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### **RECEIVED**

MAR 9 \_ 1999

ADEC STORAGE TANK PROGRAM FAIRBANKS

March 3, 1999 Project No. 7G007-037-01

Mr. Clint Adler Alaska Department of Environmental Conservation 601 University Avenue Fairbanks, AK 99709-3643

Re: Well Abandonment and Removal of USTs and Product Lines

Chevron Service Station #9-6489 1304 Airport Heights Drive @ DeBarr Avenue Anchorage, Alaska

Dear Mr. Adler:

SECOR International Incorporated (SECOR) has prepared this letter on behalf of Chevron Products Company (Chevron) to document the excavation and removal of five underground storage tanks (USTs) and associated dispensers and product lines at the site referenced above (Figures 1 and 2). The purpose of this work was to evaluate soil conditions encountered during excavation associated with facility upgrade activities at the site. The gasoline USTs, associated dispensers, and product lines were removed, replaced, and relocated onsite from their former locations. The used oil and heating oil USTs were removed but were not replaced.

Additionally, this letter documents the abandonment of groundwater monitoring wells MW-1, MW-2, and MW-3 (Figure 2). Well abandonment was performed in accordance with SECOR's Work Plan, dated August 25, 1998, which you approved by telephone on September 1, 1998.

### SITE BACKGROUND

The site is an operating service station at the corner of Airport Heights Drive and DeBarr Avenue in Anchorage, Alaska (Figure 1). The topography of the site is relatively flat. Land use in the immediate vicinity is mixed commercial and residential.

The recently removed station facilities consisted of three gasoline USTs and associated product lines and dispensers, one used oil UST, and one heating oil UST. The site layout is shown on Figure 2.

### **QUARTERLY GROUNDWATER MONITORING**

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Prior to the abandonment of the groundwater monitoring wells on September 8, 1998, quarterly monitoring had been ongoing at the site since August 1997. Water levels have been measured at approximately 27 to 28-1/2 feet below ground surface (bgs). Blaine Tech Services, Inc. (Blaine) performed the quarterly sampling at the site. Gasoline range organics (GRO) have been reported at a maximum concentration of 14,800 micrograms per liter ( $\mu$ g/L) from a sample collected from MW-1 on August 27, 1997, and the highest concentration of benzene was reported at 3,520  $\mu$ g/L in a sample collected from MW-3 on the same date.

#### WELL ABANDONMENT ACTIVITIES

On September 8, 1998, groundwater monitoring wells MW-1, MW-2, and MW-3 were properly abandoned prior to upgrade work at the site. These wells were abandoned because of their proximity to excavations associated with upgrade activities. The wells were abandoned by filling with bentonite clay from the bottoms of the wells (approximately 39 feet bgs) to grade and removing the well boxes. The abandonment of the wells by filling with bentonite clay was performed by Discovery Drilling of Anchorage, Alaska, a state-licensed well driller. Removal of the well boxes was performed by Pinnacle Construction of Anchorage, Alaska during their demolition activities associated with the station upgrade. Well abandonment was observed by a SECOR geologist.

#### **REMOVAL OF USTS AND ASSOCIATED FACILITIES**

Removal of the five USTs was performed by Pinnacle Construction, Inc. (Pinnacle) of Anchorage, Alaska. The three gasoline USTs were removed on September 11, 1998 and the used oil and heating oil USTs were removed on September 18, 1998. The USTs consisted of three gasoline USTs of 10,000-gallon capacity, one 1,000-gallon capacity used oil UST, and one 1,000-gallon capacity heating oil UST. The USTs were of single-walled steel construction. The USTs were in good condition at the time of removal with no visible cracks or holes, or evidence of leakage noted. Staining in the area of the fill ports of each of the USTs was noted. Field screening and sampling procedures are presented in Attachment A. The Alaska Department of Environmental Conservation (ADEC) Storage Tank Program Site Assessment and Release Investigation Summary Form is included as Attachment B. The Notification of Intent to Install or Reconfigure USTs, Notification of Closure USTs, Notification of Post-Closure USTs, Closure Checklist, Profile Form/Bill of Lading for the residual gasoline and used oil, Certificate of Tank Cleaning, Certificate of Tank Disposal with Disposal Receipt are included as Attachment C.

The USTs were disposed of the Municipality of Anchorage Regional Landfill in Eagle 1000 3 River, Alaska. The gasoline USTs were replaced with two double-walled fiberglass USTs (one 20,000-gallon capacity and one 15,000-gallon capacity). The heating oil tank will not be replaced. We understand that the used oil tank will be replaced with an above-ground vault. Upon completion of UST removal activities, the former UST pits were backfilled and a new pit was excavated near the northeast corner of the site.

#### **Subsurface Conditions**

Soils encountered during excavation consisted primarily of sand with gravel. Groundwater was not encountered in the excavations. Depth to groundwater has been measured in the former groundwater monitoring wells at approximately 27 to 28-1/2 feet bgs.

### PID Field Screening

During excavation and UST removal activities, soil was screened in the field for the presence of organic vapors using a PID. PID screening results varied from nondetect up to 875 parts per million by volume (ppmv). These results provided a basis for selection of product line and stockpile samples collected and submitted for laboratory analysis. Product line screening results were nondetect. Stockpile results ranged up to 60 ppmv but were predominantly nondetect. UST results suggested hydrocarbon impact under the fill ports of two of the three gasoline USTs (T1 and T2). Field screening and sampling procedures are presented in Attachment A.

### **Excavation of Gasoline USTs and Soil Sampling**

On September 11, 1998, SECOR collected two discrete soil samples from native soil beneath each of the three gasoline USTs (designated T1-F and T1-C through T3-F and T3-C). With the exception of the samples collected from beneath the fill ports for two of the gasoline tanks (T1-F and T2-F), no odor, staining, or other evidence suggestive of significant hydrocarbon impact was noted during excavation and sampling activities. Limited over-excavation in the areas of T1-F and T2-F was performed, removing approximately 50 cubic yards of impacted soil (characterized by samples S-5 and S-6). Soil sample locations are shown on Figure 2 and soil sample analytical results are shown on Table 1. The laboratory analytical methods, laboratory reports, and chain-of-custody documentation are presented as Attachment D.

### **Product Line Soil Sampling**

On September 9, 1998, SECOR collected twelve discrete soil samples for field screening from beneath the former product lines. Samples were collected from at selected locations beneath the former product lines, primarily at locations of joints. No odor, staining, or other evidence suggestive of significant hydrocarbon impact was noted

during excavation and sampling activities. PID screening results were non-detect for all samples and therefore no soil samples from beneath the product lines were collected for laboratory analysis. Field screening and sampling procedures are presented in Attachment A.

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#### **Dispenser Soil Sampling**

On September 29, 1998, SECOR collected four discrete soil samples from native soil beneath former dispensers (designated D-1 through D-4). Though a total of nine dispensers were reported at the site, three were located above the USTs adjacent to the fill ports. Three dispensers (characterized by samples D-1 through D-3) were located between UST T1 and the former kiosk. Three dispensers (the middle of which was characterized by sample D-4) were located between USTs T2 and T3 on the north product island. During excavation and removal of USTs T2 and T3, significant caving of the soil between the two excavations precluded sampling beneath the other two dispensers. Soil which caved was characterized, along with other excavated soil, as stockpiled soil by samples S-1 through S-4. Faint hydrocarbon odor was noted in samples D-2 and D-3. No strong odor, staining, or other evidence suggestive of significant hydrocarbon impact was noted during excavation and sampling activities. Soil sample locations are shown on Figure 2 and soil sample analytical results are shown on Table 1. The laboratory analytical methods, laboratory reports, and chain-of-custody documentation are presented as Attachment D.

#### Excavation of Heating Oil and Used Oil USTs and Soil Sampling

On September 18, 1998, SECOR collected discrete bottom samples from native soil below the fill ports and centers of the former heating oil and used oil USTs. Faint odor and staining were noted in samples collected from beneath the fill ports of each of the USTs. The heating oil and used oil tank soil sample locations are shown on Figure 2 and the analytical results are summarized on Table 1. The laboratory analytical methods, laboratory reports, and chain-of-custody documentation are presented as Attachment D.

#### **Stockpile Sampling**

On September 8 through 11, 1998, Pinnacle Construction excavated approximately 250 cubic yards of soil from the former gasoline UST and product line excavations. SECOR personnel were onsite to observe excavation activities, field screen soil samples, and to collect soil samples from the stockpiled soil as necessary. Soil exhibiting significant staining or odor was separated into a separate pile. Twenty samples within the "cleaner" pile were field screened using a PID and were all non-detect. Based upon the field screening, six discrete samples (S-1 through S-6) were collected and analyzed for GRO, BTEX, and total lead. Samples S-1,S-2, and S-5 reported concentrations below Category A clean-up levels for all constituents (Table 2). Samples S-3, S-4, and S-6

reported concentrations above Category A clean-up levels for GRO and/or benzene, and/or total BTEX (Table 2).

