

Project No.
5403.3.001.01

JAN 09 2002

January 4, 2002

Mr. David Weiss
AAA Truck & Van Parts
3884 Depot Road
Hayward, CA 94545

Subject: AAA Truck & Van Parts
3884 Depot Road
Hayward, California

REPORT ON SITE CHARACTERIZATION

Reference: ENGEO Inc.; Proposal for a Limited Site Characterization, AAA Truck & Van Parts, 3884 Depot Road, Hayward, California; October 22, 2001, Revised November 15, 2001.

Dear Mr. Weiss:

At your request, ENGEO Incorporated has performed a limited study to evaluate potential soil and groundwater impacts associated with the existing vehicle dismantling yard on the subject property, located in Hayward, California (Figure 1). The work was performed at the request of the Alameda County Environmental Health Department and performed in conjunction with the approved work plan dated October 22, 2001, revised November 15, 2001 (Reference).

SCOPE OF WORK

The scope of work included the following:

- Advance of 8 Geoprobe borings with the recovery of 16 soil samples and recovery of three grab-groundwater samples.
- Laboratory analysis of 11 soil and 3 groundwater samples for gasoline, diesel and motor oil range petroleum hydrocarbons, total oil and grease, Volatile Organic Compounds, and LUFT metals (Cr,Cu,Pb,Ni,Zn).
- Preparation of this report summarizing our findings with conclusions and recommendations.

SITE ACTIVITIES

Geoprobe Borings

The subsurface assessment was undertaken on November 15, 2001, under the observation of an ENGEO Environmental Geologist. The purpose of the probing was to evaluate areas of potential environmental concern associated with current/former site activities (Figure 2). The Geoprobe locations were approved by Ms. Eva Chu with the Alameda County Environmental Health Department (ACEHD). The probe depths ranged from 3 feet to 20 feet below the ground surface. Three of the probes were advanced to a depth of 12 feet to 20 feet for the recovery of grab-groundwater samples. Field screening of the soil was performed using a Thermoelectron 580B photoionization detector (PID) equipped with a 10eV bulb. The eight Geoprobe borings were performed under permit with the Alameda County Public Works Department and grouted with cement upon sample recovery. Geologic logs with the results of PID screening are provided in Appendix D.

Soil Sampling/Laboratory Analysis

A total of sixteen soil samples were recovered from the probes, with each location sampled at 1 foot and 3 feet below the ground surface. The 8 one-foot samples were submitted for laboratory analysis (Figure 2). Samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), diesel (TPH-d), and motor oil (TPH-MO) by EPA Method 8015/8020; volatile organic compounds (VOCs) by EPA Method 8260, Total Oil and Grease (TOG) by EPA Method 5520, and LUFT metals (Chromium (Cr), Copper (Cu), Lead (Pb), Nickel (Ni), and Zinc (Zn) by EPA Method 6010. Silica gel cleanup was performed prior to the TPHd/MO and TOG analysis to reduce interference from naturally occurring organic compounds. The soil samples were recovered in 4-foot-long acrylic tubes. Sample tubes were cut into six-inch lengths at the appropriate sampling interval. The sample tubes were sealed with Teflon sheets, polyethylene end caps and tape. Samples were immediately placed in an ice-cooled chest for transport under documented chain of custody to McCampbell Analytical in Pacheco, California.

Concentrations of TPH-d, TPH-MO and TOG were reported in seven of the eight samples. Diesel concentrations were reported to range between 2.5 parts per million (ppm) to 1,100 ppm and motor oil concentrations were report at 51 ppm to 7,900 ppm. Oil and grease concentrations were reported at 300 ppm to 35,000 ppm. Gasoline range petroleum hydrocarbons and cumulative VOCs were reported in one sample at 1.7 ppm and 0.2269 ppm, respectively. Results of the organic compound laboratory analyses are summarized in Table I.

TABLE I – Organic Compound Summary
 Near Surface (1-foot) Soil Samples
 (Concentrations reported in parts per million)

Sample Number	TPH Gasoline	TPH Diesel	Motor Oil	Total Oil & Grease	Cumulative VOCs by 8260
1-1	ND ¹	ND	ND	ND	ND
2-1	1.7	1,100	7,900	35,000	0.2269
3-1	ND	67	400	1,100	ND
4-1	ND	23	160	1,000	ND
5-1	ND	2.5	51	480	ND
6-1	ND	9.2	56	300	ND
7-1	ND	140	2,400	12,000	ND
8-1	ND	59	130	4,600	ND

1. ND: Non detect, below laboratory reporting limit.
2. Total Chromium (1/6 Ratio CrVI/CrIII).

Concentrations of the metals Cr, Pb, Ni and Zn were reported in each of the eight samples analyzed. Cadmium was reported above detection limits in six of the eight near-surface soil samples. Chromium and lead concentrations were reported to range between 27 ppm and 390 ppm, and 7.4 ppm to 310 ppm, respectively. Concentrations of nickel, and zinc were reported to range between 28 ppm and 51 ppm, and 50 ppm to 1,800 ppm, respectively. Cadmium concentrations were reported to range between 0.74 ppm and 4.1 ppm. Metal concentrations reported for the near-surface soil samples are presented in Table II.

TABLE II – LUFT Metals
 Near Surface (1-foot) Soil Samples
 (Concentrations reported in parts per million)

Sample Number	Cadmium (Cd)	Chromium (Cr)	Lead (Pb)	Nickel (Ni)	Zinc (Zn)
1-1	ND ¹	38	7.4	44	50
2-1	4.1	61	230	36	300
3-1	1.0	390	100	32	1,100
4-1	2.1	61	110	34	320
5-1	ND	48	13	32	88
6-1	2.5	260	310	40	1,800
7-1	1.2	27	150	28	170
8-1	0.74	220	60	51	500
TTL ²	100	2,500	1,000	2,000	5,000
STLC ³	1.0	5 ⁴	5	20	250
PRG ⁵	810	450 ⁴	750	41,000	100,000

1. ND: Non detect, below laboratory reporting limit.
2. TTL: Total Threshold Limit Concentration regulatory concentration for hazardous waste.
3. STLC: Soluble Threshold Limit Concentration regulatory concentration for hazardous waste.
4. Total Chromium (1/6 Ratio CrVI/CrIII).
5. EPA Preliminary Remediation Goal for Industrial site soils, reported in parts per million.

Based in the results of the near-surface soil analyses, ACEHD representative Ms. Eva Chu requested the analysis of five of the shallow surface (3-foot) soil samples. Ms. Chu requested that Samples 2-2, 7-2 and 8-2 be analyzed for diesel, motor oil, BTEX, and TOG, with Samples 2-2, 3-2, and 6-2 to be analyzed for the five LUFT metals.

Concentrations of diesel and motor oil range petroleum hydrocarbons and TOG were reported in two of the three samples. Diesel concentrations were reported at 19 ppm and 68 ppm and motor oil concentrations were report at 65 ppm and 1,100 ppm. Concentrations of oil and grease were reported at 200 ppm to 5,700 ppm. Toluene was reported in one sample at 0.018 ppm. Results of the 3-foot organic compound laboratory analyses are presented in Table III.

TABLE III--Organic Compounds
 Shallow Surface (3-foot) Soil Samples
 (Concentrations reported in parts per million)

Sample Number	TPH Diesel	Motor Oil	Total Oil & Grease	Benzene	Toluene	Ethyl Benzene	Total Xylenes
2-2	19	65	200	ND ¹	0.018	ND	ND
7-2	68	1,100	5,700	ND	ND	ND	ND
8-2	ND	ND	ND	ND	ND	ND	ND

1. ND: Non detect, below laboratory reporting

Concentrations of the metals Cr, Pb, Ni and Zn were reported in each of the 3-foot soil samples analyzed. Chromium and lead concentrations were reported to range between 19 ppm and 710 ppm, and 9.6 ppm to 190 ppm, respectively. Concentrations of nickel, and zinc were reported to range between 21 ppm and 59 ppm, and 36 ppm to 770 ppm, respectively. Cadmium was reported in one of the three samples at 1.4 ppm. Metal concentrations reported for the shallow surface soil samples are presented in Table IV.

TABLE IV - LUFT Metals
 Shallow Surface (3-foot) Soil Samples
 (Concentrations reported in parts per million)

Sample Number	Cadmium (Cd)	Chromium (Cr)	Lead (Pb)	Nickel (Ni)	Zinc (Zn)
	1.4	710	190	59	770
3-2	ND ¹	23	9.6	21	36
6-2	ND	19	16	21	47
TTL ²	100	2,500	1,000	2,000	5,000
STLC ³	1.0	5 ⁴	5	20	250
PRG ⁵	810	450 ⁴	750	41,000	100,000

1. ND: Non detect, below laboratory reporting limits.
2. TTL: Total Threshold Limit Concentration regulatory concentration for hazardous waste.
3. STLC: Soluble Threshold Limit Concentration regulatory concentration for hazardous waste.
4. Total Chromium (1/6 Ratio CrVI/CrIII).
5. EPA Preliminary Remediation Goal for Industrial properties, reported in parts per million.

Groundwater Sampling/Laboratory Analysis

Three of the probes were advanced to a depth of 20 feet for the recovery of grab groundwater samples (Figure 2). Samples were analyzed for TPH-g, TPH-d, TPH-MO, VOCs, TOG and LUFT metals. Silica gel cleanup was performed prior to the TPH and O&G analysis to reduce interference from naturally occurring organic compounds. The grab-groundwater samples were recovered using a dedicated polyethylene tube equipped with a check valve. Following recovery, the groundwater samples were decanted into appropriate laboratory glassware, labeled, and preserved in a cooled ice chest for delivery under documented chain of custody.

Concentrations of diesel range petroleum hydrocarbons were reported in each of the three grab-groundwater samples. Diesel concentrations were reported to range between 110 parts per billion (ppb) to 1,900 ppb. Motor oil range petroleum hydrocarbons and oil and grease were reported in two of the three samples. Motor oil concentrations were reported at 2,200 ppb to 9,500 ppb. Oil and grease concentrations were reported at 13 ppm to 74 ppm. Gasoline range petroleum hydrocarbons and cumulative VOCs were reported in one sample at 2,200 ppb and 728.5 ppb, respectively. Results of the organic compound laboratory analyses are summarized in Tables V and VI.

