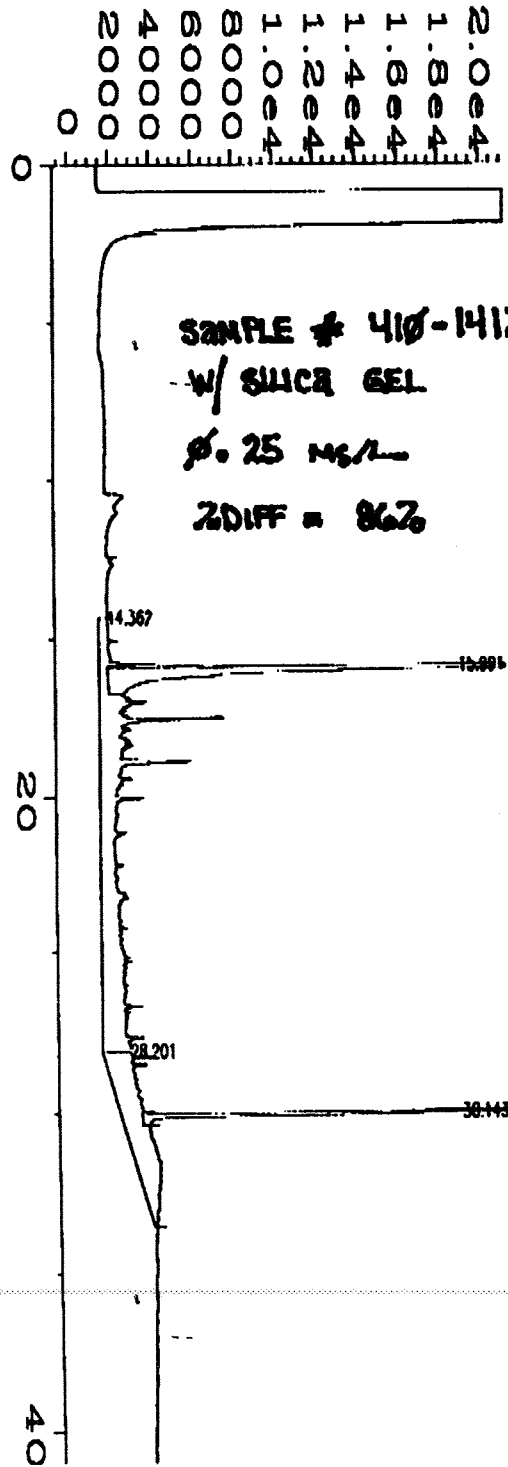
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Operator	: SK	Vial Number	: 7
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 410-1392	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 03 Nov 94 09:53 PM	Analysis Method	: TPH1F.MTH
Report Created on:	04 Nov 94 07:40 AM		



Data File Name	: C:\HPCHEM\1\DATA\NOV03B\005F0501.D	Page Number	: 1
Operator	: SK	Vial Number	: 5
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 410-1410W	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 03 Nov 94 08:07 PM	Analysis Method	: TPH1F.MTH
Report Created on:	04 Nov 94 03:31 PM		



SAMPLE # 410-1412 W
 0.63 MS/L



SAMPLE # 410-1412 W
 W/ SILICA GEL
 0.25 MS/L
 ZDIFF = 86%

Data File Name : C:\HPCHEM\1\DATA\NOV03B\006F0501.D
 Operator : SK
 Instrument : PHILLIP
 Sample Name : 410-1412W
 Run Time Bar Code:
 Acquired on : 03 Nov 94 09:00 PM
 Report Created on: 04 Nov 94 04:27 PM

Page Number : 1
 Vial Number : 6
 Injection Number : 1
 Sequence Line : 5
 Instrument Method: TPH1F.MTH
 Analysis Method : TPH1F.MTH

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

 Client Project ID: **BBP, #11-09378-02**

 Sample Matrix: **Soil**

 First Sample #: **410-1388**

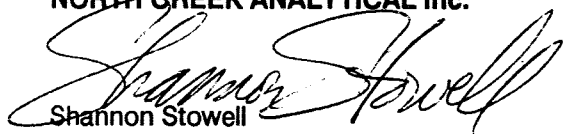
 Received: **Oct 24, 1994**

 Reported: **Nov 1, 1994**

TOTAL SOLIDS & MOISTURE CONTENT REPORT

Sample Number	Sample Description	Total Solids %	Moisture Content %
410-1388	SS-1/WP-12	93	7.0
410-1389	SS-2/WP-14	61	39
410-1390	SS-3/WP-6	84	16
410-1391	SS-4/WP-10	87	13
410-1392	SS-5/WP-15	92	8.0
410-1393	SS-6	32	68
410-1394	SS-7	36	64
410-1395	SS-8	73	27
410-1396	SS-9	87	13
410-1397	SEDS, UPSTREAM	23	77

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis. To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total 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.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

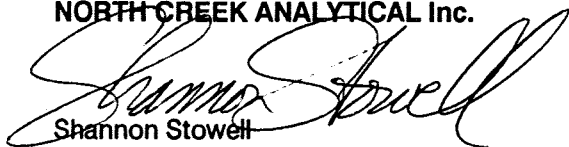
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Soil Analysis Method: WTPH-D Extended First Sample #: 410-1397	Sampled: Oct 21, 1994 Received: Oct 24, 1994 Extracted: Oct 24, 1994 Analyzed: Oct 25, 1994 Reported: Oct 25, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
410-1397	SEDS, UPSTREAM	480	2,900	80
BLK102494	Method Blank	N.D.	N.D.	77

Reporting Limit:	10	25
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2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.
 Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).
 Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.


Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Matrix: Soil
 Analysis Method: WTPH-D
 Units: mg/kg (ppm)

Analyst: D. Anderson
 Extracted: Oct 24, 1994
 Analyzed: Oct 25, 1994
 Reported: Oct 25, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

Spike Conc. Added: 70

Spike Result: 80

% Recovery: 115

Upper Control Limit %: 116

Lower Control Limit %: 71

PRECISION ASSESSMENT Sample Duplicate

Diesel Range Hydrocarbons

Sample Number: 410-1109

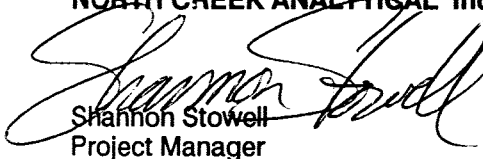
Original Result: N.D.

Duplicate Result: N.D.

Relative % Difference: Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Maximum RPD: 43

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
 Project Manager

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$

AGRA Earth & Environmental
11335 NE 122nd Way, #100
Kirkland, WA 98034
Attention: Rob Cousins

Client Project ID: **BBP, #11-09378-02**
Sample Matrix: **Soil**
Analysis Method: **WTPH-D Extended**
First Sample #: **410-1388**

Sampled: **Oct 21, 1994**
Received: **Oct 24, 1994**
Extracted: **Oct 28, 1994**
Analyzed: **10/31-11/1/94**
Reported: **Nov 1, 1994**
TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
410-1388	SS-1/WP-12	40	300	69
410-1389	SS-2/WP-14	46	290	58
410-1390	SS-3/WP-6	60	340	75
410-1391	SS-4/WP-10	130	490	64
410-1392	SS-5/WP-15	730	240	70
410-1393	SS-6	95	710	68
410-1394	SS-7	110	920	65
410-1395	SS-8	78	390	63
410-1396	SS-9	97	590	69
BLK102894	Method Blank	N.D.	N.D.	68

Reporting Limit:
10
25

2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.

Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Matrix: Soil
 Analysis Method: WTPH-D
 Units: mg/kg (ppm)

Analyst: D. Anderson
 Extracted: Oct 28, 1994
 Analyzed: Oct 30, 1994
 Reported: Nov 1, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

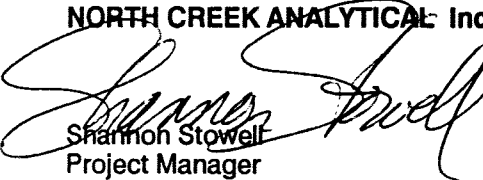
Spike Conc. Added: 70
 Spike Result: 77
 % Recovery: 110
 Upper Control Limit %: 116
 Lower Control Limit %: 71

PRECISION ASSESSMENT Sample Duplicate

Diesel Range Hydrocarbons

Sample Number: 410-1693
 Original Result: N.D.
 Duplicate Result: N.D.
 Relative % Difference: Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.
 Maximum RPD: 43

NORTH CREEK ANALYTICAL, Inc



Sharriion Stowell
 Project Manager

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$	
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$	

