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ENGEO
INCORPORATED
GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS

OBSERVATION AND SAMPLING SERVICES DURING UNDERGROUND STORAGE TANK REMOVAL

DEL VALLE HIGH SCHOOL UNDERGROUND STORAGE TANK REMOVAL

6 CT 1999

LIVERMORE, CALIFORNIA

SUBMITTED

TO

LIVERMORE VALLEY JOINT UNIFIED SCHOOL DISTRICT

LIVERMORE, CALIFORNIA

PREPARED

BY

ENGEO INCORPORATED

PROJECT NO.

4729.3.002.01

OCTOBER 29, 1999

ENGEO
INCORPORATED

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
MATERIALS TESTING

Project No.
4729.3.002.01

October 29, 1999

Mr. Steve Waters
Livermore Valley Joint Unified School District
685 East Jack London Street
Livermore, CA 94550

Subject: Del Valle Continuation High School
2253 Fifth Street
Livermore, California

OBSERVATION AND SAMPLING SERVICES DURING UNDERGROUND STORAGE TANK REMOVAL

Dear Mr. Waters:

ENGEO Incorporated is pleased to present this report addressing soil sampling services provided during the removal of a 1,500-gallon underground storage tank at the subject property, located at the Del Valle Continuation High School in Livermore, California (Figure 1). The scope of services provided by ENGEO during the underground storage tank removal consisted of the following:

- Field screening of soil from the UST excavation.
- Recovery of soil samples from the UST excavation and piping trench.
- Recovery of one composite soil sample from the excavation backfill material.
- Submittal of the soil samples to a certified analytical laboratory for laboratory analyses.
- Preparation of this letter report documenting field and laboratory activities.

FIELD ACTIVITIES

Field work was conducted on August 13, 1999. Tank removal services were performed by Reese Construction. Prior to the removal of the UST, Reese Construction personnel removed the asphalt and soil overlying the tank. The overburden soil was stockpiled separately. Dry ice was placed in the UST prior to removal to allow for the purging of potentially volatile vapors. According to Livermore Valley Joint Unified School District (LVJUSD) personnel, the UST was installed prior to 1930 for the storage of heating fuel oil. Initially, approximately 1,650 gallons of oily water was pumped from the UST by American Valley Waste Oil for recycling. → in a 1500 gallon tank?

2401 Crow Canyon Road • Suite 200 • San Ramon, CA 94583-1545 • (925) 838-1600 • Fax (925) 838-7425
www.engeo.com • E-mail: engstaff@engeo.com

The tanks were removed under the observation of Ms. Danielle Stefani, with the Livermore-Pleasanton Fire District. Prior to the removal of the tanks, the UST atmospheres were tested for oxygen and explosive gas concentrations, and were found to be within the appropriate ranges. Inspection of the tanks subsequent to their removal found no apparent perforations, although some apparent overfill was noted at the delivery side of the heating oil tank. The base of the UST was noted at a depth of approximately 14 feet.

SOIL SAMPLING

Following the removal of the UST, the area beneath the north or delivery end of the tank was overexcavated to the extent feasible in order to remove petroleum-impacted soil. Approximately 30 cubic yards were removed from the north side of the excavation. Upon completion of the excavation work, ±10 square feet of discolored soil were noted to remain beneath the north end of the tank.

Soil Samples T1 and T2 were recovered from each end of the excavation at depths of 17 and 20 feet respectively (Figure 2). The confirmation soil samples were recovered from the excavator bucket. Two soil samples were recovered from beneath the delivery piping alignment as shown on Figure 2. Due to the depth and instability of the excavation, the piping was grouted and left in place. One four-point composite sample was recovered from the ±30 cubic yard stockpile

The soil samples were recovered using a hand slide hammer equipped with 6-inch-long stainless steel liners. Upon recovery, the soil samples were sealed with Teflon sheets, polyethylene end caps and tape. The samples were then placed in a cooled ice chest for transportation to Sequoia Analytical in Walnut Creek, California. A copy of the soil sampling information form and chain of custody document are provided in Appendix B. The tanks were transported under Uniform Hazardous Waste Manifest to Ecology Control Industries (ECI), in Richmond, California. A copy of the hazardous waste manifest document is provided in Appendix C.

LABORATORY ANALYSIS

At the request of the Livermore – Pleasanton Fire Department, the samples were tested for the following: total purgeable petroleum hydrocarbons as gasoline (TPPH - EPA method 8015M/8020), total extractable petroleum hydrocarbons as diesel/heating oil/motor oil (TEPH - EPA method 8015M/8020), benzene, toluene, ethyl benzene, xylenes (BTEX) and methyl tertiary butyl ether (MtBE - EPA method 8020). A copy of the laboratory test report is provided in Appendix B. Table I provides a summary of the laboratory analyses.

TABLE I
Laboratory Analysis Summary
(Concentrations reported in parts per million)

Sample Number	Depth (ft)	TPPH	TEPH[1]	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MtBE
T1	**20**	**16**	**1380[2]**	<0.005	<0.005	<0.005	<0.005	<0.005
T2	17	<1.0	**65[2]**	<0.005	<0.005	<0.005	<0.005	<0.005
P1	11.5	<1.0	**1.5[3]**	<0.005	<0.005	<0.005	**.0082**	<0.005
P2	**11**	**3.9**	**225[2]**	<0.005	**.014**	<0.005	**.037**	<0.005
SP-1[4]	----	**13**	**900[2]**	<0.005	<0.005	<0.005	<0.005	<0.005

1. Cumulative concentration
2. Unidentified hydrocarbons >C12
3. Unidentified hydrocarbons >C16
4. Stockpile sample

Trace levels of purgeable hydrocarbons, toluene and xylenes were reported for the excavation and piping samples. Concentrations of residual heavy range hydrocarbons were reported for the samples. No MtBE was reported for the five samples. Based on the results of the analyses, the stockpiled soil (±44 tons) were removed from site for disposal at the Altamont Landfill facility (Appendix C). Upon review of the laboratory test report, the overburden soil stockpiles and select import material was backfilled and compacted within the excavation.

We appreciate the opportunity to be of service to you on this project. If you have any questions or require additional services, please contact our office. A copy of this report should be provided to Ms. Danielle Stefani with the Livermore - Pleasanton Fire Department and Ms. Eva Chu with the Alameda County Environmental Health Department.

Very truly yours,

ENGEO INCORPORATED

Reviewed by:

Shawn Munger
CHG 413
sm/jd:ustrem

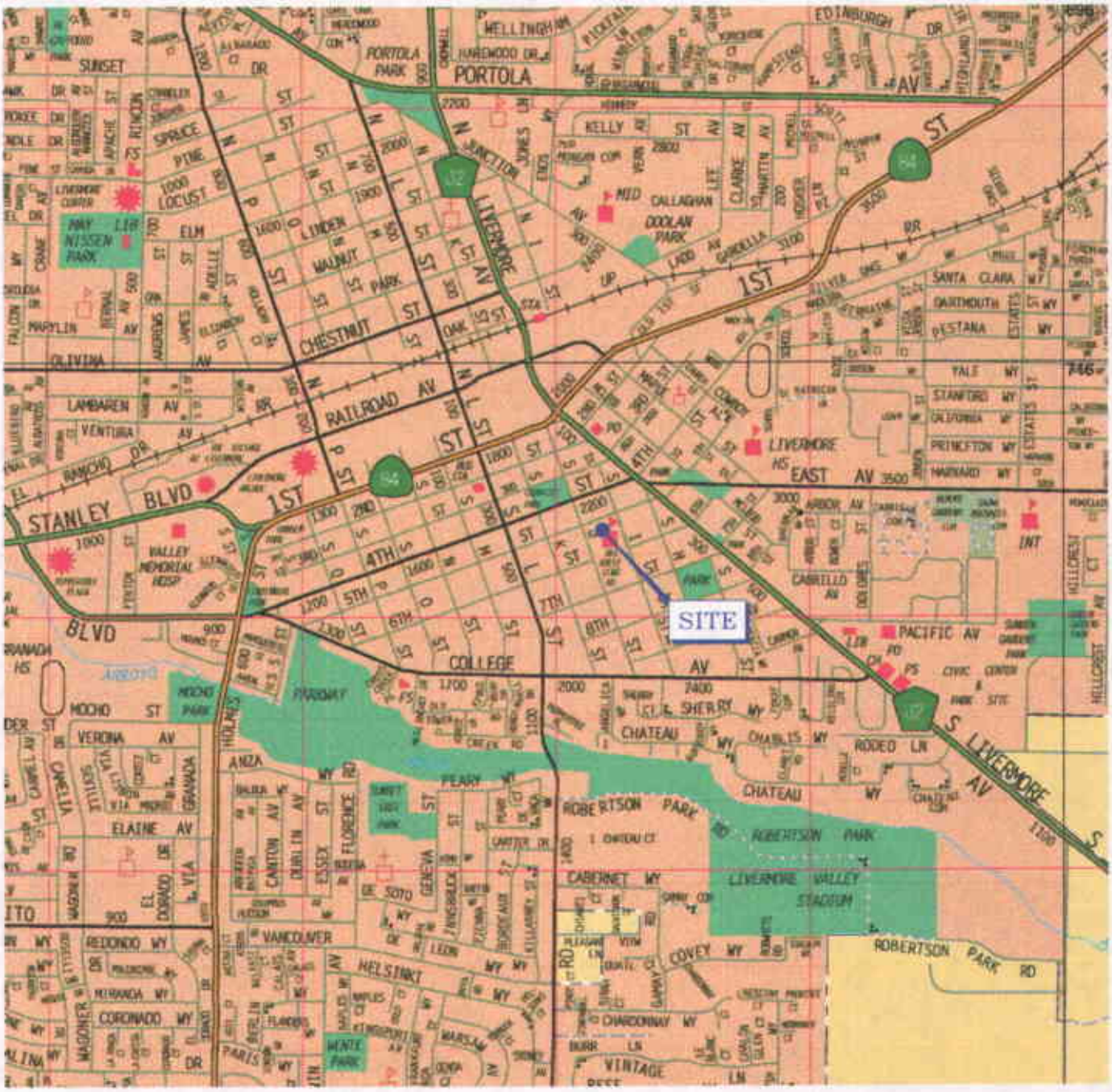
Brian Flaherty

Attachments: Appendix A – Figures 1 and 2
Appendix B – Laboratory Analyses Report
Appendix C – Uniform Hazardous Waste Manifests
Livermore – Pleasanton Fire Department UST Checklist

APPENDIX A

APPENDIX A

Figure 1	Site Vicinity Map
Figure 2	Site Plan



BASE MAP SOURCE: THOMAS BROTHERS

N.T.S.

ENGEO INCORPORATED

SITE VICINITY MAP

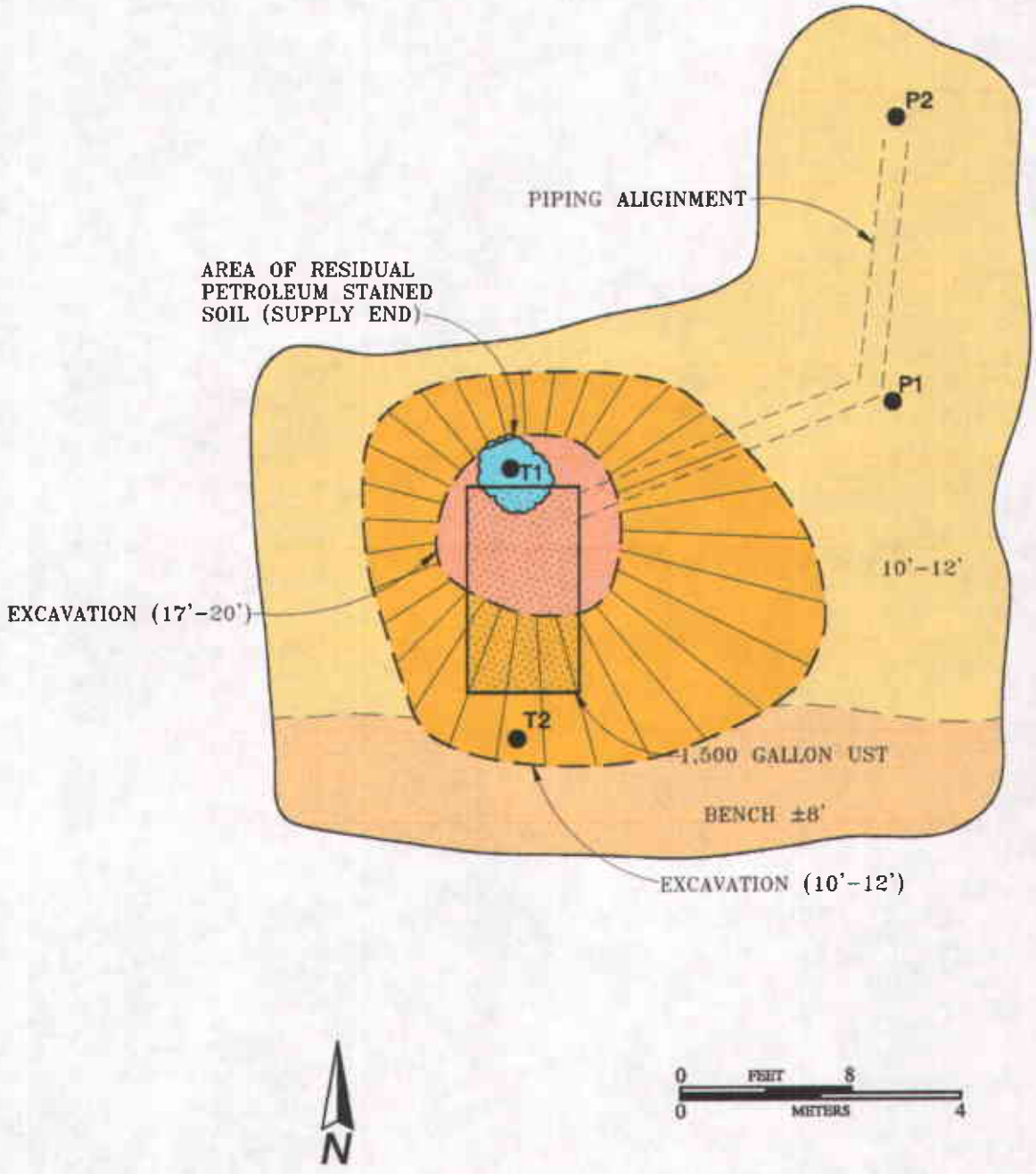
2253 5TH STREET

LIVERMORE, CALIFORNIA

PROJECT NO.: 4729.3.002.01	FIGURE NO. 1
DATE: NOVEMBER 1999	
DRAWN BY: [illegible] CHECKED BY: DSH	

(BASEMENT)

SCHOOL BUILDING



ENGEO INCORPORATED

SITE PLAN
2253 5TH STREET
LIVERMORE, CALIFORNIA

PROJECT NO.: 4729.3.002.01
DATE: NOVEMBER 1999
DRAWN BY: CHECKED BY:

FIGURE NO. **2**

APPENDIX B

APPENDIX B

SEQUOIA ANALYTICAL

Laboratory Analyses Report
Chain of Custody Record

4729.3.002.01
October 29, 1999

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Engeo Incorporated	Client Project ID:	Del Valle H.S. #4729300101	Sampled: Aug 13, 1999
2401 Crow Canyon Rd., Ste. #200	Sample Matrix:	Soil	Received: Aug 13, 1999
San Ramon, CA 94583	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Aug 24, 1999
Attention: Shawn Munger	First Sample #:	W908299-01	

QC Batch Number: SP081899 8020EXA | SP081899 8020EXA | SP081899 8020EXA | SP081899 8020EXA | SP081899 8020EXA

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. W908299-01 T1	Sample I.D. 02 T2	Sample I.D. 03 P1	Sample I.D. 04 P2	Sample I.D. 05 SP-1
Purgeable Hydrocarbons	1.0	16	N.D.	N.D.	3.9	13
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.	0.014	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.0050	N.D.	N.D.	0.0082	0.037	N.D.
MTBE	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		Unidentified Hydrocarbons >C10	--	--	Unidentified Hydrocarbons >C7	Unidentified Hydrocarbons >C10

Quality Control Data

Report Limit Multiplication Factor:	5.0	1.0	1.0	1.0	5.0
Date Analyzed:	8/18/99	8/18/99	8/18/99	8/18/99	8/18/99
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	92	93	103	94	81

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Engeo Incorporated	Client Project ID:	Del Valle H.S. #4729300101	Sampled: Aug 13, 1999
2401 Crow Canyon Rd., Ste. #200	Sample Matrix:	Soil	Received: Aug 13, 1999
San Ramon, CA 94583	Analysis Method:	EPA 3550/8015 Modified	Reported: Aug 24, 1999
Attention: Shawn Munger	First Sample #:	W908299-01	

QC Batch Number: 9H19019 9H19019 9H19019 9H19019 9H19019

FUEL FINGERPRINT

Analyte	Reporting Limit mg/kg	Sample I.D. W908299-01 T1	Sample I.D. 02 T2	Sample I.D. 03 P1	Sample I.D. 04 P2	Sample I.D. 05 SP-1
Diesel (C9-C24)	1.0	280 Unidentified Hydrocarbons >C12	14 Unidentified Hydrocarbons >C12	1.5 Unidentified Hydrocarbons >C16	65 Unidentified Hydrocarbons >C12	170 Unidentified Hydrocarbons >C12
Heating Oil	1.0	N.I.	N.I.	N.I.	N.I.	N.I.
Motor Oil (>C16)	10	1100 Unidentified Hydrocarbons >C12	51 Unidentified Hydrocarbons >C12	N.I.	160 Unidentified Hydrocarbons >C12	730 Unidentified Hydrocarbons >C12
Unidentified Extractable Hydrocarbons	1.0	N.I.	N.I.	N.I.	N.I.	N.I.

Quality Control Data

Report Limit Multiplication Factor:	20	1.0	1.0	1.0	20
Date Extracted:	8/19/99	8/19/99	8/19/99	8/19/99	8/19/99
Date Analyzed:	8/20/99	8/20/99	8/20/99	8/20/99	8/20/99
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A

Unidentified Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.I. (None Identified) were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Engeo Incorporated
2401 Crow Canyon Rd., Ste. #200
San Ramon, CA 94583
Attention: Shawn Munger

Client Project ID: Del Valle H.S. #4729300101
Matrix: Solid
QC Sample Group: W908299

Reported: Aug 24, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	SP081899	SP081899	SP081899	SP081899	9H19019
	8020EXA	8020EXA	8020EXA	8020EXA	
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	K. Grubb
MS/MSD #:	90829902	90829902	90829902	90829902	W908299-02
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	14 mg/kg
Prepared Date:	8/18/99	8/18/99	8/18/99	8/18/99	8/19/99
Analyzed Date:	8/18/99	8/18/99	8/18/99	8/18/99	8/20/99
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A
Conc. Spiked:	0.80 mg/Kg	0.80 mg/Kg	0.80 mg/Kg	2.4 mg/Kg	15 mg/kg
Result:	0.83	0.71	0.74	2.5	16
MS % Recovery:	104	89	93	104	13
Dup. Result:	0.88	0.75	0.77	2.5	17
MSD % Recov.:	110	94	96	104	20
RPD:	5.8	5.5	4.0	0.0	6.1
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	4LCS081899	4LCS081899	4LCS081899	4LCS081899	9H19019-BS
Prepared Date:	8/18/99	8/18/99	8/18/99	8/18/99	8/19/99
Analyzed Date:	8/18/99	8/18/99	8/18/99	8/18/99	8/20/99
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A
Conc. Spiked:	0.80 mg/Kg	0.80 mg/Kg	0.80 mg/Kg	2.4 mg/Kg	15 mg/kg
LCS Result:	0.86	0.74	0.79	2.6	15
LCS % Recov.:	108	93	99	108	100
MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150	60-140

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

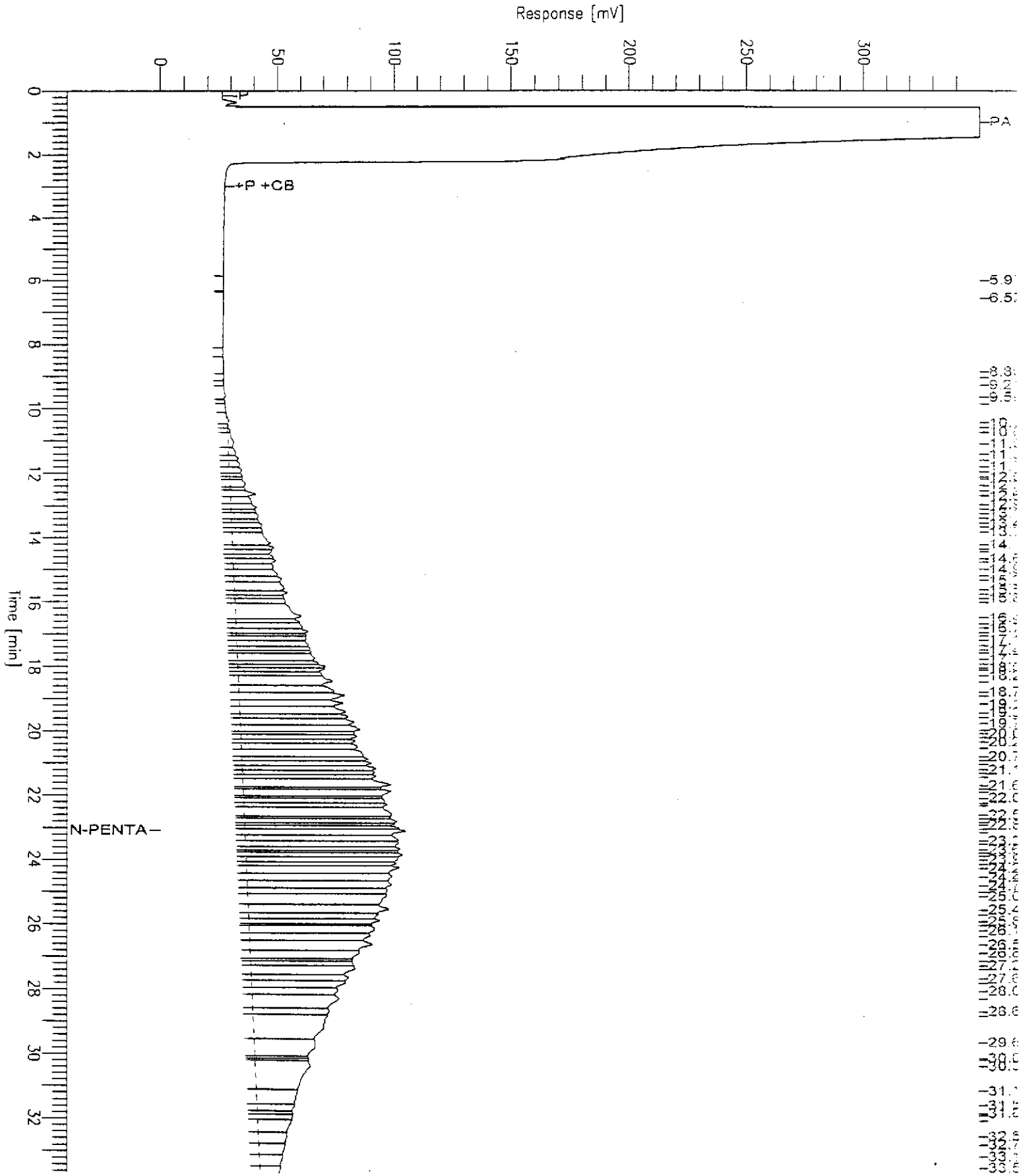
Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Chromatogram