TABLE V - Organic Compound Summary
 Grab Groundwater Samples
 (Concentrations reported in parts per billion)

Sample Number	TPH Gasoline	TPH Diesel	Motor Oil	Total Oil & Grease	Cumulative VOCs by 8260
GW-1	ND ¹	1,900	9,500	74,000	ND
GW-2	ND	110	ND	ND	ND
GW-3	2200 ²	1,500	2,200	13,000	728.5

1. ND: Non detect, below laboratory reporting limit.
2. Unmodified or weakly modified gasoline is significant

TABLE VI—Selected Volatile Organic Compounds
 Grab Groundwater Samples
 (Concentrations reported in parts per billion)

Sample Number	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Naphthalene	Trimethylbenzene		Sum of listed VOCs ¹
						1,2,4	1,3,5-	
GW-1	ND ²	ND	ND	ND	ND	ND	ND	0
GW-2	ND	ND	ND	ND	ND	ND	ND	0
GW-3	110	14	120	230	110	99	23	706

1. Does not include all reported VOCs but the sum of concentrations of the seven compounds listed in Table VI.
2. ND: Non detect, below laboratory reporting limits.

No detectable LUFT metal concentrations were reported for the groundwater.

Conclusions and Recommendations

Concentrations of organic compounds were detected in seven of the eight soil samples recovered from one foot beneath the ground surface. Analysis of deeper samples, recovered at three feet, was performed on three samples exhibiting elevated organic compound concentrations. The laboratory reported a significant decrease in the reported concentrations of organic compounds for the three deeper samples. Cumulative diesel/motor oil/TOG concentrations decreased with depth from 44,000 ppm to 284 ppm at the Probe 2 location and from 14,540 ppm to 6,868 ppm at the Probe 7 location. Soil at the location of Probe 8 was reported to contain 4,789 ppm to below laboratory reporting limits at the three-foot depth.

Concentrations of at least four of the five LUFT metals were reported in the eight soil samples recovered from one foot beneath the ground surface and for the three selected samples recovered at the 3-foot intervals. Cadmium was reported below laboratory detection limits in four of the 11 soil samples. Concentrations of the metals decreased between one and three feet for soils in the locations of Probes 3 and 6. Chromium and Zinc concentrations were reported to increase with depth while cadmium and lead decreased with depth at the location of Probe 2. The reported concentrations for Cd, Pb, Ni and Zn are below EPA Preliminary Remediation Goals (PRGs) established for Industrial soils. The Cr concentration of 710 ppm reported in Sample 2-2 is above the 450 ppm PRG for industrial site soils. The reported metal concentrations do not exceed the Total Threshold Limit Concentration (TTLC) for hazardous waste. Concentrations above the TTLC value characterize the soil as a hazardous waste. The Soluble Threshold Limit Concentration (STLC) identifies a threshold for the leachable characteristics for hazardous waste classification. Concentrations between the STLC and TTLC may require additional analysis for hazardous waste characterization. Sample concentration dilution occurs during the STLC extraction/analysis so a ten-fold multiplier is commonly applied to STLC values. Chromium concentrations are reported to exceed the ten-fold STLC value for four of the samples. The ten-times STLC lead value is exceeded for six of the samples. Based on these reported concentrations, additional analysis may be required should the removal of soil occur.

Groundwater analysis detected diesel range petroleum hydrocarbons in the three samples analyzed. Motor oil and TOG were reported in two of the grab-groundwater samples. Gasoline range petroleum hydrocarbons and several volatile organic compounds were reported in one water sample. Concentrations of metals were reported below detection limits in the three grab-groundwater samples.

A review of the data suggests the site soils are superficially impacted by TPH, and/or volatile organic compounds. The depth of impact is generally three feet, with localized impact extending to a depth of five feet or more. Metal concentrations are variable and may be attributed to the nature of the fill material placed on the property and not by site activities. Based on the reported analyte concentrations, exposure to the soil at the site does not present a health risk as currently utilized. The noted soil impacts would be considered typical for a vehicle disassembly facility.

Mr. David Weiss
AAA Truck & Van Parts
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Impact to groundwater does not appear to be pervasive; however, localized TPH and TOG present in the groundwater beneath the site could be attributed to activities at the site. It is unlikely the shallow aquifer underlying the property would be considered a drinking water source; therefore, the reported impacts do not appear significant.

A copy of this report should be provided to the ACEHD and the RWQCB. We are pleased to be of continued service to you on this project. If you have any questions, please contact us.

Very truly yours,

ENGEO INCORPORATED

Reviewed by:

Keith Nowell
Geologist
kn/hg:sitechar

Shawn Munger
CHG 413

Attachments: Appendix A - Figures
Appendix B - Sampling Forms
Appendix C - McCampbell Analytical, Laboratory Results
Appendix D - ENGEO Incorporated, Boring Logs

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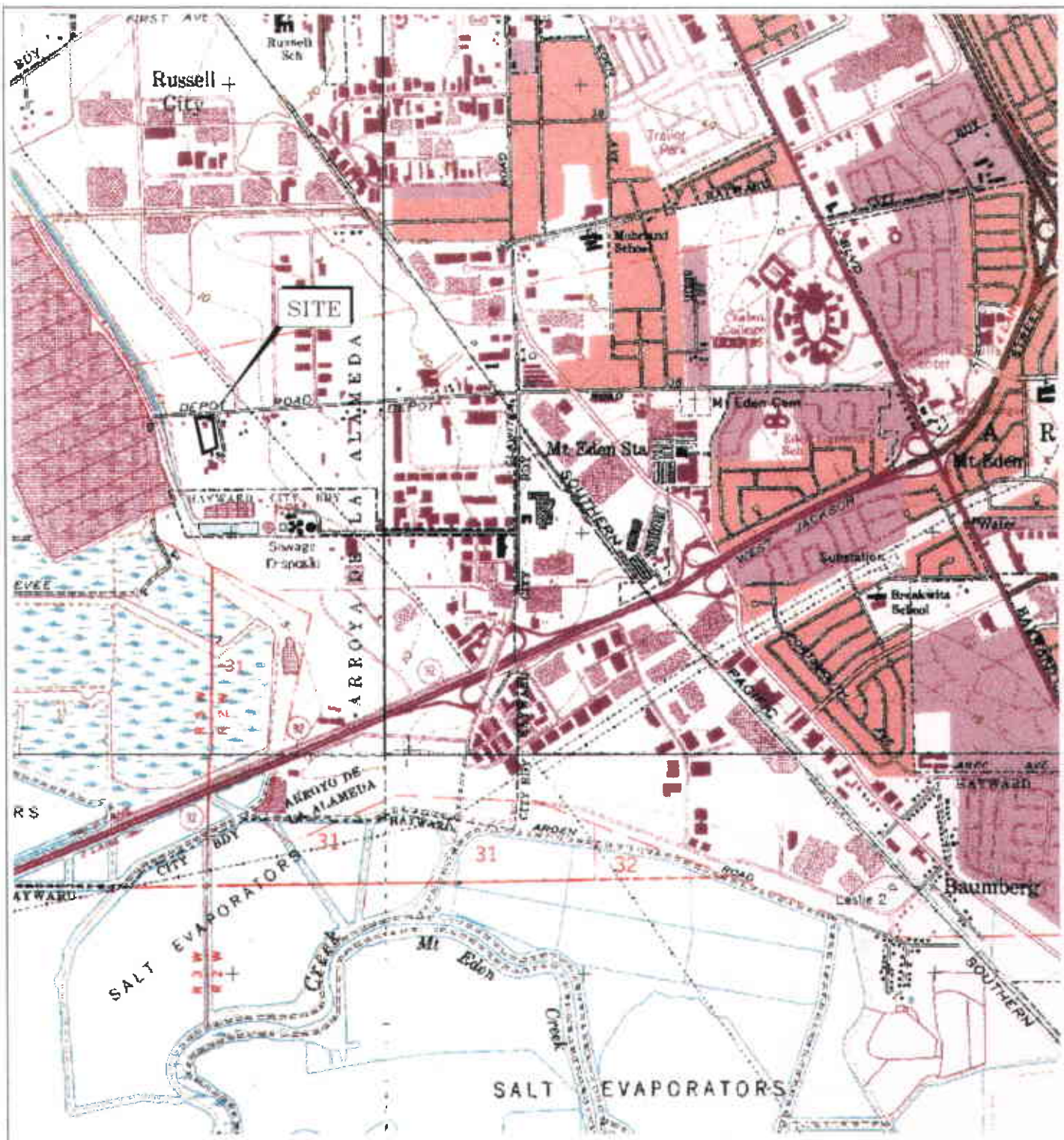
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APPENDIX A

Figure 1	Site Location
Figure 2	Aerial Photograph Showing Boring Locations
Figure 3	Site Plan with Organic Analysis Summary
Figure 4	Site Plan with Metals Analysis
Figure 5	Site Plan with Groundwater Analysis Summary

