

#12349  
u2967

May 8, 1996

15,169.176

Mr. Gary Larson  
GTE Northwest Incorporated  
1800 41st Street WA0101LB  
Everett, Washington 98206

Dear Mr. Larson:

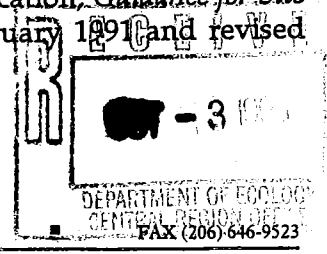
**UST Closure Site Assessment**  
GTE Leavenworth Central Office  
GTE W.O. #4380-B01-3C001AB  
Leavenworth, Washington

This letter documents site assessment actions performed by AGI Technologies (AGI) on April 4 and April 8, 1996 during removal of an underground storage tank (UST) at the GTE Central Office in Leavenworth, Washington. The site location is shown on Figure 1. AGI's services were performed in accordance with our September 21, 1995 confirming proposal.

**PURPOSE AND SCOPE**

The purpose of our services was to assess potential petroleum hydrocarbon compounds in soil in accordance with Washington Administrative Code (WAC) 173-360, UST Regulations for Site Assessment at Closure. Our specific scope of services consisted of:

- Verifying that the tank was inert before removal.
- Observing the UST removal and noting any visible signs of petroleum hydrocarbons in exposed soils.
- Conducting on-site soil screening for potential volatile organic compounds (VOCs) using an organic vapor meter equipped with a photoionization detector (OVM-PID).
- Collecting soil samples from the tank cavity and from excavated soil and submitting them to an analytical laboratory. Samples were analyzed for petroleum hydrocarbon compounds as outlined in Washington State Department of Ecology's (Ecology) publication, *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*, dated February 1991 and revised October 1992.



Mr. Gary Larson  
GTE Northwest Incorporated  
May 8, 1996  
Page 2



- Preparing a Site Check/Site Assessment Checklist and a Closure and Site Assessment Notice.
- Preparing this letter report documenting our observations, findings, and conclusions.

## SITE DESCRIPTION

The GTE Leavenworth Central Office (site) is a telephone line switching station located at 9th and Front Street in Leavenworth, Washington. Site features are shown on Figure 2. The subject property measures 105' by 30' and is relatively flat. The approximately 900-square-foot building is located in the commercial setting of downtown Leavenworth, between Front Street and an alley.

One 500-gallon steel UST was located east of the building. The tank supplied diesel fuel to an emergency backup generator located inside the building. We understand the tank was installed around 1967. We also understand that the generator will now be supplied with an aboveground tank.

The area surrounding Leavenworth is underlain by a complex assortment of metamorphosed sedimentary rocks, which have been intruded by granitic masses. Soil encountered during UST excavation was classified according to the Unified Soil Classification System. Brown, poorly graded, well-sorted sand was encountered from ground surface to the total depth of the excavation, and is considered to be fill. Groundwater was not encountered during UST removal activities.

## UST REMOVAL AND SOIL EXCAVATION

The UST was inerted and removed by Omega Services, Inc. (Omega) of Seattle, Washington on April 4, 1996. The steel UST was in good condition, with patches of oxidation corrosion and no visible holes or pits. The tank was transported off site by Omega for disposal on April 4, 1996.

During the April 4, 1996 UST removal, approximately 10 cubic yards of soil was temporarily stockpiled adjacent to the excavation. The excavation extended to a depth of approximately 8 feet bgs. On April 8, 1996, AGI returned to the site to overexcavate contaminated soil at the bottom of the UST cavity. The overexcavation extended to a depth of approximately 11 feet bgs.

Soil in the tank cavity and excavated soil were field screened for VOCs as follows: soil samples were placed in a plastic resealable bag and disaggregated; after approximately 5 minutes, an OVM-PID probe was inserted through the bag into the headspace above the soil and the maximum reading of headspace vapors was recorded. This is not a compound-specific analysis and is affected by, among other influences, climate (e.g., temperature and humidity), soil type and conditions, instrument calibration and operation, and type of petroleum hydrocarbon compounds present. The intent of this analysis is to qualitatively compare samples and assist in sample selection for chemical analysis. The OVM-PID gave no indication of VOCs for any of the soil screened at the site.

Mr. Gary Larson  
GTE Northwest Incorporated  
May 8, 1996  
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## **SAMPLE COLLECTION**

A total of 8-soil samples (LV-1 through LV-8) were collected during UST removal on April 4, 1996. Sample locations are shown on Figure 2. One sample was collected from the bottom of the tank cavity (LV-5), one sample was collected from each of the south, east, and north sidewalls (LV-6, LV-7, LV-8), and four samples were collected from the soil stockpile (LV-1 through LV-4).

On April 8, 1996, four additional samples were taken following overexcavation in the UST cavity. One sample was collected from the bottom of the tank cavity (LV-9), one sample was collected from the west sidewall of the cavity (LV-12) and two samples were collected from the piping trench running north from the tank excavation to the generator room in the Central Office (LV-10 and LV-11).

Soil samples were collected using a clean stainless steel spoon, packed in laboratory-supplied glass jars, sealed with chain-of-custody seals, labeled, and packed in a cooler chilled with Blue Ice. Soil samples were then delivered under chain-of-custody procedures to Columbia Analytical Services, Inc. in Bothell, Washington.

## **ANALYTICAL RESULTS**

All soil samples were analyzed for diesel and motor oil by the Washington State Department of Ecology WTPH-D method. The analytical results are summarized in Table 1. Chemical results were reviewed by an AGI chemist for completeness and data quality, and copies of the laboratory data and quality assurance report are attached. Petroleum hydrocarbons, quantitated as diesel and/or oil, were detected in samples LV-1 through LV-5. According to the analytical laboratory, the detections appeared to be asphalt. All four samples collected following overexcavation were below State Method A cleanup levels.

## **SOIL DISPOSITION**

All excavated soil was deemed unsuitable for backfill and was transported by Omega to Morrill Asphalt Paving Co. (Morrill) in Wenatchee, Washington, for incorporation into asphalt. Bills of Lading provided by Morrill show they received a total of 99.26 tons of soil from the Leavenworth site on the following dates: 53.68 tons on April 23; 11.09 tons on April 25; 24.61 tons on April 29; and 9.88 tons on May 1, 1996.

## **CONCLUSIONS**

Based on field observations and laboratory analytical results, no soil with diesel or oil concentrations above the Washington Method A cleanup level remain on site. No further action is required at this site.

Mr. Gary Larson  
GTE Northwest Incorporated  
May 8, 1996  
Page 4



## LIMITATIONS

This report has been prepared for exclusive use by GTE Northwest, Inc. and its consultants for this project only. The opinions and conclusions contained in this report are based on data described herein and our experience and engineering judgment. The referenced data were made available or were reasonably obtained by us within the practical constraints and scope of this site assessment. We cannot be responsible for interpretation or extrapolation by others of data contained herein, except as expressly stated in our opinions and conclusions.

AGI's services were performed with due diligence in a manner consistent with the current standard of care and skill ordinarily exercised by members of the engineering profession practicing under similar conditions in the project area. No other warranty, express or implied, is made. Due diligence, as applied to site assessments and as used herein, is specifically limited to this standard of care. AGI cannot be responsible for a more stringent due diligence standard that may exist in the future or be required of you in the future by a court of law or other parties.

Sincerely,

AGI Technologies

A handwritten signature in black ink, appearing to read "Lief Christenson".

Lief Christenson, P.G.  
Project Geologist

A handwritten signature in black ink, appearing to read "Gary L. Laakso".