Sample Name : ENGEO
FileName : I:\HP3\3AAU395A.raw
Method : TPHO3A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

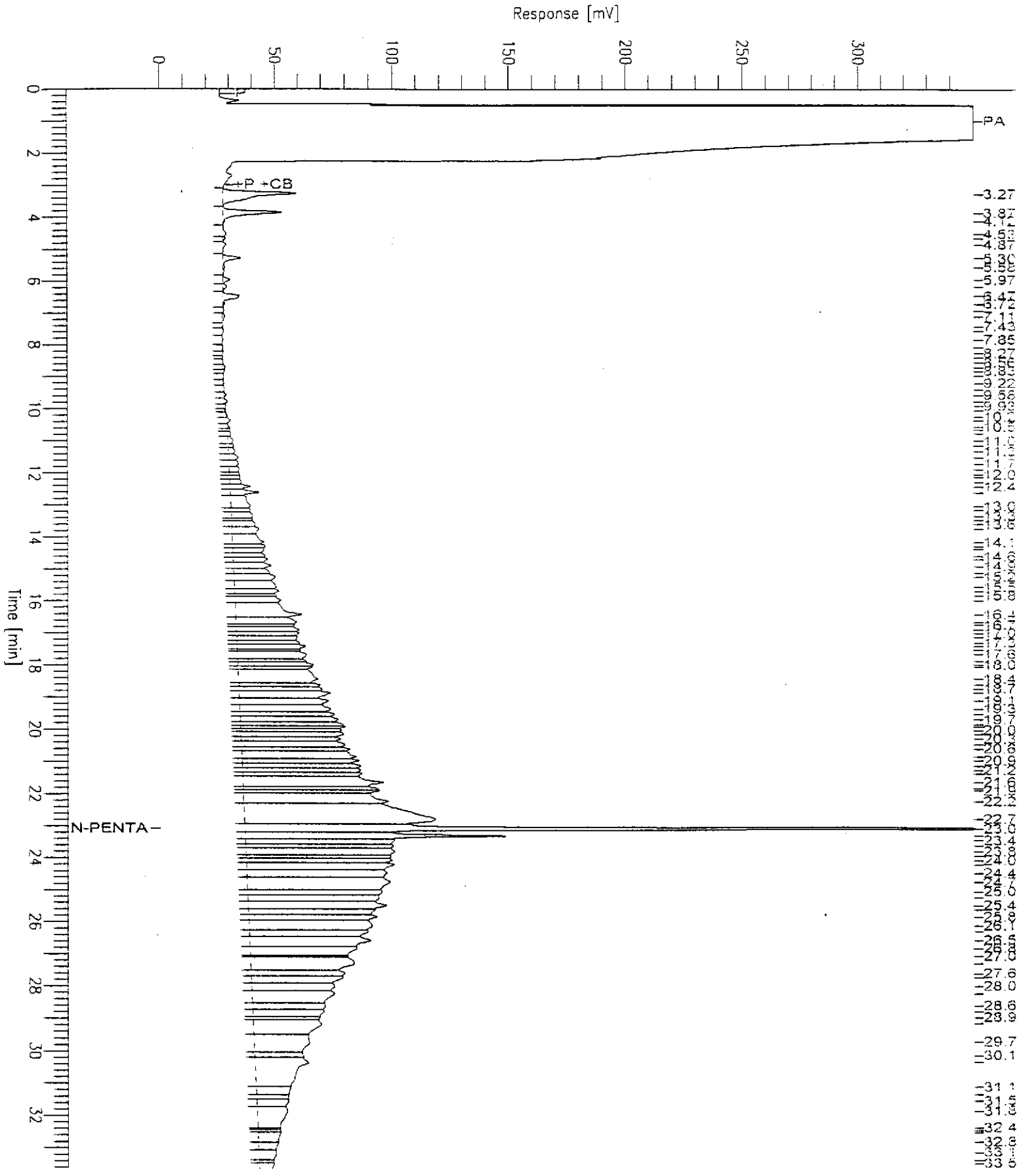
Sample #: W908299-01 Page 1 of 1
Date : 8/20/99 07:07 AM
Time of Injection: 8/20/99 06:30 AM
Low Point : 0.00 mV High Point : 350.00 mV
Plot Scale: 350.0 mV



Chromatogram

Sample Name : ENGEO
FileName : I:\HP3\3AAU393A.raw
Method : TPH03A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