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BASE MAP SOURCE: USGS

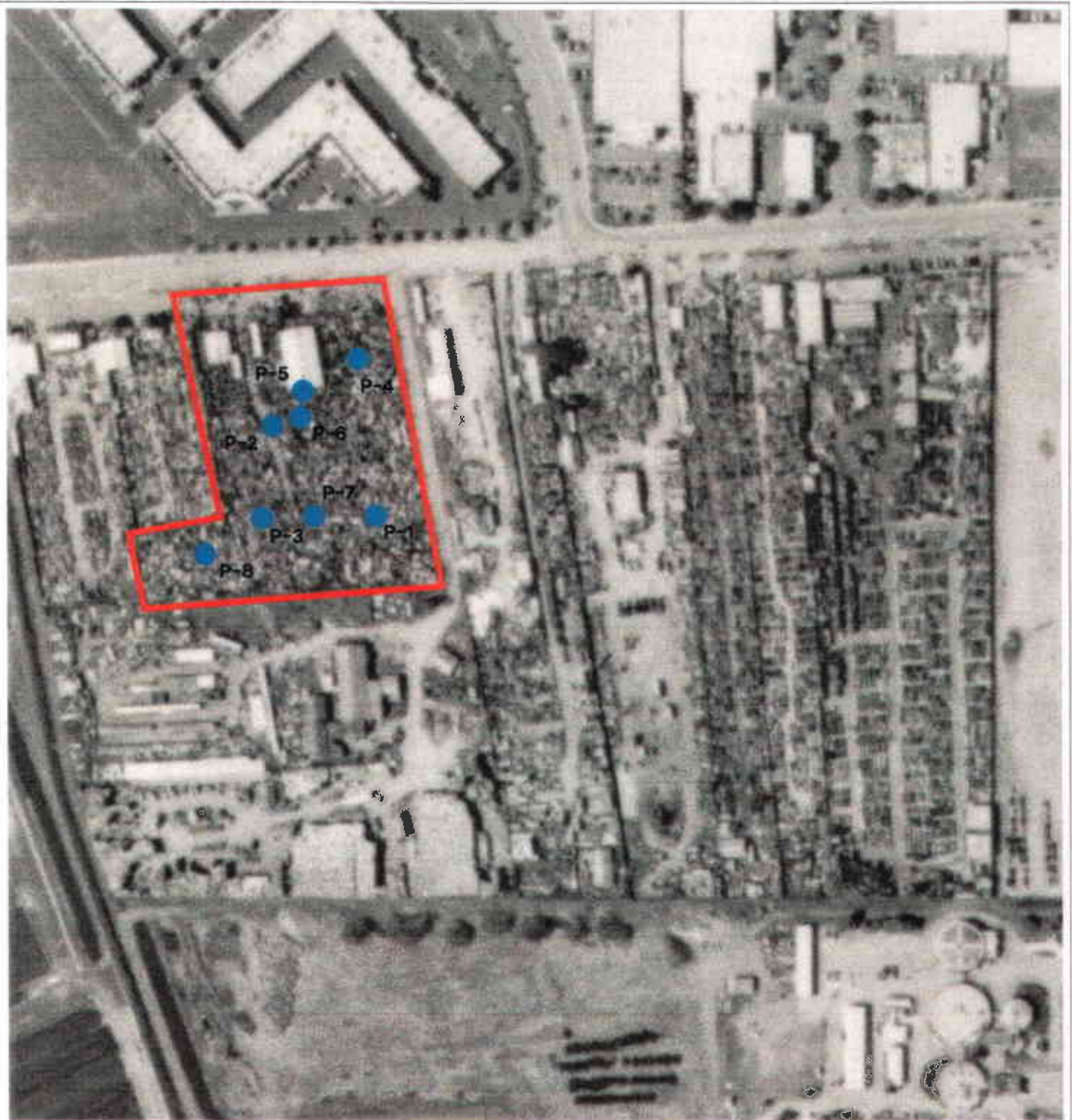


SITE LOCATION MAP
AAA TRUCK PARTS
HAYWARD, CALIFORNIA

PROJECT NO.: 5403.3.001.01
 DATE: JANUARY 2002
 DRAWN BY: CLL | CHECKED BY: SPM

FIGURE NO.
1

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EXPLANATION



APPROXIMATE LOCATION OF GEOPROBE

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BASE SOURCE: PACIFIC AERIAL SURVEYS

NO SCALE



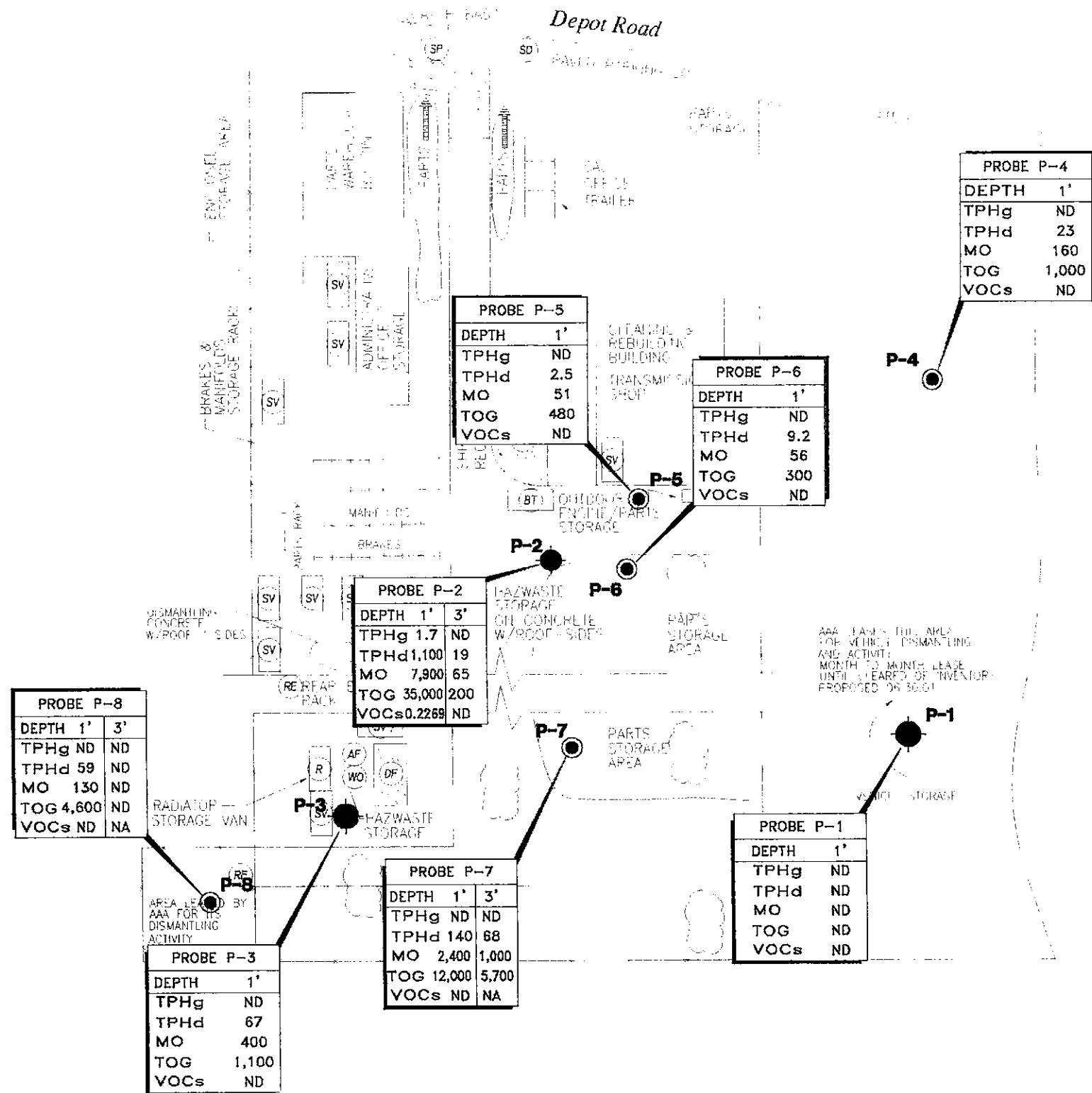
AERIAL PHOTO SHOWING PROBE LOCATIONS
AAA TRUCK PARTS
HAYWARD, CALIFORNIA

PROJECT NO.: 5403.3.001.01
DATE: JANUARY 2002
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FIGURE NO.
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ORIGINAL FIGURE PRINTED IN COLOR

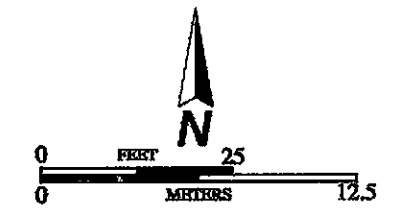
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EXPLANATION

- TPHg **GASOLINE RANGE HYDROCARBONS**
- TPHd **DIESEL RANGE HYDROCARBONS**
- MO **MOTOR OIL RANGE HYDROCARBONS**
- TOG **TOTAL OIL AND GREASE**
- VOCs **CUMULATIVE VOLATILE ORGANIC COMPOUNDS REPORTED BY EPA8260B**
- NA **NOT ANALYZED**
- ND **ANALYTE CONCENTRATION BELOW LABORATORY REPORTING LIMIT**
(CONCENTRATIONS REPORTED IN PARTS PER MILLION UNLESS OTHERWISE NOTED)

- APPROXIMATE LOCATION OF GEOPROBE (SOIL SAMPLING)**
- APPROXIMATE LOCATION OF GEOPROBE (SOIL AND GROUNDWATER SAMPLING)**



