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**Alameda County
Environmental Health**

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1050 Marina Way South
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Mr. Robert Westen
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Subject
Underground Storage Tank Closure Report
Northern California Heat Pump, Inc. Property, 6335 Scarlett Court, Dublin,
California

ENVIRONMENT

Dear Mr. Westen:

ARCADIS is pleased to submit this Tank Closure Report summarizing the removal of three underground storage tanks (USTs) from the above referenced property (Figure 1). According to the site representative, the USTs were installed in the late 1960's and used for storage of unleaded gasoline for on-site fueling of vehicles. Two of the UST fill ports were labeled "unleaded gasoline." Tank No. 1 had a capacity of 1,000 gallons and Tank Nos. 2 and 3 each had a capacity of 500 gallons. Because the tanks have not been used since the 1970s and prior to development of State storage tank regulations, these tanks were not registered in the State's database. However, these tanks are regulated and are subject to State and local tank closure regulations based on the suspected former use and capacity of these USTs.

Date:
18 July 2005

Contact:
David Gomes

Phone:
510.233.3200, ext. 148

Email:
dgomes@arcadis-us.com

Our ref:
RC000670.0002

During removal of the USTs, soil exhibiting petroleum odor was discovered and petroleum impacts were verified following receipt of post-excavation soil analytical results. The petroleum-impacted soil accessible for excavation without compromising the structural integrity of the adjacent building and pavement was excavated during removal of the USTs. However, post-excavation soil analytical results identified petroleum constituents in soil remaining along the northern and western excavation walls adjacent to Tank No. 3. Petroleum constituents exceeded the California Regional Water Quality Control Board's (RWQCB) Environmental Screening Levels (ESLs) for soil near Tank No. 3 and also for some petroleum constituents in the groundwater sample collected from the bottom of the excavation.

The UST removal, soil remediation and closure assessment procedures completed at the Busick-Gearing property are summarized below. ARCADIS conducted the tank removal and closure assessment procedures in general accordance with State and local regulations specifically Title 23, California Code of Regulations, Chapter 16 (effective June 12, 2004) and Alameda County Department of Environmental Health (ACDEH) guidelines entitled "Procedures for Closure of Underground Storage Tanks." ARCADIS subcontracted MP Environmental Services, Inc. (MPE) to

complete the UST removal and soil remediation activities. ARCADIS completed the UST removal documentation and closure assessment sampling. Mr. Robert Weston of the Alameda County Department of Environmental Health (ACDEH) was present and oversaw the removal activities as described below. Also present was a representative of the City of Dublin Fire Department.

Site Description and Background

The Northern California Heat Pump, Inc. property located at 6335 Scarlett Court in Dublin, is developed with one large industrial building (which is generally referred to as "Building 1" to distinguish it from two similar buildings on adjacent parcels owned by others). The three USTs were located next to the southeast corner of "Building 1" as shown on Figure 2. The approximate locations of Tank Nos. 1 and 2 were observed by the presence of ventilation lines and fill ports protruding from the ground. Tank No. 3 was identified by the evidence of a possible fill drain in the concrete floor inside the attached shed. The presence of Tank No. 3 was verified during excavation of the two known USTs. According to the site representative, the tanks were in operation for about 3 years in the late 1960s and contained unleaded gasoline for fueling of operation vehicles.

Soil Overburden Removal and Tank Removal Activities

On April 25, 2005, ARCADIS and MPE mobilized to the site to begin the tank closure activities. Because MPE discovered possible evidence of a third UST, the shed located above the suspected tank location was demolished to allow access for removal. MPE excavated the concrete and overburden soil above the USTs. The soil excavated from the area was mostly sandy fill, clay, silty clay and clayey sands. The excavation extended to a depth of approximately 8 feet below ground surface (ft bgs) and groundwater was encountered at approximately 3 ft bgs; however, because of the clays in the area, groundwater recharge into the open excavation was very slow. A slight sheen was observed on the groundwater surface. Soil surrounding Tank Nos. 2 and 3 were stained and exhibited a petroleum odor. The soil exhibiting staining and odors accessible for excavation were removed for subsequent off-site disposal. MPE, ARCADIS and Mr. Robert Westen of ACDEH agreed that additional soil excavation in the area would compromise the building and the driveway integrity.

Figure 3 illustrates the layout of the three USTs. Tank No. 1 (1,000 gallon) was oriented from east to west and extended perpendicular and just east of a chain link fence. A fill port and a ventilation pipe were exposed on the east end of this tank. Tank No. 2 (500 gallon) was oriented with a slight northwest to southeast slant. A fill

port and a ventilation pipe were exposed on the south end of this tank. Tank No. 3 (500 gallon) was oriented east to west and extended under the former shed area. There was no evidence of product piping associated with any of the three tanks. Corrosion and small holes were observed on the sides of Tank Nos. 2 and 3. Tank No. 1 did not exhibit any obvious evidence of surface corrosion, pitting or holes.

Once all three tanks were exposed, MPE discovered that Tank No.1 was approximately two thirds full of gasoline. Tank No. 3 contained water and Tank No. 2 was approximately three quarters full of hardened sand or grout as if abandonment in place had been previously attempted. MPE removed all residual liquids from all three tanks with a vacuum truck, through the fill port hole. The solids remained in Tank 2. When complete, MPE continued to excavate the surrounding soil to allow removal of the tanks. MPE cleaned the inside and outside of the tanks using a high velocity water hose. The excess water was also removed and disposed of. MPE inerted the tanks by adding dry ice into the fill ports. After 30 minutes, the interior of the tanks were tested for flammable conditions using a properly calibrated combustible gas indicator (CGI). Tank testing indicated that the flammable vapor levels were below 10 percent of the lower explosive limit and the oxygen level was 5 percent. Once a safe atmosphere was achieved, MPE removed the three tanks, intact, onto a flatbed truck to be disposed of at a proper facility. The City of Dublin Fire Department and the ACDEH personnel were on site to supervise the tank inerting, CGI testing and removal activities.

The excavated petroleum-impacted soil was stockpiled on visqueen, covered and remained temporarily on site until off-site disposal could be arranged. Upon completion of the tank removal and soil excavation activities, MPE backfilled the excavation using clean pea gravel. The gravel was placed at the bottom of the excavation to 6 inches bgs. MPE then restored the surface using concrete.

Closure Assessment Sampling Methods

On April 27, 2005, immediately following the tank removal, an ARCADIS project geologist collected soil samples from five locations within the excavated area at depths of 5 or 6 ft bgs under the direction and supervision of Mr. Robert Westen of ACDEH. Soil from the excavation walls were collected using the backhoe bucket. ARCADIS carefully collected each soil sample from the middle of the backhoe bucket to obtain a representative sample and to ensure no cross-contamination from the side of the bucket. A groundwater sample was also collected from the bottom of the excavation area, approximately 7 feet bgs, beneath Tank No. 1 using a disposable

bailer. Figure 3 shows the soil and groundwater sample locations. The laboratory analytical report and chain-of-custody documentation are included in Appendix A.

Although unleaded gasoline was reportedly the only fuel stored in the USTs at the site, each soil and water sample was analyzed for the unknown fuel group parameters, which include the following analyses:

- Total Petroleum Hydrocarbons as gasoline (TPHg) using EPA Method 8015B,
- Total Petroleum Hydrocarbons as diesel (TPHd) using EPA Method 8015B,
- BTEX (benzene, toluene, ethylbenzene and xylenes) using EPA Method 8021B,
- Fuel Oxygenates (MTBE, TAME, ETBE, DIPE, and TBA using EPA Method 8260B,
- Total lead using EPA Method 6010B, and
- Organic Lead using Method DHS LUFT.

Closure Assessment Sampling Results

The analytical results for the soil samples collected on April 27, 2005 indicated that two of the five soil samples had detectable petroleum-related constituents exceeding the California RWQCB ESLs for shallow soils, where water is a current or potential source of drinking water (California Regional Water Quality Control Board, San Francisco Region, February 2005). Soil sample West Wall #2 6 FT contained 210 milligrams per kilogram (mg/kg) of TPHg, 1,200 micrograms per kilogram ($\mu\text{g}/\text{kg}$) of ethylbenzene, and 190 $\mu\text{g}/\text{kg}$ of total xylenes. Sample North Wall #2 6 FT contained 760 mg/kg of TPHg, 2,000 $\mu\text{g}/\text{kg}$ of benzene, 7,400 $\mu\text{g}/\text{kg}$ of toluene, 8,700 $\mu\text{g}/\text{kg}$ of ethylbenzene, and 40,000 $\mu\text{g}/\text{kg}$ of total xylenes. Table 1 presents the analytical data compared to the ESLs and Figure 3 presents the sampling locations. The post excavation soil samples exhibiting petroleum-related constituents that exceed the RWQCB ESLs are localized in the vicinity of Tank No. 3 (West Wall #2 6 FT and North Wall #2 6 FT). This data suggests that Tank No. 3 is the likely source of the petroleum-impacted soil.

Lead was detected in all five samples at concentrations ranging from 6.0 to 7.8 mg/kg, whereas petroleum hydrocarbons were only detected in three of the five soil samples. As referenced in "Elements in North American Soils" by James Dragun,

Ph.D., 1991, California soils have a background mean total lead concentration of 29 mg/kg. The site representative reported that the tanks contained unleaded gas, which was verified by labels on two of the UST fill ports. Because of the preceding information, the low levels of lead in soil, which was detected well below its ESL of 750 mg/kg, do not appear to be attributable to a leaded gasoline fuel release and therefore appear to be naturally occurring.

The analytical results for the groundwater sample (Water 1) collected from the bottom of the excavation identified concentrations of petroleum-related constituents. TPHg (5,200 µg/L), benzene (44 µg/L), toluene (170 µg/L), ethylbenzene (100 µg/L) total xylenes (500 µg/L) and lead (100 µg/L) exceed the California RWQCB's ESLs in groundwater that may be a source of drinking water. Table 1 presents these data. Because the groundwater samples were collected from the bottom of the excavation and not from a monitoring well using low flow sampling techniques, the elevated lead concentrations detected in the groundwater sample are likely attributable to suspended sediments and not dissolved lead in groundwater.

TPHd was also detected in soil at sample North Wall 5 FT at 1.1 mg/kg and North Wall #2 6 FT at 140 mg/kg. TPHd was also detected in groundwater at 1,600 µg/L. For the TPHd results, the laboratory footnoted results to indicate that "Lighter hydrocarbons contributed to the quantitation" and "Sample exhibits chromatographic pattern which does not resemble standard". Upon further evaluation of the TPHd sample chromatograms, it is apparent that the reported results are likely a result of the heavier residual TPHg hydrocarbons (e.g., C10-C14) being extracted and reported as part of the TPHd analysis. On the basis of this evaluation and because site representatives report that diesel was not stored at the facility, the TPHd results are not considered indicative of a source of diesel at the site.

Waste Disposal and Site Restoration Activities

The waste generated during the tank closure assessment activities include 1,943 gallons of petroleum-contact water and rinsate removed from the tanks, 3,400 pounds tank scrap metal, and 53.73 tons of impacted soil. MPE was responsible for the waste manifesting, transportation and disposal of this waste. The petroleum-contact water and rinsate were transported off-site for disposal at Romac Environmental Technologies facility located in East Palo Alto, California. The tank metal was transported off-site for disposal at Ecology Control Industries located in Richmond, California.