CHAIN OF CUSTODY

PROJECT BELLEFIELD BUS PARK BBP		PROJECT No. 11-09378-02		ANALYSIS REQUESTED (circle, check box or write preferred method in box)																			
CLIENT GREAT WESTERN BANK		PHONE No.																					
PROJECT MANAGER ROB COUSINS		PHONE No. 820-4669																					
SAMPLER'S NAME (please print) ROB COUSINS		PHONE No. 11																					
SAMPLER'S SIGNATURE <i>Robert Cousins</i>																							
SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	CONTAINERS		BTEX by EPA 802 / 8020	WTPH-G	BTEX / WTPH-G	WTPH-HClO	WTPH-D WTPH-D EXTENDED	TPH by EPA 8015 MODIFIED	WTPH-418.1 MODIFIED	TPH by EPA 418.1	OC / MS EPA 824 / 8240 or EPA 8200 Volatiles	GC / MS EPA 826 / 8270 Semi-volatiles	VOCs EPA 801 / 8010 or EPA 802 / 8020	PCBs EPA 808 / 8080	LEAD EPA 8010 / EPA 7421 Total / Dissolved	TOTAL METALS	TCLP		
					No.	VOL.																	
1. RINSE BLANK	11/10	11/10	2:30	W	-	1	1L				<input checked="" type="checkbox"/>												
2.																							4110000
3.																							
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

SAMPLE RECEIPT		LABORATORY		TURNAROUND TIME		SPECIAL INSTRUCTIONS / ADDITIONAL COMMENTS	
TOTAL # CONTAINERS 1	CONDITION OF CONTAINERS	SHIPPING I.D. / AIRBILL #	CARRIER	<input checked="" type="checkbox"/> 8 HOUR	<input checked="" type="checkbox"/> 24 HOUR		
CONDITION OF SEALS	RELINQUISHED BY / AFFILIATION	DOT DESIGNATION		<input type="checkbox"/> 1 WEEK	<input type="checkbox"/> 2 WEEK (standard)		
	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME		
	<i>Robert Cousins</i>	11-10-94	15:15	<i>Walter J. King</i>	11/10/94	1515	



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 9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202

AGRA Earth & Environmental 11336 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09376-02 Sample Matrix: Water Analysis Method: WTPH-D Extended First Sample #: 411-0808	Sampled: Nov 10, 1994 Received: Nov 10, 1994 Extracted: Nov 10, 1994 Analyzed: Nov 11, 1994 Reported: Nov 11, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
411-0808	RINSE BLANK 11/10	N.D.	N.D.	90
BLK111094	Method Blank	N.D.	N.D.	91

RINSE
BLANK
CLEAN

Reporting Limit:	0.25	0.75
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2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.
 Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
 Shannon Stowell
 Project Manager



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 East 11115 Montgomery, Suite B • Spokane, WA 99208-4776 (509) 924-9200 • FAX 924-9200
 9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Water Analysis Method: WTPH-D Units: mg/L (ppm)	Analyst: D. Anderson Extracted: Nov 10, 1994 Analyzed: Nov 11, 1994 Reported: Nov 11, 1994
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HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

Spike Conc. Added:	2.1
Spike Result:	2.4
% Recovery:	114
Upper Control Limit %:	126
Lower Control Limit %:	71

PRECISION ASSESSMENT Sample Duplicate

Diesel Range
Organics

Sample Number:	411-0808
Original Result:	N.D.
Duplicate Result:	N.D.
Relative % Difference	Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.
Maximum RPD:	39

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
Shannon Stowell
Project Manager

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$

CHAIN OF CUSTODY

PROJECT BELLEFIELD BUSINESS PARK BBP		PROJECT No. 11-09378-02		ANALYSIS REQUESTED (circle, check box or write preferred method in box)																			
CLIENT GREAT WESTERN BANK		PHONE No.																					
PROJECT MANAGER ROB COUSINS		PHONE No. 820-4669																					
SAMPLER'S NAME (please print) ROB COUSINS		PHONE No. 11																					
SAMPLER'S SIGNATURE <i>Rob Cousins</i>																							
SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	CONTAINERS No. VOL		BTEX by EPA 602 / 8020	WTPH-G	BTEX / WTPH-G	WTPH-ICID	WTPH-IC (WTPH-IC EXTENDED)	TPH by EPA 8015 MODIFIED	WTPH-41B.1 MODIFIED	TPH by EPA 418.1	GC / MS EPA 824 / 8240 or EPA 8260 Volatiles	GC / MS EPA 825 / 8270 Semi-volatiles	VOCs EPA 601 / 8010 or EPA 609 / 8120	PCBs EPA 606 / 8190	LEAD EPA 8010 / EPA 7421 Total / Dissolved	TOTAL METALS	TCLP		
1 RINSE BLANK	11-03-94	12:30	W	-	2	1L					X											41110417	
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

SAMPLE RECEIPT		LABORATORY		TURNAROUND TIME		SPECIAL INSTRUCTIONS / ADDITIONAL COMMENTS	
TOTAL # CONTAINERS 2		SHIPPING I.D. / AIRBILL #		<input type="checkbox"/> 8 HOUR			
CONDITION OF CONTAINERS		CARRIER		<input checked="" type="checkbox"/> 24 HOUR			
CONDITION OF SEALS		DOT DESIGNATION		<input type="checkbox"/> 1 WEEK			
				<input type="checkbox"/> 2 WEEK (standard)			
				<input type="checkbox"/> OTHER			
RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME
1 <i>Rob Cousins</i> AGRA		11-07-94	9:25	1 <i>[Signature]</i> NCA		11/7/94	0925
2				2			
3				3			

AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Water Analysis Method: WTPH-D Extended First Sample #: 411-0417	Sampled: Nov 3, 1994 Received: Nov 7, 1994 Extracted: Nov 7, 1994 Analyzed: Nov 8, 1994 Reported: Nov 9, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
411-0417	RINSE BLANK	N.D.	0.84	74
BLK110794	Method Blank	N.D.	N.D.	Pending

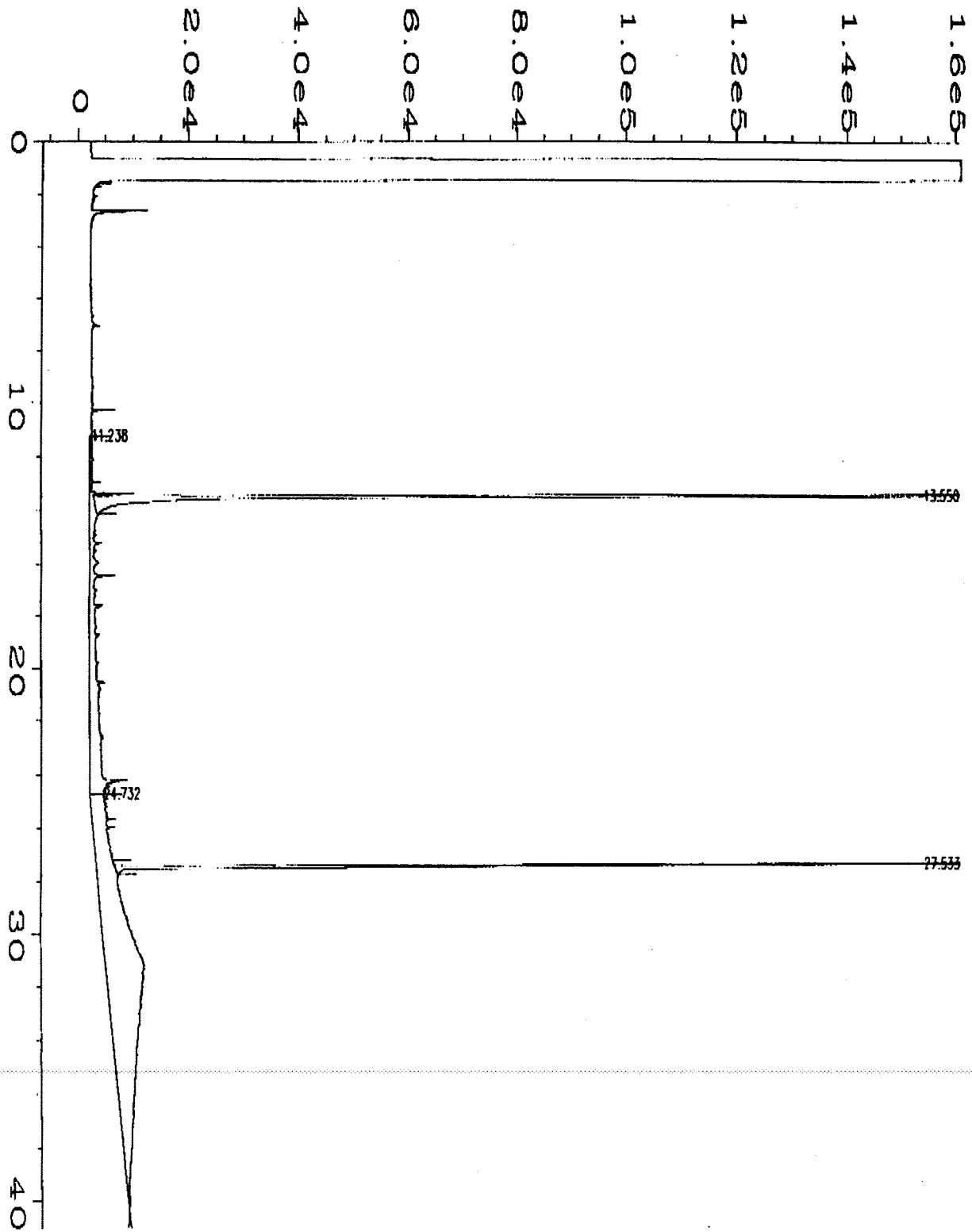
Reporting Limit:	0.25	0.75
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2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.
 Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Shannon Stowell
Project Manager