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BASE MAP SOURCE: NEST ENVIRONMENTAL SERVICES



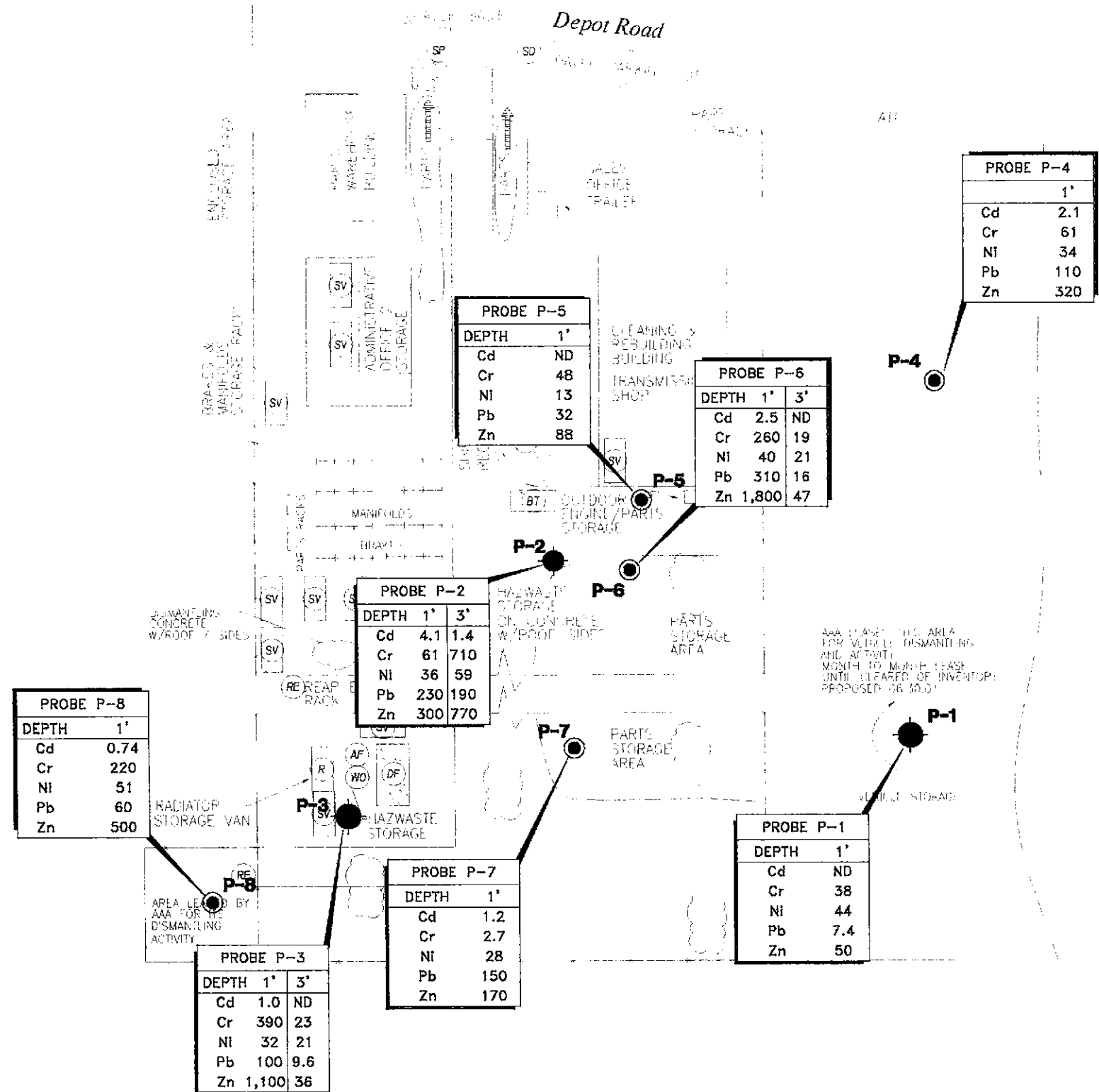
SITE PLAN WITH ORGANIC ANALYSIS SUMMARY
AAA TRUCK PARTS
HAYWARD, CALIFORNIA

PROJECT NO.: 5403.3.001.01
 DATE: JANUARY 2002
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FIGURE NO.
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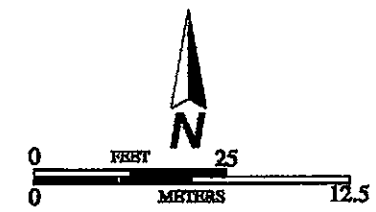
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EXPLANATION

- Cd **CADMIUM**
- Cr **CHROMIUM**
- Ni **NICKEL**
- Pb **LEAD**
- Zn **ZINC**
- ND **ANALYTE CONCENTRATION BELOW LABORATORY REPORTING LIMIT**
(CONCENTRATIONS REPORTED IN PARTS PER MILLION UNLESS OTHERWISE NOTED)

- APPROXIMATE LOCATION OF GEOPROBE (SOIL SAMPLING)
- APPROXIMATE LOCATION OF GEOPROBE (SOIL AND GROUNDWATER SAMPLING)

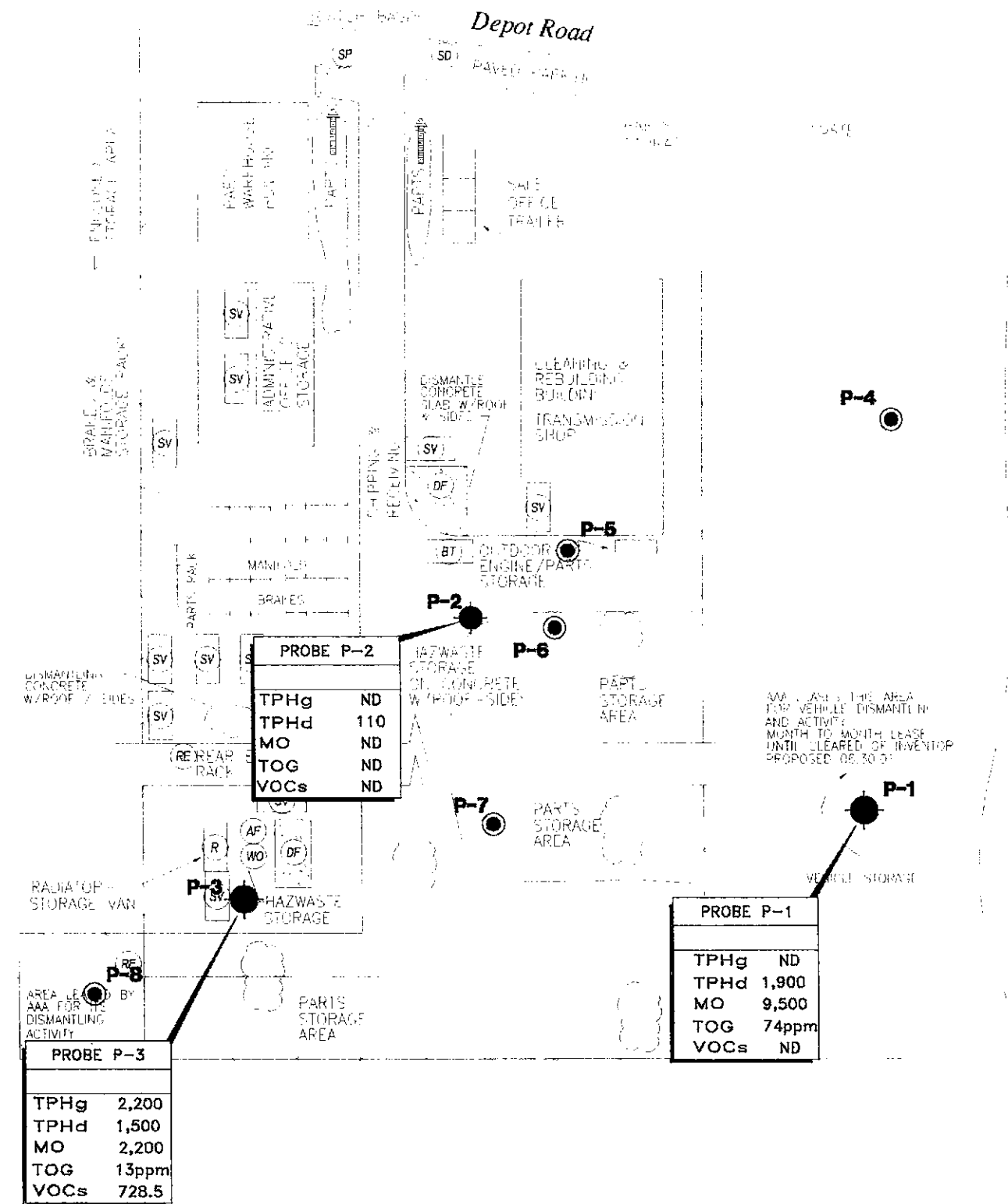


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 1971-2001 - 30 YEARS OF EXCELLENCE	SITE PLAN WITH METAL ANALYSES		PROJECT NO.: 5403.3.001.01	FIGURE NO.
	AAA TRUCK PARTS		DATE: JANUARY 2002	4
	HAYWARD, CALIFORNIA		DRAWN BY: CLL CHECKED BY: SPM	

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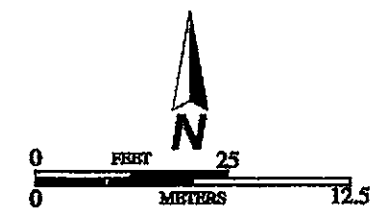
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EXPLANATION

- TPHg **GASOLINE RANGE HYDROCARBONS**
- TPHd **DIESEL RANGE HYDROCARBONS**
- MO **MOTOR OIL RANGE HYDROCARBONS**
- TOG **TOTAL OIL AND GREASE**
- VOCs **CUMULATIVE VOLATILE ORGANIC COMPOUNDS REPORTED BY EPA8260B**
- NA **NOT ANALYZED**
- ND **ANALYTE CONCENTRATION BELOW LABORATORY REPORTING LIMIT**
(CONCENTRATIONS REPORTED IN PARTS PER BILLION UNLESS OTHERWISE NOTED)

- APPROXIMATE LOCATION OF GEOPROBE (SOIL SAMPLING)**
- APPROXIMATE LOCATION OF GEOPROBE (SOIL AND GROUNDWATER SAMPLING)**



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BASE MAP SOURCE: NEST ENVIRONMENTAL SERVICES

	SITE PLAN WITH GROUNDWATER ANALYSIS SUMMARY AAA TRUCK PARTS HAYWARD, CALIFORNIA	PROJECT NO.: 5403.3.001.01	FIGURE NO.
		DATE: JANUARY 2002	5
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APPENDIX B

Sampling Forms

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**ENGEO INCORPORATED
SOIL SAMPLING INFORMATION**

Job Name: AAA Truck Parts
 Location1: 3884 Depot Road
 Location2: Hayward, California
 Client: David Weiss

Job Number: 5403.3.001.01
 Date: 11/15/01
 By: K. Nowell

DRILLING INFORMATION

Drilling Contractor: Vironex
 Auger Type: Geoprobe
 Hole Diameter: 2.5-inch

License No.: C57-705927
 Sampler Type: 2.5-inch Continuous Core

SAMPLING INFORMATION

Decon Procedure: TSP: X
Solvent:

Distilled Water: X
Acid:

Sample Number	Time	Size	Test	Comments
1- 1	9:54	2" x 6"	TPH/TOG/VOC/LUFT	12"- 18" sample interval
1- 2	9:55	2" x 6"	TPH/TOG/VOC/LUFT	36"- 42" sample interval
2- 1	11:26	2" x 6"	TPH/TOG/VOC/LUFT	12"- 18" sample interval
2- 2	11:27	2" x 6"	TPH/TOG/VOC/LUFT	36"- 42" sample interval
3- 1	13:03	2" x 6"	TPH/TOG/VOC/LUFT	12"- 18" sample interval
3- 2	13:04	2" x 6"	TPH/TOG/VOC/LUFT	36"- 42" sample interval
4- 1	10:51	2" x 6"	TPH/TOG/VOC/LUFT	12"- 18" sample interval
4- 2	10:52	2" x 6"	TPH/TOG/VOC/LUFT	36"- 42" sample interval
5- 1	11:06	2" x 6"	TPH/TOG/VOC/LUFT	12"- 18" sample interval
5- 2	11:07	2" x 6"	TPH/TOG/VOC/LUFT	36"- 42" sample interval
6- 1	11:12	2" x 6"	TPH/TOG/VOC/LUFT	12"- 18" sample interval
6- 2	11:13	2" x 6"	TPH/TOG/VOC/LUFT	36"- 42" sample interval
7- 1	12:39	2" x 6"	TPH/TOG/VOC/LUFT	12"- 18" sample interval
7- 2	12:40	2" x 6"	TPH/TOG/VOC/LUFT	36"- 42" sample interval
8- 1	12:54	2" x 6"	TPH/TOG/VOC/LUFT	12"- 18" sample interval
8- 2	12:55	2" x 6"	TPH/TOG/VOC/LUFT	36"- 42" sample interval
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**ENGEO INCORPORATED
GROUNDWATER SAMPLING INFORMATION**