A composite sample of the impacted excavated soils was analyzed for TPHg, TPHd, volatile organic compounds, Lust 5 metals and organic lead for use in profiling this waste soil for disposal. The petroleum-impacted soil was transported off-site for disposal at Waste Management's Altamont Class II landfill located in Livermore, California. MPE removed the stockpiled soil from the site on May 24, 2005. Manifests documenting the transportation and disposal of this waste are included in Appendix B.

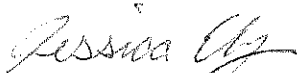
Conclusions

Two 500 gallon and one 1,000 gallon USTs were removed from the Busick-Gearing property. Petroleum-impacted soil was discovered in the shallow soils in the vicinity of Tank No. 3. The tanks contents, the USTs and 53.73 tons of petroleum-impacted soil were removed from the site in April 2005, thus eliminating the potential future source of petroleum impacts at the site. Post-excavation analytical results identified petroleum-related constituents exceeding the California RWQCB ESLs for shallow soils in two samples collected from the northern and western excavation walls adjacent to Tank No. 3 and exceeding the California RWQCB ESLs for groundwater that may be potentially used for drinking water in the groundwater sample collected from the base of the excavation. The remaining petroleum-impacted soil was not excavated during the tank closure activities due to the close proximity of an adjacent building. Per ACDEH's request, an Underground Storage Tanks Unauthorized Release (Leak)/Contamination Site Report was completed by Northern California Heat Pump, Inc. and ARCADIS and sent to ACDEH on May 5, 2005.

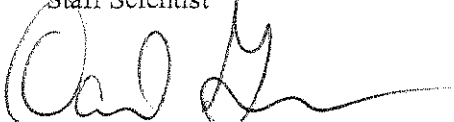
If you have any questions regarding this report, please feel free to contact the undersigned at (510) 233-3200. Thank you for your assistance with this matter.

Sincerely,

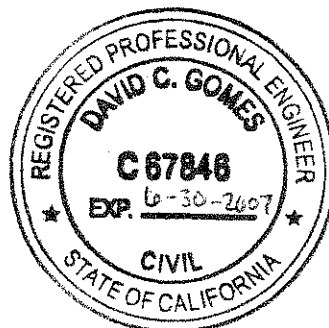
ARCADIS G&M, Inc.



Jessica Ely
Staff Scientist



David C. Gomes, PE
Project Engineer



ARCADIS

Mr. Robert Westen
18 July 2005

Attachments:

Appendix A Laboratory Analytical Reports
Appendix B Waste Disposal Manifests

Copies:

Mrs. Doreen Green
7440 Amarillo Road
Dublin, California 94568

Mr. John Wolfenden
Regional Water Quality Control Board, San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Peter W. McGaw, Esq.
Archer Norris
P.O. Box 8035
Walnut Creek, California 94596

TABLE 1
SOIL AND WATER ANALYTICAL RESULTS
Northern California Heat Pump
6335 Scarlett Court
Dublin, California
Underground Storage Tank Closure Report

Soil Sample Number Sample Date Sample Depth (ft bgs) Type	EPA Method	ESL in mg/kg Soil	Soil					Water	
			West Wall 6FT 4/27/05 6 Soil	West Wall #2 6FT 4/27/05 6 Soil	North Wall 5FT 4/27/05 5 Soil	North Wall #2 6FT 4/27/05 6 Soil	East Wall 6FT 4/27/05 6 Soil	Water 1 4/27/05 7 Water	
			ANALYTE	ESL in µg/L Water	ESL in µg/L Water				
TPHg (C7-C12)	8015B	100	ND	210 H Y	ND	760	ND	100	5,200
Benzene	8021B	0.044	ND	ND	ND	2.0	ND	1.0	44
Toluene	8021B	2.9	ND	ND	0.0015	7.4	ND	40	170
Ethylbenzene	8021B	3.3	ND	1.2	ND	8.7	ND	30	100
Total Xylenes*	8021B	2.3	ND	0.19 C	0.0013	40	ND	20	500
TPHd (C10-C24)	8015B	100	ND	35 L Y	1.1 Y	140 L Y	ND	100	1,600 L Y
tert-Butyl Alcohol (TBA)	8260B	0.073	ND	ND	ND	ND	ND	12	ND
Methyl tert-Butyl Ether (MTBE)	8260B	0.023	ND	ND	ND	ND	ND	5	ND
Isopropyl Ether (DIPE)	8260B	NA	ND	ND	ND	ND	ND	NA	ND
Ethyl tert-Butyl Ether (ETBE)	8260B	NA	ND	ND	ND	ND	ND	NA	ND
Methyl tert-Amyl Ether (TAME)	8260B	NA	ND	ND	ND	ND	ND	NA	ND
Total Lead	6010B	750	6.2	7.8	6.0	7.5	6.8	2.5	100
Organic Lead	DHS LUFT	NA	ND	ND	ND	ND	ND	NA	ND

Footnotes:

ESL = California Regional Water Quality Control Board Environmental Screening Level for Shallow Soils - Water is a Current or Potential Source of Drinking Water

Bold type indicates an exceedence of the ESL

mg/kg = milligrams per kilogram

µg/L = micrograms per liter

* = Sum of m,p-Xylenes and o-Xylene

TPHg = Total Petroleum Hydrocarbons as gasoline

TPHd = Total Petroleum Hydrocarbons as diesel

NA = Not Available

ND = Not detected at the laboratory detection limit.

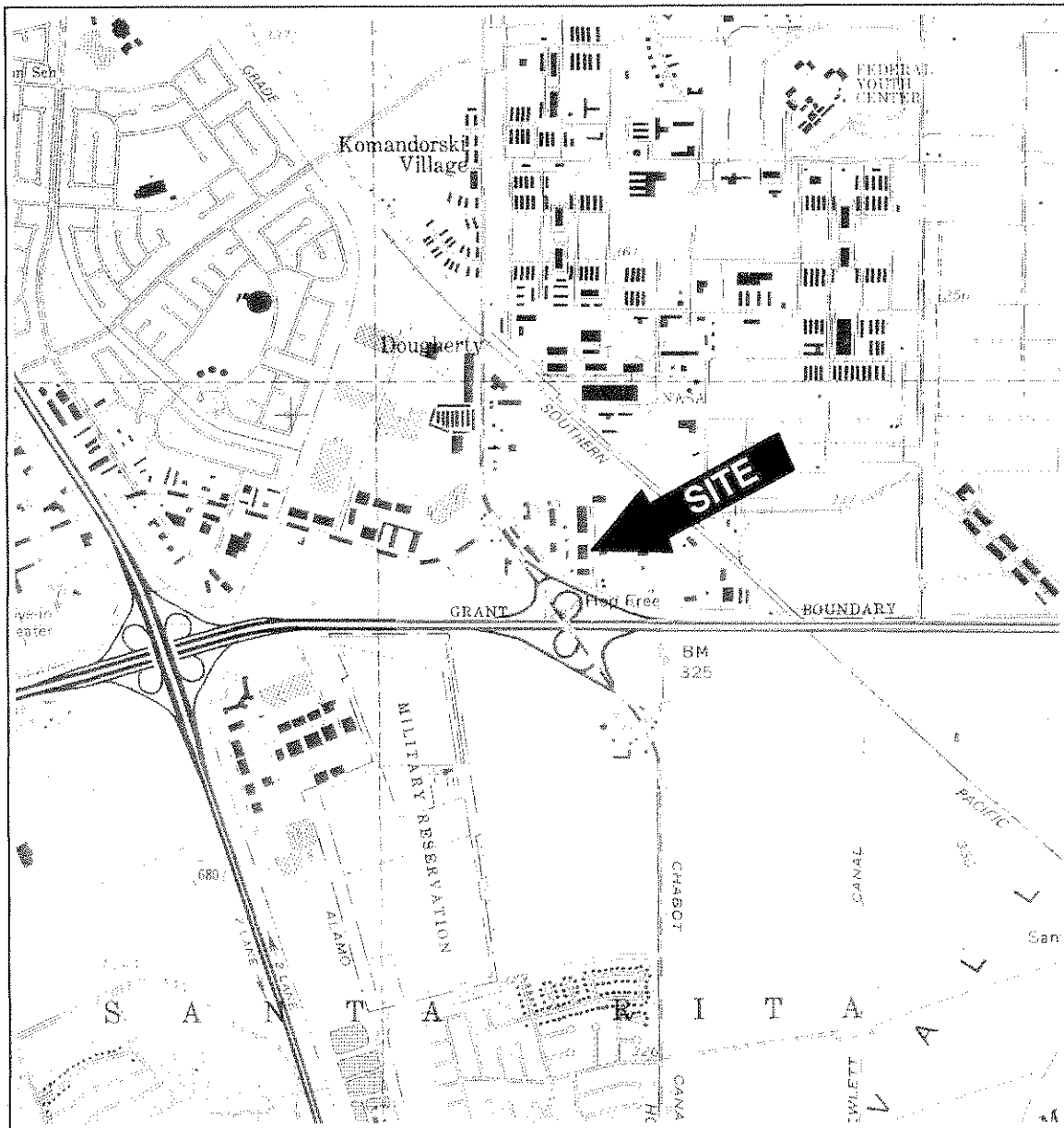
ft bgs = feet below ground surface

C = Presence confirmed, but recovery percent difference (RPD) between columns exceeds 40%.

H = Heavier hydrocarbons contributed to the quantitation.

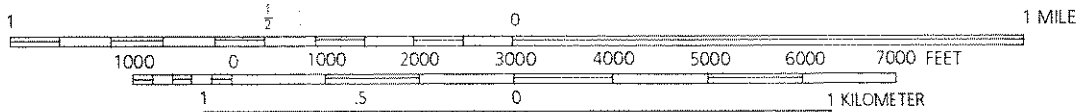
L = Lighter hydrocarbons contributed to the quantitation.

Y = Sample exhibits chromatographic pattern which does not resemble standard.

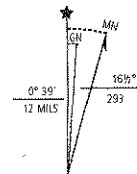


CONTOUR INTERVAL 40 FEET

SCALE 1:24000



QUADRANGLE LOCATION



UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Reference: U.S.G.S. 7.5-minute Quadrangle, Dublin, California, 1961 photorevised 1980.