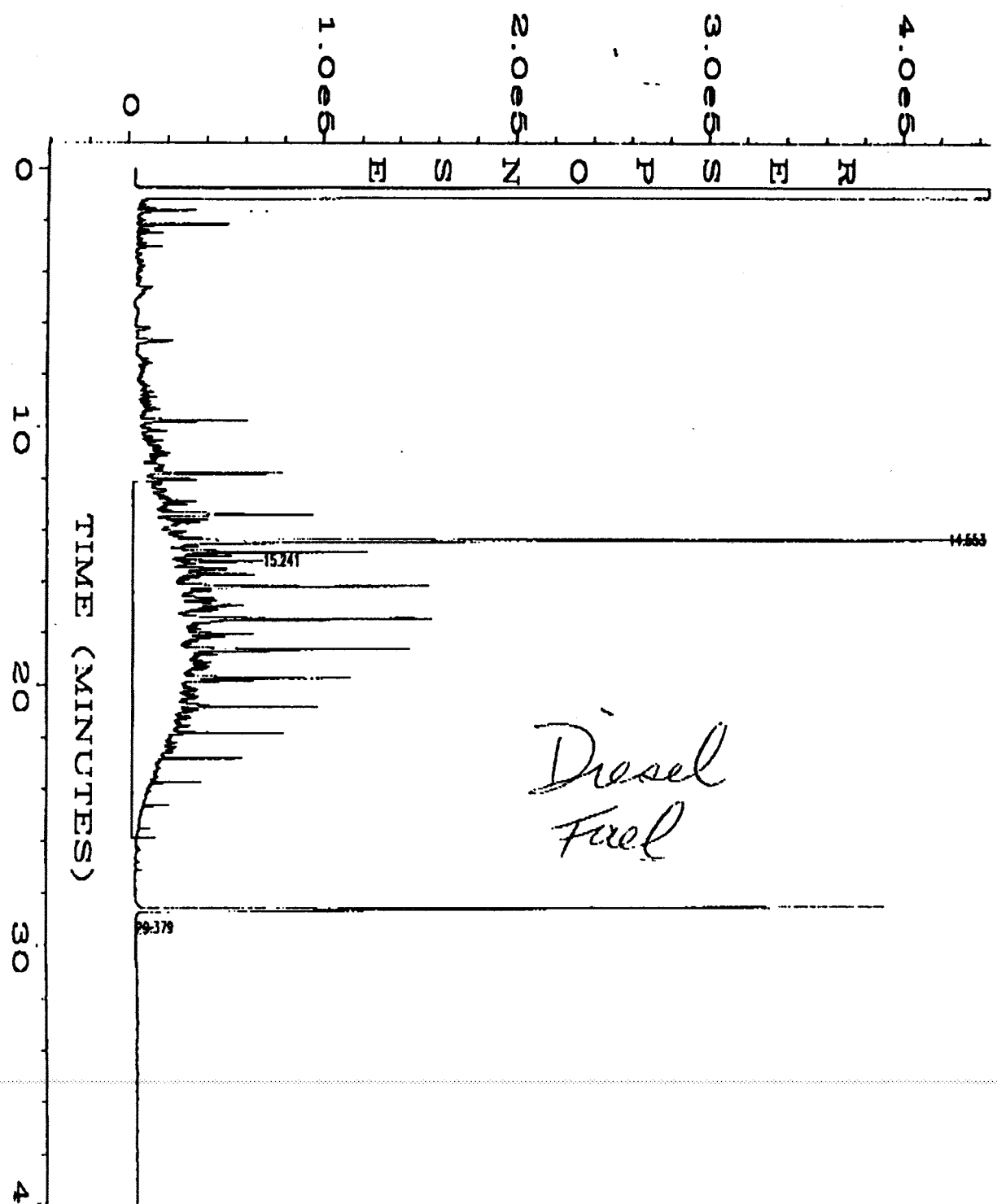
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 Operator : SK
 Instrument : PHILLIP
 Sample Name : 411-0417 W
 Run Time Bar Code:
 Acquired on : 08 Nov 94 06:26 PM
 Report Created on: 08 Nov 94 07:32 PM
 Page Number : 1
 Vial Number : 21
 Injection Number : 1
 Sequence Line : 10
 Instrument Method: TPH1F.MTH
 Analysis Method : TPH1F.MTH

CHAIN OF CUSTODY

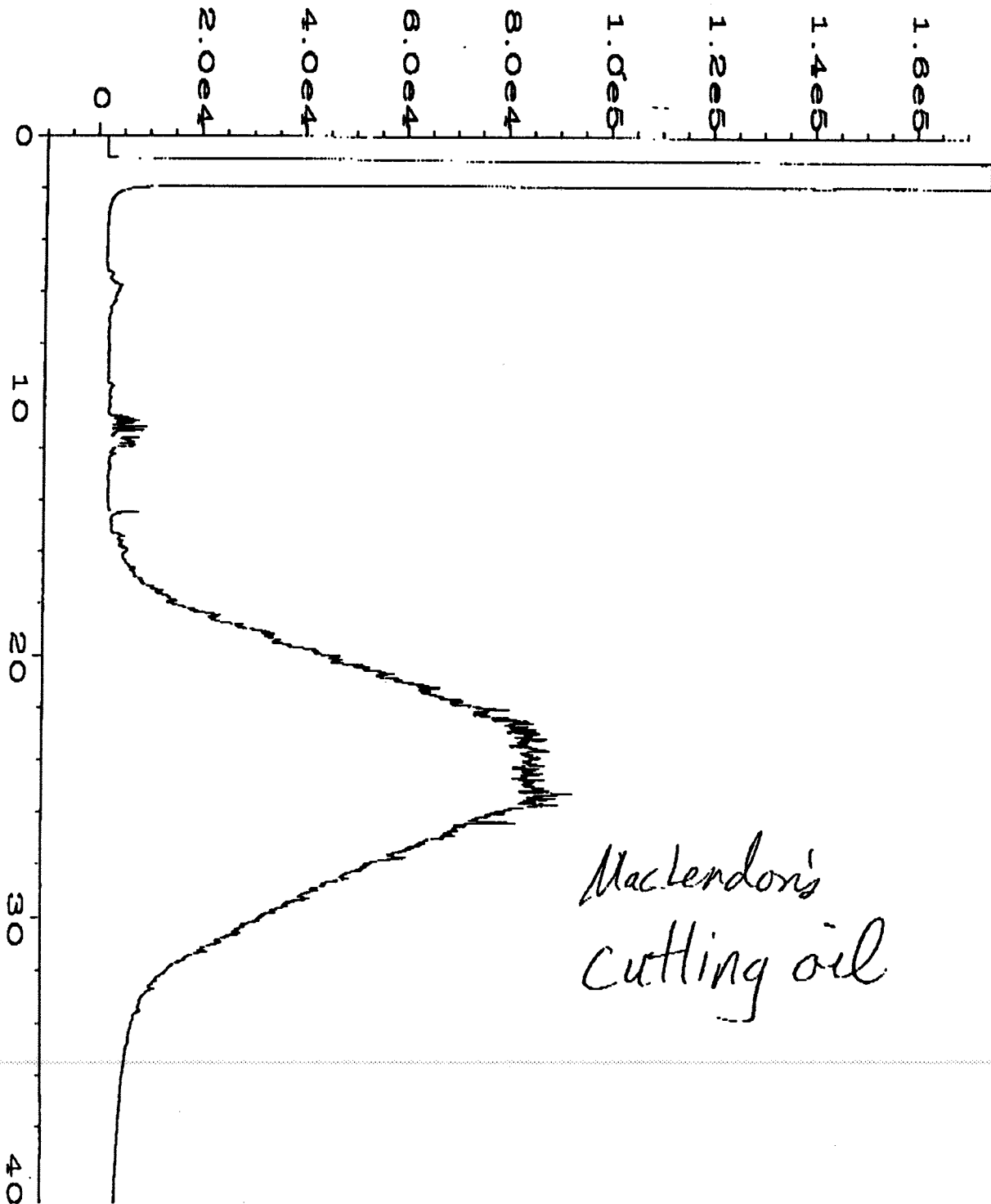
PROJECT	PROJ. NO.	PHONE NO.	ANALYSIS REQUESTED (circle, check box or write preferred method in box)																							
BELLEFIELD BUSINESS PARK	11-07378-02																									
CLIENT																										
GREAT WEST BANK																										
PROJECT MANAGER	PHONE NO.																									
ROB COUSINS	820-4669																									
SAMPLER'S NAME (please print)	PHONE NO.																									
ROB COUSINS	11																									
SAMPLER'S SIGNATURE																										
<i>[Signature]</i>																										
SAMPLE ID.	DATE	TIME	MATRIX	PRESERVATIVE	CONTAINERS	NO.	VOL.	RTX BY EPA 802 / 803	WTRH-D / EXTENDED	WTRH-HCD	WTRH-D / WTRH-D EXTENDED	TPH BY EPA HHS MODIFIED	WTRH-18.1 MODIFIED	TPH BY EPA 418.1	GC / MS EPA 824 / 8240 OR FPA 8280	GC / MS EPA 825 / 8270	Semi-volatiles	VOCs EPA 801 / 8010 OR EPA 802 / 8020	PCBs EPA 808 / 8080	LEAD EPA 8010 / EPA 7421	Total / Described	TOTAL METALS	TCAP			
1. MW-3R	11-04-94	2:00	W	-	1	1L		✓																4110386		
2. MW-6R		2:20	W		1	1L		✓																4110387		
3. MW-7R		2:40	W		1	1L		✓																4110388		
4. MW-14R		3:00	W		1	1L		✓																4110389		
5. SS-10		3:10	S		1	80Z																		4110390	X	
6. SS-11		3:20	S	V	1	80Z																		4110391	X	
7. CUTTING OIL	11-04	-	L	-	1	1PT		✓																4110392		
8.																										
9.																										
10.																										