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On September 18, 1998, Pinnacle Construction excavated approximately 50 cubic yards of soil from the former heating oil/used oil UST excavation. SECOR personnel were onsite to observe excavation activities, field screen soil samples, and to collect soil samples from the stockpiled soil as necessary. Based upon the field screening, two discrete samples (OS-1 and OS-2) were collected and analyzed for GRO, BTEX, DRO, RRO, PCB, HVOC, and metals (cadmium, chromium, nickel, lead, and zinc). Both samples reported concentrations above Category A cleanup levels for DRO and one sample (O-2) also exceeded the Category A cleanup level for RRO (Table 2).

On September 21 and 22, 1998, Pinnacle Construction excavated approximately 650 cubic yards of soil from the northeast part of the property for the installation of two new gasoline USTs. SECOR personnel were onsite to observe excavation activities, field screen soil samples, and to collect soil samples from the stockpiled soil as necessary. No hydrocarbon odor or staining were noted in soil excavated from the new UST excavation. Sixty-five samples were field screened using a PID and were all nondetect. Based upon the field screening, fourteen discrete samples (SP-1 through SP-14) were collected and analyzed for GRO, and BTEX. All samples reported very low to nondetect levels for all constituents as shown on Table 2.

Based on the above field screening and laboratory results, and with approval of Mr. Clint Adler of ADEC, soil from the new UST excavation and approximately 100 cubic yards of the soil from the former facilities excavations was re-used onsite as backfill. The remaining excavated soil, approximately 150 cubic yards from the former gasoline facilities and approximately 50 cubic yards from the heating oil/used oil UST pit, with the approval of Clint Adler of ADEC, was transported to Alaska Soil Recycling (ASR) for contaminant destruction by thermal desorption.

#### SUMMARY OF FINDINGS

- Native soil at the site consisted predominantly of sand with gravel. Groundwater was not encountered and has been measured onsite at approximately 27 to 28-1/2 feet bgs.
- The ADEC Proposed Method Two Cleanup Standard for benzene (0.02 mg/kg) was exceeded in in-situ soil at one location (D-3 @ 2'), at a concentration of 0.294 mg/kg.
- The ADEC Proposed Method Two Cleanup Standard for GRO (300 mg/kg) was exceeded in in-situ soil at one location (T2-F), at depths of 13' (1,560 mg/kg) and 18' (1,740 mg/kg).

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- The ADEC Proposed Method Two Cleanup Standards for toluene (5 mg/kg), ethyl-benzene (6 mg/kg), and xylenes (69 mg/kg) were exceeded in in-situ soil at one location (T2-F), at depths of 13' and 18'. Concentrations reported at a depth of 13' included 40.1 mg/kg toluene, 22.3 mg/kg ethyl-benzene, and 510 mg/kg xylenes. Concentrations reported at a depth of 18' included 223 mg/kg toluene, 30.7 mg/kg ethyl-benzene, and 419 mg/kg xylenes.
- Analysis for total lead, as well as for cadmium, chromium, nickel, and zinc, reported concentrations suggestive of background levels.
- With the exception of a reported detection of 0.0656 mg/kg tetrachloroethane beneath the fill port of the former used oil tank (UO-F @ 9-1/2'), no PCB or HVOC analytes were reported. The concentration of tetrachloroethane at this location exceeded the ADEC Proposed Method Two Cleanup Standard of 0.02 mg/kg.
- Approximately 650 cubic yards from the new UST excavation, and 150 cubic yards from excavations associated with the former facilities, reporting nondetect to very low concentrations of hydrocarbons below Category A cleanup levels, were re-used as backfill onsite with the approval of Clint Adler of ADEC.
- Approximately 150 cubic yards of significantly impacted soil was removed from the site.

#### **PROFESSIONAL CERTIFICATION**

The findings presented in this report were based on field observations and certified reports provided by others. The data obtained is clear and accurate only to the degree implied by the sources and methods used. The information presented herewith was performed in accordance with generally accepted professional practices. No other warranty, expressed or implied, is made. SECOR International Incorporated staff has prepared this environmental site assessment report under the professional supervision of the below signed persons.

If there are any questions regarding the contents of this letter, please call us at (916) 364-1880.

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Sincerely,

### **SECOR International Incorporated**

Roger Hoffmore

Project Geologist

Greg Barclay
Senior Geologist

Attachments:

Table 1 - Soil Analytical Data - USTs and Product Dispensers

Table 2 - Soil Analytical Data - Stockpiled Soil

Figure 1 - Site Location Map

Figure 2 - Site Map with Soil Sample Locations

Attachment A - Field Screening and Soil Sampling Procedures

Attachment B - ADEC Storage Tank Program Site Assessment and

Release Investigation Summary Form

Attachment C - Notification of Intent to Install or Re-Configure USTs

Notification of Closure USTs

MOA Demo Permit

Notification of Post-Closure USTs

Certificate of Tank Cleaning/Disposal with Bill of

Lading

Scale tickets from disposal of petroleum contaminated

sorts

Attachment D - Laboratory Analytical Methods, Reports, And Chain-

of-Custody Documentation

cc: Mr. Bob Cochran, Chevron Products Company

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**USTs and Product Dispenser Island** Soil Analytical Data

Chevron Service Station #9-6489 1304 Airport Heights Drive Anchorage, Alaska

						מוסומת אלי משמעת						
Sample Name	Sample Depth	Date Sampled	GRO (mg/kg)	DRO (mg/kg)	RRO (mg/kg)	l etra- chloroethane (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	Total BTEX Total Lead (mg/kg) (mg/kg)	Total Lead (mg/kg)
T1-C	13	9/11/98	<5.0	Z A	A A	AA	<0.05	0.14	<0.05	0.452	0.592	5.09
⊢ 1- 1-	13	9/11/98	137	A A	N A	A N	<0.5	3.12	<0.5	23.9	27.02	13.1
T2-F	13	9/11/98	1,560	ΥZ	Z A	A A	<2.5	40.1	22.3	510	572.4	4.54
T2-C	13	9/11/98	11.5	Z Z	NA	N A	<0.05	0.141	0.0846	2.69	2.9156	5.98
T3-F	13	9/11/98	<5.0	Z Z	Z A	Ϋ́	<0.05	0.191	<0.05	0.829	1.02	4.27
T3-C	6	9/11/98	<5.0	NA	Z A	Z V	<0.05	0.149	<0.05	0.273	0.422	4.64
T-1-F	16	9/11/98	<5.0	Υ V	N A	AN	<0.05	<0.05	<0.05	0.144	0.144	5.43
T2-F	<del>د</del> ش	9/11/98	1,740	Ą Z	N A	Z A	<10.0	223	30.7	419	672.7	4.73
UO-F	9.5	9/18/98	<5.0	14.4	73.9	0.0556	<0.05	<0.05	<0.05	<0.1	N N	ΑN
0-00	9.5	9/18/98	<5.0	<4.0	<25.0	<0.05	<0.05	<0.05	<0.05	<0.1	N.	A A
HO-FI	9.5	9/18/98	₹ Z	Ν	682	A N	A Z	∀ Z	Z Z	Z Z	NA	A A
HO-C	9.5	9/18/98	₹ Z	Z Z	<25.0	Z Z	Ą Z	X A	Z A	ď Z	ΝΑ	Ϋ́
0-1	7	9/29/98	<5.0	Ϋ́	Z Z	∢ Z	<0.05	0.0995	<0.05	0.227	0.3265	19.6
D-2	2	9/29/98	23.9	Υ	N A	Ν	<0.2	<0.2	<0.2	<0.4	N N	31.2
0-3	7	9/29/98	30.1	A A	Z Z	ΥZ	0.294	2.23	0.423	3.44	6.387	26.2
D-4	2	9/29/98	<5.0	A N	ΑN	ΝΑ	<0.05	0.0728	<0.05	<0.1	0.0728	7.12
Proposed M	Proposed Method Two Cleanup Standards⁴	ınup Standards⁴	300	250	11,000	0.01	0.02	വ	9	69	ŀ	1000**
Note: UO and P	40 samples were	Note: UO and HO samples were analyzed for PCB's using Alaska Method 8082 and were reported as non-detect. The same samples were for Halonenated Volatile Organics	s using Alaska N	lethod 8082 ar	nd were report	ed as non-detect	The same sam	noles were for h	Halogenated Vo	Jatile Organics	-	

Compounds using EPA Method 8021 B Modified, and were reported as non-detect, except Tetrachloroethane (at a concentration of 0.0656 ug/l in sample UO-F @ 9.5'). UO samples were also analyzed for Total Metals by EPA 6000/7000 Series Methods. See certified laboratory reports for results. UC and HO samples were analyzed for PCB's using Alaska Method 8082 and were reported as non-detect. The same samples were for Halogenated Volatile Organics

HO = Sample collected from beneath heating oil UST location.

 $\mathsf{UO}=\mathsf{Sample}$  collected from beneath used oil UST location. T = Sample collected from beneath gasoline UST location.