Gary L. Laakso  
Remediation Services Manager

LGC/GLL/tag

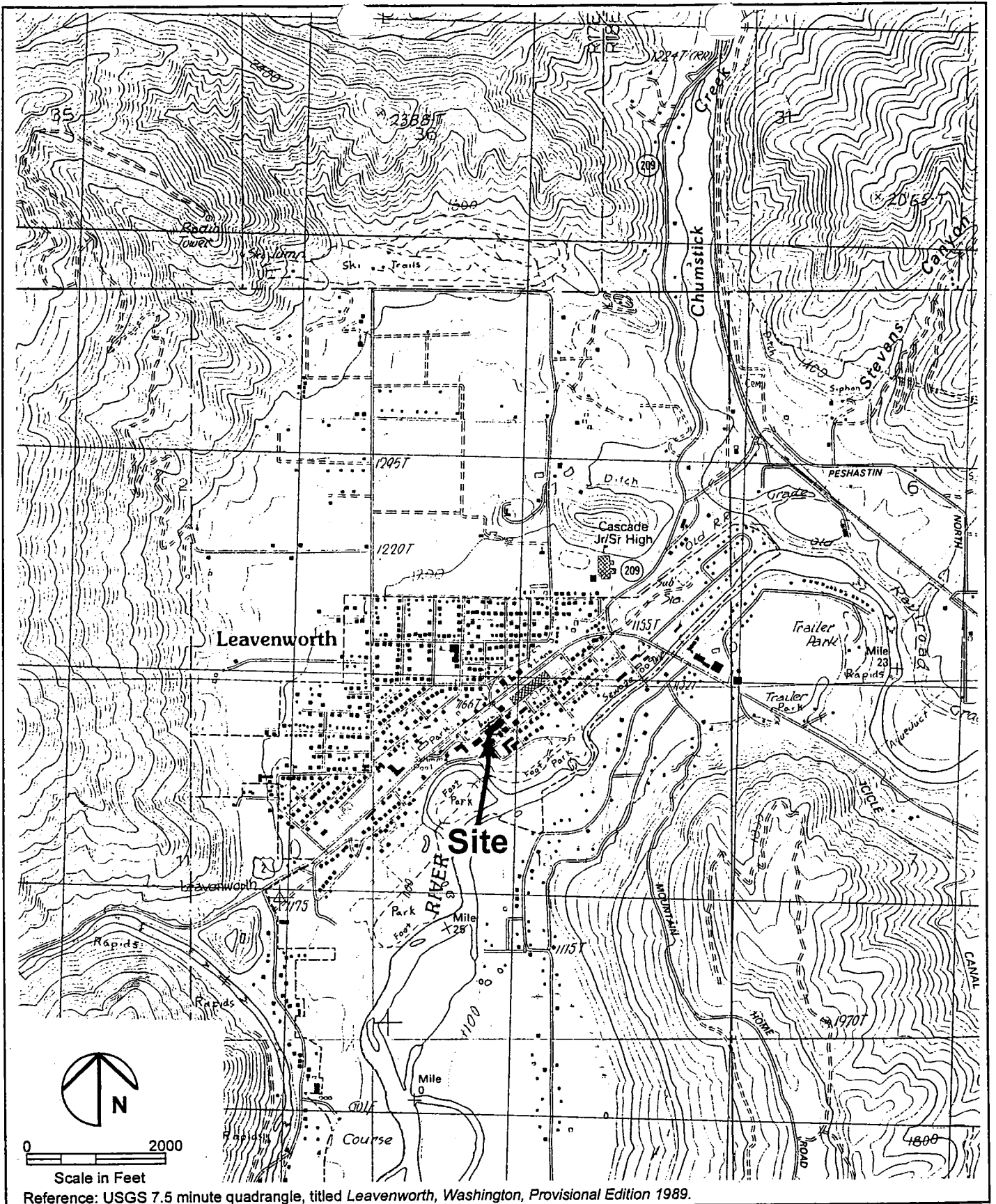
attachments

**Table 1**  
**Summary of Analytical Results - Soil**  
 GTE/Leavenworth Central Office  
 Leavenworth, Washington

Sample I.D.	Approx. Sample Depth (ft bgs)	Date Sampled	Washington State Test Method	
			WTPH-D	
			Diesel mg/kg	Oil mg/kg
LV-S1	Stockpile	04/04/96	36	ND
LV-S2	Stockpile	04/04/96	60	380
LV-S3	Stockpile	04/04/96	38	230
LV-S4	Stockpile	04/04/96	31	240
LV-S5	8	04/04/96	51	560
LV-S6	7	04/04/96	ND	ND
LV-S7	7	04/04/96	ND	ND
LV-S8	7	04/04/96	ND	160
LV-S9	11	04/08/96	30	ND
LV-S10	4	04/08/96	36	ND
LV-S11	4	04/08/96	ND	ND
LV-S12	8	04/08/96	ND	ND
Laboratory Detection Limit			25	100
State Cleanup Levels <sup>a</sup>			200	200

Notes:

- a) Method A suggested cleanup level for residential soil promulgated under Washington Administrative Code Chapter 173-340, Washington Model Toxics Control Act Cleanup Regulation.
- ft bgs - Feet below ground surface.  
 mg/kg - Milligrams per kilogram.  
 ND - Not detected.  
 WTPH-D - Total petroleum hydrocarbons quantified as diesel.



**AGI**  
TECHNOLOGIES

169176vm.cdr

PROJECT NO.  
15,169.176

DRAWN  
ALW

DATE  
1 May 96

APPROVED  
*[Signature]*

REVISED

DATE

### Vicinity Map

GTE/Leavenworth Central Office  
Leavenworth, Washington

FIGURE

**1**

FRONT STREET

GTE CENTRAL OFFICE

PROPERTY LINE

GENERATOR ROOM

LV-S10

TRENCH EXCAVATION FOR NEW PRODUCT PIPING

LV-S11

LEGEND

LV-S6 • Soil sample number and approximate location

LV-S8

LV-S7

LV-S6, LV-S9



Scale in Feet

LIMITS OF UST EXCAVATION

LV-S6  
LV-S12

FORMER 500-GAL. DIESEL UST

**AGI**  
TECHNOLOGIES

**Site Plan**

GTE/Leavenworth Central Office  
Leavenworth, Washington

FIGURE

**2**

167176sp.dwg

PROJECT NO.  
15,169.176

DRAWN  
ALW

DATE  
1 Mar 96

APPROVED  
*[Signature]*

REVISED

DATE

**QUALITY ASSURANCE REPORT**

**PROJECT AND SAMPLE INFORMATION**

Project Name: GTE/Leavenworth C.O.  
 Project No.: 15,169.176  
 Lab Name: Columbia Analytical Services (CAS) - Bothell, WA  
 Lab Number: B9600260, B9600270  
 Sample No.: LV-S1, LV-S2, LV-S3, LV-S4, LV-S5, LV-S6, LV-S7, LV-S8, LV-S9, LV-S10, LV-S11, LV-S12  
 Matrix: Soil

QUALITY ASSURANCE SUMMARY

All data are of known quality and acceptable for use.

ANALYTICAL METHODS

<u>Parameter</u>	<u>Technique</u>	<u>Method</u>
Diesel and Oil Range Fuel Hydrocarbons (TPH-D)	GC/FID	WTPH-D Extended

TIMELINESS

<u>Parameter</u>	<u>Date Sampled</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Time Until Extraction</u>	<u>Time Until Analysis</u>
TPH-D	04/04/96	04/04/96	04/06/96	0 (14)	2 (30)
TPH-D	04/08/96	04/08/96	04/09/96	0 (14)	1 (30)

( ) - Numbers in parentheses indicate recommended holding times in days.

All samples were extracted and analyzed within recommended holding times.

FUEL HYDROCARBON CHROMATOGRAMS

WTPH-D Extended: Both diesel and oil range FHC were detected in samples LV-S2, LV-S3, LV-S4, and LV-S5; diesel range FHC were detected in samples LV-S1, LV-S9, and LV-S10. These reported detections are consistent with sample chromatograms.



April 10, 1996

Service Request No.: B9600260

Lief Christenson  
AGI Technologies  
P.O. Box 3885  
Bellevue, WA 98009

**RECEIVED**

APR 11 1996

**AGI Technologies**

Re: GTE - Leavenworth C.O./Project #15169.176

Dear Lief:

Attached are the results of the sample(s) submitted to our laboratory on April 4, 1996. For your reference, these analyses have been assigned our service request number B9600260.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results only apply to samples analyzed.

Please call if you have any questions.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

A handwritten signature in black ink, appearing to read "Colin B. Elliott". The signature is written in a cursive, slightly slanted style.