SAMPLE RECEIPT	LABORATORY	TURNAROUND TIME	SPECIAL INSTRUCTIONS / ADDITIONAL COMMENTS
TOTAL # CONTAINERS	SUPPLY D.I.A. BELL #	<input type="checkbox"/> 8 HOUR <input checked="" type="checkbox"/> 24 HOUR <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 2 WEEK (air-dry) <input type="checkbox"/> OTHER	
CONDITION OF CONTAINERS	CARRIER		
CONDITION OF SEALS	DOT DESIGNATION		
RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION
<i>[Signature]</i> (AGZA)	11-04-94	4:00	<i>[Signature]</i> NCA
			DATE 11/4 4:15

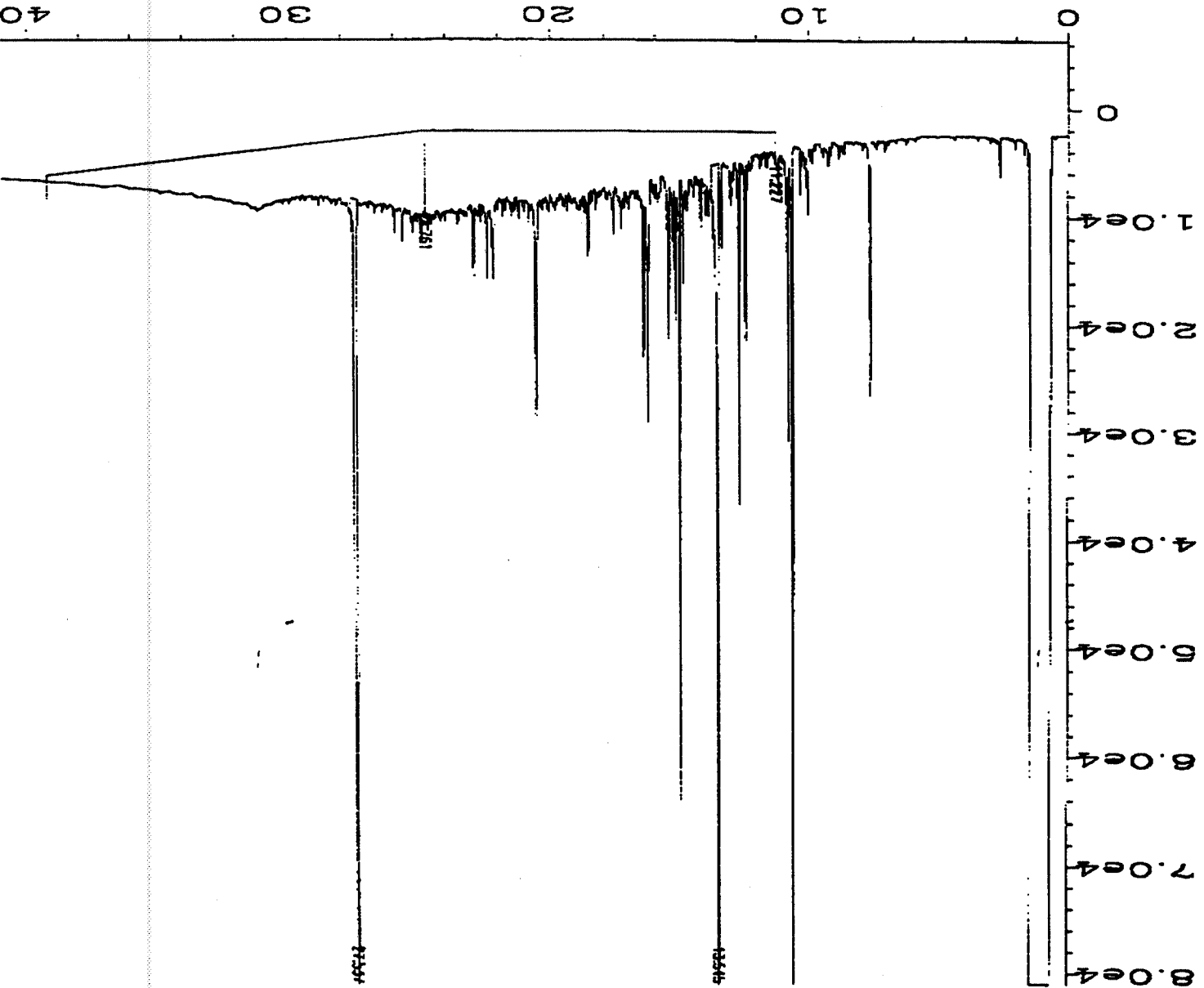




Data File Name	: C:\HPCHEM\2\DATA\NOV08B\009F1001.D	Page Number	: 1
Operator	: DAVE	Vial Number	: 9
Instrument	: ROBERT	Injection Number	: 1
Sample Name	: BS1104W8015	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	TPH3F.MTH
Acquired on	: 08 Nov 94 11:49 PM	Analysis Method	: TPH3F.MTH
Report Created on:	09 Nov 94 00:36 AM		



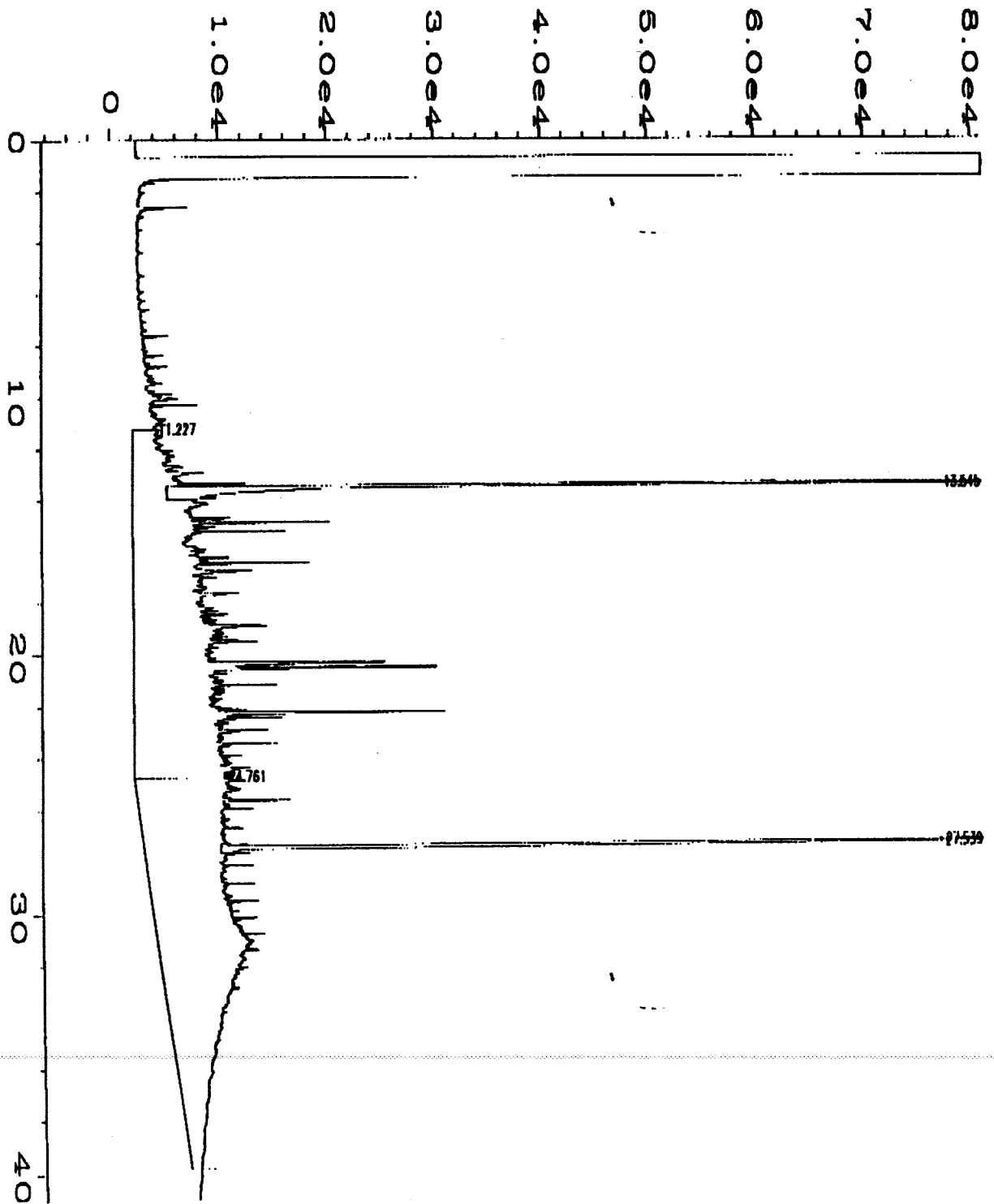
Data File Name	: C:\HPCHEM\1\DATA\NOV08\010F0501.D	Page Number	: 1
Operator	: SK	Vial Number	: 10
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-0392 11x	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 08 Nov 94 01:07 PM	Analysis Method	: STD3F.MTH
Report Created on:	08 Nov 94 03:34 PM		