GRO = Gasoline Range Organics by Alaska Method 101 D = Sample collected from beneath dispenser island.

DRO = Diesel Range Organics by Alaska Method 102

RRO = Residual Range Organics by Alaska Method 103

NA = Not Analyzed

mg/kg = milligrams per kilogram

= Strictest Levels (Migration to Groundwater) in Under 40" Zone

= The commercial or industrial lead cleanup standard. (The residential soil cleanup standard is 400 mg/kg.)

### Table 2 Soil Analytical Data Stockpiled Soil

Chevron Service Station #9-6489 1304 Airport Heights Drive Anchorage, Alaska

S-1         9/11/98         ND         NA         NA         0.0565         0.283         0.094         0.548         0.9815           S-2         9/11/98         ND         NA         NA         0.0744         0.0991         0.0591         0.382         0.6146           S-3         9/11/98         12.6         NA         NA         0.102         1.04         0.467         2.84         4.449           S-4         9/11/98         51.8         NA         NA         0.866         5.18         1.65         9.05         16.746           S-5         9/11/98         702         NA         NA         <0.0500         0.273         0.118         3.79         4.181           S-6         9/11/98         702         NA         NA         <0.0500         <0.0500         <0.0500         <0.100         0           SP-1         9/22/98         <5.0         NA         NA         <0.0500         <0.0500         <0.0500         <0.100         0           SP-2         9/22/98         <5.0         NA         NA         <0.0500         <0.0500         <0.100         0           SP-3         9/22/98         <5.0         NA         NA	Sample Name	Date Sampled	GRO (mg/kg)	DRO (mg/kg)	RRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Total Lead (mg/kg)
\$-3 9/11/98 12.6 NA NA 0.102 1.04 0.467 2.84 4.449 \$-4 9/11/98 51.8 NA NA 0.866 5.18 1.65 9.05 16.746 \$-5 9/11/98 31.5 NA NA <0.0500 0.273 0.118 3.79 4.181 \$-6 9/11/98 702 NA NA <1.25 23.5 9.55 212 245.05 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/22/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/18/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/18/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0 \$-1 9/18/98 <5.0 NA NA <0.0500 <0.0500 <0.0500 <0.0500 <0.0100 0	S-1	9/11/98	ND	NA	NA	0.0565	0.283	0.094	0.548	0.9815	21.30
\$-4 9/11/98 51.8 NA NA 0.866 5.18 1.65 9.05 16.746 \$-5 9/11/98 31.5 NA NA											

Note: OS samples were also analyzed for HVOCs by EPA Method 8021 B Modified and PCR's by EPA Method 8082. Please refer to the certified laboratory reports for results

GRO = Gasoline Range Organics by Alaska Method 101

DRO = Diesel Range Organics by Alaska Method 102

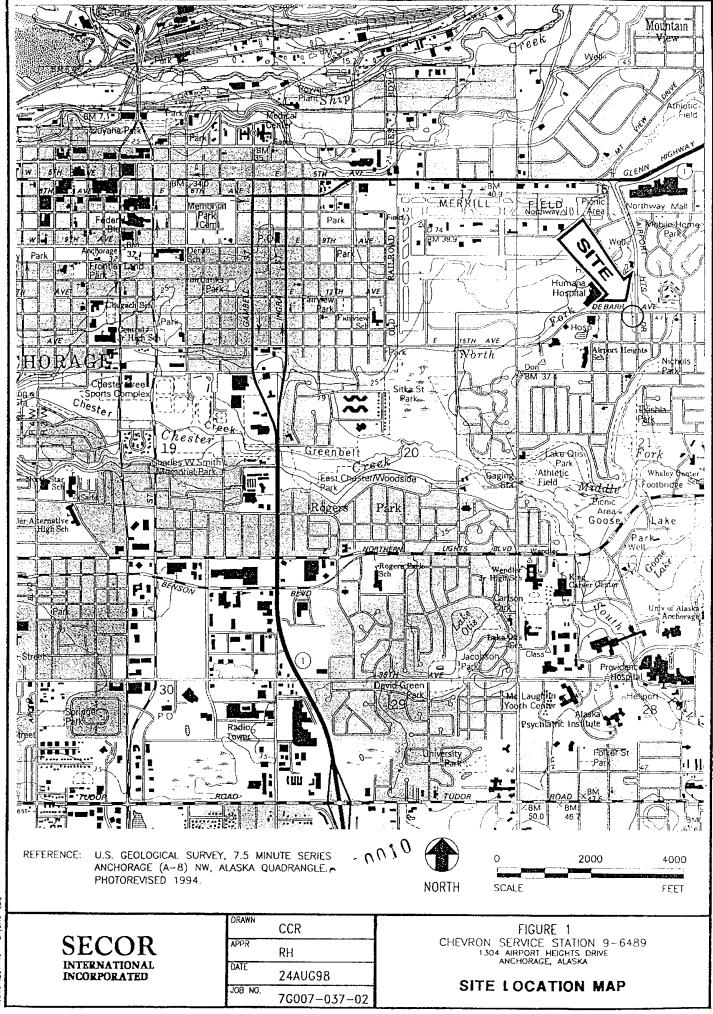
RRO = Residual Range Hydrocarbons by Alaska Method 103

S and SP = Samples collected from stockfuled soil from the UST, dispenser, and product line excavations

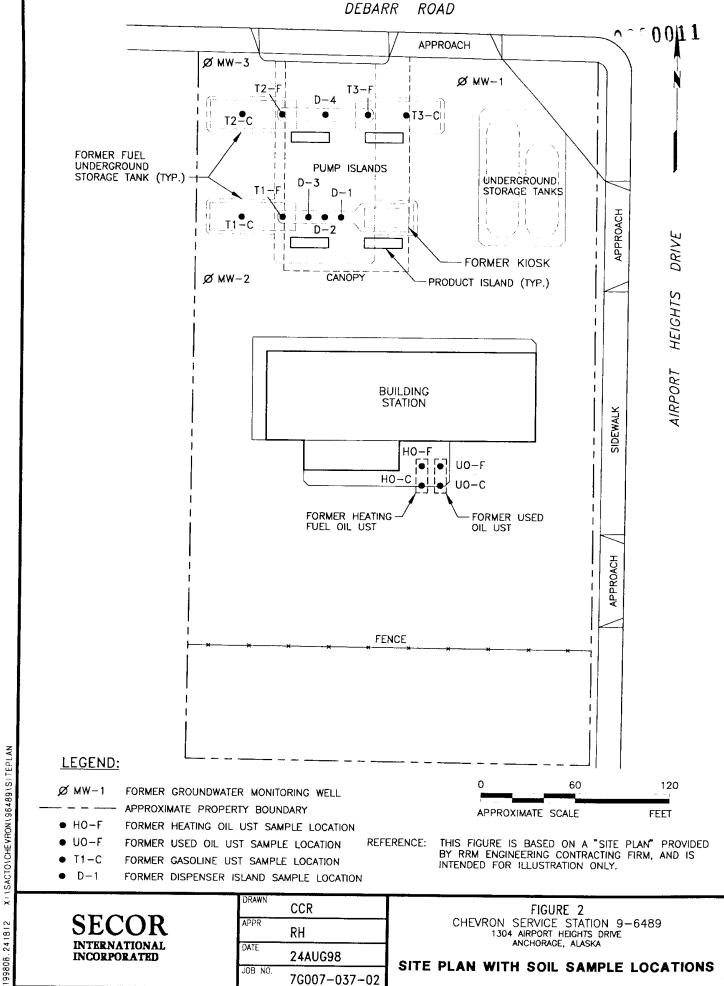
OS = Samples collected from used oil and heating oil tank stockpiled sof

NA = Not Analyzed

mg/kg = milligrams per kilogram



9801 281440 F-> S(TF=1)



241812 199808.

# ATTACHMENT A FIELD SCREENING AND SOIL SAMPLING PROCEDURES

## ATTACHMENT A FIELD SCREENING AND SAMPLING PROCEDURES

### **Field Screening Procedures**

Soil samples were screened in the field for ionizable organic compounds using a Mini-Rae photo-ionization detector (PID) with a 10.2 eV lamp. The test procedure involves measuring approximately 30 grams from an undisturbed soil sample, and placing this subsample in a ziplock type bag. After the soil was allowed to equilibrate for approximately 20 minutes, the probe tip of the PID was inserted into the head space of the bag. The highest measured concentrations of ionizable organic compounds within the head space of the bag was recorded in the field notes (Attachment B). PID readings are useful for indicating relative levels of contamination, but cannot be used to evaluate hydrocarbon levels with the confidence of laboratory analyses.

### Soil Sampling Procedures

Discrete soil samples were collected during excavation activities directly from the excavator bucket. Soil stockpile samples were collected by filling a laboratory-supplied glass jar with soil after removing approximately 6 inches to 1 foot of surface material in the sample location. In soil that had been stockpiled for more than several hours prior to sample collection, approximately 18 inches of surface material was removed in the sample location prior to the collection of the sample. The sample jars were capped with Teflon lids, sealed in resealable bags, and placed on ice for transport to the laboratory accompanied by the appropriate chain-of-custody documentation. Methanol was added in the field to the soil samples analyzed by Method AK 101.