Colin B. Elliott  
Laboratory Manager

CBE/bdr

Page 1 of 7

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AGI Technologies, Inc.  
Project: GTE/Leavenworth C.O.  
LCS Matrix: Soil

Service Request: B9600260  
Date Collected: NA  
Date Received: NA  
Date Extracted: 4/4/96  
Date Analyzed: 4/6/96

Laboratory Control Sample Summary  
Total Petroleum Hydrocarbons as Diesel and Oil  
Washington DOE Method WTPH-D  
Units: mg/Kg (ppm)

Analyte	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
Diesel	302	300	99	83-119

Approved By: \_\_\_\_\_

*Chris Elliott*

Date: \_\_\_\_\_

*4/10/96*

Laboratory Number: B96-260

### PROJECT INFORMATION

Project Manager: LIEF CHRISTENSEN  
 Project Name: GTE/LEAVENWORTH C.D.  
 Project Number: 15169, 176  
 Site Location: LEAVENWORTH, WA Sampled By: LG

### DISPOSAL INFORMATION

Lab Disposal (return if not indicated)  
 Disposal Method: \_\_\_\_\_  
 Disposed by: \_\_\_\_\_ Disposal Date: \_\_\_\_\_

### QC INFORMATION (check one)

SW-846  CLP  Screening  AGI Std.  Special

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
LV-S1	4/4/96	0905	Soil	260-1
LV-S2		0915		-2
LV-S3		0920		-3
LV-S4		0925		-4
LV-S5		1030		-5
LV-S6		1035		-6
LV-S7		1040		-7
LV-S8		1045		-8

### ANALYSIS REQUEST

PETROLEUM HYDROCARBONS	ORGANIC COMPOUNDS	PESTS/PCB's	METALS	LEACHING TESTS	OTHER
8015M	DWS - Volatiles and Semivol.	DWS - Herb/pest	MFSP - Metals (Wa)	TCLP - Metals	
418.1 State:	8040 Phenols	8150 OC Herbicides	DWS - Metals	TCLP - Pesticides	
TPH Special Instructions	8310 HPLC PAHs	8140 OP Pesticides	Priority Poll. Metals (13)	TCLP - Semivolatiles	
TPH-D State: <u>WA</u>	8270 GCMS Semivol.	8080M PCBs only	TCL Metals (23)	TCLP - Volatiles (ZHE)	
TPH-G State:	8240 GCMS Volatiles	8080 OC Pest/PCBs	Organic Lead (Ca)		
TPH-ID State:	8020M - BETX only		Total Lead (Wa)		
	8020 Aromatic VOCs		Selected metals: list		
	8010 Halogenated VOCs				

LAB INFORMATION	SAMPLE RECEIPT	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Lab Name: <u>CAS</u>	Total Number of Containers: <u>8</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>
Lab Address: <u>BOTHELL, WA</u>	Chain of Custody Seal: <u>Y/N/A</u>	Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>
Via: <u>LG</u>	Intact?: <u>Y/N/A</u>	Date: <u>4/4/96</u>	Date: <u>[Date]</u>	Date: <u>[Date]</u>
Turn Around Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 1 wk.	Received in Good Condition/Cold: <u>yes.</u>	Company: <u>AGI</u>	Company: <u>[Company]</u>	Company: <u>[Company]</u>
<b>PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA</b>		RECEIVED BY: <u>[Signature]</u>	RECEIVED BY: <u>[Signature]</u>	RECEIVED BY: <u>[Signature]</u>
Special Instructions:		Date: <u>4/4/96</u>	Date: <u>[Date]</u>	Date: <u>[Date]</u>
		Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>
		Company: <u>CAS</u>	Company: <u>[Company]</u>	Company: <u>[Company]</u>

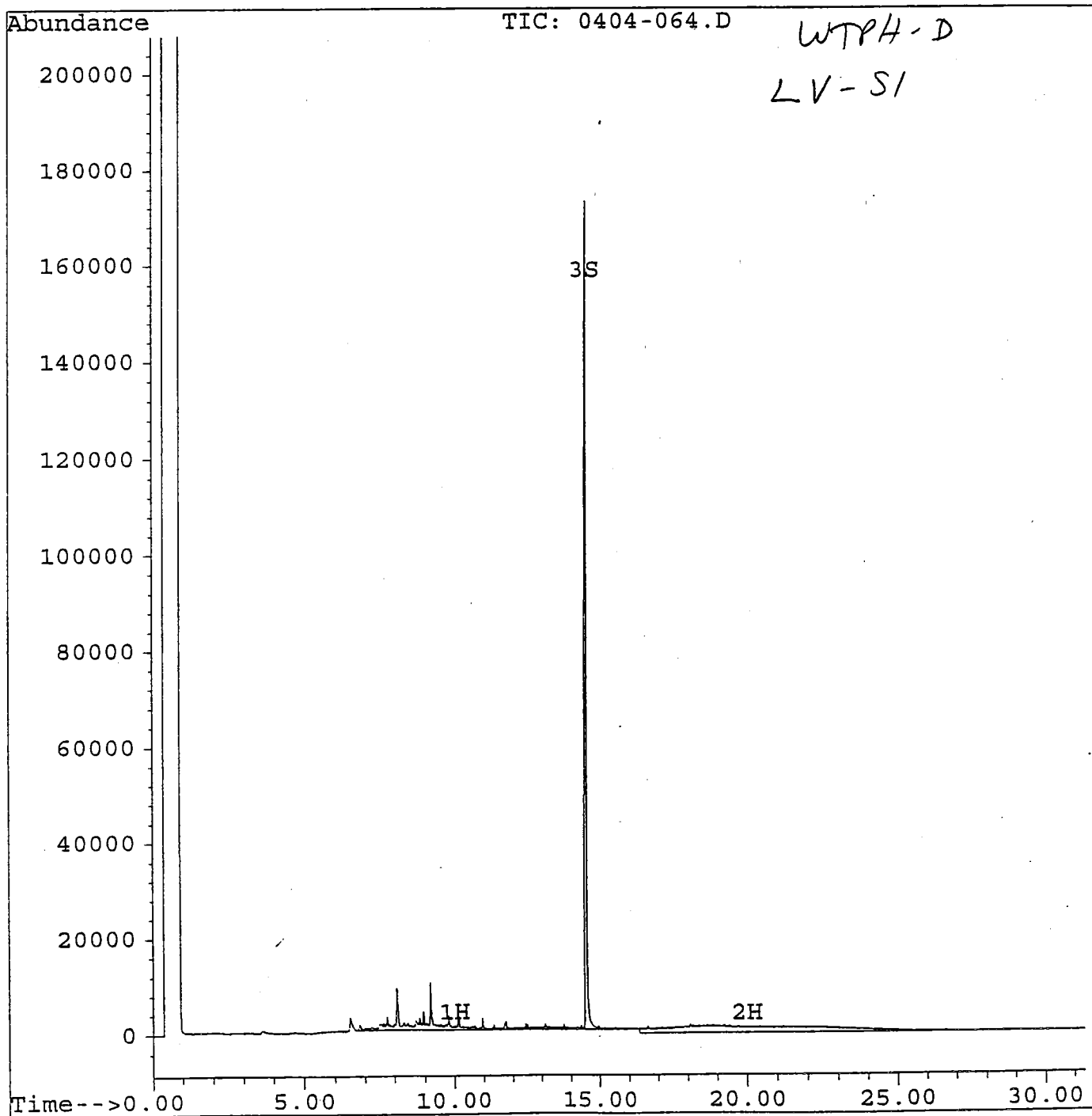
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Acq On : 06 Apr 96 05:23 AM  
Sample : 260-1RR  
Misc : 18.8  
Quant Time: Apr 8 3:28 1996

Vial: 19  
Operator:  
Inst : DIESEL  
Multiplr: 1.00

Method : C:\HPCHEM\DIESEL\METHODS\040496.M  
Title : Calibration for WTPH-D 1/12/95  
Last Update : Thu Apr 04 10:08:27 1996  
Response via : Single Level Calibration

Volume Inj. : 2uL autoinjection on injector A  
Signal Phase : Rtx5 x 30m x 0.53mm x 0.50um film  
Signal Info : Flame Ionization Detector