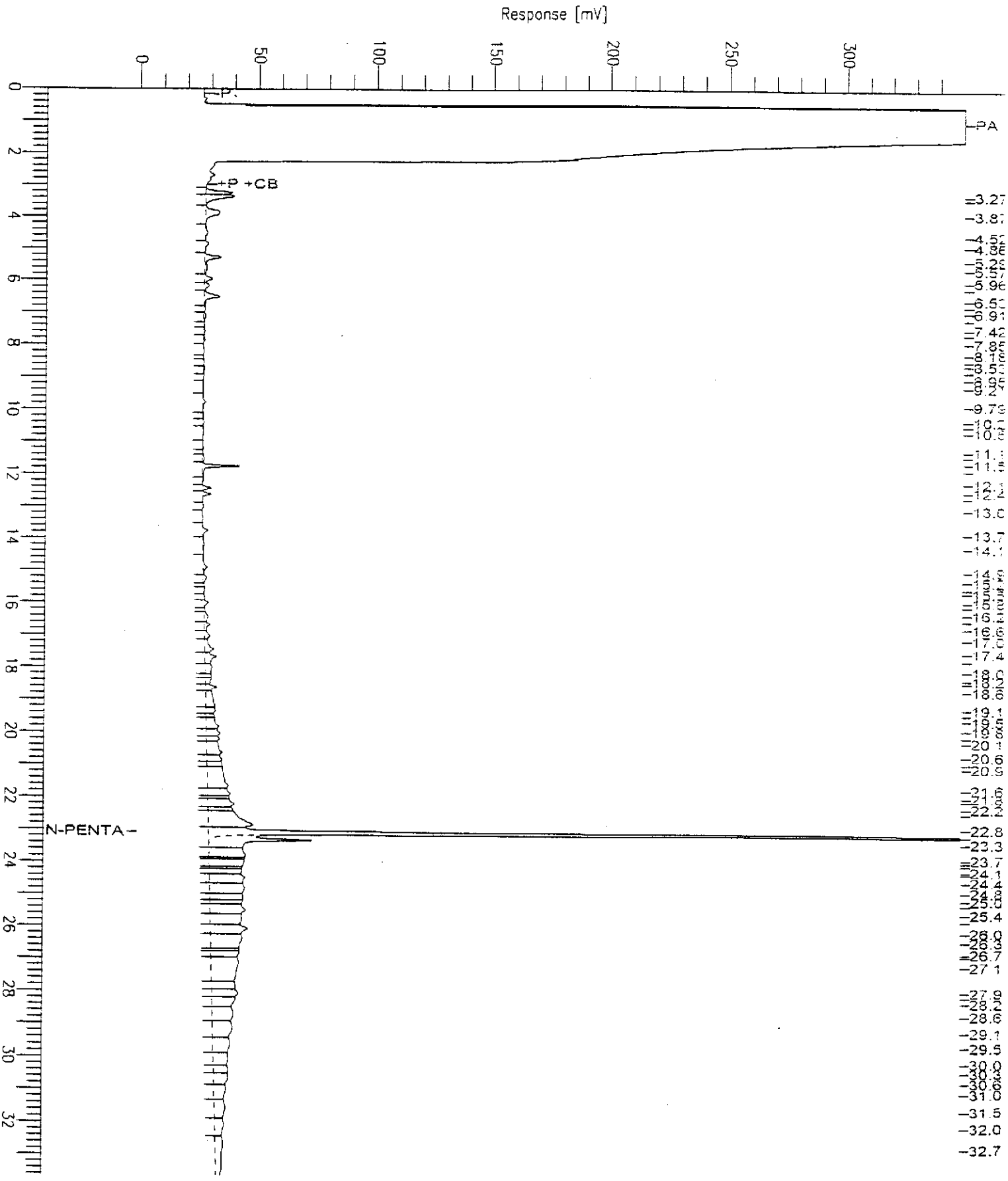
Sample #: W908299-02 Page 1 of 1
Date : 8/20/99 04:55 AM
Time of Injection: 8/20/99 04:18 AM
Low Point : 0.00 mV High Point : 350.00 mV
Plot Scale: 350.0 mV



Chromatogram

Sample Name : ENGEO
FileName : I:\HP3\3AAU396A.raw
Method : TPH03A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

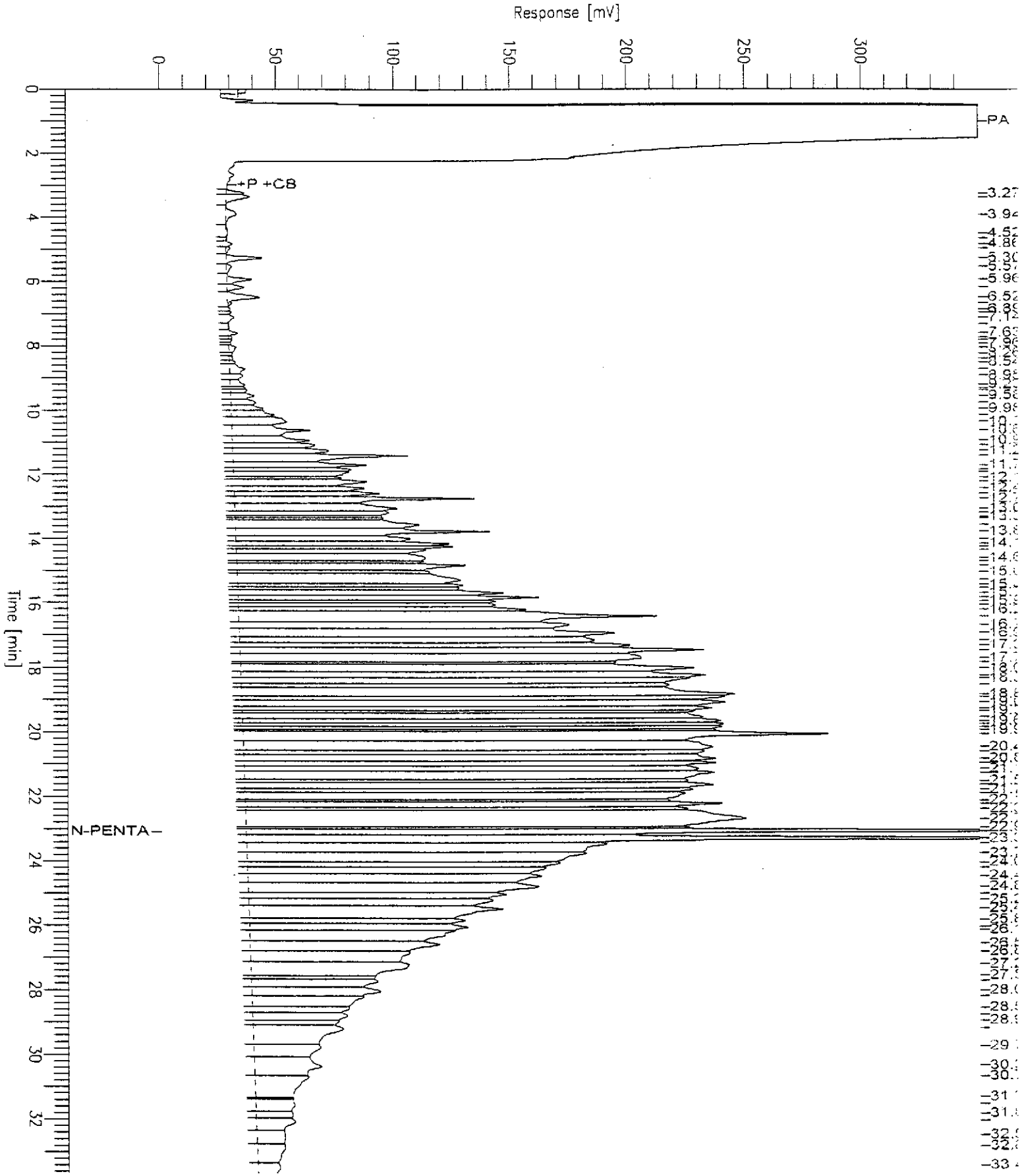
Sample #: W908299-03 Page 1 of 1
Date : 8/20/99 07:51 AM
Time of Injection: 8/20/99 07:14 AM
Low Point : 0.00 mV High Point : 350.00 mV
Plot Scale: 350.0 mV



Chromatogram

Sample Name : ENGEO
FileName : I:\HP3\3AAU396B.raw
Method : TPH03A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