### ATTACHMENT B

### ADEC STORAGE TANK PROGRAM SITE ASSESSMENT AND RELEASE INVESTIGATION SUMMARY FORM

#### APPENDIX B

### ADEC Storage Tank Program Site Assessment and Release Investigation Summary Form

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This document summarizes information from site assessments and release investigation reports that are required by Alaska's Underground Storage Tanks Regulations (18 AAC 78). It is intended to ensure minimum requirements are met when submitting full reports to ADEC. It cannot be substituted for comprehensive site assessment or release investigation reports. Site assessments (as defined in AS 46.03.450) are conducted to check for the presence or absence of petroleum contamination. If contamination of soil or groundwater is identified then a release investigation is required. Site assessments and release investigations must be conducted by a qualified impartial third party (as defined in 18 AAC 78) and in accordance with chapter two of the Underground Storage Tanks Procedures Manual (UST Manual).

#### How to fill out this form

Type or print in ink the requested information and sign in ink the "signature" blocks on page 7. Please attach this form to the comprehensive site assessment or release investigation report (or include it in the report introduction) and submit it to the nearest ADEC field operations office (Juneau, Anchorage, Fairbanks or Soldotna).

1.		General Info	ormation	
Purpose of Site assessment/ Release investigation:	Facility (Closure, Change-in	Upgrade.		edecements & closures
Owner of site:	Cheuvan I Name of company/	roducts Co. legal entity that owns		125 - 842 - 9655 Phone number
	P.O. Box 60 Mailing address	04, Sant	Ramon C	A 94583 City, State, Zip code
Operator of site:		roducts Cor legal entity that opera	many (	125-842-9655 Phone number
	P.O. Box 6		Ramon C	CA 94583 City, State, Zip code
Location of site:	Chevron 9-6	489 (a.kg., To	riple A Chev	\
	1304 Airpa	ort Heights I	\	wrage AK 99508
	Suldiv. Saxfor	sile (be as specific as	Block 1	City. State, Zip code
	Legal description of Vertail Ser Type of business at	site Vice Statio site	in	Section/township/range  Facility ID # / Tank ID number(s)
Financial Assistance Applications filed (this site only)	Site assessment/	Tank cleanup	Tank upgrade	Tank closure
Reports on file with ADEC:	Tightness test	Closure notice	Other	

### 2. System and tank status

Describe the status, size, and contents of the tanks that have been at the site:						
Tank ID Number:	Tank No. AH-Ol Ta	ank No AHOZ Ta	nk No. <u>AH</u> 03 T	ank No. <u>AH-</u> 04 Ta	ink No. 4H-05	
Tank status (check one Currently in use						
Temporarily closure						
Closed/left in place						
Closed/removed			_×			
Total capacity (gallons)	10,000	10,000	5,000	500	500	
Contents (diesel, etc)	gasoline	gasoline	gasoline	heating fuel	used oi	
3. Firm conductin	g site assessment	and release in	vestigation			
9912 Busin Mailing address	ternational In ess Park Drive	•		916-364- Phone number  Sacramonto City, State, Zip code	1880 A 95827	
Koger Hotel	visor(s)		<del></del>	Reger Ho	tmore_ samples	
4. Site history						
Y N  M _ Wa  _ Wa  _ Did  _ Has  M _ Has  M _ Do  If the answer to Give dates and	circumstances, us	on observed or ntamination observed or ntamination observed or prior tank rest been performity's USTs or properties as asserts indicated as the strong is yes, placed on the strong of t	identified? erved or ident epairs indicate med on any Us ping ever faile sessments perf e any contamin ease describe sheet if necess	ified? <i>(prevision</i> a possible released a tightness terest formed at this sination has occur (or attach copy sary:	sty identified) use? st? te?	erd
	They was LA	CUT,				

### 5. Field screening analysis

	of field detection instrument us	Model:	Date calibrated: 9/11/98, 9/18/98
	per of tests:	Range of results:	<del>-                                    </del>
			ised?
Numb	per of tests:	Range of results:_	
Collecti	ion of soil samples		
	te assessments done for USTs		
Chec	ck the appropriate boxes below	(if not applicable, leave bl	ank):
Y	N		
	Were samples taken from	borings (or test pits) withi	in 5 feet of the UST?
_	Were samples collected f	from within 2 feet below the	e bottom of the UST?
	Were dispensers connected	ed to the UST system?	
	Were samples taken from	n borings (or test pits) adjac	cent to dispensers?
	Were samples taken from	borings (or test pits) adjac	cent to piping?
How	many borings/pits were made?	How many samples	were analyzed?
110 ** 1	many comings, pile were made.		
For si	te assessments done at excavat	ion and removal of USTs:	
	te assessments done at excavat ck the appropriate boxes below		ank):
Chec			ank):
Chec	ck the appropriate boxes below	(if not applicable, leave bl	
Chec Y X	ck the appropriate boxes below	(if not applicable, leave bl	or observed?
Chec Y X N	ck the appropriate boxes below  N  Were any areas of obviou  Were samples taken from	(if not applicable, leave blue sometimes contamination identified areas of obvious contamination identified	or observed?
Chec Y X N	ok the appropriate boxes below  N  Were any areas of obviou  Were samples taken from  Were at least two discrete	(if not applicable, leave blus contamination identified areas of obvious contamination analytical samples taken for	or observed? nation? from excavated pit area?
Chec Y X	N  Were any areas of obviou  Were samples taken from  Were at least two discrete  Was at least one sample to	(if not applicable, leave blus contamination identified areas of obvious contamine analytical samples taken from below each disp	or observed? nation? from excavated pit area? pensing island's piping?
Y X N N	N Were any areas of obviou Were samples taken from Were at least two discrete Was at least one sample to Was at least one sample to	(if not applicable, leave blus contamination identified a areas of obvious contamine analytical samples taken faken from below each disperaken from the piping trence	or observed? nation? from excavated pit area? pensing island's piping? h? all fiell screening NU for trenche
Chec Y X N	N Were any areas of obvious Were samples taken from Were at least two discrete Was at least one sample to Were the samples referen	is contamination identified areas of obvious contamination identified areas of obvious contamine analytical samples taken faken from below each disperaken from the piping trencinced above collected taken	or observed? nation? from excavated pit area? pensing island's piping? h? all fiell screening NU for trenche from native soil within two feet belo
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Y X Num	N Were any areas of obvious Were samples taken from Were at least two discrete Was at least one sample to Were the samples referent the bottom of the tank pit If multiple tanks were resulted. Were additional samples square feet?	is contamination identified areas of obvious contamination identified areas of obvious contamine analytical samples taken from below each disperate from the piping trenched above collected taken to or dispenser/piping trenched over the collected for each 250 square Estimated excavation.	or observed? nation? from excavated pit area? pensing island's piping? h? all field screening NU for trenche from native soil within two feet below? samples collected? are feet of excavated pit over 250 on's surface area:
Y X N Num For al	N Were any areas of obvious Were samples taken from Were at least two discrete Was at least one sample to Were the samples referent the bottom of the tank ping If multiple tanks were resulted. Were additional samples square feet?	is contamination identified areas of obvious contamine analytical samples taken from below each disperate from the piping trenched above collected taken to or dispenser/piping trenched to dispenser/piping trenched to dispenser at least three second collected for each 250 square to the collected for each 25	or observed? nation? from excavated pit area? pensing island's piping? h? all field screening NU for trenche from native soil within two feet below? samples collected? are feet of excavated pit over 250 on's surface area:
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Y X N Num For al	N Were any areas of obvious Were samples taken from Were at least two discrete Was at least one sample to Were the samples referent the bottom of the tank ping If multiple tanks were resulted. Were additional samples square feet? Were of distinct points sampled: Il site assessments ock the appropriate boxes below	is contamination identified areas of obvious contamine analytical samples taken from below each disperate from the piping trenched above collected taken to or dispenser/piping trenched to dispenser/piping trenched to dispenser at least three second collected for each 250 square to the collected for each 25	or observed? nation? from excavated pit area? pensing island's piping? h? all field screening NU for trenche from native soil within two feet below. samples collected? are feet of excavated pit over 250 on's surface area:
Y X N Num For al	N Were any areas of obvious Were samples taken from Were at least two discrete Was at least one sample to Were the samples referent the bottom of the tank pit If multiple tanks were retained. Were additional samples square feet? Were of distinct points sampled: It site assessments ket the appropriate boxes below N Were field duplicate sam	is contamination identified areas of obvious contamine analytical samples taken from below each disperate from the piping trenched above collected taken to or dispenser/piping trenched to dispenser/piping trenched to dispenser	or observed? nation? from excavated pit area? pensing island's piping? h? all field screening III for trenche from native soil within two feet below? samples collected? are feet of excavated pit over 250 on's surface area:

				): gasoline, BTEX, passible used oil constitution diesel, oil succession
Please list th samples a	e analytical met analyzed by eac	thods used to dete h method, and the	ct these contar range of resu	ninants in the soil samples, the number of lts for each method:  0018
Possible	Analytical	Number of	Range of	Location(s) of sample point(s)
product	method	samples	results	w/ highest level of contamination
gasoline	AKIOI MARA	<u>9 14 1</u>	1) - Marine	"TZ-F" under Lik portend of NW US
BTEX	EPA 8020	_14_ NO	- 0.294 (benzeng	"D-3" under disponser on South palace
diesel	AK 102	_2	ND-14.4 pm	"UO-F" unda usal oil fill port
oi t grease	AK 103	_4	NO-682 pm	"HO-F" under fill port of hesting of 169T
HVOC'S	EPA 8021B	_2	NI to 0,06560pm	"uo-F" " " " useloil ust
metals	FPA 6000 HOOD	2 for 5 matels	11-31.2 ppm	Note there
	Series	. ,	Callbackground	lexls)
Y N  - X V  - V  - X Is  o  \( \frac{\fin}}}}}}{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{	Vere borings drist groundwater of the bottom of Vere samples tall vere all these samdwater/saturate ese samples were	r encountered dur lled/pits dug at lear r seasonal high wa the USTs? ken from borings of mples analyzed w ed-soil samples we re taken from the ere analyzed?	ast five feet be ater table know drilled/test pits ithin recomme ere collected & top 6" of wate	
_		ures Manual or Ta	ble G of 18 A	AC 78.800(b))
Identify the	possible contam	inants at the site:	NA	
_	•			nants in the water samples, the number as for each method:
Analytical method	Number samples	of Range of results (ppm)		of sample point with el of contamination
10. Disposal o	f material	See Against		

Y N  Check the appropriate boxes below (if not applicable, leave blank):  See Attachment C
Were tanks cleaned in accordance with API 2015 (Cleaning Petroleum Storage
Tanks)?  Were the tanks and piping removed and disposed in accordance with API 1604
(Removal and disposal of used petroleum Storage tanks)?
Where were the tanks and piping
disposed?
Where was the tank sludge and rinsewater
disposed?
11. Stockpiles
Check the appropriate boxes below: Y N
\(\sigma\) Is any soil stockpiled at the site?
Are soils stockpiled in accordance with 18 AAC 78.311?
12. Release investigation
Check the appropriate box below: Y N
Was any petroleum contamination identified during site assessment?
(Answer "yes" if any evidence a release occurred; if no, proceed to item 13)
If contamination was found, what was matrix score for site?
When did release occur? wknown When was release confirmed? (Date & time)
When was ADEC notified? List ADEC staff notified: (Name)
What is status of UST that \( \sum_{\text{\tinte\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tinit}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\texi{\texi}\texit{\texit{\texit{\texi{\texi{\texi{\texi{\texi{\texi\texi{\texit{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\t
prompted the investigation? In use Out-of-use, product Out-of-use: Permanently still in system system empty closed
Briefly describe (or attach copy of report discussion) the steps taken to prevent further migration of the release and steps taken to monitor and mitigate fire and safety
hazards: remaining soil impact is residual - no petroleum hydrocarbon
hazards: remaining soil impact is residual - no petroleum hydrocarbon  Saturated soils observed - source removed

### 13. Site sketch See figure 2

Sketch the site in the space below. Alternatively, attach a site map to the back of the form. The sketch (or accompanying narrative) should include the following information:

^ 10020

- locations of all USTs, piping, and dispensers
- distances from tanks to nearby structures
- property line locations
- location and dimensions of excavation(s)
- type of backfill used to surround system
- locations of any known historical releases
- locations of any observed contamination
- location of any boreholes and test pits

- soil types
  - field screening locations and readings
  - sampling locations, depths, & sample ID numbers See also
  - water wells and monitoring wells (if present)
- depth to groundwater/seasonal high groundwater
- locations of any stockpiled soils
  - north arrow
- bar scale (specify feet or meters)

For release investigations, in addition to the above information, show the groundwater gradient; surface drainages (including potential hydraulic connections with groundwater) and utility trenches.

### 14. Quality assurance

16.

Check the appropriate boxes below:
Y N
Were there deviations from Chapter 2 of the UST Procedures Manual? (Note that 0 0 2 1 any deviations must be documented in a section of the comprehensive report)
\( \mu \) Is a field quality control summary included in the reports?
Is a laboratory QC summary included in the report for all samples used to verify cleanup levels have been met?
15. Certification
The following certification is to be signed by the assessment firm's principal investigator or Quality Assurance Officer:  I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of Chapter 2 of the UST
Procedures Manual.
Project Geologist (w/SECOR Int'), Inc.)  (Print name)  (Title)
Roger Hoffmore 1/21/99 (Signature) (Date)
The following certification is to be signed by the UST owner/operator (or designated representative):  I certify that I have personally examined and am familiar with the information in this and all attached documents and based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.  Reper Hormone w/ SECOR International Inc.  (Print name)  Representative of UST owner (Specify if owner, operator, representative)  Place Hormone  (Signature)  Section Section (City, State, Zip)
16. Attachments
Please check the boxes showing any comprehensive reports attached to this summary:  Site Assessment Report (include if no release investigation is needed)
Release Investigation Report (include if release investigation is needed)

### ATTACHMENT C

### NOTIFICATION OF INTENT TO INSTALL OR RE-CONFIGURE UNDERGROUND STORAGE TANKS

## NOTIFICATION OF CLOSURE UNDERGROUND STORAGE TANKS

### **MOA DEMO PERMIT**

NOTIFICATION OF POST-CLOSURE UNDERGROUND STORAGE TANKS

CERTIFICATE OF TANK CLEANING/DISPOSAL WITH BILL OF LADING

SCALE TICKETS FROM DISPOSAL OF PETROLEUM CONTAMINATED SOIL

Mr. Roger Hoffmore SECOR International Incorporated 9912 Business Park Drive, Suite 100 Sacramento, CA 95827

RE: CUSA #9-6489

1304 Airport Heights Dr. Anchorage, AK 99508

### Dear Roger:

The following documents are included for your use in preparing the site assessment report for the above referenced site:

- Notification of Intent to Install or Re-Configure Underground Storage Tanks, as submitted on 8-26-98.
- Notification of Closure Underground Storage Tanks, as submitted on 8-26-98.
- MOA Demo Permit #98-5849.
- Notification of Post-Closure Underground Storage Tanks, as submitted on 12-18-98.
- Certificate of Tank Cleaning/Disposal with Bill of Lading for each of the five UST's.
- Scale tickets from disposal of petroleum contaminated soils: Gasoline = 280.20tn (9/17/98) & Used Oil = 89.64tn (10/7/98).

Please let me know if I can be of further assistance. Thank you.

Sincerely,

James Cazort

Pinnacle Construction, Inc.

Enclosures

- c. Bob Cochran w/o attachments
- c. Larry Wallace w/o attachments

Pinnacle Construction, Inc. 2410 Azurite Ct., Suite B Anchorage, AK 99507 Phone (907) 522-0040 Fax (907) 522-0041 Our business is building!



### ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# NOTIFICATION OF INTENT TO INSTALL OR RE-CONFIGURE UNDERGROUND STORAGE TANKS



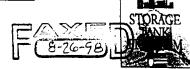
Notice of intent to install or change configuration of a UST is required at least 15 days but no later than 60 days prior to the beginning of installation or change in configuration. See 18 AAC 78.025 (b), and 18 AAC 78.035. "Significant reconfiguration" means to replace or realign piping or adding or retrofitting cathodic protection, lining spill or overfill controls to any part of a UST system. See 18 AAC 78.995 (91).

Facility - Location (Do not Use P.O Box)	Tank Owner
Name Triple A Chevron  Address 1304 Airport Heights Dr.  City Anchorage  State/Zip Alaska 99508  Phone 607) 277-0723  Fax	Name Some as Facility Address City State/Zip Phone Fax
ADEC Facility ID #: سمهامب (Existing Facility Only)	Date of Installation/Reconfiguration: = 9-17-98
Alaska Statute 46.03.375 requires those who supervise a UST instal State of Alaska for Installation.	llation, repair, upgrade, or reconfiguration be certified by the
No later than 30 days after installation or return to service, the own signed tank registration form, along with all applicable registration	
Name of certified person to perform work Steve r	
Is there a leak/spill at this site? <u>Unknown</u> (if so, please	
Have you contacted the local fire department of your intent	to install the tank(s)? <u>Yermithing</u> via MOA
Is there a Class A or B public drinking water source within Is there a Class C public drinking water source within 75 fee	100 feet of proposed tank location? Unknown et of proposed tank location?
Installing: (Please check) X Tanks and Piping [] Tanks On Number of tanks:	aly [ ] Piping Only
	s Only [ ] Piping Only
(Check all that apply) [] Cathodic Protection (Type)	
Notice Submitted By: [ ] Owner [ ] Operator	r MOther Contractor
James Cazact Pro	iest Manages
(Please print name) (Title)	
Tames Cazort / Co (Please print name) (Title) (Signature)	Ty)  The Contractor  Ject Manager  8-26-98  (Date)
Return Completed Form to:  ADEC, Storage Tank 555 Cordova Street Anchorage, AK 9950 FAX # (907) 269-750	01



### ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

### NOTIFICATION OF CLOSURE UNDERGROUND STORAGE TANKS



Notice of Closure is required for any tank and/or piping removed, closed in-ground, or changed in service.