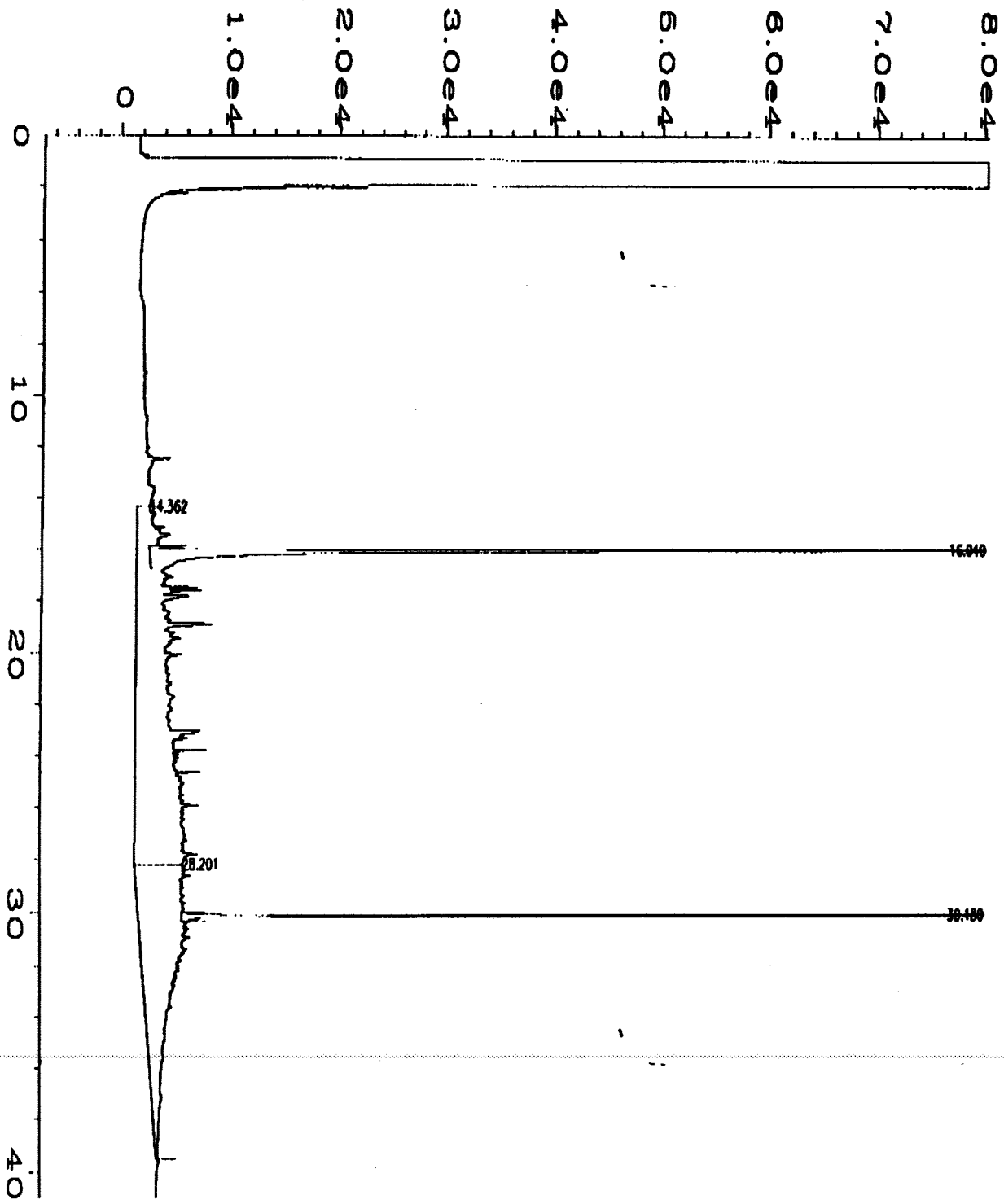
User modified

Data File Name : C:\HPCHEM\1\DATA\NOV08\052R0101.D
 Operator : SK
 Instrument : PHILIP
 Sample Name : 411-0386
 Run Time Bar Code :
 Acquired on : 08 Nov 94 08:52 AM
 Report Created on: 08 Nov 94 10:19 AM

Page Number : 1
 Vial Number : 52
 Injection Number : 1
 Sequence Line : 1
 Instrument Method: TPH1F.MTH
 Analysis Method : TPH1F.MTH



Data File Name	: C:\HPCHEM\1\DATA\NOV08\051R0101.D	Page Number	: 1
Operator	: SK	Vial Number	: 51
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-0387	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 08 Nov 94 08:02 AM	Analysis Method	: TPH1F.MTH
Report Created on:	08 Nov 94 09:23 AM		



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV08\002F0101.D	Page Number	: 1
Operator	: SK	Vial Number	: 2
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-0388	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 08 Nov 94 08:52 AM	Analysis Method	: TPH1F.MTH
Report Created on:	08 Nov 94 10:17 AM		



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AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Matrix: Water Analysis Method: WTPH-D Extended First Sample #: 411-0386	Sampled: Nov 4, 1994 Received: Nov 4, 1994 Extracted: Nov 4, 1994 Analyzed: Nov 8, 1994 Reported: Nov 8, 1994
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TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
411-0386	MW-3R	0.79	0.95	68
411-0387	MW-6R	0.81	1.3	68
411-0388	MW-7R	0.40	N.D.	41, S-3
411-0389	MW-14R	0.40	N.D.	71
BLK110494	Method Blank	N.D.	N.D.	93

Reporting Limit:	0.25	0.75
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2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.
 Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

 Shannon Stowell
 Project Manager

Please Note:
 S-3 • The Surrogate Recovery for Sample # 411-0388 is outside of NCA established control limits.



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AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Matrix: Water
 Analysis Method: WTPH-D
 Units: mg/L (ppm)

Analyst: D. Anderson
 Extracted: Nov 4, 1994
 Analyzed: Nov 8, 1994
 Reported: Nov 8, 1994

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Diesel	
Spike Conc. Added:	2.1
Spike Result:	2.1
% Recovery:	100
Upper Control Limit %:	126
Lower Control Limit %:	71