Project Director PETERS	Area Manager PETERS
Task Manager GOMES	Technical Review GOMES
Drawing Date 18 JUL 05	Drawn By CHU



ARCADIS G&M, Inc.
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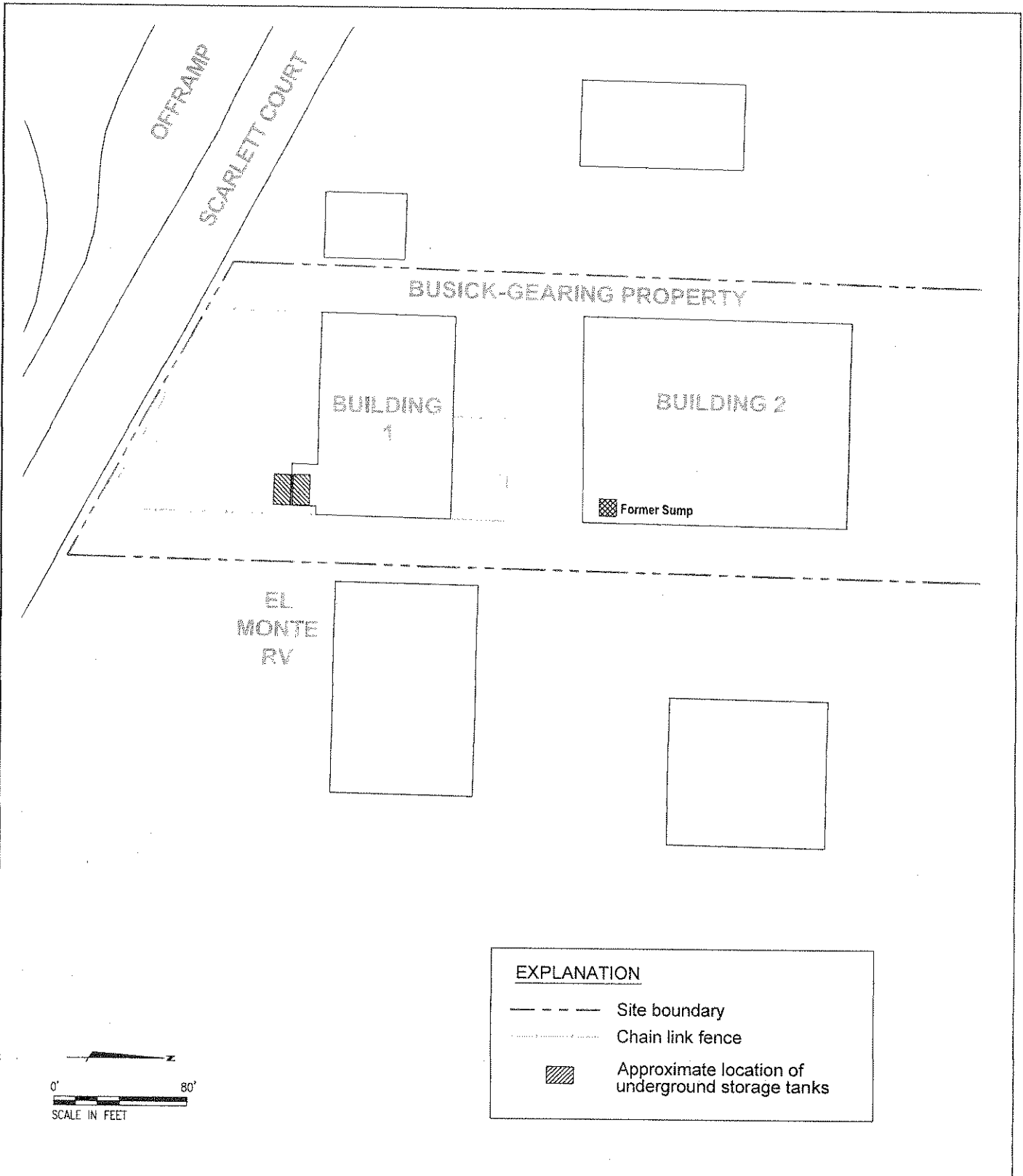
SITE LOCATION MAP
NORTHERN CALIFORNIA HEAT PUMP, INC.
6335 SCARLETT COURT
DUBLIN, CALIFORNIA

Project Number
RC000670


Figure
1

Date/Time: Fri, 15 Jul 2005 - 12:29pm
Path: \\naema\c\Projects-Active\Buck-Gearing\Reports\AUST Memorial Rpt 06-08\Program 1_L_SJM.dwg






Date \ Time : Fri, 15 Jul 2005 - 5:02pm
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 Acad Version : R16.1s (LMS Tech)
 User Name : mchiu
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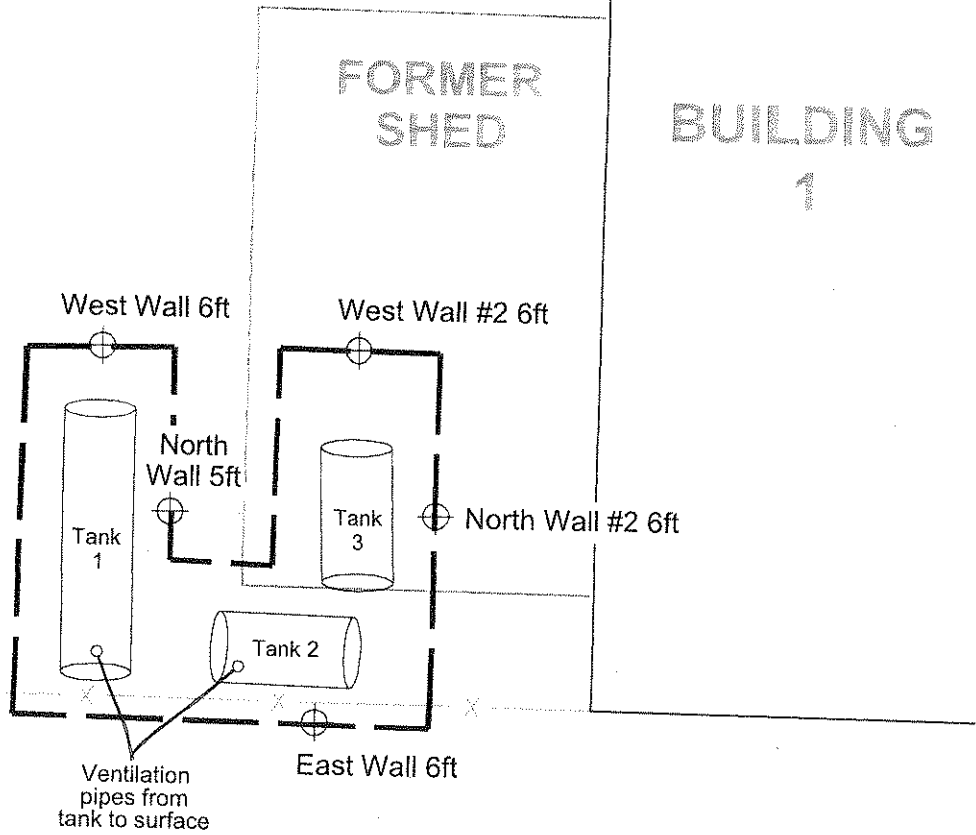
Reference: Monitoring well field survey conducted on 9 November 04.

Project Director PETERS	Area Manager PETERS	 ARCADIS ARCADIS G&M, Inc. 1050 Marina Way South Richmond, CA 94804 Tel: 510-233-3200 Fax: 510-233-3204 www.arcadis-us.com	Project Number RC000670
Task Manager GOMES	Technical Review GOMES		Figure 2
Drawing Date 19MAY05	Drawn By CHIU		SITE LAYOUT NORTHERN CALIFORNIA HEAT PUMP, INC. 6335 SCARLETT COURT DUBLIN, CALIFORNIA

EXPLANATION

-  Chain link fence
-  Former shed boundary
-  Excavated area
-  North Wall
-  Sample location

Tank 1 was a 1,000-gallon capacity tank.
Tanks 2 and 3 were 500-gallon capacity tanks.



Date/Time : Fri, 15 Jul 2005 - 5:09pm
Path/Name : G:\Projects-- Active\Busck--Georing\Reports\UST Removal Rpt. 06-05\Fig3.dwg

Arcad Version : R16.1s (LMS Tech)
User Name : mchui

Project Director	Area Manager
PETERS	PETERS
Task Manager	Technical Review
GOMES	GOMES
Drawing Date	Drawn By
19MAY05	CHIU



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EXCAVATION LAYOUT
NORTHERN CALIFORNIA HEAT PUMP, INC.
6335 SCARLETT COURT
DUBLIN, CALIFORNIA

Project Number
RC000670
Figure
3

Appendix A

Laboratory Analytical Reports



A N A L Y T I C A L R E P O R T

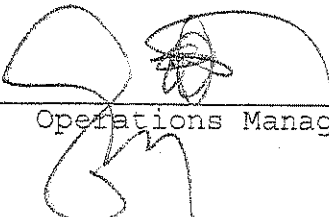
Prepared for:

Arcadis G&M
1050 Marina Way South
Richmond, CA 94804

Date: 18-MAY-05
Lab Job Number: 179146
Project ID: RC000670
Location: Busick-Gearing

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

This package may be reproduced only in its entirety.

Project Number/Name RC0006700121
 Project Location BUSICK-Clearfield
 Laboratory CURTIS & TOMPKINS
 Project Manager D. GAMES
 Sampler(s)/Affiliation JE/ARCADIS

ANALYSIS / METHOD / SIZE
 TPH-D / TOTAL LEAD
 DECAHALIC LEAD
 20 & 25 LITERS
 TPH-H / BTEX
 3 BOTTLES
 Fuel hydrocarbons
 3 BOTTLES
 TPH-L / Vol. % Benzene
 6 BOTTLES
 TPH-D / BTEX
 100 mL / 100 mL / 100 mL
 3 BOTTLES

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	TPH-D / TOTAL LEAD DECAHALIC LEAD 20 & 25 LITERS	TPH-H / BTEX 3 BOTTLES	Fuel hydrocarbons 3 BOTTLES	TPH-L / Vol. % Benzene 6 BOTTLES	TPH-D / BTEX 100 mL / 100 mL / 100 mL 3 BOTTLES	Remarks	Total
1 West well 16 ft	S	12/15/05		X	X	X				1
2 North well 50'	S	1325		X	X	X				1
3 West well 112' 6 ft	S	1335		X	X	X				1
4 North well #2 150'	S	1345		X	X	X				1
5 East well 16 ft	S	1355		X	X	X				1
Composite	S	1405		X	X	X				
Composite	S	1415		X	X	X				
Composite	S	1425		X	X	X				
6 Composite	S	1530					X	X	no lead in this sample	1

Received On Ice
 Cold Ambient Intact

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 40

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS</u>	Date: <u>11/25/05</u>	Time: _____	Seal Intact? Yes No N/A
Received by: <u>[Signature]</u>	Organization: <u>C&T</u>	Date: <u>9/28/05</u>	Time: <u>7:50 AM</u>	Seal Intact? Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? Yes No N/A
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? Yes No N/A

Special Instructions/Remarks: Question / comments please call Jessam Ely or David Games 80 233 3260

Delivery Method: In Person Common Carrier Lab Courier Other _____



Curtis & Tompkins Laboratories Analytical Report

Lab #:	179146	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	EPA 5035
Project#:	RC000670		
Matrix:	Soil	Sampled:	04/27/05
Basis:	as received	Received:	04/28/05
Batch#:	101544	Analyzed:	04/28/05

Field ID: WEST WALL #2 6FT Lab ID: 179146-003
 Type: SAMPLE Diln Fac: 10.00

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	210 H Y	10	mg/Kg EPA	8015B
Benzene	ND	50	ug/Kg EPA	8021B
Toluene	ND	50	ug/Kg EPA	8021B
Ethylbenzene	1,200	50	ug/Kg EPA	8021B
m,p-Xylenes	190 C	50	ug/Kg EPA	8021B
o-Xylene	ND	50	ug/Kg EPA	8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	130	60-138	EPA 8015B
Bromofluorobenzene (FID)	184 *	66-148	EPA 8015B
Trifluorotoluene (PID)	96	62-126	EPA 8021B
Bromofluorobenzene (PID)	122	72-133	EPA 8021B