See 18 AAC 78.085 (a). "Change in service" means to change the use of a UST from containing a regulated substance to a non-regulated substance (such as heating oil).

Sabstatice (Such Es	neating on).
Facility - Location (Do not use P.O. Box)	Tank Owner
Name Triple A Chevron  Address 1304 Airport Heights Dr.  City Anchorage  State/Zip Alaska 99508  Phone/Fax (901) 277-0723  Facility ID Number:  Scheduled Date for Closure:	Name Chevron Products Co. 10025  Address 7.0. Box 5004  City San Ramon  State/Zip CA 94583  Phone/Fax P (510) 842-9002  F (925) 842-9591  Unknown  9-9-98 or 9-10-98
This form MUST be completed and sent to ADEC at the address listed by	pelow at least 15 and no more than 60 days prior to closure.
Alaska Statute 46.03.375 requires those who supervise an UST closure b	pe certified by the State of Alaska for Decommissioning.
A UST with a confirmed release must be permanently removed from the	e ground. In-place closure or change in service is not allowed.
A Site Assessment or Release Investigation in accordance with 18 AAC third party using "Qualified" persons under a Standard Sampling Proc	78.090 must be performed at time of closure by an impartial edures Manual (SSPM).
Person to Perform Closure Steve Rchl	UST Worker License # 387
Person and Company to Perform Site Assessment or Release	
Is the Person "Qualified" and on file with ADEC? 1/e>	Secor Environmental
Method of Closure:  Removal In-ground Change in Service  X (If so, (If so,	See Discussion on Reverse Side) what is new fuel usage?
Is there a leak/spill at this site? كملمس (if so, please notif	
Have you contacted the local fire department of your intent to	o close the tank(s)? <u>Permitting via MOA</u>
Where are the tank, piping, equipment, and sludge to be disp	1
Closure for (please check): X Tanks and P	iping [] Tanks only [] Piping only
Unknown Unknown 5,000 Ge	Product Stored  Date Last Used  Currently in use  Section  Used Oil
Closure Notice Submitted By: [ ] Owner [ ] O	perator [AOther Contractor
James Cazart Proje (Please print name) (Title)	ct Manage
(Please print name) (Title)	
(Signature)	8-26-98 (Date)
	(Date)
Return Completed Form to: ADEC, Storage Tank Program 555 Cordova Street	

Anchorage, AK 99501 FAX # (907) 269-7507

### COMMERCIAL PERMIT APPLICATION

**Permit Number:** 

98- -5849

Tax Code Number:

004-113-01

MUNICIPALITY OF ANCHORAGE BUILDING SAFETY DIVISION 3500 EAST TUDOR ROAD

Telephone (907) 343-8211

Inspection Request Line (907) 563-3464

Inspection Fax Line (907) 343-8235

0026

Subdivision:

SAXTON

Lot/Space:

14A

Block: 1

Tract:

Site Address:

1314 AIRPORT HEIGHTS DR

Owner:

TRIPLE A SERVICE INC

Phone No: ( ) -

Contractor:

PINNACLE CONSTRUCTION, INC.

Phone No: (907)522-0040

Architect:

DEAN CO

Phone No: ( ) -

Type of Work:

**DEMO** 

Proposed Use: SERVICE STATION

Work Description: demo of interior non-structural walls, underground storage tanks & lines.

kiosk and canopy along w/ surface paving /td

### Total Construction Valuation of Work: \$.00

Permit Fee: \$25.00 Plan Review Fee: \$.00 Fire Review Fee: \$.00 Address Fee: \$.00 Other: \$.00 Total: \$25.00 Date Paid:

09/04/98

Payment Type:

MASTER CARD

Receipt No:

TO INSURE THAT YOUR PERMIT REMAINS ACTIVE, CALL FOR AN INSPECTION AT LEAST ONCE EVERY 360 DAYS. PER MUNICIPAL CODE, ALL REFUNDS ON CANCELLED PROJECTS MUST BE REQUESTED IN WRITING NO LATER THAN 360 DAYS AFTER DATE OF

FEE PAYMENT. LAND USE PERMITS VALID FOR 180 DAYS TO COMMENCE CONSTRUCTION

The owner of this building and the undersigned agree to conform to all applicable laws of this jurisdication.

PRINTED NAME: mes

SIGNATURE: DATE: 09/04/98

This is an application only. This is not your permit to begin construction. There may be additional fees for site review and landscaping review. Permits are required for plumbing, mechanical, electrical, elevator, and fire systems.

**PHONE** 343-8315 343-8328

09/04/98

Date:

### MUNICIPALITY OF ANCHORAGE

3500 Tudor Road

### **Building Inspection Division**

**DEMOLITION PERMIT** 

PERMIT NUMBER: 98- -5849

0027

Street add	dress where	e demolition will be performed	l:			
1314 AIF	RPORT HE	EIGHTS DR				
Lot	Block	Subdivision:		Owner of	structure to be demol	lished <sup>.</sup>
14A	1	SAXTON			A SERVICE INC	iiorica.
Olympia N	Anilina Add		( <b>Y</b>			
Owner's it	Aailing Add	ress	(11		Owner's Phone	
4-16	110 Ct	Helgi MTS	UNEUE	ou	( ) -	
		who will do the job			Contractor's Phone	
PINNACI	LE CONS	TRUCTION			( ) -	
Contracto	r's Mailing	Address		<del></del>		
TYPE OF	STRUCTU	IRE				
Single Dwe		Duplex Multiple Dw	vellina 🗀 Ri	etail Store	Cabin 🗀	Warehouse
					<u> </u>	vvarenouse
a. It is understood that the work to be accomplished under the permit is to be completed and not to exceed 180 days						
a. It is understood that the work to be accomplished under the permit is to be completed and not to exceed 180 days from the date of this permit.						
b. The time period for which the permit is valid, however, shall not preclude the Building Inspector from requiring, the completion of the work within such shorter period of time as he may designate in the event a health, safety, or building hazard is sound to exist.						
c. The Building Inspector has specified in this case, and the Permittee agrees, the the work to be done under this permit is to be completed by:						
d. Failure to complete the work within the period of time designated under conditions noted in paragraph "b" above may result in summary condemnation by Municipality of Anchorage or criminal prosecution for maintenance of a nuisance.						
<ul> <li>e. Concrete may be buried on site, (no piece may be larger than 12 inches in diameter) Such materials location to be designated on rough plot along with utility termination information and submitted to Code Enforcement and Abatement Section. Standard of compliance in demolition is to leave the premises in a clean level nuisance free condition.</li> <li>f. Be aware that the structure you are demolishing may contain hazardous material e.g. asbestos. Removal of such material by Federal and State Law require special handling and proper disposal. If you identify any as existing in the structure you are demolishing contact the State Department of Environmental Conservation and the Occupational Safety and Health Department for guidance and instructions for handling and disposal. NOTE: ALL DEMOLITION MATERIAL TO BE DISPOSED OF AT AN APPROVED SITE.</li> <li>g. Contact all utilities e.g. gas, water, sewer, or electric to shut off service and disconnect.</li> </ul>						
1. 2. <b>N</b> 3. h. Ti	1. Water-Service to be disconnected at the main line. 2. Sewer-Service to be disconnected at the property line.  NOTE: A SERVICE DISCONNECT PERMIT IS REQUIRED FOR EACH UTILITY.  3. An AWWU Inspector shall observe the operation to insure quality.  h. The permitee wil notify the Building Inspector when the completed job is ready for final inspection and submit rough plot plan showing any buried materials and termination point for utility service cut-offs.					
Issued by:			Permittee's Sign	ature	C: A	
DEITZ, T	ERESA E		ama	o (ensist	for Vinnack	L Const,
Site Inspe	cted by:					
Inspector's	Remarks		<u> </u>	1		
	<del></del>		<del>.</del>			· · ·



### NOTIFICATION OF POST-CLOSURE UNDERGROUND STORAGE TANKS



Post-Closure information is required 30 days after UST closure or change in service. See 18 AAC 78.085 (f).

The Owner/Operator or his/her representative must fill out and sign Page 1.

The Certified worker who performed or supervised the closure must fill out and sign Page 2.