Job Name: AAA Truck Parts
 Location1: 3884 Depot Road
 Location2: Hayward, California
 Client: David Weiss

Job Number: 5403.3.001.01
 Date: 11/15/01
 By: K. Nowell

DRILLING INFORMATION

Drilling Contractor: Vironex
 Auger Type: Geoprobe
 Hole Diameter: 2.5-inch

License No.: C57-705927
 Sampler Type: Dedicated HDPE tubing

SAMPLING INFORMATION

Decon Procedure: TSP: X
 Disposable X

Distilled Water: X
 Acid: _____

Sample Number	Time	Size	Test	Comments
GW- 1	10:25	3 x 40 ml	Gas / VOCs	Grab groundwater sample
GW- 1	10:25	2 x 1000 ml	Diesel / Motor Oil	Grab groundwater sample
GW- 1	10:25	1 x 1000 ml	LUFT metals	Grab groundwater sample
GW- 2	11:55	3 x 40 ml	Gas / VOCs	Grab groundwater sample
GW- 2	11:55	2 x 1000 ml	Diesel / Motor Oil	Grab groundwater sample
GW- 2	11:55	1 x 1000 ml	LUFT metals	Grab groundwater sample
GW- 3	13:25	3 x 40 ml	Gas / VOCs	Grab groundwater sample
GW- 3	13:25	2 x 1000 ml	Diesel / Motor Oil	Grab groundwater sample
GW- 3	13:25	1 x 1000 ml	LUFT metals	Grab groundwater sample
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APPENDIX C

MCCAMPBELL ANALYTICAL, INC.

Laboratory Test Results

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McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

ENGEO Incorporated 2401 Crow Canyon Rd., Ste 200 San Ramon, CA 94583	Client Project ID: #5403.3.001.01; AAA Truck Parts	Date Sampled: 11/15/01
		Date Received: 11/15/01
	Client Contact: Keith Nowell	Date Extracted: 11/15/01
	Client P.O:	Date Analyzed: 11/15/01

11/23/01

Dear Keith:

Enclosed are:

- 1). the results of 11 samples from your #5403.3.001.01; AAA Truck Parts project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director



McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

ENGEO Incorporated 2401 Crow Canyon Rd., Ste 200 San Ramon, CA 94583	Client Project ID: #5403.3.001.01; AAA Truck Parts	Date Sampled: 11/15/01
	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Extracted: 11/15-11/29/01
		Date Analyzed: 11/15-11/29/01

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	% Recovery Surrogate
83715	1-1	S	ND	ND	ND	ND	ND	ND	101
83717	2-1	S	1.7,b	ND	ND	0.12	0.017	0.11	112
83718	2-2	S	ND	ND	ND	0.018	ND	ND	109
83719	3-1	S	ND	ND	ND	ND	ND	ND	105
83721	4-1	S	ND	ND	ND	ND	ND	ND	107
83723	5-1	S	ND	ND	ND	ND	ND	ND	109
83725	6-1	S	ND	ND	ND	ND	ND	ND	110
83727	7-1	S	ND	ND	ND	ND	ND	0.0083	112
83728	7-2	S	ND	ND	ND	ND	ND	ND	112
83729	8-1	S	ND	ND	ND	ND	ND	ND	111
83730	8-2	S	ND	ND	ND	ND	ND	ND	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	5.0	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



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ENGEO Incorporated 2401 Crow Canyon Rd., Ste 200 San Ramon, CA 94583	Client Project ID: #5403.3.001.01; AAA Truck Parts	Date Sampled: 11/15/01
	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Extracted: 11/15-11/28/01
		Date Analyzed: 11/16-11/29/01

Diesel Range (C10-C23) and Oil-Range (C18+) Extractable Hydrocarbons as Diesel and Motor Oil with Silica Gel Clean-up*

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)


Lab ID	Client ID	Matrix	TPH(d) ⁺	TPH(mo) ⁺	% Recovery Surrogate
83715	1-1	S	ND	ND	86
83717	2-1	S	1100,g	7900	---#
83718	2-2	S	19,g,b	65	102
83719	3-1	S	67,g	400	100
83721	4-1	S	23,g,b	160	100
83723	5-1	S	2.5,g	51	106
83725	6-1	S	9.2,g	56	100
83727	7-1	S	140,g	2400	100
83728	7-2	S	68,g	1000	102
83729	8-1	S	59,g	130	102
83730	8-2	S	ND	ND	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	250 ug/L	
	S		1.0 mg/kg	5.0 mg/kg	

*water samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Extracted: 11/15-11/28/01
		Date Analyzed: 11/16-11/28/01

Petroleum Oil & Grease (with Silica Gel Clean-up) *


EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease*
83715	1-1	S	ND
83717	2-1	S	35,000
83718	2-2	S	200
83719	3-1	S	1100
83721	4-1	S	1000
83723	5-1	S	480
83725	6-1	S	300
83727	7-1	S	12,000
83728	7-2	S	5700
83729	8-1	S	4600
83730	8-2	S	ND
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	5 mg/L	
	S	50 mg/kg	

* water samples are reported in mg/L, wipe samples in mg/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in mg/l.

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5vol. % sediment.

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	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Extracted: 11/15/01
		Date Analyzed: 11/20-11/21/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83715
Client ID	1-1
Matrix	S

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit		
		W	S			W	S	
Acetone ^(b)	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0	
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0	
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0	
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25	
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0	
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0	
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0	
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone ^(d)	ND	1.0	5.0	
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride ^(e)	ND	1.0	5.0	
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone ^(f)	ND	2.0	10	
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone ^(g)	ND	1.0	5.0	
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0	
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	25	
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0	
2-Chloroethyl Vinyl Ether ^(h)	ND	1.0	5.0	Styrene ^(k)	ND	1.0	5.0	
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0	
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0	
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0	
4-Chlorotoluene	ND	1.0	5.0	Toluene ^(l)	ND	1.0	5.0	
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25	
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25	
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0	
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0	
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0	
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0	
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0	
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0	
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0	
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate ^(m)	ND	5.0	25	
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND	1.0	5.0	
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0	
1,2-Dichloropropane	ND	1.0	5.0					
1,3-Dichloropropane	ND	1.0	5.0					
2,2-Dichloropropane	ND	1.0	5.0					
1,1-Dichloropropene	ND	1.0	5.0					
cis-1,3-Dichloropropene	ND	1.0	5.0					
				Comments:				
				Surrogate Recoveries (%)				
				Dibromofluoromethane	107			
				Toluene-d8	106			
				4-Bromofluorobenzene	127			

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Analyzed: 11/20-11/21/01
		Date Extracted: 11/15/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83717
Client ID	2-1
Matrix	S


Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	6.7	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone ^(d)	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride ^(e)	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone ^(f)	26	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone ^(g)	55	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	25
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether ^(h)	ND	1.0	5.0	Styrene ^(k)	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene ^(l)	76	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	15	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	8.2	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate ^(m)	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total ^(o)	40	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	Comments:			
1,3-Dichloropropane	ND	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	103		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	104		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	103		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPL extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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	Client P.O:	Date Extracted: 11/15/01
		Date Analyzed: 11/20-11/21/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83719
Client ID	3-1
Matrix	S


Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone ^(d)	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride ^(e)	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone ^(f)	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone ^(g)	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	25
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether ^(h)	ND	1.0	5.0	Styrene ^(k)	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene ^(l)	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate ^(m)	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	Comments:			
1,3-Dichloropropane	ND	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane			102
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8			106
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene			114

* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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	Client P.O:	Date Extracted: 11/15/01
		Date Analyzed: 11/20-11/21/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83721
Client ID	4-1
Matrix	S


Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone ^(d)	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride ^(c)	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone ⁽ⁱ⁾	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone ^(k)	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	25
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether ^(e)	ND	1.0	5.0	Styrene ^(k)	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene ⁽ⁱ⁾	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate ^(m)	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	Comments:			
1,3-Dichloropropane	ND	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane			104
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8			107
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene			119

* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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ENGEO Incorporated 2401 Crow Canyon Rd., Ste 200 San Ramon, CA 94583	Client Project ID: #5403.3.001.01; AAA Truck Parts	Date Sampled: 11/15/01
	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Extracted: 11/15/01
		Date Analyzed: 11/20-11/21/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83723
Client ID	5-1
Matrix	S

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone ^(d)	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride ^(e)	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone ^(f)	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone ^(g)	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	25
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether ^(h)	ND	1.0	5.0	Styrene ^(k)	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene ^(l)	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate ^(m)	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	Comments:			
1,3-Dichloropropane	ND	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane		103	
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8		107	
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene		122	

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director



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ENGEO Incorporated 2401 Crow Canyon Rd., Ste 200 San Ramon, CA 94583	Client Project ID: #5403.3.001.01; AAA Truck Parts	Date Sampled: 11/15/01
	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Analyzed: 11/20-11/21/01
		Date Extracted: 11/15/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83725
Client ID	6-I
Matrix	S

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone ^(d)	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride ^(e)	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone ^(f)	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone ^(g)	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	25
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether ^(h)	ND	1.0	5.0	Styrene ^(k)	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene ⁽ⁱ⁾	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate ^(m)	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	Comments:			
1,3-Dichloropropane	ND	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane		114	
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8		107	
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene		112	

* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director



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ENGEO Incorporated 2401 Crow Canyon Rd., Ste 200 San Ramon, CA 94583	Client Project ID: #5403.3.001.01; AAA Truck Parts	Date Sampled: 11/15/01
	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O.:	Date Extracted: 11/15/01
		Date Analyzed: 11/20-11/21/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83727
Client ID	7-1
Matrix	S