Field ID: NORTH WALL #2 6FT Lab ID: 179146-004
 Type: SAMPLE Diln Fac: 20.00

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	760	20	mg/Kg EPA	8015B
Benzene	2,000	100	ug/Kg EPA	8021B
Toluene	7,400	100	ug/Kg EPA	8021B
Ethylbenzene	8,700	100	ug/Kg EPA	8021B
m,p-Xylenes	27,000	100	ug/Kg EPA	8021B
o-Xylene	13,000	100	ug/Kg EPA	8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	112	60-138	EPA 8015B
Bromofluorobenzene (FID)	153 *	66-148	EPA 8015B
Trifluorotoluene (PID)	100	62-126	EPA 8021B
Bromofluorobenzene (PID)	116	72-133	EPA 8021B

* = Value outside of QC limits; see narrative

C = Presence confirmed, but RPD between columns exceeds 40%

H = Heavier hydrocarbons contributed to the quantitation

Y = Sample exhibits chromatographic pattern which does not resemble standard

ND = Not Detected

RL = Reporting Limit

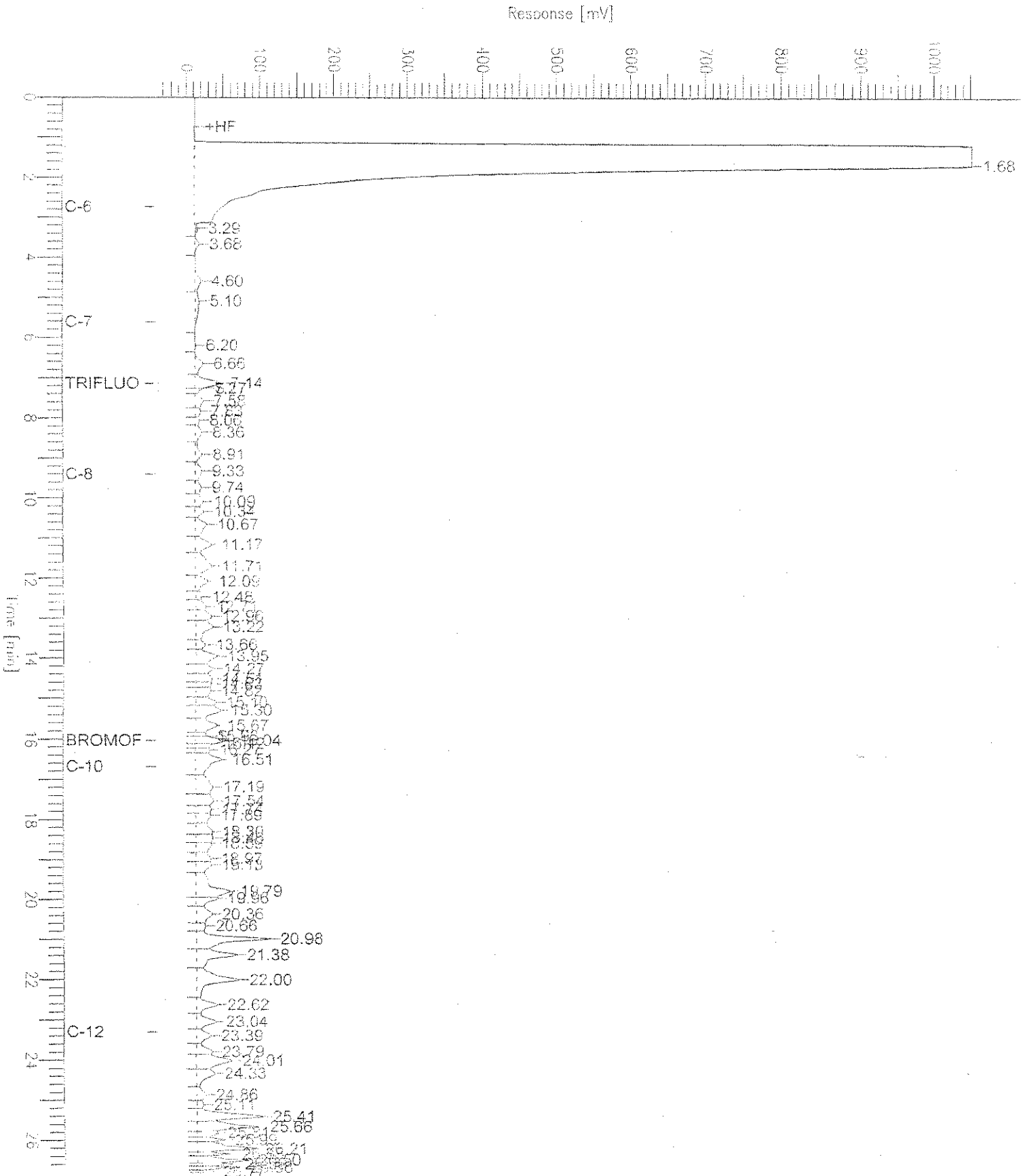
Page 2 of 3

GC19 TVH 'X' Data File (FID)

Sample Name : 179146-003.101544
 FileName : G:\GC19\DATA\118X010.raw
 Method : TVHBTXE
 Start Time : 0.00 min
 Scale Factor : 1.0

End Time : 26.80 min
 Plot Offset : -40 mV

Sample #: c
 Date : 4/29/05 11:41 AM
 Time of Injection: 4/28/05 03:48 PM
 Low Point : -39.95 mV
 High Point : 1052.24 mV
 Plot Scale: 1092.2 mV



GC19 TVH 'X' Data File (FID)

Sample Name : 179146-006.101544.tvh only

Sample #: c

Page 1 of 1

FileName : G:\GC19\DATA\118X012.raw

Date : 4/29/05 11:41 AM

Method : TVHBTXE

Time of Injection: 4/28/05 04:56 PM

Start Time : 0.00 min

End Time : 26.80 min

Low Point : -39.94 mV

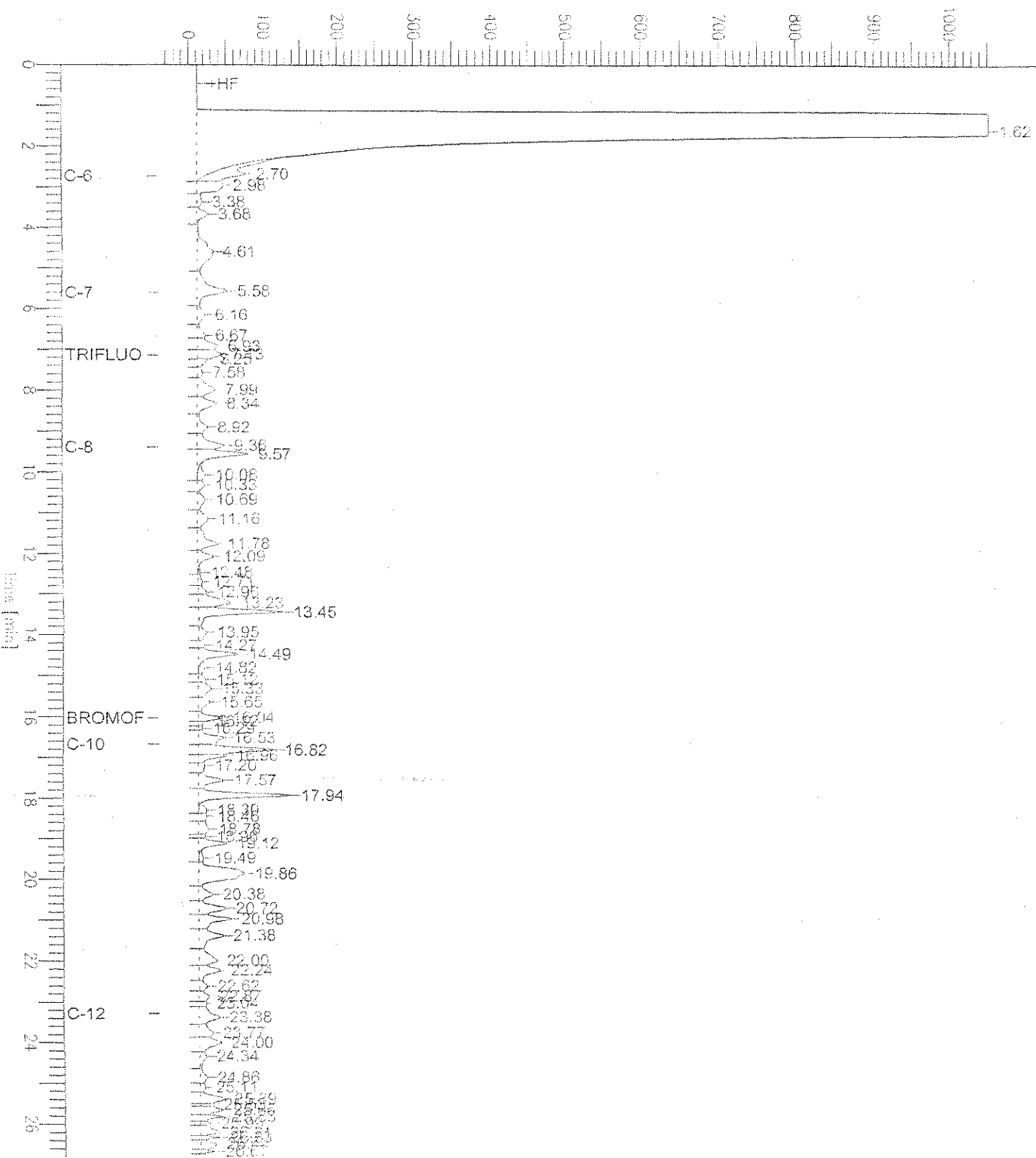
High Point : 1052.23 mV

Scale Factor: 1.0

Plot Offset: -40 mV

Plot Scale: 1092.2 mV

Response [mV]



Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	179146	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	EPA 5035
Project#:	RC000670	Analysis:	EPA 8021B
Type:	LCS	Basis:	as received
Lab ID:	QC291946	Diln Fac:	1.000
Matrix:	Soil	Batch#:	101544
Units:	ug/Kg	Analyzed:	04/28/05

Analyte	Spiked	Result	%REC	Limits
Benzene	100.0	105.1	105	80-120
Toluene	100.0	102.9	103	80-120
Ethylbenzene	100.0	106.8	107	80-120
m,p-Xylenes	100.0	91.20	91	80-120
o-Xylene	100.0	101.1	101	80-120

Surrogate	%REC	Limits
Trifluorotoluene (PID)	80	62-126
Bromofluorobenzene (PID)	90	72-133



Total Extractable Hydrocarbons

Lab #:	179146	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	SHAKER TABLE
Project#:	RC000670	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	04/27/05
Units:	mg/Kg	Received:	04/28/05
Basis:	as received	Prepared:	04/29/05
Diln Fac:	1.000	Analyzed:	04/29/05
Batch#:	101581		