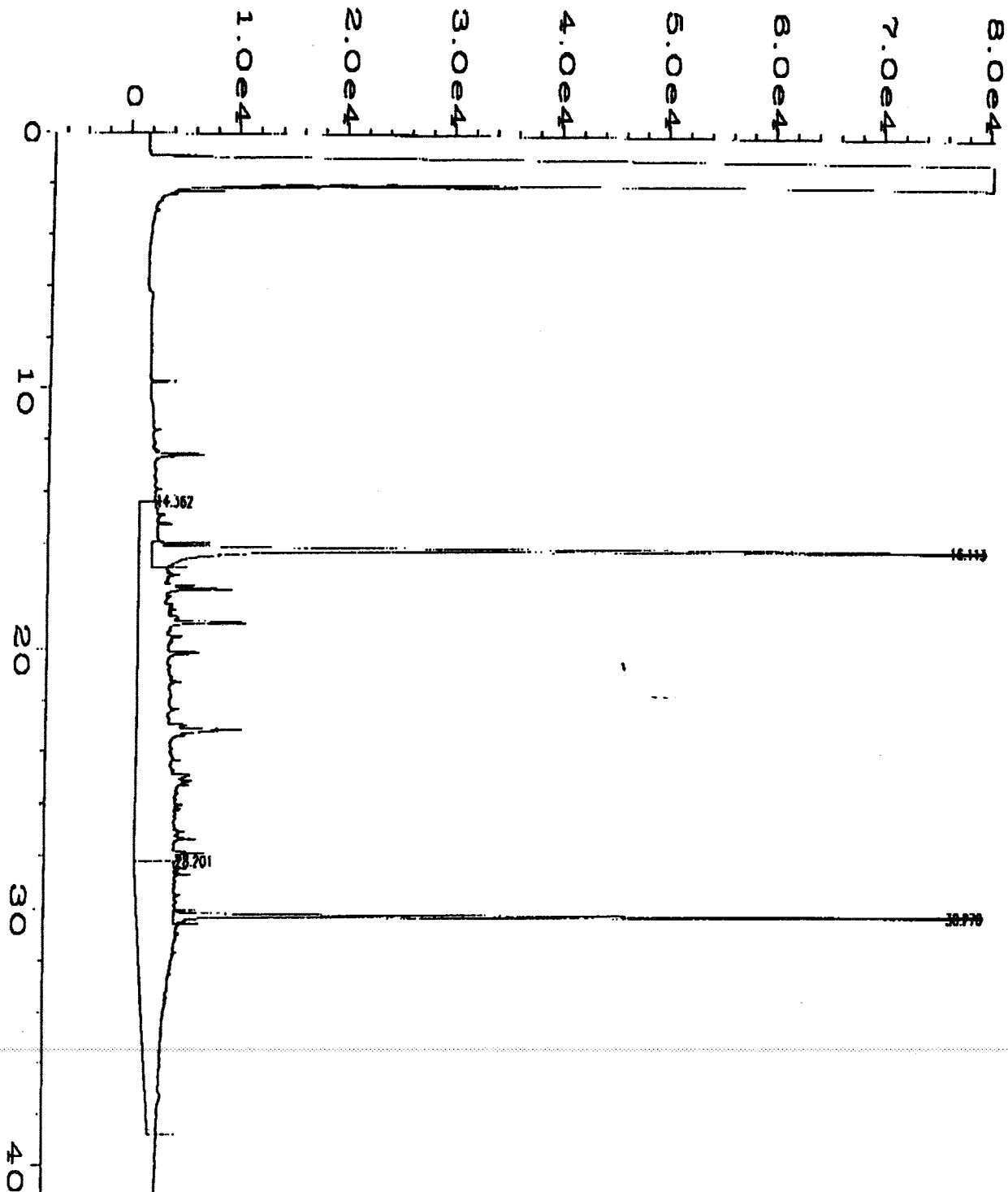
PRECISION ASSESSMENT Sample Duplicate

Diesel Range Organics	
Sample Number:	411-0112
Original Result:	N.D.
Duplicate Result:	N.D.
Relative % Difference	Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.
Maximum RPD:	39

NORTH CREEK ANALYTICAL Inc.

 Shannon Stovell
 Project Manager

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$



user modified

Data File Name	: C:\HPCHEM\1\DATA\NOV08\001F0101.D	Page Number	: 1
Operator	: SK	Vial Number	: 1
Instrument	: PHILLIP	Injection Number	: 1
Sample Name	: 411-0389	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TPH1F.MTH
Acquired on	: 08 Nov 94 08:02 AM	Analysis Method	: TPH1F.MTH
Report Created on:	08 Nov 94 09:15 AM		

CHAIN OF CUSTODY

PROJECT RELEASED BUSINESS PTR (BBP) 1109378-02		PROJECT No.		ANALYSIS REQUESTED (circle, check box or write preferred method in box)														
CLIENT GREAT WEST BANK		PHONE No. 820-4669		<input type="checkbox"/> HPLC by EPA 602 / 6020 <input type="checkbox"/> WTR/IG <input type="checkbox"/> BTEX/WTR/IG <input type="checkbox"/> WTR/HClD <input type="checkbox"/> WTR/D / WTR/D EXTENDED <input type="checkbox"/> TPH by EPA 8015 MODIFIED <input type="checkbox"/> WTRH-118.1 MODIFIED <input type="checkbox"/> TPH by EPA 418.1 <input type="checkbox"/> GC / MS EPA 824 / 8240 or EPA 8700 Variables <input type="checkbox"/> GC / MS EPA 825 / 8250 Semi-volatiles <input type="checkbox"/> VOCs EPA 801 / 8010 or EPA 602 / 8020 <input type="checkbox"/> PCBs EPA 808 / 8080 <input type="checkbox"/> LEAD EPA 8010 / EPA 7421 Total / Disolved <input type="checkbox"/> TOTAL METALS <input type="checkbox"/> TOC <input checked="" type="checkbox"/> 8310 <input checked="" type="checkbox"/> 11 Liter Share!														
PROJECT MANAGER ROB COUSINS		PHONE No. 820-4669																
SAMPLER'S NAME (please print) ROB COUSINS		PHONE No. 11																
SAMPLER'S SIGNATURE																		
SAMPLE I.D.	DATE	TIME	MATRIX	PRESERVATIVE	CONTAINERS													
					No.	VOL.												
1. MW-1 1101535	10-25	11:30	W	-	2	1L												
2. MW-10 1101536	10-25	10:00	W	-	1	1L												
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE RECEIPT			LABORATORY			TURNAROUND TIME			SPECIAL INSTRUCTIONS / ADDITIONAL COMMENTS		
TOTAL # CONTAINERS 3			SHIPPING I.D. / AIRBILL #			<input type="checkbox"/> 8 HOUR <input type="checkbox"/> 24 HOUR <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 2 WEEK (standard) <input type="checkbox"/> OTHER: _____			SAM TURNAROUND Due 10/31 UNPRESERVED LITERS FROM SECONDARY SAMPLING 10/25 (TUES) LAB: NORTH CORNER		
CONDITION OF CONTAINERS SEALED			CARRIER								
CONDITION OF SEALS			DOT DESIGNATION								
RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME				
1. Robert Cousins		10/25		2. A. SONS Beckys 563		10/25	2:30				
2. R. M. Boy		10/25	2:30p	3. John King - UCA		10/25	2:45p				
3. A. SONS Beckys 563		10/25	2:45p								



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AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-09378-02 Sample Descript: Water, MW-1 Analysis Method: EPA 8081 Sample Number: 410-1535	Sampled: Oct 25, 1994 Received: Oct 25, 1994 Extracted: Oct 27, 1994 Analyzed: Oct 28, 1994 Reported: Nov 2, 1994
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ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.080	N.D.
alpha-BHC.....	0.040	N.D.
beta-BHC.....	0.060	N.D.
delta-BHC.....	0.040	N.D.
gamma-BHC (Lindane).....	0.060	N.D.
Chlordane.....	0.30	N.D.
4,4'-DDD.....	0.080	N.D.
4,4'-DDE.....	0.060	N.D.
4,4'-DDT.....	0.18	N.D.
Dieldrin.....	0.14	N.D.
Endosulfan I.....	0.060	N.D.
Endosulfan II.....	0.10	N.D.
Endosulfan sulfate.....	0.14	N.D.
Endrin.....	0.16	N.D.
Endrin aldehyde.....	0.16	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.060	N.D.
Methoxychlor.....	10	N.D.
Toxaphene.....	1.0	N.D.
PCB-1016.....	1.0	N.D.
PCB-1221.....	1.0	N.D.
PCB-1232.....	1.0	N.D.
PCB-1242.....	1.0	N.D.
PCB-1248.....	1.0	N.D.
PCB-1254.....	1.0	N.D.
PCB-1260.....	1.0	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 71
 Surrogate Recovery Control Limits are 33 - 124 %.

Analytes reported as N.D. were not detected above the stated Reporting Limit. Because matrix effects and/or other factors required additional sample dilution, reporting limits for this sample have been raised.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager



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AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Descript: Method Blank
 Analysis Method: EPA 8081
 Sample Number: BLK102794

Extracted: Oct 27, 1994
 Analyzed: Oct 28, 1994
 Reported: Nov 2, 1994

ORGANOCHLORINE PESTICIDES AND PCB'S

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Aldrin.....	0.040	N.D.
alpha-BHC.....	0.020	N.D.
beta-BHC.....	0.030	N.D.
delta-BHC.....	0.020	N.D.
gamma-BHC (Lindane).....	0.030	N.D.
Chlordane.....	0.15	N.D.
4,4'-DDD.....	0.040	N.D.
4,4'-DDE.....	0.030	N.D.
4,4'-DDT.....	0.090	N.D.
Dieldrin.....	0.070	N.D.
Endosulfan I.....	0.030	N.D.
Endosulfan II.....	0.050	N.D.
Endosulfan sulfate.....	0.070	N.D.
Endrin.....	0.080	N.D.
Endrin aldehyde.....	0.080	N.D.
Heptachlor.....	0.030	N.D.
Heptachlor epoxide.....	0.030	N.D.
Methoxychlor.....	5.0	N.D.
Toxaphene.....	0.50	N.D.
PCB-1016.....	0.50	N.D.
PCB-1221.....	0.50	N.D.
PCB-1232.....	0.50	N.D.
PCB-1242.....	0.50	N.D.
PCB-1248.....	0.50	N.D.
PCB-1254.....	0.50	N.D.
PCB-1260.....	0.50	N.D.