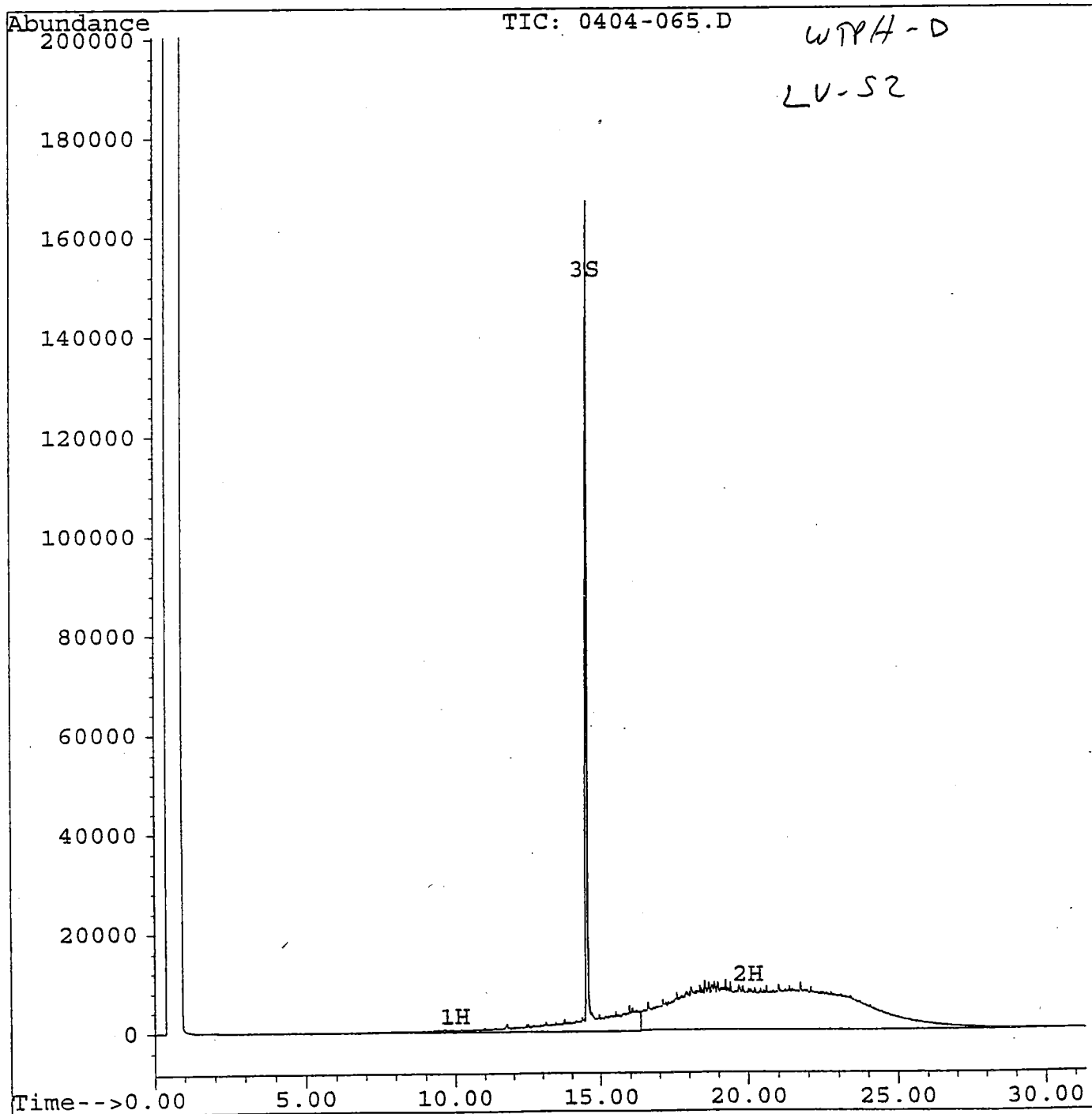
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Acq On : 06 Apr 96 06:03 AM  
Sample : 260-2RR  
Misc : 19.0  
Quant Time: Apr 8 3:30 1996

Vial: 20  
Operator:  
Inst : DIESEL  
Multiplr: 1.00

Method : C:\HPCHEM\DIESEL\METHODS\040496.M  
Title : Calibration for WTPH-D 1/12/95  
Last Update : Thu Apr 04 10:08:27 1996  
Response via : Single Level Calibration

Volume Inj. : 2uL autoinjection on injector A  
Signal Phase : Rtx5 x 30m x 0.53mm x 0.50um film  
Signal Info : Flame Ionization Detector



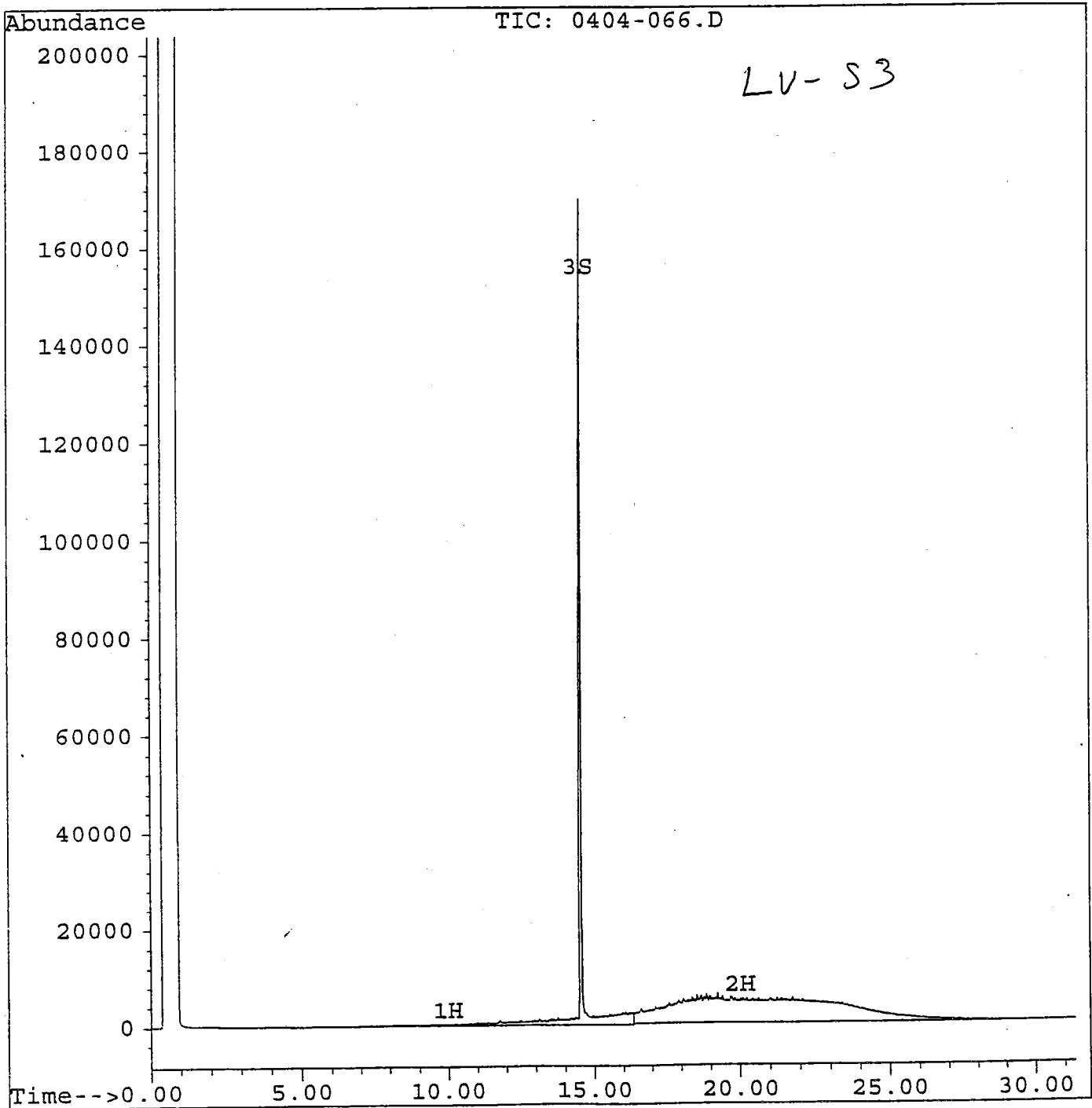
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Sample : 260-3RR  
Misc : 18.8  
Quant Time: Apr 8 3:43 1996

Vial: 21  
Operator:  
Inst : DIESEL  
Multiplr: 1.00

Method : C:\HPCHEM\DIESEL\METHODS\040496.M  
Title : Calibration for WTPH-D 1/12/95  
Last Update : Thu Apr 04 10:08:27 1996  
Response via : Single Level Calibration

Volume Inj. : 2uL autoinjection on injector A  
Signal Phase : Rtx5 x 30m x 0.53mm x 0.50um film  
Signal Info : Flame Ionization Detector