Field ID: WEST WALL 6FT
Type: SAMPLE

Lab ID: 179146-001

Analyte	Result	RL
Diesel C10-C24	ND	0.99

Surrogate	%REC	Limits
Hexacosane	89	51-136

Field ID: NORTH WALL 5FT
Type: SAMPLE

Lab ID: 179146-002

Analyte	Result	RL
Diesel C10-C24	1.1 Y	1.0

Surrogate	%REC	Limits
Hexacosane	84	51-136

Field ID: WEST WALL #2 6FT
Type: SAMPLE

Lab ID: 179146-003

Analyte	Result	RL
Diesel C10-C24	95 L Y	1.0

Surrogate	%REC	Limits
Hexacosane	77	51-136

Field ID: NORTH WALL #2 6FT
Type: SAMPLE

Lab ID: 179146-004

Analyte	Result	RL
Diesel C10-C24	140 L Y	1.0

Surrogate	%REC	Limits
Hexacosane	90	51-136

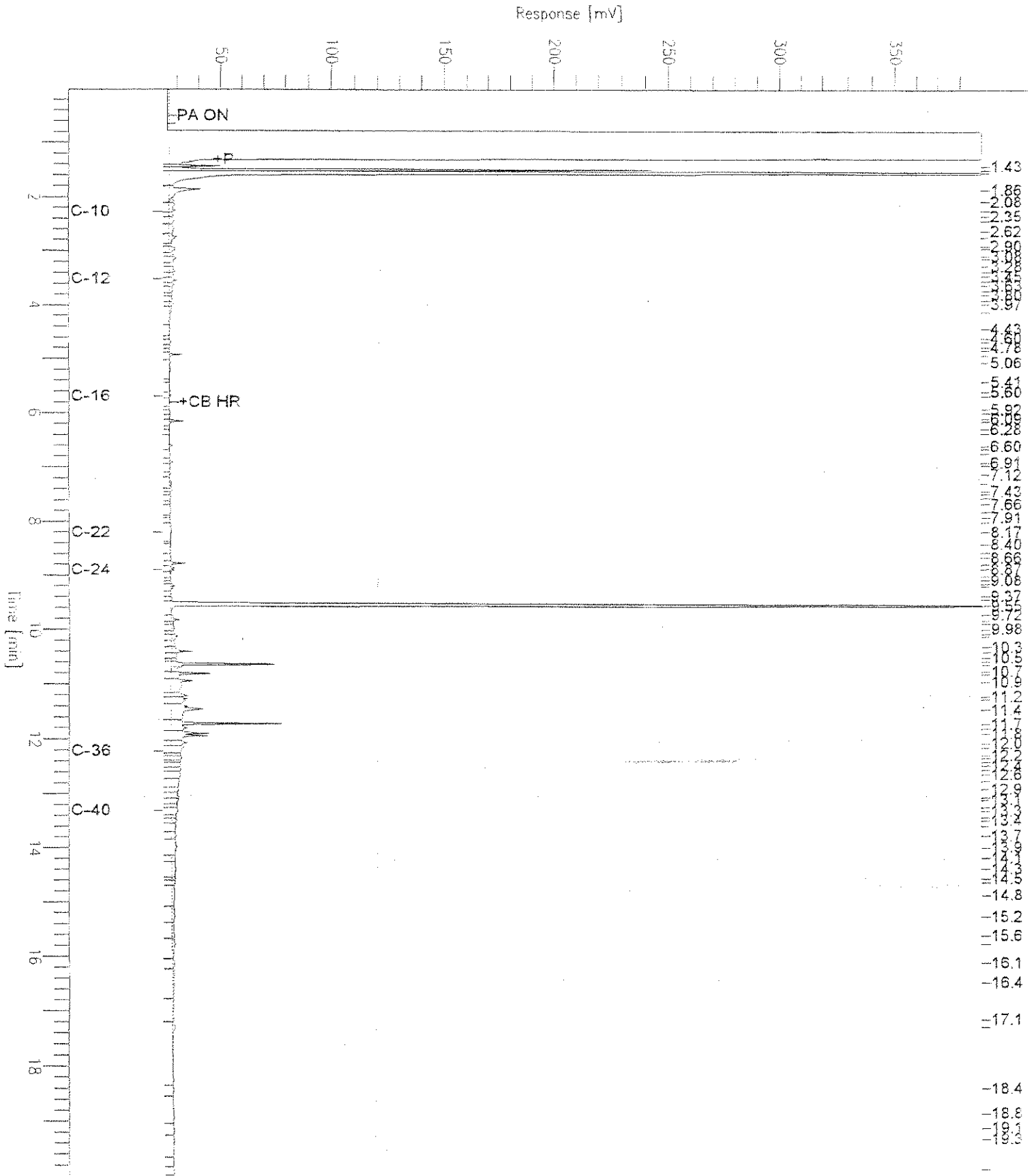
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : 179146-002,101581
 FileName : G:\GC17\CHA\119A006.RAW
 Method : ATEH117.MTH
 Start Time : 0.01 min
 Scale Factor : 0.0

End Time : 19.99 min
 Plot Offset : 23 mV

Sample #: 101581
 Date : 4/29/05 05:27 PM
 Time of Injection: 4/29/05 05:03 PM
 Low Point : 23.23 mV
 High Point : 389.43 mV
 Plot Scale: 366.2 mV

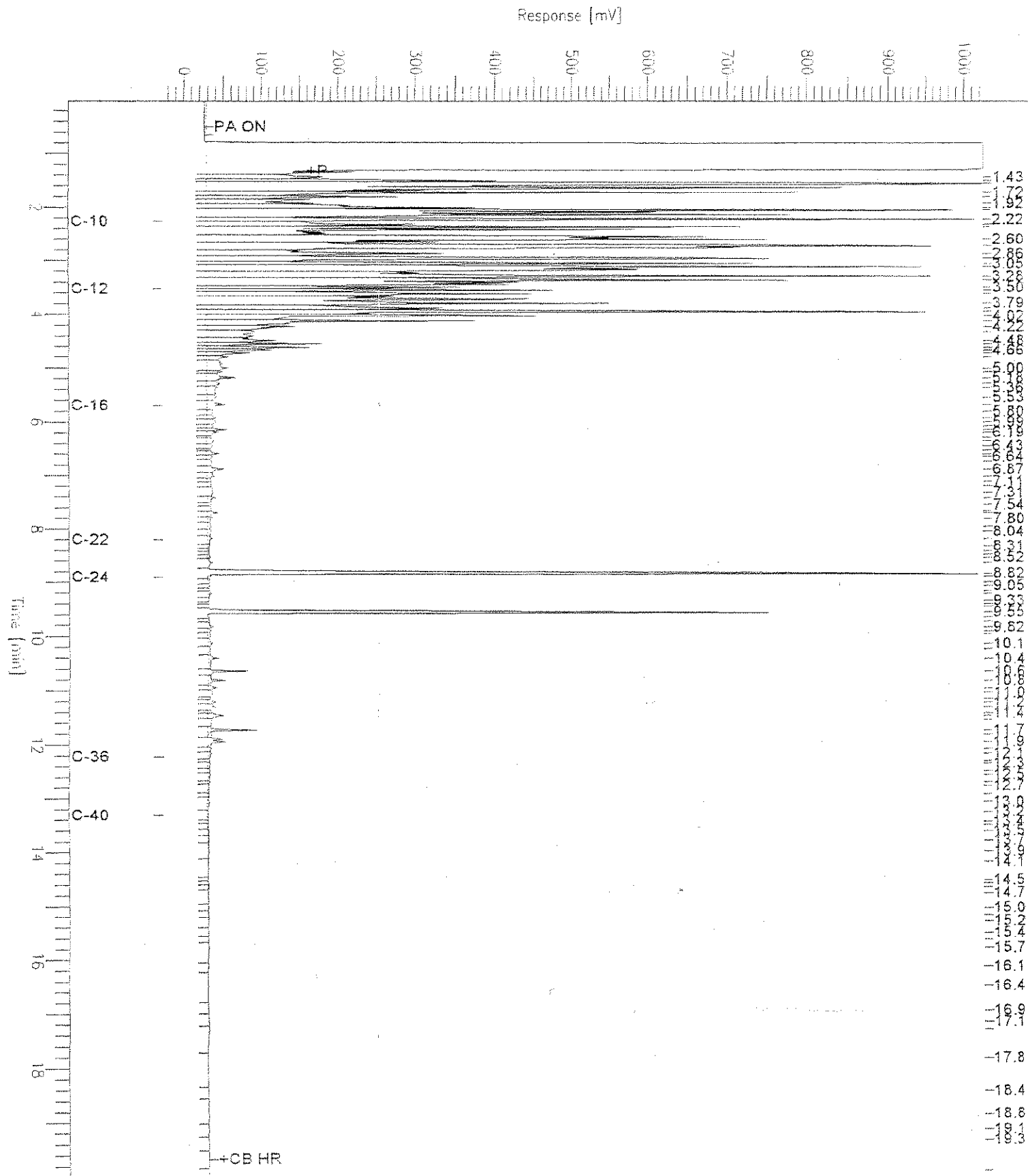


Chromatogram

Sample Name : 179146-004,101581
FileName : G:\GC17\CHA\119A010.RAW
Method : ATEH117.MTH
Start Time : 0.01 min
Scale Factor : 0.0

End Time : 19.99 min
Plot Offset: -27 mV

Sample #: 101581
Date : 4/29/05 06:23 PM
Time of Injection: 4/29/05 06:00 PM
Low Point : -27.15 mV
Plot Scale: 1051.1 mV
High Point : 1024.00 mV