Tetrachloro-m-xylene Surrogate Recovery, %: 60
 Surrogate Recovery Control Limits are 33 - 124 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager



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AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-08378-02 Sample Matrix: Water Analysis Method: EPA 8080 Units: µg/L (ppb) QC Sample #: BLK102794	Analyst: M. Selbel Extracted: Oct 27, 1994 Analyzed: Oct 28, 1994 Reported: Nov 2, 1994
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BLANK SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Lindane	Heptachlor	Aldrin	Aroclor 1260
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.25	0.25	0.25	6.7
Spike Result:	0.24	0.23	0.25	6.3
Spike % Recovery:	96%	92%	100%	94%
Spike Dup. Result:	0.24	0.22	0.25	6.7
Spike Duplicate % Recovery:	96%	88%	100%	100%
Upper Control Limit %:	151	166	150	135
Lower Control Limit %:	60	25	46	52
Relative % Difference:	0.0%	4.4%	0.0%	6.2%
Maximum RPD:	50	50	50	50

NORTH CREEK ANALYTICAL Inc. % Recovery: $\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

Shannon Stowell
 Shannon Stowell
 Project Manager

AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Descript: Water, MW-1
 Analysis Method: EPA 8310
 Sample Number: 410-1535

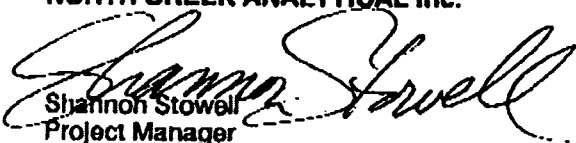
Sampled: Oct 25, 1994
 Received: Oct 25, 1994
 Extracted: Oct 27, 1994
 Analyzed: Nov 1, 1994
 Reported: Nov 2, 1994

POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	1.5
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	2.2
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	1.2

2-Fluorobiphenyl Surrogate Recovery, %: 59
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager



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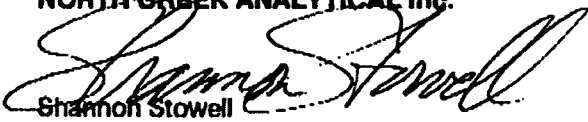
AGRA Earth & Environmental 11335 NE 122nd Way, #100 Kirkland, WA 98034 Attention: Rob Cousins	Client Project ID: BBP, #11-08376-02 Sample Descript: Water, MW-10 Analysis Method: EPA 8310 Sample Number: 410-1536	Sampled: Oct 25, 1994 Received: Oct 25, 1994 Extracted: Oct 27, 1994 Analyzed: Nov 1, 1994 Reported: Nov 2, 1994
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POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 83
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager



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AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Descript: Method Blank
 Analysis Method: EPA 8310
 Sample Number: BLK102794

Extracted: Oct 27, 1994
 Analyzed: Nov 1, 1994
 Reported: Nov 2, 1994

POLYNUCLEAR AROMATIC HYDROCARBONS

Analyte	Reporting Limit µg/L (ppb)	Sample Results µg/L (ppb)
Acenaphthene.....	5.0	N.D.
Acenaphthylene.....	5.0	N.D.
Anthracene.....	5.0	N.D.
Benzo (a) anthracene.....	0.10	N.D.
Benzo (a) pyrene.....	0.10	N.D.
Benzo (b) fluoranthene.....	0.10	N.D.
Benzo (ghi) perylene.....	0.10	N.D.
Benzo (k) fluoranthene.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenzo (a,h) anthracene.....	0.10	N.D.
Fluoranthene.....	0.10	N.D.
Fluorene.....	5.0	N.D.
Indeno (1,2,3-cd) pyrene.....	0.10	N.D.
Naphthalene.....	5.0	N.D.
Phenanthrene.....	5.0	N.D.
Pyrene.....	0.50	N.D.

2-Fluorobiphenyl Surrogate Recovery, %: 78
 Surrogate Recovery Control Limits are 33 - 115 %.
 Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


 Shannon Stowell
 Project Manager

4101535.RZA <6>



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AGRA Earth & Environmental
 11335 NE 122nd Way, #100
 Kirkland, WA 98034
 Attention: Rob Cousins

Client Project ID: BBP, #11-09378-02
 Sample Matrix: Water
 Analysis Method: EPA 8310
 Units: $\mu\text{g/L}$ (ppb)
 QC Sample #: BLK102794

Analyst: S. Kourl
 Extracted: Oct 27, 1994
 Analyzed: Nov 1, 1994
 Reported: Nov 2, 1994

BLANK SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Fluorene	Benzo(g,h,i) Perylene	Chrysene
	Sample Result:	N.D.	N.D.
Spike Conc. Added:	2.0	2.0	1.0
Spike Result:	1.8	1.8	0.99
Spike % Recovery:	90%	90%	99%
Spike Dup. Result:	1.8	2.0	1.1
Spike Duplicate % Recovery:	90%	100%	110%
Upper Control Limit %:	116	150	124
Lower Control Limit %:	42	50	62
Relative % Difference:	0%	11%	11%
Maximum RPD:	30	39	32

NORTH CREEK ANALYTICAL Inc.

% Recovery:

$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$

x 100

Relative % Difference:

$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

x 100

Shannon Stowell
 Project Manager

4101535.RZA <7>



AGRA Earth &
Environmental, Inc.
11335 NE 122nd Way
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Kirkland, Washington
U.S.A. 98034-6918
Tel (206) 820-4669
Fax (206) 821-3914

13 January 1995
11-09378-04

Great Western Bank, A Federal Savings Bank
Legal Department
9200 Oakdale, 7th Floor
Chatsworth, California 91311

Attention: Ms Andrea Vogel

Subject: PCB Interpretation Consensus Meeting Results
Bellefield Office Park Project
11201 SE 8th Street
Bellevue, WA 98005

Dear Ms. Vogel:

As per your request, AGRA Earth & Environmental Inc. (AGRA) is pleased to present the results of the above referenced meeting. Those attending the meeting, held at 9:00 AM, 12 January 1995 at North Creek Analytical's Bothell, Washington facility were:

- Mr. Shannon Stowell, North Creek Analytical (NCA);
- Mr. Dennis Wells, NCA;
- Ms. Melinda Seibel, NCA;
- Mr. Andrew Friedman, Friedman & Bruya Inc.;
- Mr. Daryl Petrarca, AGRA.

BACKGROUND

The purpose of the meeting was to bring together the chemical analysts from Friedman & Bruya Inc. and North Creek Analytical to attempt to reach a consensus opinion on the presence or non-presence of PCB's in soil and groundwater samples obtained from the Bellefield Office Park during subsurface screening work performed by AGRA on the site in October and November 1994.

NCA's analysts had reported the presence of PCB's (below Washington State Model Toxics Control Act (MTCA) clean-up levels) in soil samples B-1/S-3/7.5, B-2/S-8/20, B-3/S-1/2.5, B-3/S-7/17.5. NCA also had reported elevated PCB concentrations (slightly above MTCA method B cleanup levels) in groundwater samples MW-2(23 October 1994), MW-6(23 October 1994), and MW-10(15 November 1995). FBI analysts reported no presence of PCBs in groundwater



originally reported by NCA, and not present in soil and groundwater samples obtained on 30 November 1994 analyzed and reported by FBI.

SOIL

It was agreed that PCBs reported from soil samples obtained from various depths in Borings B-1, B-2 and B-3 in fact did exist. These concentrations are below State MTCA cleanup levels.

GROUNDWATER

Groundwater samples obtained from monitoring wells on the subject property appeared to exhibit PCBs intermittently. For example, multiple sampling and analysis of monitoring wells MW-2 and MW-10 exhibited sporadic PCB hits as presented below:

•	MW-2	Sampling Date	PCB- 1242-	1254-	1260 in ppb
		23 October 1994 (NCA)	1.5	1.7	0.42
		30 November 1994 (FBI)	non-detect-----		
•	MW-10	23 October 1994 (NCA)	non-detect-----		
		15 November 1994 (NCA)		0.41	
		30 November 1994 (FBI)	non-detect-----		

Meeting members agreed, that given the ephemeral appearance of PCBs in groundwater samples as described above, the PCB concentrations reported in groundwater analyses are most likely the result of relic, mobile PCB bearing solid particulates (microscopic soil and/ or organic particles) suspended in local groundwater supplies as the result of soil disturbance during monitoring well installation, and are not representative of actual groundwater quality in terms of actual dissolved PCB presence. It was agreed that physically demonstrating this assumption would be difficult. Although collected groundwater samples were extremely turbid, indicating a high level of suspended particulate matter, regulatory agencies would likely balk at the idea of filtering collected samples to remove PCB relic particulates due to possible adherence of non-relic PCBs, if present, to the filtering material, producing artificially low reported concentrations. A second possible method to remove relic particulates would involve centrifuging the groundwater sample, to allow non-representative PCB bearing particulates to



settle out of solution, thereby providing a more representative groundwater sample for analysis. There is however uncertainty that centrifuging the groundwater sample would effectively remove possible PCB relic materials based upon the suspected particulate's probable buoyancy parameters.