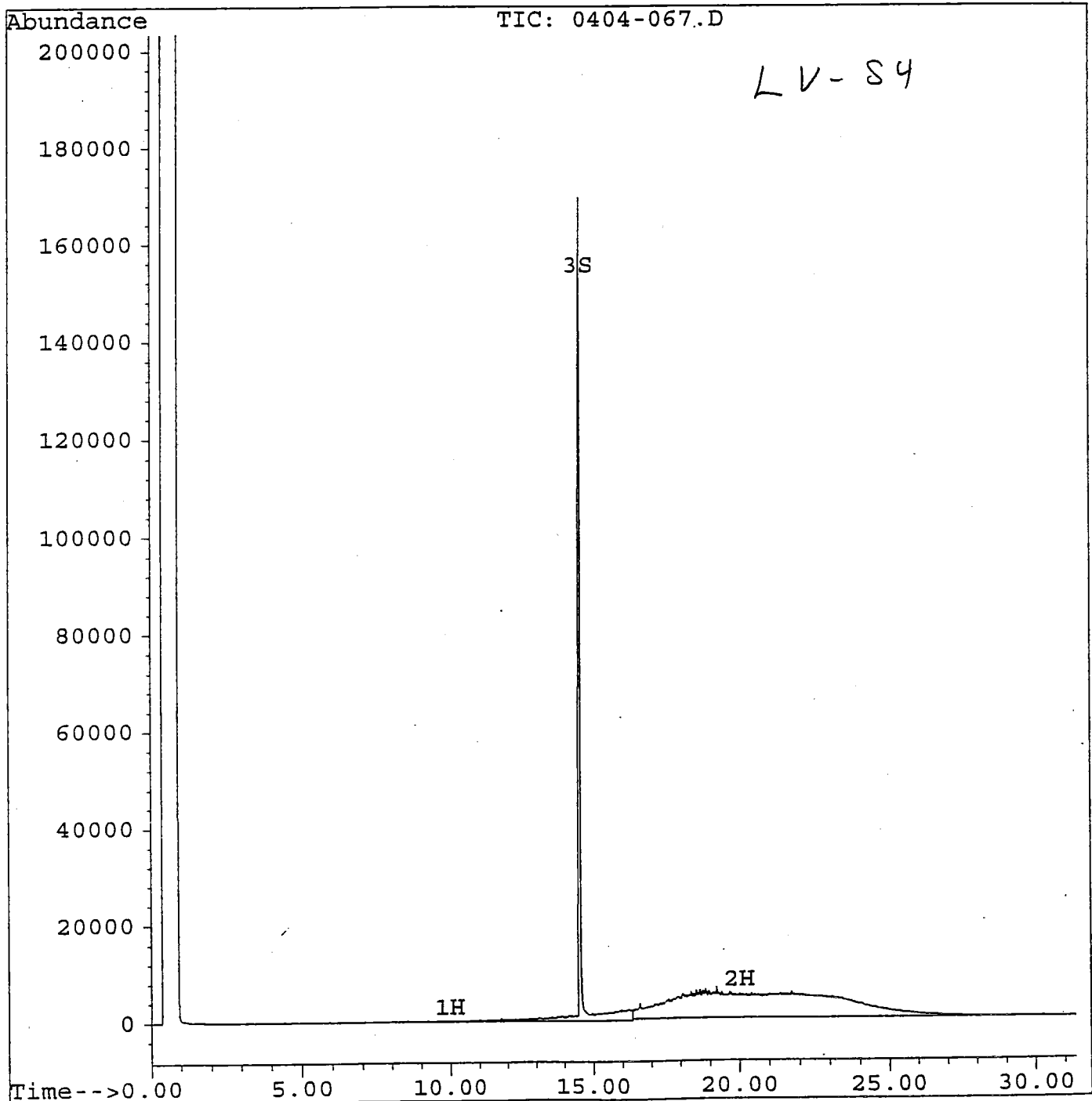
Quantitation Report

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Acq On : 06 Apr 96 07:21 AM  
Sample : 260-4RR  
Misc : 18.4  
Quant Time: Apr 8 3:44 1996

Vial: 22  
Operator:  
Inst : DIESEL  
Multiplr: 1.00

Method : C:\HPCHEM\DIESEL\METHODS\040496.M  
Title : Calibration for WTPH-D 1/12/95  
Last Update : Thu Apr 04 10:08:27 1996  
Response via : Single Level Calibration

Volume Inj. : 2uL autoinjection on injector A  
Signal Phase : Rtx5 x 30m x 0.53mm x 0.50um film  
Signal Info : Flame Ionization Detector



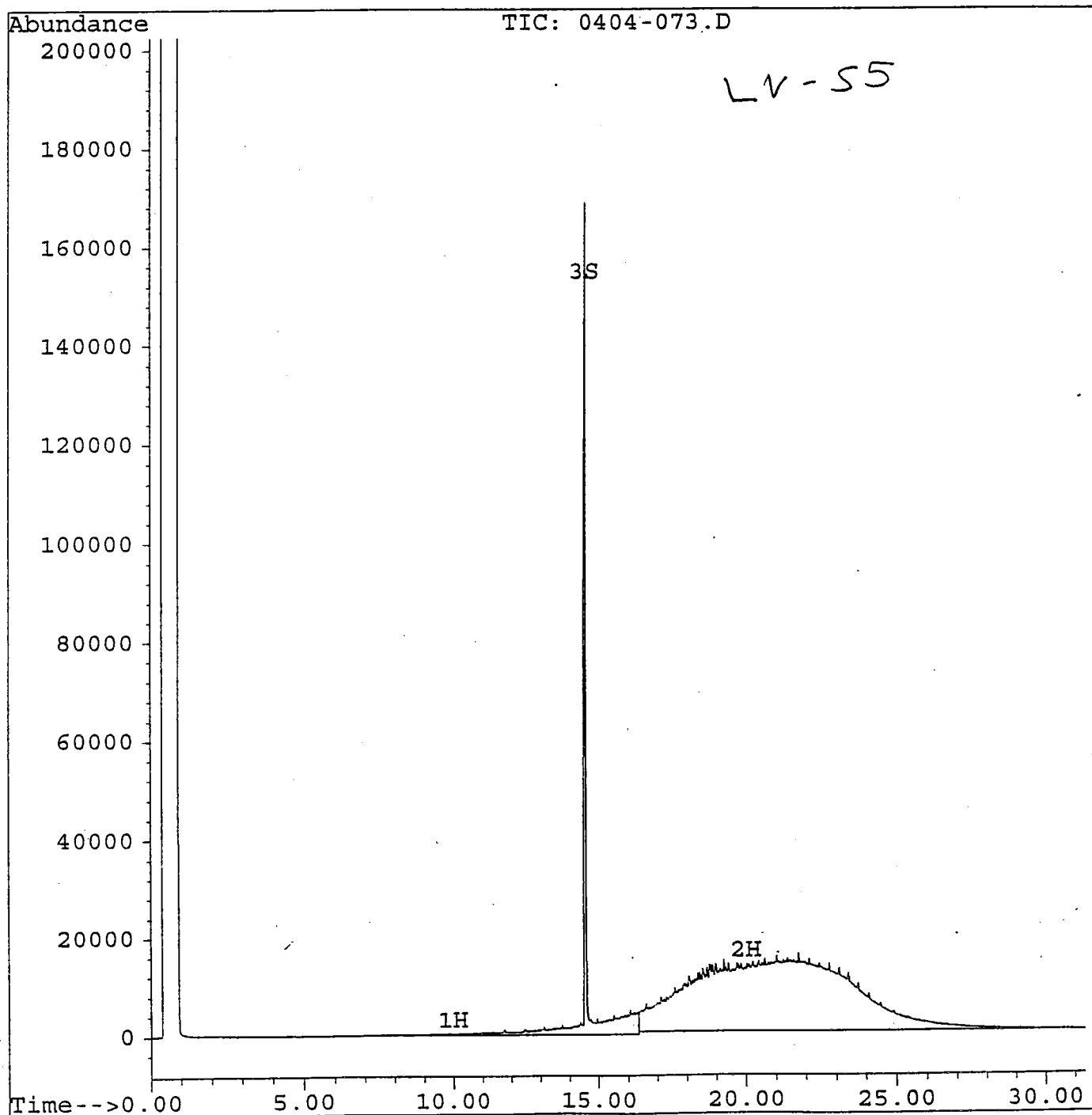
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Acq On : 06 Apr 96 11:16 AM  
Sample : 260-5RR  
Misc : 18.3  
Quant Time: Apr 8 4:51 1996

Vial: 28  
Operator:  
Inst : DIESEL  
Multiplr: 1.00

Method : C:\HPCHEM\DIESEL\METHODS\040496.M  
Title : Calibration for WTPH-D 1/12/95  
Last Update : Thu Apr 04 10:08:27 1996  
Response via : Single Level Calibration

Volume Inj. : 2uL autoinjection on injector A  
Signal Phase : Rtx5 x 30m x 0.53mm x 0.50um film  
Signal Info : Flame Ionization Detector