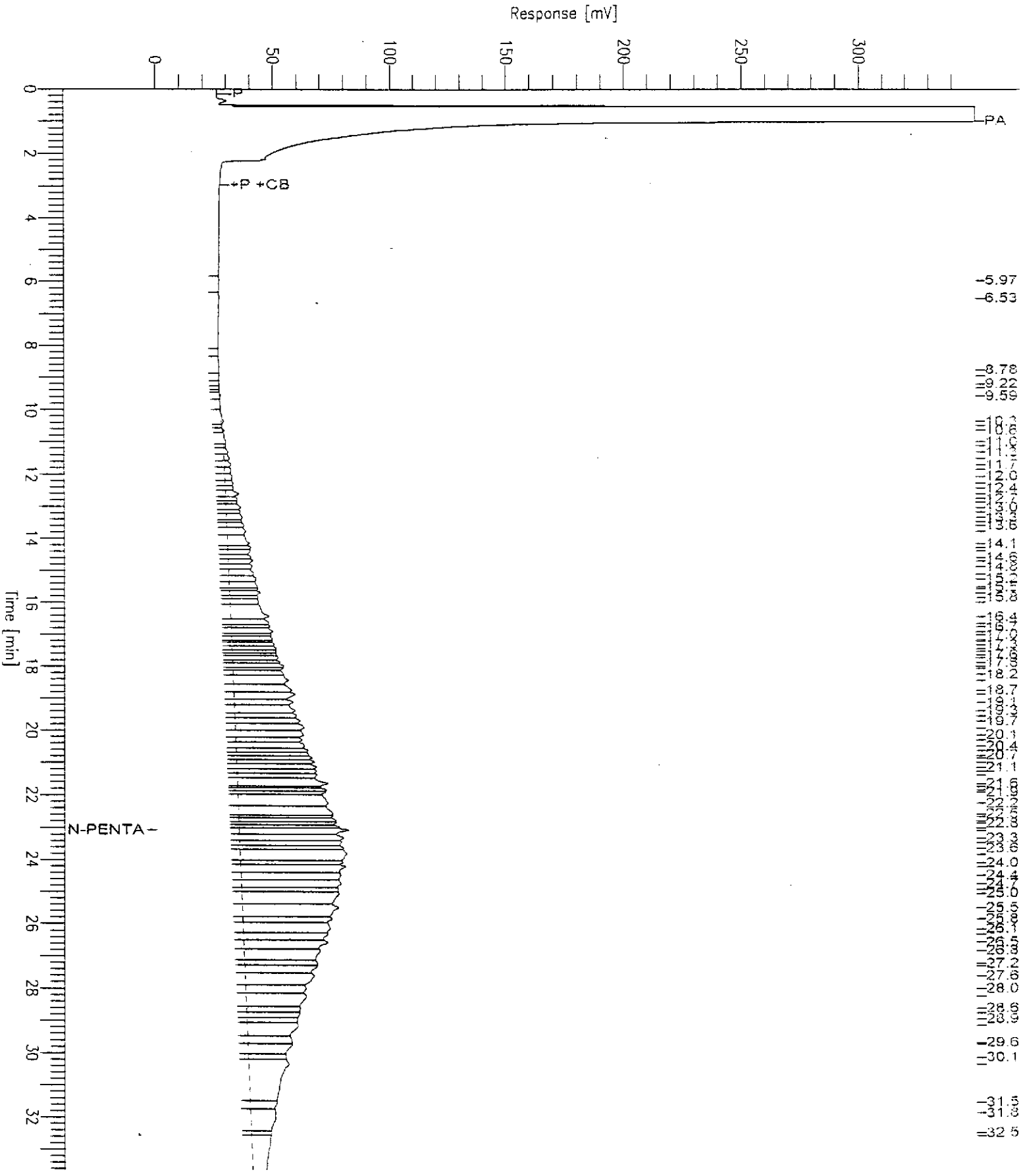
Sample #: W908299-04 Page 1 of 1
Date : 8/20/99 08:36 AM
Time of Injection: 8/20/99 07:59 AM
Low Point : 0.00 mV High Point : 350.00 mV
Plot Scale: 350.0 mV



Chromatogram

Sample Name : ENGEO
FileName : I:\HP3\3AAU396C.raw
Method : TPH03A
Start Time : 0.00 min
End Time : 33.65 min
Scale Factor: 0.0
Plot Offset: 0 mV

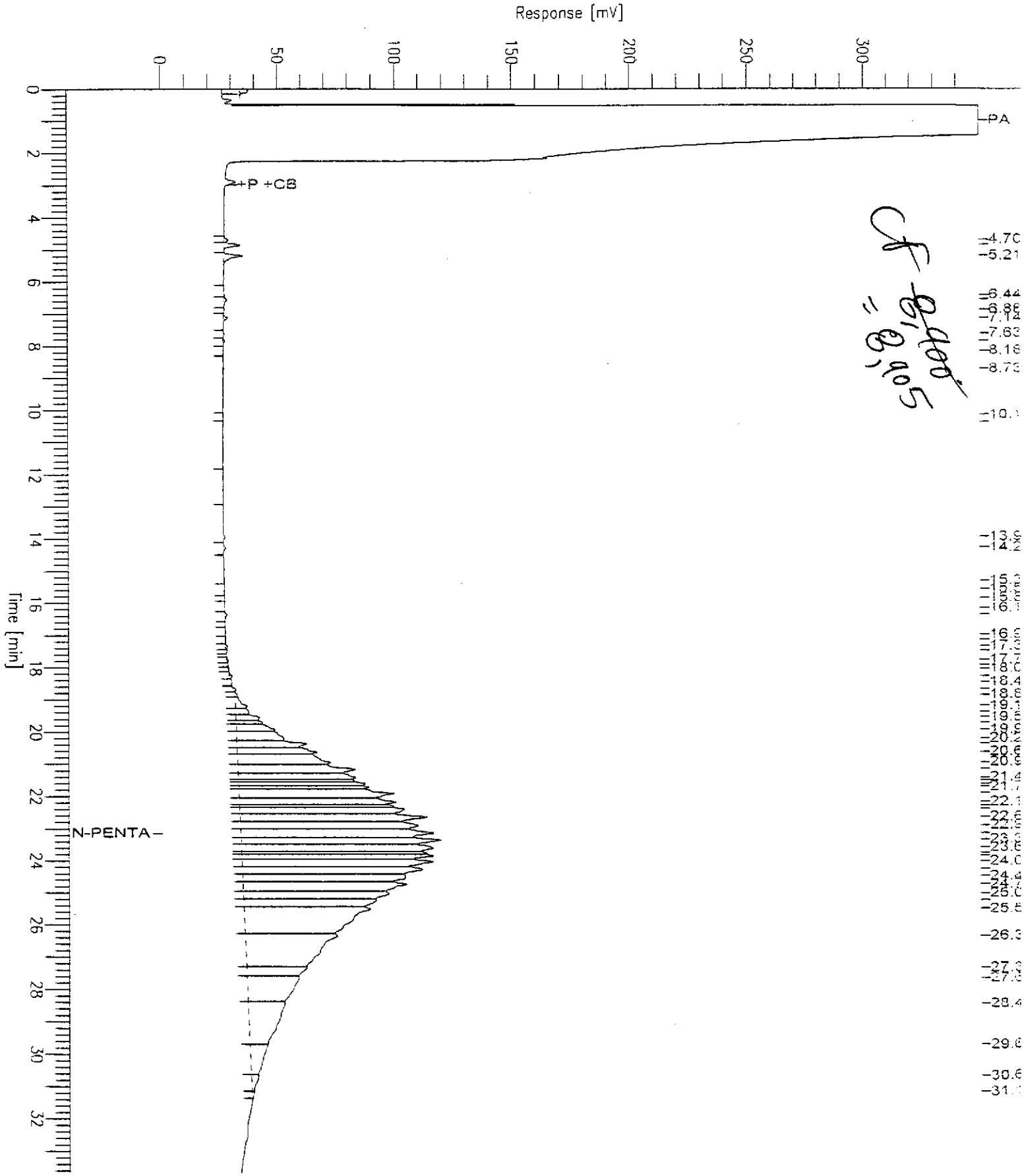
Sample #: W908299-05
Date : 8/20/99 09:19 AM
Time of Injection: 8/20/99 08:43 AM
Low Point : 0.00 mV
High Point : 350.00 mV
Plot Scale: 350.0 mV



Chromatogram

Sample Name : D8015KG02K
FileName : I:\HP3\3AAU385A.RAW
Method :
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: 1000PPM Mix 01 Page 1 of 1
Date : 8/20/99 09:00 AM
Time of Injection: 8/19/99 10:25 PM
Low Point : 0.00 mV High Point : 350.00 mV
Plot Scale: 350.0 mV



W908299

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 472930010I

PROJECT NAME: DEL VALLE H.S.