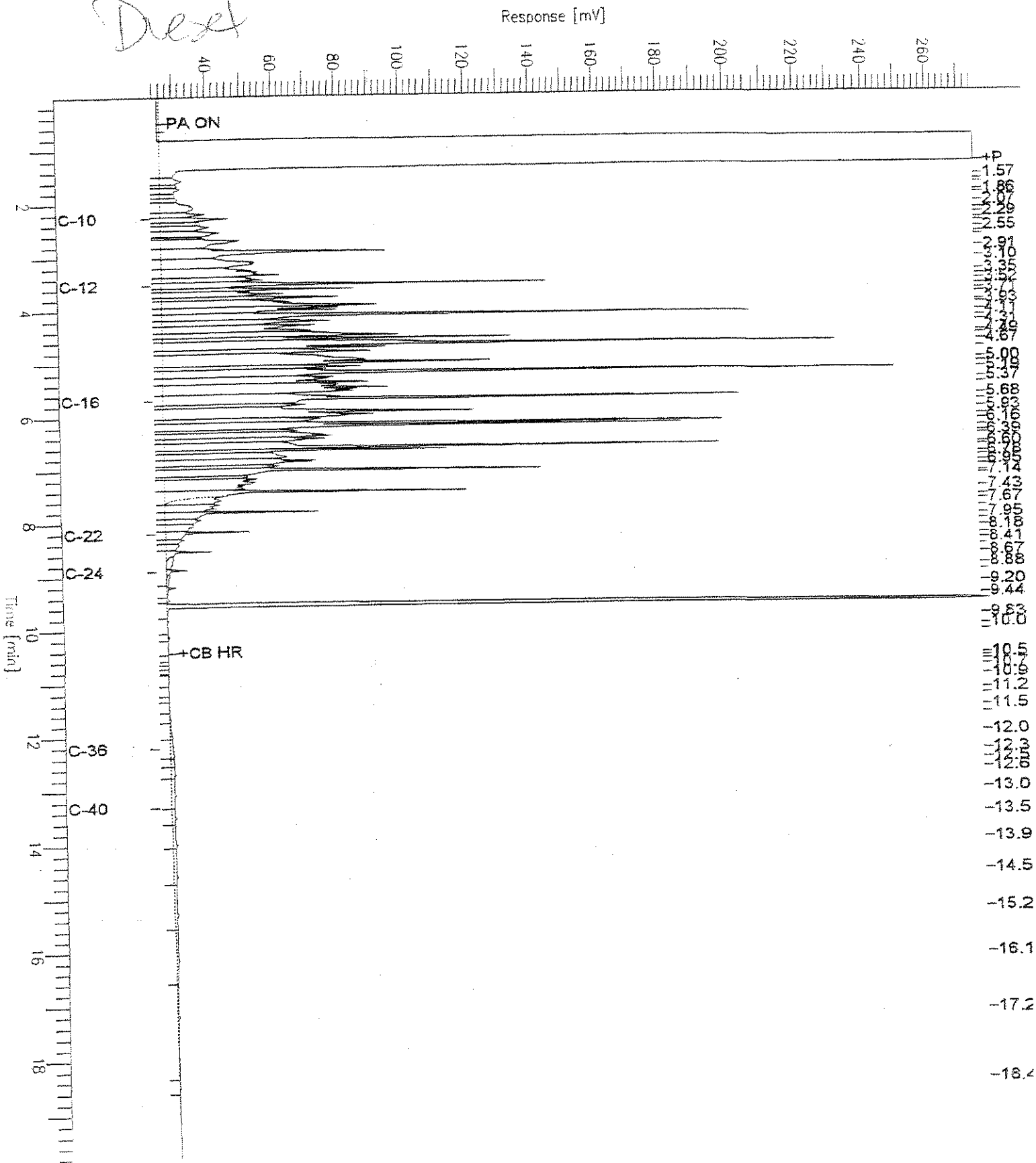
Chromatogram

Sample Name : ccv,s167,dsl
File Name : G:\GC17\CHA\119A005.RAW
Method : ATEH117.MTH
Start Time : 0.01 min
Scale Factor : 0.0

End Time : 19.97 min
Plot Offset : 23 mV

Sample #: 500mg/L
Date : 4/29/05 12:16 PM
Time of Injection: 4/29/05 11:36 AM
Low Point : 23.25 mV
Plot Scale: 251.6 mV
High Point : 274.83 mV

Diesel





Batch QC Report

Total Extractable Hydrocarbons

Lab #:	179146	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	SHAKER TABLE
Project#:	RC000670	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	101581
MSS Lab ID:	179148-002	Sampled:	04/27/05
Matrix:	Soil	Received:	04/28/05
Units:	mg/Kg	Prepared:	04/29/05
Basis:	as received	Analyzed:	04/29/05
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC292090

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	7.831	50.09	71.98	128	11-169

Surrogate	%REC	Limits
Hexacosane	128	51-136

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC292091

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.88	55.07	95	11-169	26	49

Surrogate	%REC	Limits
Hexacosane	105	51-136



Batch QC Report

California LUFT Metals

Lab #:	179146	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	EPA 3050B
Project#:	RC000676	Analysis:	EPA 6010B
Matrix:	Miscell.	Batch#:	101578
Units:	mg/Kg	Prepared:	04/29/05
Basis:	as received	Analyzed:	04/29/05
Diln Fac:	1.000		

Type: BS Lab ID: QC292071

Analyte	Spiked	Result	%REC	Limits
Cadmium	10.00	10.51	105	80-120
Chromium	100.0	102.3	102	80-120
Lead	100.0	99.22	99	80-120
Nickel	25.00	24.94	100	80-120
Zinc	25.00	25.23	101	80-120

Type: BSD Lab ID: QC292072

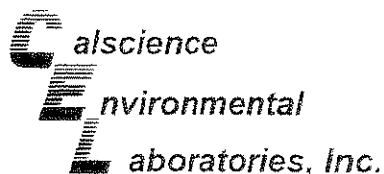
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	10.00	10.62	106	80-120	1	20
Chromium	100.0	104.3	104	80-120	2	20
Lead	100.0	99.72	100	80-120	1	20
Nickel	25.00	25.36	101	80-120	2	20
Zinc	25.00	25.56	102	80-120	1	20



Lead

Lab #:	179146	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	EPA 3050B
Project#:	RC000670	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	04/27/05
Units:	mg/Kg	Received:	04/28/05
Basis:	as received	Prepared:	04/29/05
Diln Fac:	1.000	Analyzed:	04/29/05
Batch#:	101578		

Field ID	Type	Lab ID	Matrix	Result	RL
WEST WALL 6FT	SAMPLE	179146-001	Soil	6.2	0.13
NORTH WALL 5FT	SAMPLE	179146-002	Soil	6.0	0.15
WEST WALL #2 6FT	SAMPLE	179146-003	Soil	7.8	0.099
NORTH WALL #2 6FT	SAMPLE	179146-004	Soil	7.5	0.11
EAST WALL 6FT	SAMPLE	179146-005	Soil	6.8	0.14
COMPOSITE	SAMPLE	179146-006	Soil	12	0.12
	BLANK	QC292070	Miscell.	ND	0.15



May 09, 2005

Lisa Brooker
Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Subject: Calscience Work Order No.: 05-04-1828
Client Reference: 179146

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/29/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

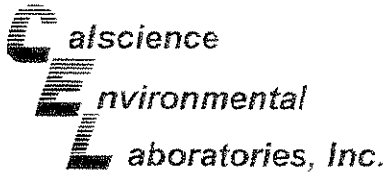
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jason Torres', is written over a horizontal line.

Calscience Environmental
Laboratories, Inc.
Jason Torres
Project Manager

A handwritten signature in black ink, appearing to read 'Michael...', is written at the bottom left of the page.



Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
 2323 Fifth Street
 Berkeley, CA 94710-2407

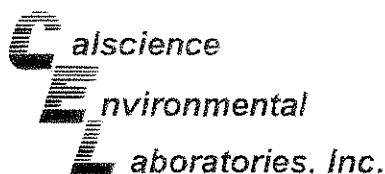
Date Received: 04/29/05
 Work Order No: 05-04-1828
 Preparation: DHS LUFT
 Method: DHS LUFT

Project 179146

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-04-1862-7	Solid	FLAA	05/05/05	05/05/05	050505S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	60	62	22-148	2	0-18	

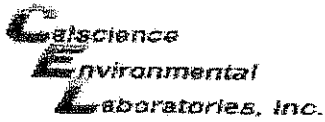
RPD - Relative Percent Difference, CL - Control Limit



Glossary of Terms and Qualifiers

Work Order Number: 05-04-1828

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



WORK ORDER #: 05 - 04 - 1828

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: C&T, LTD.

DATE: 04/29/05

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
Chilled, cooler without temperature blank.
Chilled and placed in cooler with wet ice.
Ambient and placed in cooler with wet ice.
Ambient temperature.
°C Temperature blank.

LABORATORY (Other than CalScience Courier):

- °C Temperature blank.
3.0 °C IR thermometer.
Ambient temperature.

Initial: Th

CUSTODY SEAL INTACT:

Sample(s): Cooler: No (Not intact): Not Applicable (N/A):

Initial: Th

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sample container label(s), Sample container(s) intact, Correct containers for analyses, Proper preservation, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: Th

COMMENTS:

Handwritten comment lines

CASE NARRATIVE

Laboratory number: 179147
Client: Arcadis G&M
Project: RC000670
Location: Busick-Gearing
Request Date: 04/28/05
Samples Received: 04/28/05

This hardcopy data package contains sample and QC results for two water samples, requested for the above referenced project on 04/28/05. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

Organic Lead (CA LUFT) (OL):

Cal Science in Garden Grove, CA performed the analysis. Please see the Cal Science case narrative.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	179147	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	RC000670		
Matrix:	Water	Sampled:	04/27/05
Units:	ug/L	Received:	04/28/05
Diln Fac:	1.000	Analyzed:	04/28/05
Batch#:	101545		

Field ID: WATER 1 Lab ID: 179147-001
 Type: SAMPLE

Analyte	Result	RL	Analysis
Gasoline C7-C12	5,200	50	EPA 8015B
Benzene	44	0.50	EPA 8021B
Toluene	170	0.50	EPA 8021B
Ethylbenzene	100	0.50	EPA 8021B
m,p-Xylenes	330	0.50	EPA 8021B
o-Xylene	170	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	121	63-141	EPA 8015B
Bromofluorobenzene (FID)	106	79-139	EPA 8015B
Trifluorotoluene (PID)	105	63-133	EPA 8021B
Bromofluorobenzene (PID)	95	79-128	EPA 8021B

Field ID: TRIP BLANK Lab ID: 179147-002
 Type: SAMPLE

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	96	63-141	EPA 8015B
Bromofluorobenzene (FID)	95	79-139	EPA 8015B
Trifluorotoluene (PID)	84	63-133	EPA 8021B
Bromofluorobenzene (PID)	86	79-128	EPA 8021B

Type: BLANK Lab ID: QC291948

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	97	63-141	EPA 8015B
Bromofluorobenzene (FID)	92	79-139	EPA 8015B
Trifluorotoluene (PID)	84	63-133	EPA 8021B
Bromofluorobenzene (PID)	83	79-128	EPA 8021B

Chromatogram

Sample Name : ccv/lcs_gc291950_161545_s247_5/5000
File Name : G:\GC05\DATA\118g003.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0