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit		
		W	S			W	S	
Acetone ^(b)	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0	
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0	
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0	
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25	
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0	
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0	
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0	
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone ^(d)	ND	1.0	5.0	
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride ^(e)	ND	1.0	5.0	
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone ^(f)	ND	2.0	10	
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone ^(g)	ND	1.0	5.0	
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0	
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	25	
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0	
2-Chloroethyl Vinyl Ether ^(h)	ND	1.0	5.0	Styrene ^(k)	ND	1.0	5.0	
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0	
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0	
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0	
4-Chlorotoluene	ND	1.0	5.0	Toluene ^(l)	ND	1.0	5.0	
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25	
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25	
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0	
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0	
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0	
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0	
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0	
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0	
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0	
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate ^(m)	ND	5.0	25	
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND	1.0	5.0	
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0	
1,2-Dichloropropane	ND	1.0	5.0					
1,3-Dichloropropane	ND	1.0	5.0					
2,2-Dichloropropane	ND	1.0	5.0					
1,1-Dichloropropene	ND	1.0	5.0					
cis-1,3-Dichloropropene	ND	1.0	5.0					
				Comments:				
				Surrogate Recoveries (%)				
				Dibromofluoromethane	113			
				Toluene-d8	110			
				4-Bromofluorobenzene	116			

* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director



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	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Extracted: 11/15/01
		Date Analyzed: 11/20-11/21/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83729
Client ID	8-1
Matrix	S


Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone ^(d)	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride ^(e)	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone ^(f)	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone ^(g)	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	25
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether ^(h)	ND	1.0	5.0	Styrene ^(k)	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene ⁽ⁱ⁾	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate ^(m)	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0				
1,3-Dichloropropane	ND	1.0	5.0				
2,2-Dichloropropane	ND	1.0	5.0				
1,1-Dichloropropene	ND	1.0	5.0				
cis-1,3-Dichloropropene	ND	1.0	5.0				
				Comments:			
				Surrogate Recoveries (%)			
				Dibromofluoromethane			114
				Toluene-d8			107
				4-Bromofluorobenzene			122

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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ENGEO Incorporated 2401 Crow Canyon Rd., Ste 200 San Ramon, CA 94583	Client Project ID: #5403.3.001.01; AAA Truck Parts	Date Sampled: 11/15/01
	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Extracted: 11/15-11/28/01
		Date Analyzed: 11/16-11/29/01

LUFT Metals*

EPA analytical methods 6010/200.7, 239.2[†]

Lab ID	Client ID	Matrix	Extraction ^o	Cadmium	Chromium	Lead	Nickel	Zinc	% Recovery Surrogate
83715	1-1	S	TTLC	ND	38	7.4	44	50	97
83717	2-1	S	TTLC	4.1	61	230	36	300	102
83718	2-2	S	TTLC	1.4	710	190	59	770	93
83719	3-1	S	TTLC	1.0	390	100	32	1100	93
83720	3-2	S	TTLC	ND	23	9.6	21	36	100
83721	4-1	S	TTLC	2.1	61	110	34	320	103
83723	5-1	S	TTLC	ND	48	13	32	88	103
83725	6-1	S	TTLC	2.5	260	310	40	1800	106
83726	6-2	S	TTLC	ND	19	16	21	47	99
83727	7-1	S	TTLC	1.2	27	150	28	170	105
83729	8-1	S	TTLC	0.74	220	60	51	500	104
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	0.5 mg/kg	0.5	3.0	2.0	1.0	
		W	TTLC	0.005 mg/L	0.02	0.005	0.05	0.05	
		---	STLC, TCLP	0.01 mg/L	0.05	0.2	0.05	0.05	

* water samples are reported in mg/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in mg/L

[†] Lead is analysed using EPA method 6010 (ICP) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

^o EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC - CA Title 22

^o DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

[#] surrogate diluted out of range; N/A means surrogate not applicable to this analysis

^o reporting limit raised due to matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.



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	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Extracted: 11/15-11/29/01
		Date Analyzed: 11/28-11/29/01

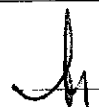
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*
 EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	% Recovery Surrogate
83718	2-2	S	ND	ND	ND	0.018	ND	ND	109
83728	7-2	S	ND	ND	ND	ND	ND	ND	112
83730	8-2	S	ND	ND	ND	ND	ND	ND	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	5.0	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

* cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

 Edward Hamilton, Lab Director



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		Date Analyzed: 11/28-11/29/01

Diesel Range (C10-C23) and Oil-Range (C18+) Extractable Hydrocarbons as Diesel and Motor Oil with Silica Gel Clean-up*

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)


Lab ID	Client ID	Matrix	TPH(d) ⁺	TPH(mo) ⁺	% Recovery Surrogate
83718	2-2	S	19,g,b	65	102
83728	7-2	S	68,g	1000	102
83730	8-2	S	ND	ND	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	250 ug/L	
	S		1.0 mg/kg	5.0 mg/kg	

*water samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

* cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel?? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Extracted: 11/28/01
		Date Analyzed: 11/28/01

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease*
83718	2-2	S	200
83728	7-2	S	5700
83730	8-2	S	ND
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		5 mg/L
	S		50 mg/kg

* water samples are reported in mg/L, wipe samples in mg/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in mg/L
 h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5vol. % sediment.

 Edward Hamilton, Lab Director



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	Client P.O:	Date Extracted: 11/28/01
		Date Analyzed: 11/29/01

LUFT Metals*

EPA analytical methods 6010/200.7, 239.2[†]

Lab ID	Client ID	Matrix	Extraction ^o	Cadmium	Chromium	Lead	Nickel	Zinc	% Recovery Surrogate
83718	2-2	S	TTLC	1.4	710	190	59	770	93
83720	3-2	S	TTLC	ND	23	9.6	21	36	100
83726	6-2	S	TTLC	ND	19	16	21	47	99
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	0.5 mg/kg	0.5	3.0	2.0	1.0		
	W	TTLC	0.005 mg/L	0.02	0.005	0.05	0.05		
	---	STLC, TCLP	0.01 mg/L	0.05	0.2	0.05	0.05		

* water samples are reported in mg/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in mg/L
[†] Lead is analysed using EPA method 6010 (ICP) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples
^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC - CA Title 22
[®] DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.
[#] surrogate diluted out of range; N/A means surrogate not applicable to this analysis
^Δ reporting limit raised due to matrix interference
 i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.



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QC REPORT

EPA 8015m + 8020

Date: 11/15/01

Extraction: TTLC

Matrix: Soil

Compound	Concentration: mg/kg			%Recovery		RPD
	Sample	MS	MSD	MS	MSD	

SampleID: 111401

Instrument: GC-3

Surrogate1	ND	107.000	109.000	100.00	107	109	1.9
Xylenes	ND	0.338	0.339	0.30	113	113	0.3
Ethylbenzene	ND	0.111	0.113	0.10	111	113	1.8
Toluene	ND	0.112	0.114	0.10	112	114	1.8
Benzene	ND	0.107	0.109	0.10	107	109	1.9
MTBE	ND	0.087	0.088	0.10	87	88	1.1
TPH (gas)	ND	0.927	0.920	1.00	93	92	0.8

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation



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QC REPORT

EPA 8015m + 8020

Date: 11/16/01

Extraction: TTLC

Matrix: Soil

Compound	Concentration: mg/kg			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 111401

Instrument: GC-2 A

Surrogate1	ND	103.000	103.000	100.00	103	103	0.0
TPH (diesel)	ND	136.000	136.000	150.00	91	91	0.0

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 100$$

RPD means Relative Percent Deviation



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QC REPORT

EPA 8015m + 8020

Date: 11/16/01

Extraction: TTLC

Matrix: Soil

Compound	Concentration: mg/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 112601				Instrument: MB-1			
Oil & Grease	ND	19.800	20.000	20.80	95	96	1.0

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation



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QC REPORT

VOCs (EPA 8240/8260)

Date: 1/20/01

Extraction: N/A

Matrix: Soil

Compound	Concentration: ug/kg			%Recovery		RPD
	Sample	MS	MSD	MS	MSD	

SampleID: 110901

Instrument: GC-10

Surrogate	ND	106.0	107.0	100.00	106	107	0.9
Toluene	ND	49.5	49.0	50.00	99	98	1.0
Benzene	ND	50.5	50.5	50.00	101	101	0.0
Chlorobenzene	ND	52.5	52.0	50.00	105	104	1.0
Trichloroethene	ND	37.5	37.0	50.00	75	74	1.3
1,1-Dichloroethene	ND	52.5	52.5	50.00	105	105	0.0

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation



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QC REPORT

LUFT

Date: 11/16/01

Extraction: TTLC

Matrix: Soil

Compound	Concentration: mg/kg			%Recovery		RPD
	Sample	MS	MSD	MS	MSD	

SampleID: 110901

Instrument: P-1 | AA

Surrogate1	ND	106.9	103.1	100.00	107	103	3.6
Copper	ND	5.5	5.2	5.00	111	104	6.3
Zinc	ND	5.0	5.1	5.00	100	103	2.8
Lead	ND	4.7	4.4	5.00	94	87	6.9
Nickel	ND	5.5	4.9	5.00	111	98	12.2
Chromium	ND	4.9	4.9	5.00	99	97	1.6
Cadmium	ND	5.0	4.9	5.00	100	97	2.4

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

ENGEO INCORPORATED

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San Ramon, CA 94583
Phone: (925) 838-1600
Fax (925) 838-7425