SAMPLED BY: (SIGNATURE)/(PRINT): Shawn Munger

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPH - GASOLINE (EPA 8015/5030)	TPH - DIESEL (EPA 8015/3550/3510)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240)	BASE/NEUTRALS, ACIDS (EPA 625,8270)	TOTAL OIL & GREASE (SMWW 5520 F)	OC PESTICIDES/PCB (EPA 608, 8080)	OP PESTICIDES (EPA 614/8140)	TITLE 26 METALS (17)	PRIORITY METALS (13)	MtBE	REMARKS / REQUIRED DETECTION LIMITS
T1	8/13	15:40	S	1	2"x6"	Ice	X	X	X								X	X	-01 A
T2	"	15:40	S	1	"	"	X	X	X										-02
P1	8/13	15:55	S	1	2"x6"	Ice	X	X	X								X	X	-03
P2	"	16:15	S	1	"	"	X	X	X										-04
SP1	8/13	16:30	S	4	2"x6"	Ice	X	X	X								X		-05 A-D COMPOSITE

REPORT TPH-D as Diesel, M.O. + Heating OK

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	8/13 17:45				
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
		WC Ramona C. Genuin	8/13/99 17:45	Need results FRI 8/20 15:00	

CHT\CHNOFCUS

ENGEO INCORPORATED

2401 CROW CANYON ROAD • SUITE 200
SAN RAMON, CALIFORNIA 94583-1545
(510)838-1600 • FAX(510)838-7425

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

APPENDIX C

APPENDIX C

Underground Storage Tank
Uniform Hazardous Waste Manifest

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED ? ☐ YES ☒ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
SIGNED _____ DATE _____

REPORT DATE: 08 / 13 / 99 | CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Shawn Munger | PHONE: (925) 838-1600 | SIGNATURE
REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____
COMPANY OR AGENCY NAME: ENGEO Incorporated
ADDRESS: 2401 Crow Canyon Road, Suite 200 | CITY: San Ramon | STATE: CA | ZIP: 94583

RESPONSIBLE PARTY
NAME: Livermore Valley Jt. USD ☐ UNKNOWN | CONTACT PERSON: Will Macedo > Steve Waters | PHONE: (925) 606-3319
ADDRESS: 685 East Jack London Street | CITY: Livermore | STATE: CA | ZIP: 94550

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Del Valle High School | OPERATOR | PHONE: ( )
ADDRESS: 2253 5th Street | CITY: Livermore | COUNTY: Alameda | ZIP: 94550
CROSS STREET: "J" Street

IMPLEMENTING AGENCIES
LOCAL AGENCY / AGENCY NAME: Livermore/Pleasanton Fire Protection | CONTACT PERSON: Danielle Stefani | PHONE: 925)454-2362
REGIONAL BOARD: San Francisco | PHONE: ( )

SUBSTANCES INVOLVED
(1) NAME: Heating oil / Diesel | QUANTITY LOST (GALLONS): _____ ☒ UNKNOWN
(2) _____ ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 08 / 13 / 99 | HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER _____
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED ? ☒ YES ☐ NO IF YES, DATE: unknown
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☒ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE ☐ REPLACE TANK ☐ OTHER _____

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☐ TANK LEAK ☐ UNKNOWN ☒ PIPING LEAK ☐ OTHER
CAUSE(S): ☒ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☐ UNKNOWN ☐ OTHER _____

CASE TYPE
CHECK ONE ONLY: ☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY: ☒ NO ACTION TAKEN ☐ LEAK BEING CONFIRMED ☐ REMEDIATION PLAN ☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☐ POLLUTION CHARACTERIZATION ☐ POST CLEANUP MONITORING IN PROGRESS ☐ CLEANUP UNDERWAY

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS): ☒ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT) ☐ CAP SITE (CD) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS) ☐ CONTAINMENT BARRIER (CB) ☐ NO ACTION REQUIRED (NA) ☐ TREATMENT AT HOOKUP (HU) ☐ VENT SOIL (VS) ☐ VACUUM EXTRACT (VE) ☐ OTHER (OT) _____

COMMENTS
Minor delivery pipe release from high school boiler tank. Impacted soil (±30 yards) removed to the extent feasible. Minor impacted soil left in place.

YELLOW CLASS 2 COVER
QUAN OF JOB: 0.00 T QUAL:

ALTAMONT LANDFILL & RRF
10840 ALTAMONT PASS ROAD
LIVERMORE, CA 94550-9745

DATE:08/27/1999 TICK: 146396 - 1
TIME IN: 14:23 I/O: I
TIME OUT: 14:23
STAGE TICKET: 150483

CARRIER: CMT
TRUCK#: 96
CUSTOMER: RE
GENERATOR: LI
ORIGIN: LI

TRAILER#:
J.S.D.
PROFILE 52035100

MANIFEST	WASTE		PER	RATE	AMOUNT	TAX	FEE	TOTAL
	C2C		T					

GROSS: 66020 PB LBS CUSTOMER: _____ WashOut:
TARE: 30180 PB LBS OffLoad:
NET: 35840 LBS TONS: 17.92 WEIGHMASTER: _____ Service:
Service:

WEIGH IN CLERK: ROGELIO, ROJAS WEIGH OUT CLERK: ROGELIO, ROJAS

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 7 COMMENCING WITH SECTION 12700I OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

WASTE MANAGEMENT

YELLOW CLASS 2 COVER
QUAN OF JOB: 0.00 T QUAL:

ALTAMONT LANDFILL & RRF
10840 ALTAMONT PASS ROAD
LIVERMORE, CA 94550-9745

DATE:08/27/1999 TICK: 146335 - 1
TIME IN: 11:45 I/O: I
TIME OUT: 11:45
STAGE TICKET: 150426

CARRIER: CMT
TRUCK#: 98
CUSTOMER: RE
GENERATOR: LI
ORIGIN: LI

TRAILER#:
J.S.D.
PROFILE 52035100

MANIFEST	WASTE		PER	RATE	AMOUNT	TAX	FEE	TOTAL
	C2C		T					

GROSS: 80520 PB LBS CUSTOMER: _____ WashOut:
TARE: 30180 PB LBS OffLoad:
NET: 50340 LBS TONS: 25.17 WEIGHMASTER: _____ Service:
Service:

WEIGH IN CLERK: BROWN, KEN SR WEIGH OUT CLERK: BROWN, KEN SR

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 7 COMMENCING WITH SECTION 12700I OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

WASTE MANAGEMENT

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAL000062515506 Manifest Document No.
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Livermore Valley Joint Unified School District
685 E. Jack London Blvd. Livermore CA 94550
4. Generator's Phone (925) 606-3319

A. State Manifest Document Number 99175506
B. State Generator's ID
C. State Transporter's ID [Reserved]
D. Transporter's Phone 510-235-1393
E. State Transporter's ID [Reserved]
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

5. Transporter 1 Company Name
Ecology Control Industries
6. US EPA ID Number CAD982030173

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
ECOLOGY CONTROL INDUSTRIES
235 PARR BLVD
RICHMOND, CA 94801
10. US EPA ID Number CAD009469392

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. WASTE EMPTY STORAGE TANK NON RCRA HAZARDOUS WASTE SOLID	001	TP	01500 C.Y. 03000	P
b.				
c.				
d.				