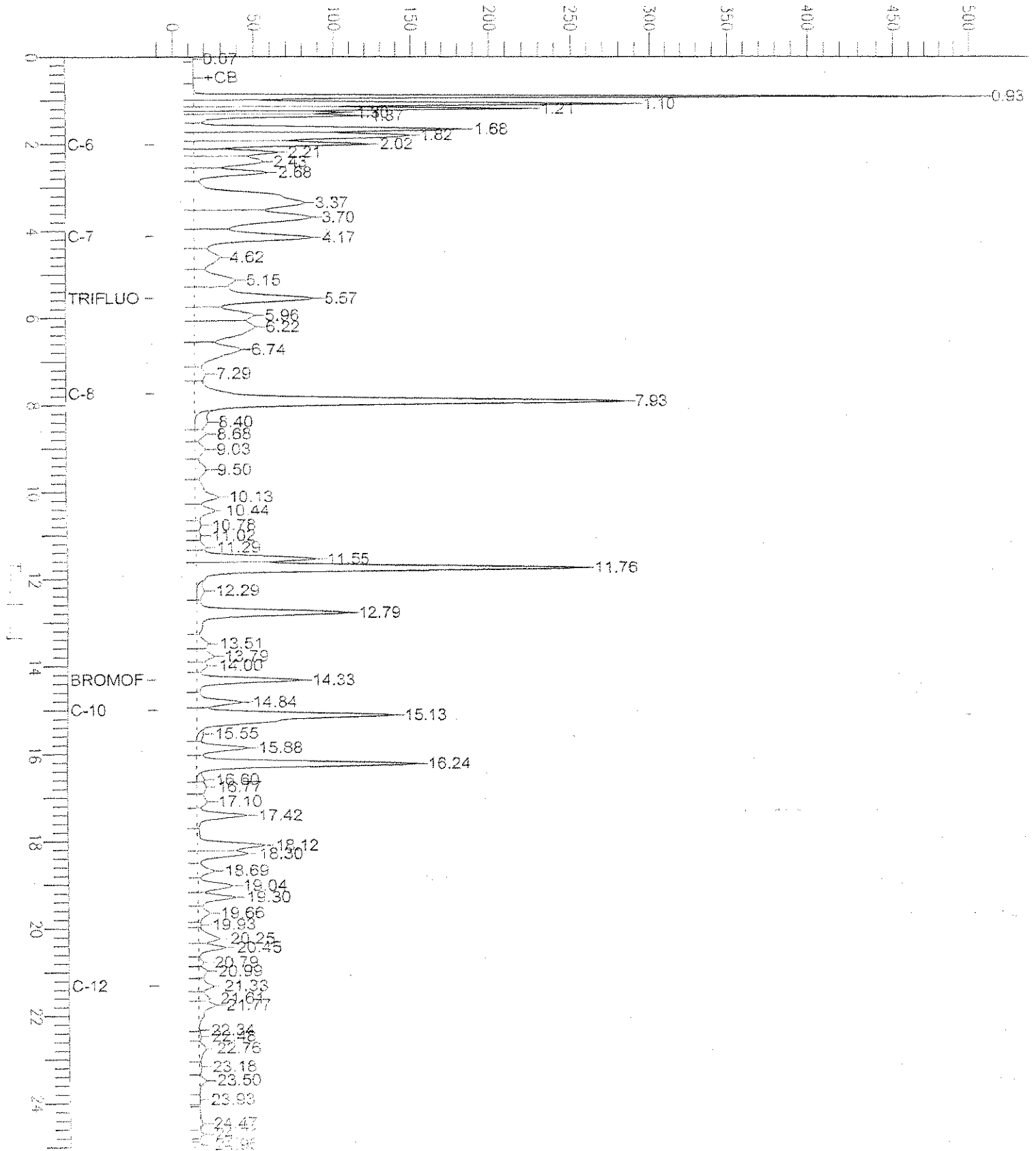
End Time : 25.00 min
Plot Offset: -11 mV

Sample #:
Date : 4/29/05 11:12 AM
Time of Injection: 4/28/05 10:55 AM
Low Point : -11.49 mV
Plot Scale: 519.2 mV
High Point : 507.69 mV

Page 1 of 1

Gasolene

Response [mV]



Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	179147	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	RC000670	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC291950	Batch#:	101545
Matrix:	Water	Analyzed:	04/28/05
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,023	101	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	139	63-141
Bromofluorobenzene (FID)	108	79-139



Total Extractable Hydrocarbons

Lab #:	179147	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	EPA 3520C
Project#:	RC000670	Analysis:	EPA 8015B
Field ID:	WATER 1	Sampled:	04/27/05
Matrix:	Water	Received:	04/28/05
Units:	ug/L	Prepared:	04/29/05
Diln Fac:	1.000	Analyzed:	05/01/05
Batch#:	101616		

Type: SAMPLE Lab ID: 179147-001

Analyte	Result	RL
Diesel C10-C24	1,600 L Y	50

Surrogate	%REC	Limits
Hexacosane	90	55-143

Type: BLANK Cleanup Method: EPA 3630C
Lab ID: QC292214

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	122	55-143

L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

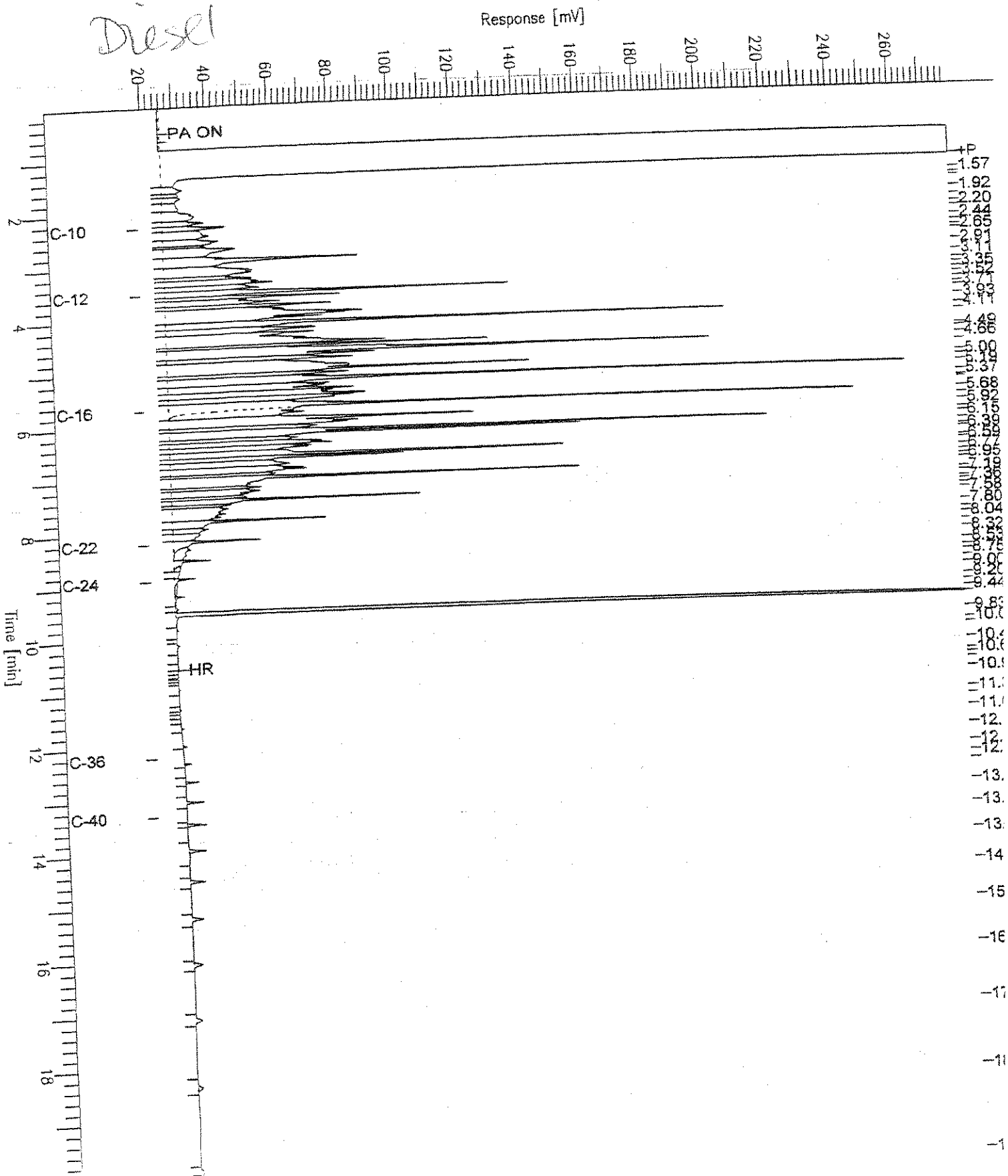
Chromatogram

Sample Name : ccv,S167,ds1
FileName : G:\GC17\CHA\121A003.RAW
Method : ATEH117.MTH
Start Time : 0.01 min
Scale Factor : 0.0

End Time : 19.99 min
Plot Offset : 18 mV

Sample #: 500mg/L
Date : 5/1/05 10:53 AM
Time of Injection: 5/1/05 10:08 AM
Low Point : 18.37 mV
High Point : 279.25 mV
Plot Scale: 260.9 mV

Diesel





Gasoline Oxygenates by GC/MS

Lab #:	179147	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	RC000670	Analysis:	EPA 8260B
Field ID:	WATER 1	Batch#:	101643
Matrix:	Water	Sampled:	04/27/05
Units:	ug/L	Received:	04/28/05
Diln Fac:	1.000	Analyzed:	05/02/05

Type: SAMPLE Lab ID: 179147-001

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
1,2-Dichloroethane	ND	0.5
1,2-Dibromoethane	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	103	80-122
Toluene-d8	104	80-120
Bromofluorobenzene	94	80-124

Type: BLANK Lab ID: QC292319

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
1,2-Dichloroethane	ND	0.5
1,2-Dibromoethane	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	100	80-122
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-124

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Batch QC Report

Gasoline Oxygenates by GC/MS

Lab #:	179147	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	RC000670	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	101643
MSS Lab ID:	179135-002	Sampled:	04/27/05
Matrix:	Water	Received:	04/27/05
Units:	ug/L	Analyzed:	05/03/05
Diln Fac:	1.000		

Type: MS Lab ID: QC292320

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<1.478	125.0	124.3	99	67-147
MTBE	<0.07041	25.00	26.66	107	75-122
Isopropyl Ether (DIPE)	<0.1601	25.00	26.16	105	79-120
Ethyl tert-Butyl Ether (ETBE)	<0.1225	25.00	28.47	114	80-120
Methyl tert-Amyl Ether (TAME)	<0.08733	25.00	28.55	114	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	99	80-122
Toluene-d8	101	80-120
Bromofluorobenzene	97	80-124

Type: MSD Lab ID: QC292321

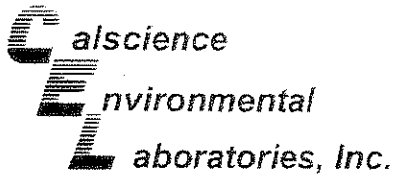
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	113.4	91	67-147	9	25
MTBE	25.00	22.76	91	75-122	16	20
Isopropyl Ether (DIPE)	25.00	21.93	88	79-120	18	20
Ethyl tert-Butyl Ether (ETBE)	25.00	24.34	97	80-120	16	20
Methyl tert-Amyl Ether (TAME)	25.00	24.58	98	80-120	15	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	100	80-122
Toluene-d8	102	80-120
Bromofluorobenzene	97	80-124

Batch QC Report

Lead			
Lab #:	179147	Location:	Busick-Gearing
Client:	Arcadis G&M	Prep:	EPA 3010A
Project#:	RC000670	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	101601
Field ID:	EEEEEEEE22	Sampled:	04/27/05
MSS Lab ID:	179141-013	Received:	04/28/05
Matrix:	Water	Prepared:	04/29/05
Units:	ug/L	Analyzed:	04/29/05
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%RBC	Limits	RPD	Lim
BS	QC292163		100.0	105.2	105	66-138		
BSD	QC292164		100.0	101.7	102	66-138	3	25
MS	QC292165	17.31	100.0	118.8	101	49-155		
MSD	QC292166		100.0	119.2	102	49-155	0	34



Analytical Report

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 04/29/05
Work Order No: 05-04-1829
Preparation: DHS LUFT
Method: DHS LUFT

Project: 179147

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
WATER 1	05-04-1829-1	04/27/05	Aqueous	05/04/05	05/04/05	050504L08

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

Method Blank	099-10-019-104	N/A	Aqueous	05/04/05	05/04/05	050504L08
--------------	----------------	-----	---------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.500	1		mg/L