Facility - Location (Do not use P.O. Box.)	Tank Owner
Name Airport Heights Cheuron Address 1304 Airport HTS. City Anchorage State/Zip AK 99501 Phone/Fax (907) 277-0723 Facility ID #	Name Cheuron USA  Address P.O. Box 6004  City Sun Ramon  City/State CA 94583  Phone/Fax (925) 842-9500
TANKS REMOVED OR	CLOSED IN-GROUND
Closed In-ground La	te Product Contamination  st Stored Found?  \(\gamma\) \((\gamma\) \(\gamma\)
Performed By: (Person) Steve Pohl (Companion of Companion	ay) Pinnacle (UST License #) 387  à) 1017/98 Lust PCS exported to ASR 12/98 Replacement Completed
SITE ASSESSMENT/RELE  Performed by: (Person)  Caper Hoffmer (Compa  SITE ASSESSMENT REPORT MUST BE SUBMITT AFTER CLOSURE. RELEASE INVESTIGATION F WITHIN 45 DAYS AFTER CLOSURE.	ED TO LOCAL ADEC OFFICE WITH 60 DAYS
Was the closed tank replaced by a new UST? Yes_If yes, please submit a new Registration form conta	Noining information on the new tanks.
Submitted by: [ ] Owner [ ] Operator	M Other Contractor
James Cuzort	General Manager
(Please Print Name)	(Title) 12-18-48
(Signature)	(Date)

Return Completed Form to: ADEC, Storage Tank Program 555 Cordova Street Anchorage, AK 99501 FAX # (907) 269-7507

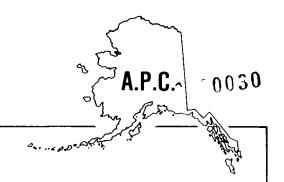
Certified persons who perform or supervise UST closure must complete and sign this checklist. (18 AAC.78.455 (a)(8))

Tank Removal					
Notified ADEC Office 15 - 60 days prior to beginning permanent closure.					
Notified applicable local government and fire department.					
Emptied and clean tank by removing liquids and accumulated sludges.*					
SP Purged or inert the tank of flammable vapors.					
SP Removed piping and plug or cap all accessible holes except vent line.*					
SP Removed and dispose of tank(s) properly.*					
Submitted Post Closure Notice to ADEC within 30 days after completion of Closure.					
In-ground Closure/Change in Service					
Notified ADEC Office 15 - 60 days prior to beginning permanent closure.					
Notified applicable local government and fire department.					
Emptied and clean tank by removing liquids and accumulated sludges.*					
Removed piping and plug or cap all accessible holes except for vent line.					
Purged the tank of flammable vapors.					
Filled the tank as full as possible with sand or other inert material.*					
Removed and cap the vent line.*					
Submitted Post Closure Notice to ADEC within 30 days after completion of Closure.					
Must be performed or supervised by a person certified in UST Decommissioning in Alaska.					
Person who performed or supervised UST work:					
Steven Pohl UST Worker 387 (Please Print Name) (Title) (UST Worker License #)					
Deven a. Pohl 12/15/95 (Signature) (Date)					

All releases/contamination should be reported to a DEC District Office within 24 hours. For further information refer to the Alaska Underground Storage Tank Regulations (18 AAC 78) or contact the Department of Environmental Conservation at 1-800-478-4974.

### Alaska Pollution Control, Inc.

RECYCLING ALASKA'S PETROLEUM PRODUCTS



### CERTIFICATE OF CLEANING

This is to certify that on November 7, 1998 a 10,000 gallon Fuel Tank received from <u>Pinnacle Construction</u> on Bill of Lading No. B-15976 designated AH-01 was cleaned and rendered useless at the Alaska Pollution Control, Inc. Springer facility. All residual Petroleum product is recycled at the Chemron Alaska facility, Water is processed at the Alaska Pollution Control Wastewater treatment facility and all Metal is recycled at Newell Recycling.

Signed\_

Date: 1/- 7-98

Recycled Paper



### STRAIGHT BILL OF LADING

**ORIGINAL - NOT NEGOTIABLE** 

B 15976 Shipper No.

#### CHEMRON ALASKA

AKD980984405 Carrier No.

(Name of Carrier) To: Consignee Alaska Pollution FROM: Shipper outer Springer Street Street Destination Origin Emergency Response Vehicle Route Phone No. Number No. Shipping HM\* Kind of Packaging, Description of Articles, Special Marks and Exceptions Weight (subject to correction) Rate CHARGES Units Emergency Response #907-344-5036 ERG# When transporting hazardous materials woulde the technical or chemical name for n.o.s. (not otherwise specified) or generic description of material with appropriate \$15.50 NA homeun as defined in US DOT Emergency Communication Standard (HM-126C) Provide emergency response phone number in case of incident or accident in box above. REMIT C.O.D. FEE: C.O.D. TO: ADDRESS: PREPAID | \$ COD Amt: \$ NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TOTAL \$ **CHARGES** FREIGHT CHARGES:
FREIGHT PREPAID Check box
except when box at
right is checked a Check box if charges
are to be
collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms

\_ per

and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and

(Signature of Consignor

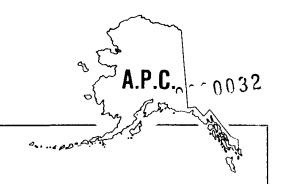
governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

NOTICE: Freight moving under this Bill of Lading is subject to the classifications and lawfully filed tariffs in effect on the date of this Bill of Lading. This notice supersedes and negates any claimed, alleged or asserted oral or written contract, promise, representation or understanding between the parties with respect to this freight, except to the extent of any written contract which establishes lawful contract carriage and is signed by authorized representatives of both parties to the contract.

		·					
SHIPPER		CARRIE	R C	HEN	IRON I	ALASKA	
PER	CUSTOMER SIGNATURE	PER	9-1	/-	98		 1
		DATE	maile	20	M. K	Linkey	
HAZARDOUS	MATERIALS MARK WITH X TO DESIGNATE HAZARDOUS MATERIALS AS REFERENCED IN 49CFR § 1/2	.202		,		$\neg \neg$	

### Alaska Pollution Control, Inc.

RECYCLING ALASKA'S PETROLEUM PRODUCTS



### CERTIFICATE OF CLEANING

This is to certify that on November 7, 1998 a 10,000 gallon Fuel Tank received from <u>Pinnacle Construction</u> on Bill of Lading No. B-15975 designated AH-02 was cleaned and rendered useless at the Alaska Pollution Control, Inc. Springer facility. All residual Petroleum product is recycled at the Chemron Alaska facility, Water is processed at the Alaska Pollution Control Wastewater treatment facility and all Metal is recycled at Newell Recycling.

Signed

Date: //- 7-98

Recycled Paper



### STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

Shipper No. B 15975

**CHEMRON ALASKA** 

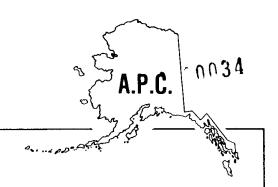
Carrier No. AKD980984405 Date 9-11-98

	(Name o	f Carrier)	D	ate / //	
TO: Consignee Alaska Pollut	ion Control, INC.	Shipper Pinnacle	CONSTRUCTION	n	- n 2 3
Street 425 outer S	Pringer Loop	Street A. POFF	HyTS Cherr	m^	1033
Destination Palmer, A	7/ Y/\ ~ /	Origin A/A	<b>V</b>		
Route ROST Way.	·	Emergency Response Phone No.		Vehicle Number	
No. Shipping HM*	Kind of Packaging, Description of Al Special Marks and Exceptions	rticles,	Weight (subject to correction)	Rate (	CHARGES
1 EmpTy	1.7	el tank			
A	4 02				** *****
	ry Response #907-344-5036 ERG#				
When transporting hazardous materials include the technical	or chemical name for n.o.s. it of otherwise specified) or generic de	scription of material with appropriate UN c	ir NA number as the field in US DOT E	nergency Communicat	on Standard HM 136C)
Provide emergency response phone number in case of incident or accident in box above.  REMIT C.O.D. TO: ADDRESS:		COD Amt:	C.O.D. FEE: PREPAID  \$ COLLECT  \$		
NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.	Subject to Section 7 of the cordelivered to the consignee without resignor shall sign the following statem	TOTAL \$ CHARGES:			
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ per	The carrier shall not make delivery of freight and all other lawful charges	FREIGHT CHARGES: FREIGHT PREPAID Check box if charges except when box at right is checked are to be collect			
this Bill of Lading, the property described above and condition of contents of packages unknown, which said carrier (the word carrier being under or corporation in possession of the property un- delivery at said destination if on its route, other destination. It is mutually agreed as to each portion of said route to destination and as to	awfully filed tariffs in effect on the date of the issue of e in apparent good order, except as noted (contents, marked, consigned and destined as indicated above stood throughout this contract as meaning any person der the contract) agrees to carry to its usual place of wise to deliver to another carrier on the route to said carrier of all or any of said property over all or any each party at any time interested in all or any said eunder shall be subject to all the Bill of Lading terms	Shipper hereby certifies that governing classification and th accepted for himself and his as NOTICE: Freight moving unc tariffs in effect on the date of alleged or asserted oral or wriparties with respect to this fre	The is familiar with all the Bill e said terms and conditions a signs. Her this Bill of Lading is subject this Bill of Lading. This notice then contract, promise, represed to the extent of	of Lading terms a re hereby agreed to t to the classification suppersedes and re- entation or undersiany written contra-	o by the shipper and ons and lawfully filed negates any claimed, tanding between the lot which establishes
SHIPPER		CARRIER CHEM	RON ALASKA		
PER CUSTOMER SIGNATURE			1-98		
		DATE mike	Mekinly		Ц

THAZARDOUS MATERIALS MARK WITH TXTTO DESIGNATE PIAZARDOUS MATERIALS AS REFERENCED IN 49CFH § 172.202.