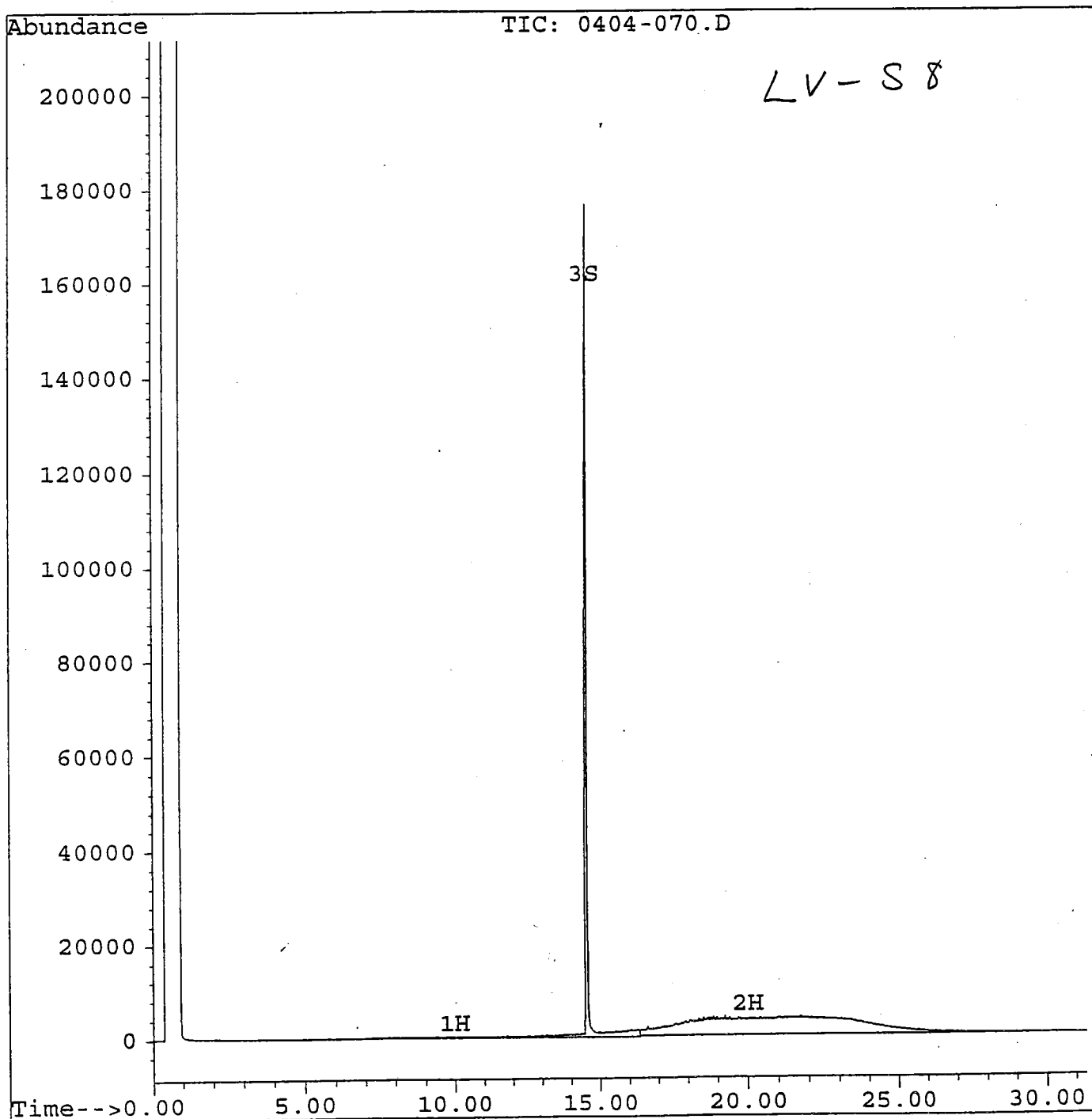
Quantitation Report

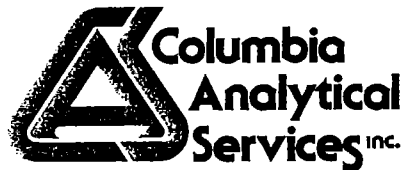
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Sample : 260-8RR  
Misc : 19.6  
Quant Time: Apr 8 4:48 1996

Vial: 25  
Operator:  
Inst : DIESEL  
Multiplr: 1.00

Method : C:\HPCHEM\DIESEL\METHODS\040496.M  
Title : Calibration for WTPH-D 1/12/95  
Last Update : Thu Apr 04 10:08:27 1996  
Response via : Single Level Calibration

Volume Inj. : 2uL autoinjection on injector A  
Signal Phase : Rtx5 x 30m x 0.53mm x 0.50um film  
Signal Info : Flame Ionization Detector





April 12, 1996

Service Request No.: B9600270

Lief Christenson  
AGI Technologies  
P.O. Box 3885  
Bellevue, WA 98009

**RECEIVED**

APR 15 1996

**AGI Technologies**

Re: GTE - Leavenworth/Project #15169.176

Dear Lief:

Attached are the results of the sample(s) submitted to our laboratory on April 8, 1996. Preliminary results were transmitted via facsimile on April 9, 1996. For your reference, these analyses have been assigned our service request number B9600270.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results only apply to samples analyzed.

Please call if you have any questions.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

A handwritten signature in black ink, appearing to read "Colin B. Elliott". The signature is written in a cursive, somewhat stylized script.

Colin B. Elliott  
Laboratory Manager

CBE/bdr

Page 1 of 7

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: AGI Technologies, Inc.  
Project: GTE/Leavenworth  
Sample Matrix: Soil

Service Request: B9600270  
Date Collected: 4/8/96  
Date Received: 4/8/96  
Date Extracted: 4/8/96  
Date Analyzed: 4/9/96

Total Petroleum Hydrocarbons as Diesel and Oil  
Washington DOE Method WTPH-D  
Units: mg/Kg (ppm)  
Dry Weight Basis

Sample Name	Lab Code	Analyte: Method Reporting Limit:	Diesel 25	Oil* 100
LV-S9	B9600270-01		30(a)	ND
LV-S10	B9600270-02(b)		36(a)	ND
LV-S11	B9600270-03		ND	ND
LV-S12	B9600270-04		ND	ND
Method Blank	B9600270-SB		ND	ND

- \* Quantified using 30-weight motor oil as a standard.
- (a) Quantified as diesel. The sample contained components that eluted in the diesel range, but the chromatogram did not match the typical diesel fingerprint.
- (b) Result is from an analysis performed on 4/10/96.

Approved By: \_\_\_\_\_

*Al. Elliott*

Date: \_\_\_\_\_

*4/12/96*

**COLUMBIA ANALYTICAL SERVICES, INC.**

**QA/QC Report**

**Client:** AGI Technologies, Inc.  
**Project:** GTE/Leavenworth  
**Sample Matrix:** Soil

**Service Request:** B9600270  
**Date Collected:** 4/8/96  
**Date Received:** 4/8/96  
**Date Extracted:** 4/8/96  
**Date Analyzed:** 4/9/96

**Surrogate Recovery Summary**  
**Total Petroleum Hydrocarbons as Diesel and Oil**  
**Washington DOE Method WTPH-D**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Percent Recovery p-Terphenyl</b>
LV-S9	B9600270-01	77
LV-S10	B9600270-02	91 (b)
LV-S11	B9600270-03	89
LV-S12	B9600270-04	87
Method Blank	B9600270-SB	109
Lab Control Sample	B9600270-LCS	106

**CAS Acceptance Limits: 74-117**

(b) **Result is from an analysis performed on 4/10/96.**

**Approved By:** John Elliott **Date:** 4/12/96

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: AGI Technologies, Inc.  
Project: GTE/Leavenworth  
Sample Matrix: Soil

Service Request: B9600270  
Date Collected: NA  
Date Received: NA  
Date Extracted: 4/8/96  
Date Analyzed: 4/9/96

Duplicate Summary  
Total Petroleum Hydrocarbons as Diesel and Oil  
Washington DOE Method WTPH-D  
Units: mg/Kg (ppm)  
Dry Weight Basis

Sample Name: Batch QC  
Lab Code: B9600269-02

Analyte	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	CAS RPD Acceptance Limit
Diesel	25	1300	1280	1290	2	40
Oil	100	ND	ND	-	-	40

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

4/12/96



**COLUMBIA ANALYTICAL SERVICES, INC.**

**QA/QC Report**

**Client:** AGI Technologies, Inc.  
**Project:** GTE/Leavenworth  
**LCS Matrix:** Soil

**Service Request:** B9600270  
**Date Collected:** NA  
**Date Received:** NA  
**Date Extracted:** 4/8/96  
**Date Analyzed:** 4/9/96

Laboratory Control Sample Summary  
Total Petroleum Hydrocarbons as Diesel and Oil  
Washington DOE Method WTPH-D  
Units: mg/Kg (ppm)

Analyte	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
Diesel	302	350	116	83-119

Approved By: \_\_\_\_\_

*Ch. Elliott*

Date: 4/12/96

Laboratory Number: B7C-270

### PROJECT INFORMATION

Project Manager: Zief Christensen  
Project Name: GTE Lewisworth  
Project Number: 15/69.176  
Site Location: \_\_\_\_\_  
Sampled By: SB