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

alscience
Environmental Laboratories, Inc. Quality Control - Laboratory Control Sample

Curtis & Tompkins, Ltd. 2323 Fifth Street Berkeley, CA 94710-2407	Date Received: N/A Work Order No: 05-04-1829 Preparation: DHS LUFT Method: DHS LUFT
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------

Project: 179147

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-019-104	Aqueous	FLAA	05/04/05	NONE	050504L08

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	3.13	3.02	96	57-135	

RPD - Relative Percent Difference . CL - Control Limit

Curtis & Tompkins, Ltd.
 Analytical Laboratories, Since 1878
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900
 (510) 486-0532

8
 1429
 in

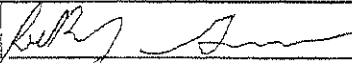
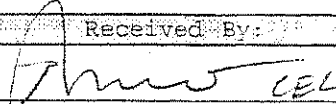
Project Number: 179147
 Site: Busick-Gearing

Subcontract Laboratory:
 Cal Science
 7440 Lincoln Way
 Garden Grove, CA 92641-1432
 (714) 895-5494
 ATTN: Jason Torres

Results due: Report Level: II

Please send report to: Lisa Brooker
 *** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
WATER 1	04/27	Water	OL	179147-001	

Notes:	Relinquished By:	Received By:
		 CEL
	Date/Time: 4/28/05 1345	Date/Time: 4-29-5 08:30

Signature on this form constitutes a firm Purchase Order for the services requested above.
 Page 1 of 1

Appendix B

Waste Disposal Manifests

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

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.	
3. Generator's Name and Mailing Address				4. US EPA ID Number				A. State/Manifest Document Number	
NORTHERN CALIFORNIA BEAT PUMP 7440 AMARILLO ROAD DUBLIN, CA 94568								24171028	
4. Generator's Phone (925) 878-2628				6. US EPA ID Number				B. State Generator's ID	
5. Transporter 1 Company Name				8. US EPA ID Number				C. State Transporter's ID (Reserved)	
EPA ENVIRONMENTAL SERVICES, INC.								D. Transporter's Phone	
7. Transporter 2 Company Name				8. US EPA ID Number				E. State Transporter's ID (Reserved)	
								F. Transporter's Phone	
9. Designated Facility Name and Site Address				10. US EPA ID Number				G. State Facility's ID	
ECOLGY CONTROL INDUSTRIES 255 PARR BLVD DUBLIN, CA 94568								H. Facility's Phone	
11. US DOT Description (including Proper Shipping Name, hazard Class, and ID Number)					12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste Number	
a. NON-RCRA HAZARDOUS WASTE SOLID (WASTE EMPTY STORAGE TANKS)					No. Type			State	
					6 0 2 - TP 0 1 2 1 1 0			EPA/Other	
								State	
								EPA/Other	
								State	
								EPA/Other	
								State	
								EPA/Other	
11. Additional Descriptions for Materials Listed Above					11. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information									
WEAR PROPER PPE WHEN HANDLING. WEIGHTS OR VOLUMES ARE APPROXIMATE. 24 HR EMERGENCY PHONE (800) 456-3036 SITE ADDRESS: 6341 SCARLETT COURT, DUBLIN, CA 94568									
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		
[Signature]		[Signature]			01	27	05		
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature			Month	Day	Year		
[Signature]		[Signature]			01	27	05		
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature			Month	Day	Year		
[Signature]		[Signature]							
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.

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of _____		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address:		NORTHERN CALIFORNIA HEAT PUMP 7440 AMARILLO ROAD DUBLIN, CA 94568		A. State Manifest Document Number		24171025		B. State Generator's ID	
4. Generator's Phone 1 925 828-2520		5. Transporter 1 Company Name		c. US EPA ID Number		C. State Transporter's ID [Reserved.]		D. Transporter's Phone	
6. Environmental Services, Inc.		7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID [Reserved.]		F. Transporter's Phone	
9. Designated Facility Name and Site Address:		10. US EPA ID Number		G. State Facility ID		H. Facility's Phone			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste Number	
a. NO WASTE FLAMMABLE LIQUID, NOS. 3, UN1993, POIL (GAS/OIL/WATER)		No. Type		Quantity		Wt/Vol		State EPA/Other	
		9 9 1 T T		1962		0		State EPA/Other	
b.								State EPA/Other	
c.								State EPA/Other	
d.								State EPA/Other	
16. Additional Descriptions for Materials Listed Above		17. Handling Codes for Wastes Listed Above							
11A. HAZARDOUS WASTE ONLY PROFILE		a.		b.					
		c.		d.					
15. Special handling instructions and Additional Information									
WEAR PROPER PPE WHEN HANDLING 24 HR EMERGENCY PHONE (800) 424-8802									
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	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature				Month Day Year	
Printed/Typed Name				Signature				Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature				Month Day Year	
Printed/Typed Name				Signature				Month Day Year	
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.

NON-HAZARDOUS WASTE MANIFEST



M P Environmental Services, Inc.
P.O. Box 80358 • Bakersfield, CA 93380 • (805) 829-1151

42998

PROFILE NO. 55316100

AZ BK LA OKLA
 UT WA YOLO

TO BE COMPLETED BY GENERATOR

NOTE: This form to be in lieu of the Toxic Substance Controls hazardous waste manifest. To be used for NON-HAZARDOUS WASTES only.

Name: NORTHERN CALIF. HEAT PUMP, INC
Mailing Address: 7440 AMARILLO ROAD
City / State / Zip: DUBLIN, CA 94568
Phone No: (925) 828-2620 Contact: _____
Signature: [Signature] Date: 05/24/05

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS

Waste Description: HYDROCARBON IMPACTED SOIL (NON HAZARDOUS)
Generating Location: 6341 SCARLETT COURT, DUBLIN, CA 94568
Handling Instructions: WEAR PROPER PPE
Quantity: 18 [] BBL [] GLS YDS [] TONS
CONTAINER TYPE: [] TANKTRUCK DUMPTRUCK [] DRUMS [] BINS [] OTHER

DESIGNATED FACILITY:
NAME: ALTMONT LANDFILL ADDRESS: 10840 ALTMONT PASS RD
CITY/STATE/ZIP: LIVERMORE, CA 94550 PHONE #: (925) 449-6349

TRANSPORTER

MP VACUUM TRUCK SERVICE
MP ENVIRONMENTAL SERVICES, INC.
3400 Manor Street
Bakersfield, CA 93308
805-7388-1151

TICKET# _____ TRAC/TRLR# 510 / 102
Emp No's 142998
Signature: [Signature]
Date: 05-24-05
PIE DATE: _____ Job # _____

TSDF FACILITY

Name: ALTMONT LANDFILL Disposal Method: Landfill Other _____
Address: 10840 ALTMONT PASS RD
City/State/Zip: LIVERMORE, CA 94550
Phone No: (925) 449-6349 Time: _____ am/pm
Discrepancy: _____

Signature: [Signature] Date: 5, 24, 05

NON-HAZARDOUS WASTE MANIFEST



M P Environmental Services, Inc.
P.O. Box 80359 - Bakersfield, CA 93380 - (661) 399-1151

42999

PROFILE NO. 55316100

AZ BK LA OKLA
 UT WA YOLO

NOTE: This form to be in lieu of the Toxic Substance Controls hazardous waste manifest. To be used for NON-HAZARDOUS WASTES only.

TO BE COMPLETED BY GENERATOR

Name : NORTHERN CALIF. HEAT PUMP, INC
Mailing Address : 7440 AMARILLO ROAD
City / State / Zip : DUBLIN, CA 94568
Phone No : (925) 828-2620 Contact : _____
Signature: X [Signature] Date: 5, 29, 05

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS

Waste Description : HYDROCARBON IMPACTED SOIL (NON HAZARDOUS)
Generating Location : 6341 SCARLETT COURT, DUBLIN, CA 94568
Handling Instructions : WEAR PROPER PPE
Quantity : 18 [] BBL [] GLS [X] YDS [] TONS
CONTAINER TYPE: [] TANK TRUCK [X] DUMP TRUCK [] DRUMS [] BINS [] OTHER _____

DESIGNATED FACILITY:

NAME: ALTMONT LANDFILL ADDRESS: 10840 ALTAMONT PASS RD
CITY/STATE/ZIP: LIVERMORE, CA 94550 PHONE #: (925) 449-6349

TRANSPORTER

MP VACUUM TRUCK SERVICE
MP ENVIRONMENTAL SERVICES, INC.
3400 Manor Street
Bakersfield, CA 93308
661 / 393-1151

TICKET# _____ TRACT/TRLR# 510 / 102
Bin No's _____
Signature: [Signature]
Date: 05-29-05 Job # _____
P/U DATE: _____

TSD FACILITY

Name : ALTMONT LANDFILL Disposal Method : _____
Address : 10840 ALTAMONT PASS RD Landfill Other _____
City/State/Zip : LIVERMORE, CA 94550
Phone No : (925) 449-6349 Time : _____ am
Discrepancy : _____ pm

Signature: [Signature] Date: 5, 29, 05

NON-HAZARDOUS WASTE MANIFEST

PROFILE NO. 55316100



M P Environmental Services, Inc.
P.O. Box 80366 • Bakersfield, CA 93380 • (661) 393-1151

43000

AZ BK LA OKLA
 UT WA YOLO

NOTE: This form to be in lieu of the Toxic Substance Controls hazardous waste manifest. To be used for NON-HAZARDOUS WASTES only.

TO BE COMPLETED BY GENERATOR

Name : NORTHERN CALIF. HEAT PUMP, INC

Mailing Address : 7440 AMARILLO ROAD

City / State / Zip : DUBLIN, CA 94568

Phone No : (925) 828-2620 Contact : _____

Signature: [Signature] Date: 5/29/05

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS

Waste Description : HYDROCARBON IMPACTED SOIL (NON HAZARDOUS)

Generating Location : 6341 SCARLETT COURT, DUBLIN, CA 94568

Handling Instructions : WEAR PROPER PPE

Quantity : _____ [] BBL [] GLS [] YDS [] TONS

CONTAINER TYPE: [] TANK TRUCK [] DUMP TRUCK [] DRUMS [] BINS [] OTHER _____

DESIGNATED FACILITY :

NAME : ALTMONT LANDFILL ADDRESS : 10840 ALTAMONT PASS RD

CITY/STATE/ZIP: LIVERMORE, CA 94558 PHONE # : (925) 449-6349

TRANSPORTER

MP VACUUM TRUCK SERVICE
MP ENVIRONMENTAL SERVICES, INC.
3400 Manor Street
Bakersfield, CA 93308
661 / 393-1151

TICKET# _____ TRACT/TRLR# 510 / 102
Bin No's _____
Signature: [Signature]
Date 5-24-05
PIU DATE: 5-24-05 Job # _____

TSR FACILITY

Name : ALTMONT LANDFILL Disposal Method : _____

Address : 10840 ALTAMONT PASS RD Landfill Other _____

City/State/Zip : LIVERMORE, CA 94558

Phone No : (925) 449-6349 Time : _____ am
Discrepancy : _____ pm

Signature: K. Brown Date: 5/24/05