Given this information it is unlikely that a definitive statement can easily (if at all) be scientifically arrived at as to whether PCBs, which meeting members agree are present in soil samples obtained from borings B-1, B-2, and B-3 on a portion of the site (at levels below state clean-up levels) are present in groundwater samples in a non-relic free phase form.

SUMMARY

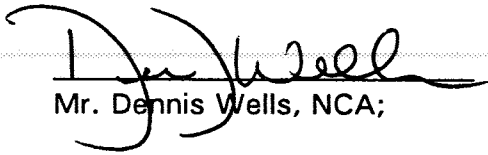
Results of studies performed to date by AGRA indicate that PCB containing soils do exist at depths ranging from 2-3 feet to approximately 20 feet on the southwest portion of the property in the area of borings B-1, B-2, B-3. Surface soils (0-3 feet deep) tested on other portions of the site did not exhibit PCB presence. Upon analysis no observed soil PCB concentrations exceeded state clean-up levels and it is unlikely that these materials would require remediation.

Of more importance is the fact that eighteen groundwater wells were tested across the site for the presence of PCBs and only MW-2, MW-6, and MW-10 have produced intermittent evidence of PCB presence as described earlier in this report. At first glance PCB concentrations exhibited by groundwater samples appear to exhibit levels that slightly exceed state groundwater quality criteria. However because what is understood in the scientific community about the fate and transport of PCBs, particularly their lack of water solubility and adsorption characteristics and given their intermittent occurrence in groundwater samples from the site, it is more likely that observed groundwater PCB concentrations are related to the presence of artifact particles with attached PCB compounds rather than dissolved phase PCBs in the ground water which might become bioavailable to the flora and fauna of the site.

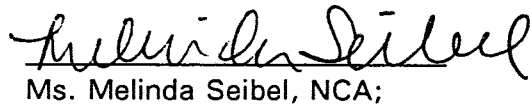
In that PCBs were not detected in the surface waters downgradient of the property and most wells sampled on the property did not exhibit PCB contamination it is unlikely that the presence of PCB's, in the soil concentrations detected, present a significant soil or groundwater environmental problem for the subject property.



Meeting members have agreed to sign this document solely indicating their participation in this review meeting and concurrence with the reported meeting findings.



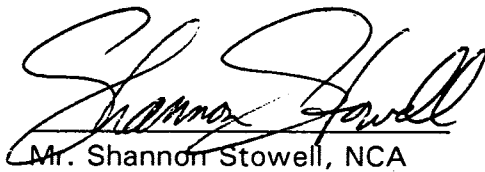
Mr. Dennis Wells, NCA;



Ms. Melinda Seibel, NCA;



Mr. Andrew Friedman, FBI;



Mr. Shannon Stowell, NCA


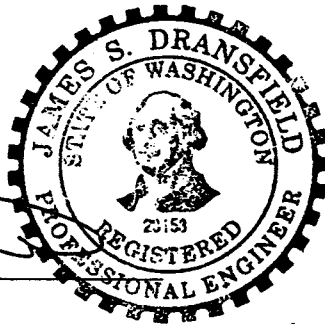
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13 January 1995
11-09378-04
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We appreciate the opportunity to be of service. Should you have any questions, please do not hesitate to call (206-820-4669).

Respectfully submitted,
AGRA Earth & Environmental, Inc.



Daryl S. Petrarca R.E.A.
Associate



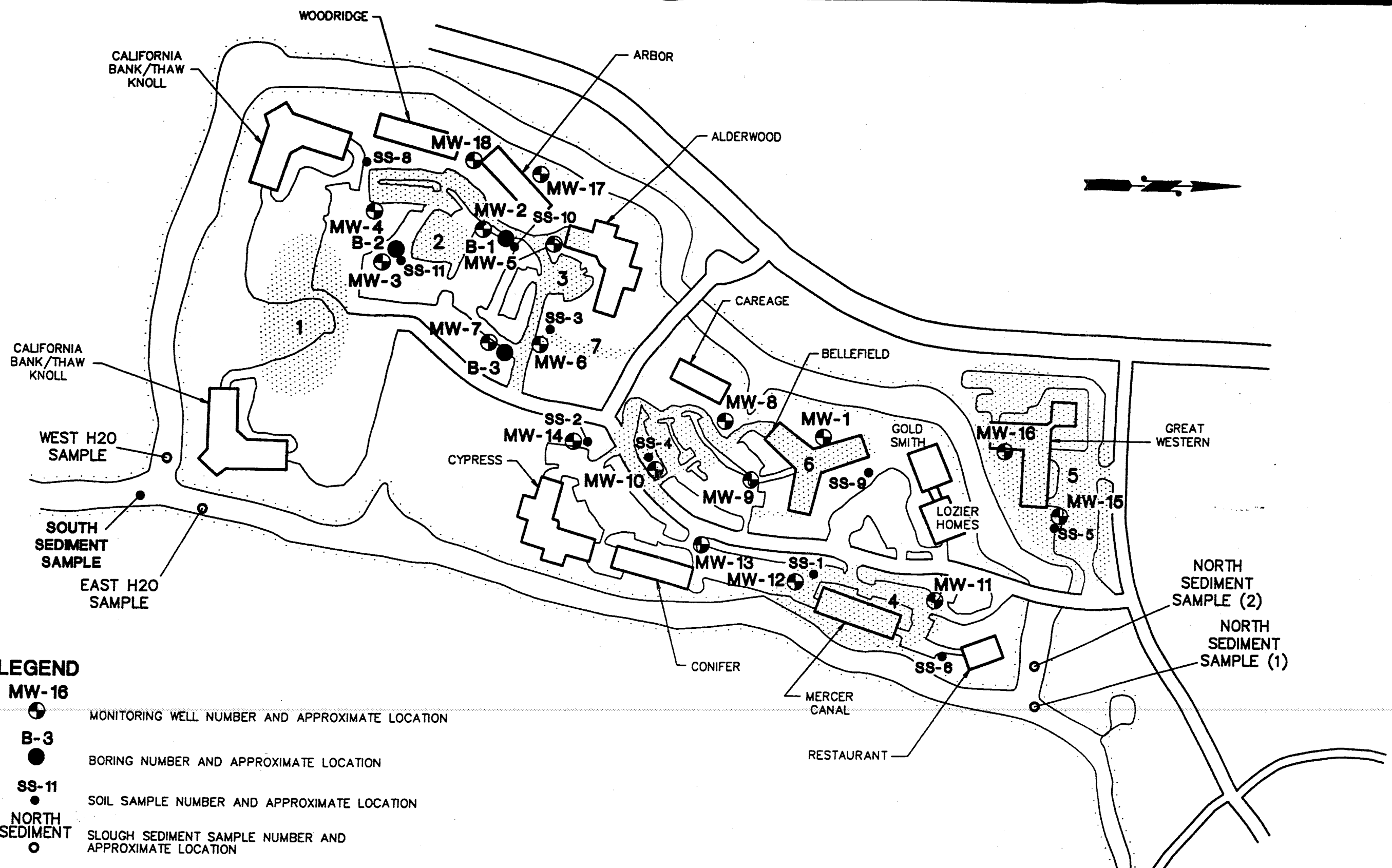
James S. Dransfield, P.E.
Senior Associate

EXPIRES 12/19/95

cc: Steve Mitchell/Great Western Bank

DSP/JSD/lad





LEGEND





- MW-16
 MONITORING WELL NUMBER AND APPROXIMATE LOCATION
- B-3
 BORING NUMBER AND APPROXIMATE LOCATION
- SS-11
 SOIL SAMPLE NUMBER AND APPROXIMATE LOCATION
- NORTH SEDIMENT
 SLOUGH SEDIMENT SAMPLE NUMBER AND APPROXIMATE LOCATION
-  SUSPECTED AREAS IDENTIFIED BY PARK MAINTENANCE

FIGURE 1

AGRA
Earth & Environmental
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 Kirkland, WA, U.S.A. 98034-6918

W.O.	11-09378-02
DESIGN	RFC
DRAWN	M.J.F.
DATE	SEP 1994
SCALE	N.T.S.

BELLEFIELD OFFICE PARK
BELLEVUE, WASHINGTON

SITE AND EXPLORATION PLAN