CHAIN OF CUSTODY RECORD

83715
83716[#]
83717
83718

28808 zengo 77

PROJECT NUMBER 5403.3.001.01		PROJECT NAME AAA Truck Parts					TPH- GASOLINE (EPA 8015/5030)	TPH- DIESEL (EPA 8015/5550/3510)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 801.8010)	VOLATILE ORGANICS (EPA 624, 8260)	SEMI VOLATILE ORGANICS (EPA 8270)	TOTAL OIL & GREASE (SWWV 5520 (EFT))	PCBs (EPA 605, 8082)	TITLE 26 METALS (17)	LUFT METALS	REMARKS/ REQUIRED DETECTION LIMITS
SAMPLE NUMBER	DATE	TIME	MATRIX	CONTAINER NUMBER	CONTAINER SIZE	PRESERVATIVE											
1- 1	11/15/01	9:54	Soil	1	2"x 6"	None	X	X		X		X			X		
1- 2	11/15/01	9:55	Soil	1	2"x 6"	None										HOLD-- analysis pending	
2- 1	11/15/01	11:26	Soil	1	2"x 6"	None	X	X		X					X		
2- 2	11/15/01	11:27	Soil	1	2"x 6"	None		X	X			X			X	HOLD-- analysis pending	
3- 1	11/15/01	13:03	Soil	1	2"x 6"	None	X	X		X		X			X		
3- 2	11/15/01	13:04	Soil	1	2"x 6"	None									X	HOLD-- analysis pending	
4- 1	11/15/01	10:51	Soil	1	2"x 6"	None	X	X		X		X			X		
4- 2	11/15/01	10:52	Soil	1	2"x 6"	None										HOLD-- analysis pending	
5- 1	11/15/01	11:06	Soil	1	2"x 6"	None	X	X		X		X			X		
5- 2	11/15/01	11:07	Soil	1	2"x 6"	None										HOLD-- analysis pending	
6- 1	11/15/01	11:12	Soil	1	2"x 6"	None	X	X		X		X			X		
6- 2	11/15/01	11:13	Soil	1	2"x 6"	None									X	HOLD-- analysis pending	
7- 1	11/15/01	12:39	Soil	1	2"x 6"	None	X	X		X		X			X		
7- 2	11/15/01	12:40	Soil	1	2"x 6"	None		X	X			X				HOLD-- analysis pending	
8- 1	11/15/01	12:54	Soil	1	2"x 6"	None	X	X		X		X			X		
8- 2	11/15/01	12:55	Soil	1	2"x 6"	None		X	X			X				HOLD-- analysis pending	
---	---	---	---	---	---	---											
																X = 5d per K.W 11/28	

83719
83720[#]
83721
83722[#]
83723
83724[#]
83725
83726
83727
83728
83729
83730

RELINQUISHED BY: <i>Keith Nowell</i>	DATE / TIME 11-15-01 1900	RECEIVED BY: <i>ICEN</i> ✓	RELINQUISHED BY:	DATE / TIME	RECEIVED BY:
RELINQUISHED BY:	DATE / TIME	GOOD CONDITION HEAD SPACE ABSENT	PRESERVATION APPROPRIATE CONTAINERS	RELINQUISHED BY:	DATE / TIME
RELINQUISHED BY:	DATE / TIME	RECEIVED FOR LABORATORY BY: <i>Linda Butlor</i> 11/15/01	REMARKS: Standard TAT. Run Silica Gel Cleanup on TEPH and O&G. Report TEPH as Diesel and Motor Oil.	RELINQUISHED BY:	DATE / TIME

CB.W



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		Date Received: 11/15/01
	Client Contact: Keith Nowell	Date Extracted: 11/15/01
	Client P.O:	Date Analyzed: 11/15/01

11/22/01

Dear Keith:

Enclosed are:

- 1). the results of 3 samples from your #5403.3.001.01; AAA Truck Parts project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director



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	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O.:	Date Extracted: 11/16/01
		Date Analyzed: 11/16/01

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline *

EPA methods 5030, modified 8015; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	% Recovery Surrogate
83731	GW-1	W	ND	104
83732	GW-2	W	ND	107
83733	GW-3	W	2200,a	119
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L		
	S	1.0 mg/kg		

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

* cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

 Edward Hamilton, Lab Director



McCAMPBELL ANALYTICAL INC.

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<http://www.mccampbell.com> E-mail: main@mccampbell.com

ENGEO Incorporated 2401 Crow Canyon Rd., Ste 200 San Ramon, CA 94583	Client Project ID: #5403.3.001.01; AAA Truck Parts	Date Sampled: 11/15/01
	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Extracted: 11/15/01
		Date Analyzed: 11/16/01

Diesel Range (C10-C23) and Oil-Range (C18+) Extractable Hydrocarbons as Diesel and Motor Oil with Silica Gel Clean Up*

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) ⁺	TPH(mo) ⁺	% Recovery Surrogate
83731	GW-1	W	1900,g	9500	85
83732	GW-2	W	110,b,g	ND	96
83733	GW-3	W	1500,g,d	2200	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	250 ug/L	
	S		1.0 mg/kg	5.0 mg/kg	

*water samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

* cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

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Petroleum Oil & Grease (with Silica Gel Clean-up) *


EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease*
83731	GW-1	W	74
83732	GW-2	W	ND
83733	GW-3	W	13
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	5 mg/L	
	S	50 mg/kg	

* water samples are reported in mg/L, wipe samples in mg/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in mg/L

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5vol. % sediment.

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		Date Analyzed: 11/16-11/20/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83731
Client ID	GW-1
Matrix	W

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone ^(d)	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride ^(c)	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone ^(f)	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone ^(g)	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	25
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether ^(c)	ND	1.0	5.0	Styrene ^(h)	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene ⁽ⁱ⁾	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate ^(m)	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	Comments:			
1,3-Dichloropropane	ND	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane			118
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8			99
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene			106

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

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	Client P.O:	Date Extracted: 11/16-11/20/01
		Date Analyzed: 11/16-11/20/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83732
Client ID	GW-2
Matrix	W

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone ^(d)	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride ^(e)	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone ^(f)	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone ^(g)	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	25
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether ^(c)	ND	1.0	5.0	Styrene ^(k)	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene ^(l)	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate ^(m)	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	Comments:			
1,3-Dichloropropane	ND	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	119		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	98		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	106		

* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPL extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

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	Client Contact: Keith Nowell	Date Received: 11/15/01
	Client P.O:	Date Analyzed: 11/16-11/20/01
		Date Extracted: 11/16-11/20/01

Volatile Organics By GC/MS

EPA method 8260

Lab ID	83733
Client ID	GW-3
Matrix	W


Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	ND<13	5.0	25	trans-1,3-Dichloropropene	ND<2.5	1.0	5.0
Benzene	110	1.0	5.0	Ethylene dibromide	ND<2.5	1.0	5.0
Bromobenzene	ND<2.5	1.0	5.0	Ethylbenzene	120	1.0	5.0
Bromochloromethane	ND<2.5	1.0	5.0	Hexachlorobutadiene	ND<13	5.0	25
Bromodichloromethane	ND<2.5	1.0	5.0	Iodomethane	ND<2.5	1.0	5.0
Bromoform	ND<2.5	1.0	5.0	Isopropylbenzene	6.5	1.0	5.0
Bromomethane	ND<2.5	1.0	5.0	p-Isopropyl toluene	ND<2.5	1.0	5.0
n-Butyl benzene	ND<2.5	1.0	5.0	Methyl butyl ketone ^(d)	ND<2.5	1.0	5.0
sec-Butyl benzene	ND<2.5	1.0	5.0	Methylene Chloride ^(e)	ND<2.5	1.0	5.0
tert-Butyl benzene	ND<2.5	1.0	5.0	Methyl ethyl ketone ^(f)	ND<5.0	2.0	10
Carbon Disulfide	ND<2.5	1.0	5.0	Methyl isobutyl ketone ^(g)	ND<2.5	1.0	5.0
Carbon Tetrachloride	ND<2.5	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	---	1.0	5.0
Chlorobenzene	ND<2.5	1.0	5.0	Naphthalene	110	5.0	25
Chloroethane	ND<2.5	1.0	5.0	n-Propyl benzene	16	1.0	5.0
2-Chloroethyl Vinyl Ether ^(h)	ND<2.5	1.0	5.0	Styrene ^(k)	ND<2.5	1.0	5.0
Chloroform	ND<2.5	1.0	5.0	1,1,1,2-Tetrachloroethane	ND<2.5	1.0	5.0
Chloromethane	ND<2.5	1.0	5.0	1,1,2,2-Tetrachloroethane	ND<2.5	1.0	5.0
2-Chlorotoluene	ND<2.5	1.0	5.0	Tetrachloroethene	ND<2.5	1.0	5.0
4-Chlorotoluene	ND<2.5	1.0	5.0	Toluene ^(l)	14	1.0	5.0
Dibromochloromethane	ND<2.5	1.0	5.0	1,2,3-Trichlorobenzene	ND<13	5.0	25
1,2-Dibromo-3-chloropropane	ND<5.0	2.0	10	1,2,4-Trichlorobenzene	ND<13	5.0	25
Dibromomethane	ND<2.5	1.0	5.0	1,1,1-Trichloroethane	ND<2.5	1.0	5.0
1,2-Dichlorobenzene	ND<2.5	1.0	5.0	1,1,2-Trichloroethane	ND<2.5	1.0	5.0
1,3-Dichlorobenzene	ND<2.5	1.0	5.0	Trichloroethene	ND<2.5	1.0	5.0
1,4-Dichlorobenzene	ND<2.5	1.0	5.0	Trichlorofluoromethane	ND<2.5	1.0	5.0
Dichlorodifluoromethane	ND<2.5	1.0	5.0	1,2,3-Trichloropropane	ND<2.5	1.0	5.0
1,1-Dichloroethane	ND<2.5	1.0	5.0	1,2,4-Trimethylbenzene	99	1.0	5.0
1,2-Dichloroethane	ND<2.5	1.0	5.0	1,3,5-Trimethylbenzene	23	1.0	5.0
1,1-Dichloroethene	ND<2.5	1.0	5.0	Vinyl Acetate ^(m)	ND<13	5.0	25
cis-1,2-Dichloroethene	ND<2.5	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	ND<2.5	1.0	5.0
trans-1,2-Dichloroethene	ND<2.5	1.0	5.0	Xylenes, total ^(o)	230	1.0	5.0
1,2-Dichloropropane	ND<2.5	1.0	5.0	Comments:			
1,3-Dichloropropane	ND<2.5	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	ND<2.5	1.0	5.0	Dibromofluoromethane		129	
1,1-Dichloropropene	ND<2.5	1.0	5.0	Toluene-d8		100	
cis-1,3-Dichloropropene	ND<2.5	1.0	5.0	4-Bromofluorobenzene		96	

* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPL extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

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		Date Analyzed: 11/16/01

LUFT Metals*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction ^o	Cadmium	Chromium	Lead	Nickel	Zinc	% Recovery Surrogate
83731	GW-1	W	Dissolved	ND	ND	ND	ND	ND	N/A
83732	GW-2	W	Dissolved	ND	ND	ND	ND	ND	N/A
83733	GW-3	W	Dissolved	ND	ND	ND	ND	ND	N/A
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLIC		0.5 mg/kg	0.5	3.0	2.0	1.0	
	W	Dissolved		0.005 mg/L	0.02	0.005	0.05	0.05	
	---	STLC, TCLP		0.01 mg/L	0.05	0.2	0.05	0.05	