### DISPOSAL INFORMATION

Lab Disposal (return if not indicated)  
Disposal Method: \_\_\_\_\_  
Disposal Date: \_\_\_\_\_

### QC INFORMATION (check one)

SW-846  CLP  Screening  AGI Std.  Special

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
LV-S9	4/8/96	10:00	Soil	
LV-S10		10:45		
LV-S11		10:55		
LV-S12		11:40		

### ANALYSIS REQUEST

PETROLEUM HYDROCARBONS	ORGANIC COMPOUNDS	PESTS/PCBS	METALS	LEACHING TESTS	OTHER	NUMBER OF CONTAINERS
WTPH-HCID	8010 Halogenated VOCs	8080 OC Pest/PCBs	DWS - Metals (Wa)	TCLP - Volatiles (ZHE)		
WTPH-G	8020 Aromatic VOCs	8140 OP Pesticides	MFSP - Metals (23)	TCLP - Semivolatiles		
WTPH-D	8020M - BETX only	8150 OC Herbicides	Priority Poll. Metals (13)	TCLP - Pesticides		
WTPH-418.1	8240 GC/MS Volatiles	DWS - Herb/Pest	DWS - Metals (13)			
8015M Fuel Hydrocarbon	8270 GC/MS Semivolatiles	Selected Metals: list	Organic Lead (Ca)			
TPH Special Instructions	8310 PAHs	8040 Phenols	TCL Metals (23)			
	8040 Phenols	DWS - Volatiles and Semivolatiles	Priority Poll. Metals (13)			
			DWS - Metals (Wa)			
			MFSP - Metals (23)			
			Priority Poll. Metals (13)			
			DWS - Metals (13)			
			Organic Lead (Ca)			
			Selected Metals: list			
			DWS - Herb/Pest			
			8150 OC Herbicides			
			8140 OP Pesticides			
			8080M PCBs only			
			8080 OC Pest/PCBs			

### LAB INFORMATION

Lab Name: CAS  
Lab Address: Bethel WA  
Via: Hand deliver  
Turn Around Time:  Standard  24 hr.  48 hr.  72 hr.  1 wk.

### SAMPLE RECEIPT

Total Number of Containers: 4  
Chain-of-Custody Seals: YNNA  
Intact? YNNA  
Received in Good Condition/Cold: Yes

### PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA

Special Instructions:

### RELINQUISHED BY: 1.

Signature: Shawn Beers Time: 3:21  
Printed Name: Shawn Beers Date: 4/8  
Company: \_\_\_\_\_

### RELINQUISHED BY: 2.

Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Company: \_\_\_\_\_

### RELINQUISHED BY: 3.

Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Company: \_\_\_\_\_

### RECEIVED BY: 1.

Signature: Shawn Beers Time: 15:41  
Printed Name: Shawn Beers Date: 4/8/96  
Company: CAS

### RECEIVED BY: 2.

Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Company: \_\_\_\_\_

### RECEIVED BY: 3.

Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Company: \_\_\_\_\_

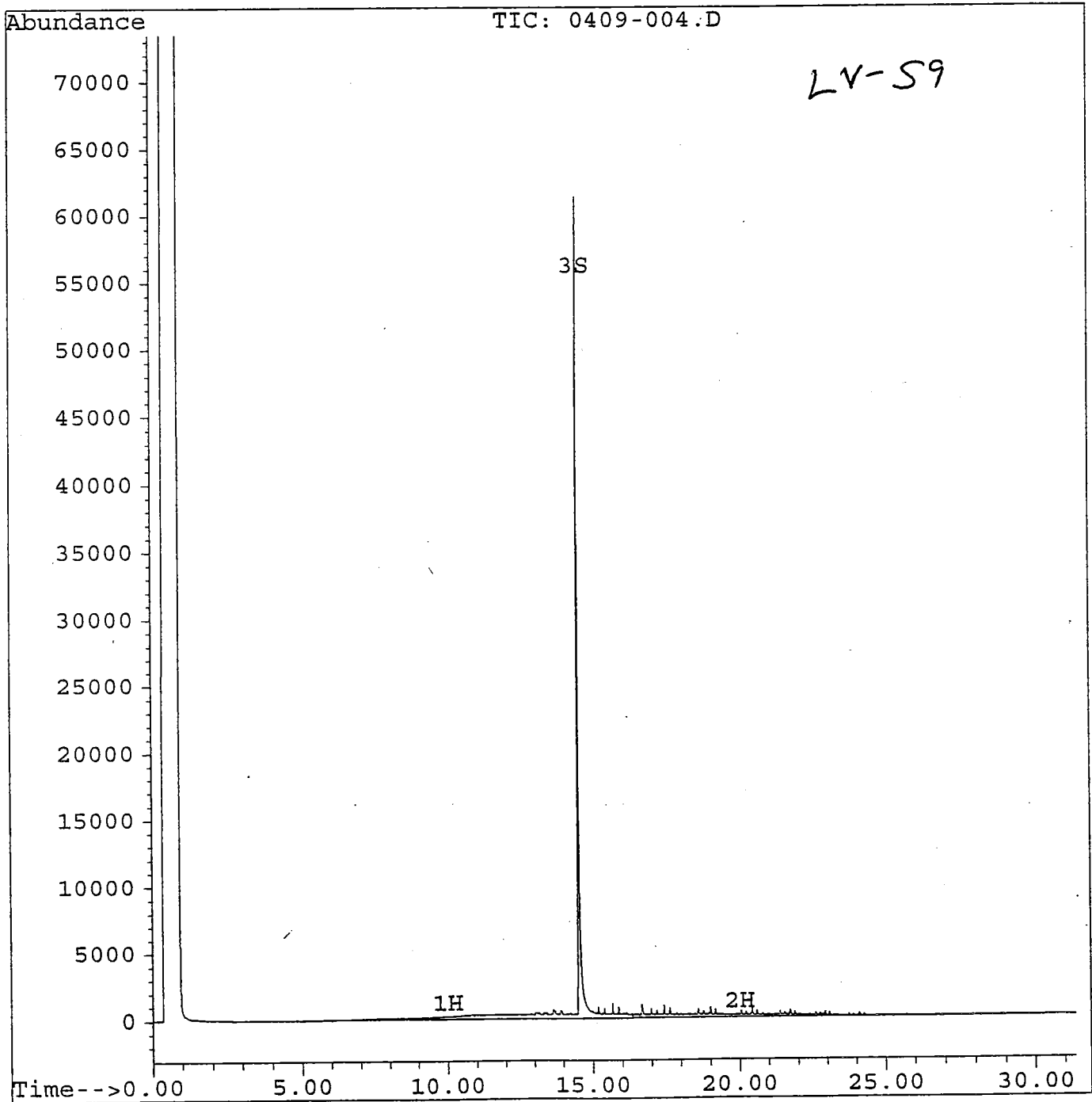
Quantitation Report

Data File : C:\HPCHEM\DIESEL\DATA\040996\0409-004.D  
Acq On : 09 Apr 96 00:52 AM  
Sample : 270-1  
Misc : 19.2  
Quant Time: Apr 9 13:09 1996

Vial: 5  
Operator:  
Inst : DIESEL  
Multiplr: 1.00

Method : C:\HPCHEM\PCB\METHODS\040996.M  
Title : Calibration for WTPH-D 1/12/95  
Last Update : Tue Apr 09 13:05:53 1996  
Response via : Single Level Calibration

Volume Inj. : 2uL autoinjection on injector A  
Signal Phase : Rtx5 x 30m x 0.53mm x 0.50um film  
Signal Info : Flame Ionization Detector