GENERATOR

15. Special Handling Instructions and Additional Information
Wear proper protective equipment while handling. Weights or volumes are approximate.
24 Hour emergency telephone number:
24 Hour emergency contact: DOT ERG# 171

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Stephen J. Waters	Stephen J. Waters	08	13	99

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
RAFAEL C. Figueroa	Rafael C. Figueroa	08	13	99

Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

Facility Indication Space

Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Signature	Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

Yellow: GENERATOR RETAINS

ESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

99175506

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAL000106251	55152		

3. Generator's Name and Mailing Address
Livermore Valley Joint Unified
685 E. Jack London Blvd
Livermore Ca 94550

4. Generator's Phone 925 606-3319

5. Transporter 1 Company Name	6. US EPA ID Number
American Valley Waste Oil	CAL000182718

7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Industrial Service Oil 1700 S. Soto LA CA 90023	CAD099452708

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-RCRA Hazardous Waste liquid (Oily Water)	0101	TT	01650	G
b.				
c.				
d.				

15. Special Handling Instructions and Additional Information
Gloves
Emergency phone 209-467-8857

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Bill Bassett on behalf of Livermore V. Jt. U. S. D.	Bill Bassett	08	13	99

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Steve Huber	Steve Huber	08	13	99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/99)
EPA 8700—22

Yellow: GENERATOR RETAINS

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

Livermore-Pleasanton Fire Department
4550 East Avenue
Livermore, CA 94550
(925) 454-2364 FAX: (925) 454-2367

UNDERGROUND TANK CLOSURE CHECKLIST

Business Name: Livermore School Dist. – Del Valle High Date: 6/29/99

Business Address: 3-53 Fifth St # Tanks being removed: 1

Tank #1	Size: ~~3000 gal~~	Contents:	Fuel oil
Tank #2	Size: 1500	Contents:	
Tank #3	Size:	Contents:	
Tank #4	Size:	Contents:	

1. Tank closure permit has been obtained and is on site. ☒ Yes ☐ No
2. Any changes from approved closure plan? No
3. A 40 B:C fire extinguisher on site? ☒ Yes ☐ No
4. A residual material removed from tank? ☒ Yes ☐ No
   If yes, have residuals been properly contained for off-site transport? None
5. Observed receipt for dry ice? ☒ Yes ☐ No

	#1	#2	#3	#4
Number of pounds of dry ice in each tank?				

6. Contractor has calibrated combustible gas detector *in presence of inspector*? ☒ Yes ☐ No
   Comments:
7. Combustible gas readings/oxygen readings:
   Take three measurments, one near the top, center and bottom of tank and report the findings:

Tank #	Contents	% LEL (top)	% LEL (mid)	% LEL (bottom)	% O_2 (top)	% O_2 (mid)	% O_2 (bottom)	OK to remove?
1	Fuel oil	—	0	—	—	3%	—	ok
2								
3								
4								

Tank cannot be pulled if concentation of flammable vapors exceeds 20% of the LEL of the material in the tank or the oxygen concentration exceeds 5%.

8. After tank is removed, observe conditions of tank(s) and piping:

	Tank 1	Tank 2	Tank 3	Tank 4
Any corrosion or holes?	No			
Was the tank wrapped?	No			
Any hydrocarbon vapors?	Yes			
Any discoloration of the soil in the tank pit or along piping trench?	Yes			

Compostion of backfill: Soil

Other observations: The North end of the tank at supply, return and vent piping – Gas odious. Release – Tarry matrix on top, sides and bottom of tank.

9. Was there evidence of contamination which would trigger the 24-hour release reporting requirements? If yes, was a blank copy provided to site operator? ☒ Yes ☐ No

10. Has obvious contamination been removed? ☐ Yes ☐ No Fine
Has obvious contamination been left in place: ☒ Yes ☐ No
Describe details of approximately how much and where it will be disposed of? It appears to be localized at North end of tank. Tank North end excavated to 20' and still some discolored soil

11. Is water observed in tank pit? ☐ Yes ☒ No If yes, a sample of the water must be taken.
Sample collected? ☐ Yes ☐ No

12. Soil samples must be collected in the tank pit under each end of the tank, a minimum of two feet into native soil according to the closure plan.
Soil samples were collected according to the closure plan. ☒ Yes ☐ No ± 30 yds
Soil samples must also be collected under piping at 20 ft. intervals. ☒ Yes ☐ No Stockpile
Samples of the stockpile must be taken to determine disposal options. ☒ Yes ☐ No

13. The samples were properly taken? ☒ Yes ☐ No 4x composit
The samples were properly sealed and labeled. ☒ Yes ☐ No
The chain of custody form was observed to be properly completed? ☐ Yes ☐ No
The samples were placed in an iced chest? ☐ Yes ☐ No
Name of analytical laboratory Sequoia

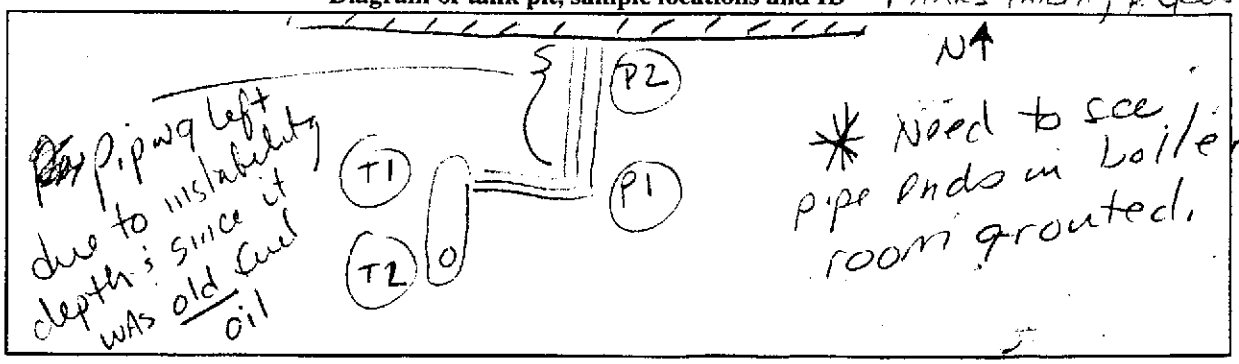
14. The tank pit must be filled with soil or properly barricaded to prevent unauthorized access.
Was the tank pit filled with: ☐ new soil ☐ excavated backfill - OR -
Was the tank pit left open pending analytical results? ☒ Yes ☐ No
Was the tank pit covered/barricaded? ☒ Yes ☐ No

15. Tanks loaded onto hauler vehicle have identifying numbers spray painted on them? ☒ Yes ☐ No

16. Hauler provides documentation of current certification as a hazardous waste hauler. ☐ Yes ☐ No EC1

17. Manifest observed to be properly completed (name and address, EPA ID, hauler name, disposal site, signed and dated).
Name of disposal site EC1

18. Were all containers, residual tanks and associated piping transported off site and manifested? ☐ Yes ☐ No
Diagram of tank pit, sample locations and ID Tanks taken, Pipes still on site.



19. Certification and proper tanks cleaning observed? ☐ Yes ☐ No N/A

Signed [signature] Date 8/13/99 Number of hours to complete : 2.5 hours on-site

Signature of Business Responsible: _____

Inspector: [signature] Stefani