* water samples are reported in mg/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in mg/L
^o Lead is analysed using EPA method 6010 (ICP) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples
^o EPA extraction methods 1311(TCLP), 3010/3020(water, TTLIC), 3040(organic matrices, TTLIC), 3050(solids, TTLIC); STLC - CA Title 22
[@] DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.
^o surrogate diluted out of range; N/A means surrogate not applicable to this analysis
^o reporting limit raised due to matrix interference
 i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

Edward Hamilton, Lab Director



QC REPORT

EPA 8015m + 8020

Date: 11/16/01

Matrix: Water

Compound	Concentration: mg/L				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	

SampleID: 111401

Extraction: EPA 5030

Instrument: GC-3

Surrogate1	ND	106.0	106.0	100.00	106	106	0.0
Xylenes	ND	35.3	34.2	30.00	118	114	3.2
Ethylbenzene	ND	11.5	11.7	10.00	115	117	1.7
Toluene	ND	11.3	11.7	10.00	113	117	3.5
Benzene	ND	10.8	10.7	10.00	108	107	0.9
MTBE	ND	8.2	8.4	10.00	82	84	2.4
TPH (gas)	ND	88.1	90.9	100.00	88	91	3.0

SampleID: 111401

Extraction: TTLC

Instrument: MB-1

Oil & Grease	ND	25.2	25.0	23.70	106	105	0.8
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SampleID: 111401

Extraction: EPA 3510

Instrument: GC-6 A

Surrogate1	ND	94.0	96.0	100.00	94	96	2.1
TPH (diesel)	ND	7200.0	7200.0	7500.00	96	96	0.0

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation



McCAMPBELL ANALYTICAL INC.

110 2nd Ave. South, #D7, Pacheco, CA 94553-5560
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QC REPORT

VOCs (EPA 8240/8260)

Date: 11/16/01

Extraction: EPA 5030

Matrix: Water

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	MS	MSD	

SampleID: 111501

Instrument: GC-10

Surrogate	ND	102.0	101.0	100.00	102	101	1.0
Toluene	ND	9.7	9.9	10.00	97	99	2.0
Benzene	ND	10.3	10.5	10.00	103	105	1.9
Chlorobenzene	ND	10.2	10.2	10.00	102	102	0.0
Trichloroethene	ND	9.0	9.0	10.00	90	90	0.0
1,1-Dichloroethene	ND	11.5	11.2	10.00	115	112	2.6

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation



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QC REPORT

LUFT

Date: 11/16/01

Extraction: Dissolved

Matrix: Water

Compound	Concentration: mg/L			%Recovery		RPD
	Sample	MS	MSD	MS	MSD	

SampleID: 112601

Instrument: P-1 | AA

Copper	ND	5.5	5.5	5.00	110	110	0.2
Zinc	ND	4.9	5.1	5.00	98	101	4.0
Lead	ND	4.5	4.6	5.00	90	92	2.3
Nickel	ND	5.0	5.1	5.00	99	101	2.4
Chromium	ND	4.9	5.1	5.00	98	101	2.8
Cadmium	ND	4.9	5.1	5.00	98	103	4.4

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

ENGEO INCORPORATED

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Phone: (925) 838-1600
Fax (925) 838-7425

CHAIN OF CUSTODY RECORD

28809 Zengco No. da

PROJECT NUMBER: 5403.3.001.01		PROJECT NAME: AAA Truck Parts																REMARKS/ REQUIRED DETECTION LIMITS
SAMPLED BY: (SIGNATURE) Keith Nowell (Keith Nowell)							TPH - GASOLINE (EPA 8015/5030)	TPH - DIESEL /MO (EPA 8015/3550/3510)	PURGEABLE AROMATICS BTX (EPA 601, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8260)	SEMI VOLATILE ORGANICS (EPA 8270)	TOTAL OIL & GREASE (SWP/VV 5520 (E/F))	PCBs (EPA 605, 8082)	TITLE 26 METALS (17)	LUFT METALS		
SAMPLE NUMBER	DATE	TIME	MATRIX	CONTAINER NUMBER	CONTAINER SIZE	PRESERVATIVE												
2 GW- 1	11/15/01	10:25	Aqueous	3	40 ml	HCl	X				X						VOAs	
GW- 1	11/15/01	10:25	Aqueous	1	1000 ml	None									X		Plastic 83731	
GW- 1	11/15/01	10:25	Aqueous	2	1000 ml	None		X				X					Amber glass	
2 GW- 2	11/15/01	11:55	Aqueous	3	40 ml	HCl	X				X						VOAs	
GW- 2	11/15/01	11:55	Aqueous	1	1000 ml	None									X		Plastic 83732	
GW- 2	11/15/01	11:55	Aqueous	2	1000 ml	None		X				X					Amber glass	
2 GW- 3	11/15/01	13:25	Aqueous	3	40 ml	HCl	X				X						VOAs	
GW- 3	11/15/01	13:25	Aqueous	1	1000 ml	None									X		Plastic 83733	
GW- 3	11/15/01	13:25	Aqueous	2	1000 ml	None		X				X					Amber glass	
---	---	---	---	---	---	---												
ICE/✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓							PRESERVATIONS ✓ APPROPRIATE CONTAINERS ✓ VOAS/O&G/METALS/OTHER Filtered & preserved in lab upon received.											
RELINQUISHED BY: Keith Nowell		DATE / TIME 11-15-01 1900		RECEIVED BY:				RELINQUISHED BY:				DATE / TIME		RECEIVED BY:				
RELINQUISHED BY:		DATE / TIME		RECEIVED BY:				RELINQUISHED BY:				DATE / TIME		RECEIVED BY:				
RELINQUISHED BY:		DATE / TIME		RECEIVED FOR LABORATORY BY: Sonia A. Butler 11/15/01				REMARKS: Standard TAT. Run Silica Gel Cleanup on TEPH and O&G. Report TEPH as Diesel and Motor Oil. Filter Metals in Lab.										

(m)

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APPENDIX D









ENGEO INCORPORATED

Boring Logs, October 2001

DRAFT

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: November 15, 2001	BLOWS/FT	OVM	IN PLACE	
				SURFACE ELEVATION: Approx. 13 feet (4 meters)		READING P.I.D. (10.0eV)	DRY UNIT WEIGHT (PCF)	MOIST. CONTENT (% DRY WEIGHT)
DESCRIPTION								
0				SILTY CLAY (CL), black, very moist, medium plasticity. (Fill)				
1-1						<1		
				SILTY GRAVEL (GM), greenish gray, very moist to wet, gravel is subangular, predominantly less than 3/4 inch. (Fill)				
1-2				SILTY CLAY (CL), greenish gray, very moist, medium plasticity. (Possible fill)		<1		
				CLAYEY coarse SAND/fine GRAVEL (SC/GC), dark brown, very moist. (Possible fill)				
5								
				SILTY CLAY (CL), dark grayish brown, very moist, medium plasticity.				
2						<1		
				SILTY CLAY (CL), becoming dark gray, very moist, medium plasticity.				
				SILTY CLAY (CL), brown with gray mottling, very moist.				
10				CLAYEY GRAVEL (GC), brown, very moist, gravels to 1/2-inch maximum dimension, subangular.				
						<1		
4				SILTY CLAY (CL), yellowish brown, very moist, abundant carbonates between 10 1/2 and 11 feet.				
						<1		
15								
				CLAYEY SAND (SC), pale brown, wet, sand is predominantly fine grained.				
5						<1		
				SILTY very fine SAND (SM), pale brown, saturated.				
20						<1		
				Bottom of probe at approximately 20 feet at 10:17. Groundwater encountered at 17.8 feet while probing. Groundwater level at 9 1/2 feet upon completion of drilling.				
7								
25								
8								
9								
30								

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: November 15, 2001		BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 13 feet (4 meters)				DRY UNIT WEIGHT (PCF)	MOIST. CONTENT (% DRY WEIGHT)
DESCRIPTION									
0		2-1		Mixture of CLAYEY GRAVEL and SILTY GRAVEL (GC/GM), dark grayish brown, very moist, gravels to approximately 1/2 inch in size, subangular to subrounded. (Fill)					
1		2-2		SILTY CLAY (CL), very moist to wet, medium plasticity. (Possible fill)			<1		
5				CLAYEY GRAVEL (GC), dark grayish brown, moist, gravels to approximately 1/2-inch maximum diameter, subangular to subrounded. (Possible fill)					
2				SILTY CLAY (CH), dark grayish brown, moist, high to medium plasticity.			<1		
				SILTY CLAY (CH), becoming grayish brown, very moist, decreasing plasticity.			<1		
10		3		▼			<1		
				Mixture of SILTY GRAVEL and CLAYEY GRAVEL (GM/GC), dark brown, very moist, gravels to 2/3-inch maximum dimension, subangular.					
4				SILTY CLAY (CL), grayish brown, very moist, medium plasticity.			<1		
15									
5									
20		6		▽ SILTY CLAY (CL), pale brown, wet, with fine sand, abundant carbonates between 17.6 and 19 feet.					
				Bottom of probe at approximately 20 feet at 11:50. Groundwater encountered at 19 feet while probing. Groundwater level at 10 feet upon completion of drilling.					
7									
25									
8									
9									
30									

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: November 15, 2001	BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
							DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
				SURFACE ELEVATION: Approx. 12 feet (4 meters)				
				DESCRIPTION				
0		3-1		Mixture of SILTY GRAVEL and CLAYEY GRAVEL (GM/GC), moist, gravels to 1/2-inch maximum dimension, subangular to subrounded. (Fill)		<1		
-1		3-2		CLAYEY medium to coarse SAND (SC), gray, very moist to wet. (Fill)		42.6		
				Organic SILT (MH), brown, abundant fibrous organics, wet, moderate organic odor.				
5				SILTY CLAY (CH), dark gray, very moist, high to medium plasticity.		<1		
-2				SILTY CLAY (CL), dark gray, very moist, medium plasticity.		<1		
				No recovery between 8 to 10 1/4 feet.				
10				SILTY fine to medium SAND (SM), dark gray, saturated.				
				SILTY CLAY (CL), dark gray, very moist.				
-4				Bottom of probe at approximately 12 feet, at 13:15. Groundwater encountered at 11 1/2 feet while probing. Groundwater level at 7.8 feet upon completion of drilling.				
15								
-5								
20								
-6								
25								
-7								
30								
-8								
30								
-9								