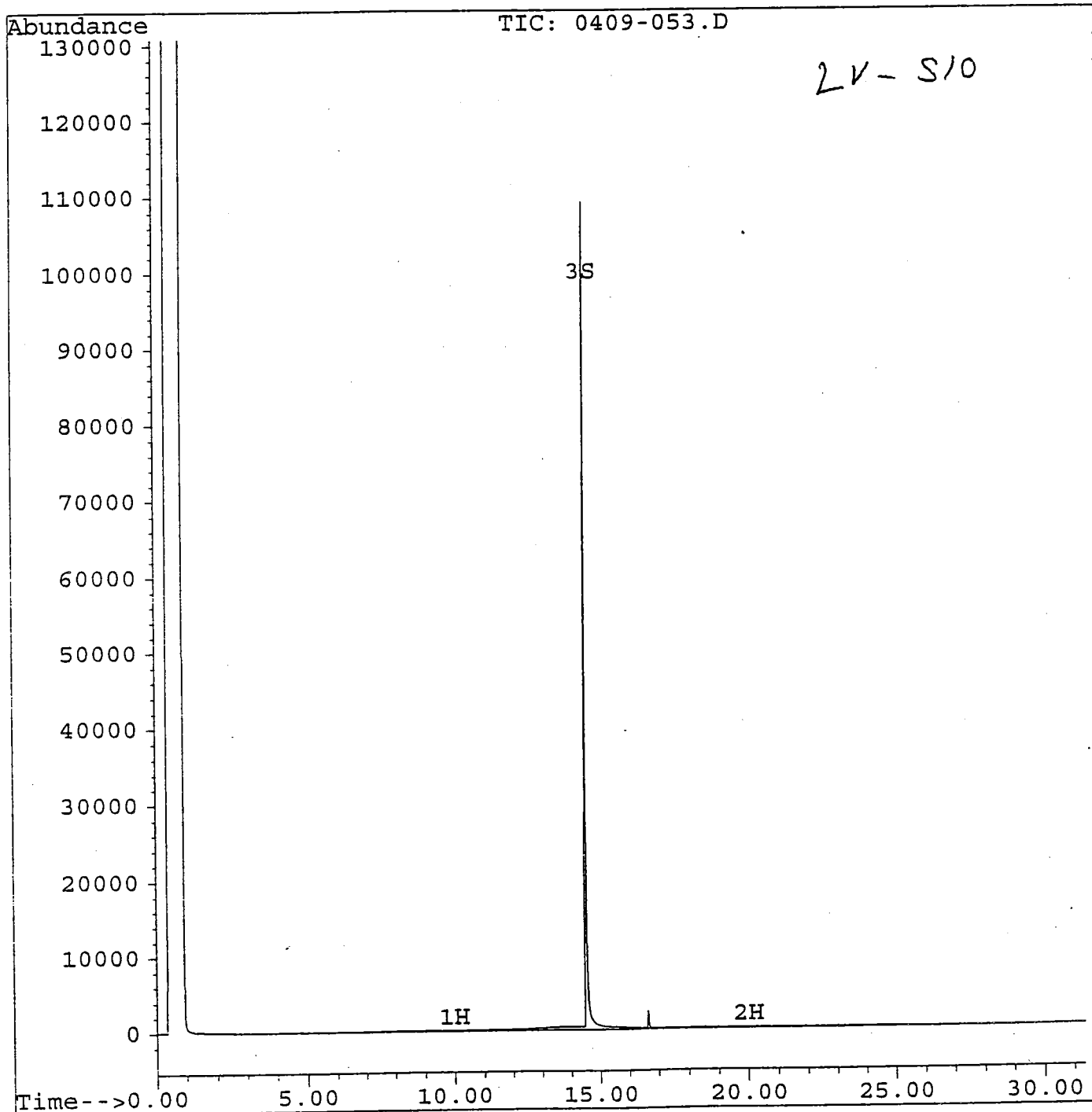
Quantitation Report

Data File : C:\HPCHEM\ESEL\DATA\040996\0409-053  
Acq On : 10 Apr 96 02:15 PM  
Sample : 270-2RE  
Misc : 16.9  
Quant Time: Apr 10 15:26 1996

Vial: 39  
Operator:  
Inst : DIESEL  
Multiplr: 1.00

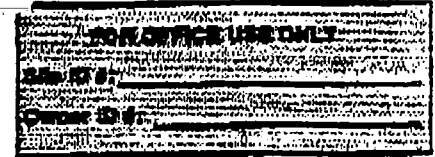
Method : C:\HPCHEM\PCB\METHODS\040996.M  
Title : Calibration for WTPH-D 1/12/95  
Last Update : Tue Apr 09 13:05:53 1996  
Response via : Single Level Calibration

Volume Inj. : 2uL autoinjection on injector A  
Signal Phase : Rtx5 x 30m x 0.53mm x 0.50um film  
Signal Info : Flame Ionization Detector





# UNDERGROUND STORAGE TANK Closure and Site Assessment Notice



See back of form for instructions

Please  the appropriate box(es)  
 Temporary Tank Closure  Change-in-Service  Permanent Tank Closure  Site Check/Site Assessment

### Site Information

### Owner Information

(This form will be returned to this address)

Site ID Number 012349

UST Owner/Operator GTE NORTHWEST INC.

(Available from Ecology if the tanks are registered)

Site/Business Name GTE/LEAVENWORTH CENTRAL OFFICE

Mailing Address 1800 41<sup>ST</sup> STREET

Site Address 9<sup>TH</sup> AND FRONT

WA 01011B

City/State LEAVENWORTH, WA

City/State EVERETT, WA

Zip Code \_\_\_\_\_ Telephone (\_\_\_\_) \_\_\_\_\_

Zip Code 98206 Telephone (206) 261-6312

Owner's Signature [Signature]

### Tank Closure/Change-in-Service Company

Service Company Omega Services

Certified Supervisor Karen Say

Decommissioning Certification No. 73192

Supervisor's Signature [Signature]

Address 3214 10<sup>th</sup> Ave SW

City Seattle State WA

P.O. Box 98134 Telephone (206) 682-2440

### Site Check/Site Assessor

Certified Site Assessor LIEF CHRISTENSEN, AGI TECHNOLOGIES

Address 300 120<sup>th</sup> Ave NE

City BELLEVUE State WA

P.O. Box \_\_\_\_\_ Zip Code 98005 Telephone (206) 453-8383

### Tank Information

### Contamination Present at the Time of Closure

Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored
<u>4380-B01</u>	<u>4/4/96</u>	<u>REMOVAL</u>	<u>500 gal</u>	<u>DIESEL</u>

Yes  No  Unknown  
 Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

Yes  No  
 If contamination is present, has the release been reported to the appropriate regional office?



# UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

For Office Use Only	
Owner #	_____
Site #	_____

## INSTRUCTIONS:

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with the Department of Ecology. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

**SITE INFORMATION:** Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

**TANK INFORMATION:** Please list all the tanks for which the site check and site assessment is being conducted. Use the tank ID number if available, and indicate tank capacity and substance stored.

**REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT:** Please check the appropriate item.

**CHECKLIST:** Please initial each item in the appropriate box.

**SITE ASSESSOR INFORMATION:** This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section  
Department of Ecology  
P. O. Box 47655  
Olympia, WA 98504-7655

## SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 012349

Site/Business Name: GTE/LEAVENWORTH CENTRAL OFFICE

Site Address: 9<sup>th</sup> AND FRONT Telephone: (206) 261-6312

Street

LEAVENWORTH WA

City State ZIP-Code

## TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>4380-B01</u>	<u>500 gallons</u>	<u>DIESEL</u>

## REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

- Check one:
- Investigate suspected release due to on-site environmental contamination.
  - Investigate suspected release due to off-site environmental contamination.
  - Extend temporary closure of UST system for more than 12 months.
  - UST system undergoing change-in-service.
  - UST system permanently closed-in-place.
  - UST system permanently closed with tank removed.
  - Abandoned tank containing product.
  - Required by Ecology or delegated agency for UST system closed before 12/22/88.
  - Other (describe): \_\_\_\_\_

**CHECKLIST**

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
<i>* INDICATES INFORMATION CONTAINED IN CONTAMINATION ASSESSMENT REPORT</i>			
1.	The location of the UST site is shown on the vicinity map.	X	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	X	
3.	A summary of UST system data is provided. (see Section 3.1)	X	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	X	
5.	Is there apparent groundwater in the tank excavation?		X
6.	A brief description of the surrounding land is provided. (see Section 3.1)	X	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	X	
8.	A sketch or sketches showing the following items is provided:	X	
	- location and ID number for all field samples collected		
	- groundwater samples distinguished from soil samples (if applicable)		
	- samples collected from stockpiled excavated soil		
	- tank and piping locations and limits of excavation pit		
	- adjacent structures and streets		
	- approximate locations of any on-site and nearby utilities		
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)		N/A
10.	A table is provided showing laboratory results for each sample collected including: sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	X	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.		N/A
12.	The results of this site check/site assessment indicate that a confirmed release of regulated substance has occurred.		X

**SITE ASSESSOR INFORMATION**

LIEF CHRISTENSEN AGI TECHNOLOGIES  
 PERSON REGISTERED WITH ECOLOGY FIRM AFFILIATED WITH  
 BUSINESS ADDRESS: 300 120<sup>TH</sup> AVE NE TELEPHONE: (206) 453-8383  
BELLEVUE WA 98005  
 CITY STATE ZIP+CODE

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173-360 WAC.  
5/8/96 [Signature]  
 Date Signature of Person Registered with Ecology