Alaska Pollution Control, Inc.

RECYCLING ALASKA'S PETROLEUM PRODUCTS



### CERTIFICATE OF CLEANING

This is to certify that on November 9, 1998 a 5,000 gallon Fuel Tank received from <u>Pinnacle Construction</u> on Bill of Lading No. B-15977 designated AH-03 was cleaned and rendered useless at the Alaska Pollution Control, Inc. Springer facility. All residual Petroleum product is recycled at the Chemron Alaska facility, Water is processed at the Alaska Pollution Control Wastewater treatment facility and all Metal is recycled at Newell Recycling.

Signed

Date: \_\_// -9 - 98

Recycled Paper



### STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

1597 Shipper No.

#### CHEMRON ALASKA

AKD980984405

(Name of Carrier) allotion Control Street Street Destination Origin Emergency Response Vehicle Kest Wall Route Phone No Number No. Shipping HM Weight (subject to correction) Kind of Packaging, Description of Articles, Rate **CHARGES** Special Marks and Exceptions Units Emergency Response #907-344-5036 ERG# When fransporting hazardous materials include the technical or chemical name for n.o.s. (not otherwise specified) or generic rescription of material with appropriate Unity NA nonner us defined in USIDOT Emergency Communication Standard (HM-126C) Provide emergency response phone number in case of incident or accident in tox above. REMIT C.O.D. TO: C.O.D. FEE: PREPAID ADDRESS: COD Amt: \$ COLLECT NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding This is to certify that the above named materials are properly classified, described, peckaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consigner, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TOTAL \$ CHARGES FREIGHT CHARGES:
FREIGHT PREPAID Check box
except when box at
right is checked a Check box if charges are to be collect (Signature of Consignor and conditions in the governing classification on the date of shipment.

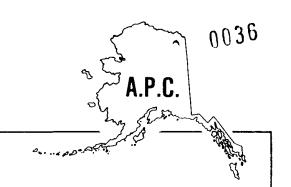
Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

NOTICE: Freight moving under this Bill of Lading is subject to the classifications and lawfully filed tariffs in effect on the date of this Bill of Lading. This notice supersedes and negates any claimed, alleged or asserted oral or written contract, promise, representation or understanding between the parties with respect to this freight, except to the extent of any written contract which establishes lawful contract carriage and is signed by authorized representatives of both parties to the contract. RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms

SHIPPER	CARRIER CHEMRON ALASKA
PER CUSTOMER SIGNATURE	PER 9-1/-98
	DATE Mille Me Kisley
THATABOODER MATERIALS. MARK WITH 1V TO DESIGNAL ANADDOODS MATERIALS AS DEFENSIONED IN 1995	TR 5 420 000

Alaska **Pollution** Control, Inc.

RECYCLING ALASKA'S PETROLEUM PRODUCTS



### CERTIFICATE OF CLEANING

This is to certify that on November 9, 1998 a 500 gallon Fuel Tank received from Pinnacle Construction on Bill of Lading No. B-15979 designated AH-04 was cleaned and rendered useless at the Alaska Pollution Control, Inc. Springer facility. All residual Petroleum product is recycled at the Chemron Alaska facility, Water is processed at the Alaska Pollution Control Wastewater treatment facility and all Metal is recycled at Newell Recycling.

Signed

Date:

Recycled Paper



### STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

Shipper No. B 15979

#### **CHEMRON ALASKA**

Carrier No. **AKD980984405** 

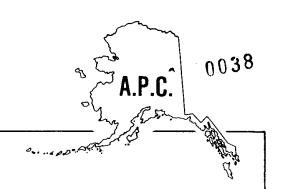
Data 9-18-98

		_		1	(Name	of Carrier)					Date	10 10
TO: Consign	nee A/a	ska Po	Notion	Cantro	1 Inc.	FROM: Shippe	Pis	wac	le	Const	TUR TIL	
Street	425	ouver	Springe	er Lou	<u> </u>	Street	Air	Dert	HaT	s Ch	evens	, 0037
Destinat	tion Pa	lmer, 1	Alc. 9	964	5	Origin	ANCE	oras	e', 1	Ale.		
Route	3	est Wa	4.			Emerge Phone	ncy Resp No.	oonse			Vehic Numb	
No. Ship Unit	pping s HM*		Kind of P Sp	Packaging, ecial Mark	Description of a s and Exception	Articles,			(subject	Veight to correction)	Rate	CHARGES
/		Emp74	, 500	gal.	Heat. Ng	frel	Tan	L				
			14	04					-			
			17 71	07								
		Emerg	ency Response	#907-344-	5036 ERG#							
When transpo Provide emerg	orting hazardous ir gency response pl	naterials include the fect hone number in case of	nnical or chemical name fo incident or accident in bo	or n.o.s. (not other ox above.	wise specified) or generic i	description of m	aterial with ap-	propriate UN c	or NA number a	as defined in US DO	* Emergency Comm	munication Standard (FIL* 1260)
REMIT C.O.D. TO ADDRESS						COD		Amt:	\$		C.O.D. F PREPAID COLLEC	) [ <b>\$</b>
are required declared value	to state specificate of the property.	ependent on value, ship ally in writing the agree	ed or enly classified, and are in prop	described, packa per condition for	named materials are pro- iged, marked, and labele transportation according	d, delivered to signor sh	to the consig all sign the fol	nee without re lowing statem	ecourse on the	s shipment is to e consignor, the co	n CHARGE	 :S:
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SHIPPER						CARRIE		СНЕМІ	RON AI	_ASKA		
PER	CUSTO	MER SIGNATU	RE			PER			NeK	inty		<u></u>
						DATE	9-	18-	98			

"HAZARDOUS MATERIALS" MARK WITH "X" TO DESIGNATE HAZARDOUS MATERIALS AS REFERENCED IN JOCER § 172.202.

Alaska Pollution Control, Inc.

RECYCLING ALASKA'S PETROLEUM PRODUCTS



# CERTIFICATE OF CLEANING

This is to certify that on November 9, 1998 a 500 gallon Used Oil Tank received from <u>Pinnacle Construction</u> on Bill of Lading No. B-15978 designated AH-05 was cleaned and rendered useless at the Alaska Pollution Control, Inc. Springer facility. All residual Petroleum product is recycled at the Chemron Alaska facility, Water is processed at the Alaska Pollution Control Wastewater treatment facility and all Metal is recycled at Newell Recycling.

Signed\_

Date: 1/-9-98

Recycled Paper



#### STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

B 15978 Shipper No.\_

#### **CHEMRON ALASKA**

Carrier No. **AKD980984405** 

		N NENOW	ا	Date 9-	18-98
TO 1/ / A	(Name o	f Carrier)			
TO: Consignee Haska Poll	Fin Catrol Te.	Shipper Pidale	· Constour	500	
Street 425 outer St		Street AirporF			0039
Destination Palmer, All	99645	Origin Arches	rie Ste		~~~
Route Best War	1	Emergency Response Phone No.			
No. Shipping HM*	Kind of Packaging, Description of Al Special Marks and Exceptions	rticles,	Weight (subject to correction)	Rate	CHARGES
EmpTy,	500 gal. Used oil	Tank	Weight (subject to correction)  Rate CHARGES  Weight (subject to correction)  Rate CHARGES  C.O.D. FEE: PREPAID COLLECT COLLECT FREIGHT CHARGES: FREIGHT PREPAID collect on sign of the consignee without recourse on the consigner, the congruence without recourse on the consigner without recourse and the consigner without payment all other lawful charges.  Section 7 of the conditions, if this shipment is to be collect to collect the consigner without recourse and the consigner without recourse and the conditions in the consigner without payment all other lawful charges.  Section 7 of the conditions, if this shipment is to be collect to collect the consigner without recourse or the consigner without recourse on the consigner. The consigner without recourse on the consigner without recourse on the consigner without recourse on the consigner. The consigner without recourse on the consigner without payment all other lawful charges.  Section 7 of the conditions, if this shipment is to be collect to collect the consigner without recourse on the consigner, the consigner without recourse on the consigner. The consigner without recourse of the consigner.  TOTAL CHARGES:  FREIGHT CHARGES:  Check box if charge are to be except when box at right schecked the collect consists of the consigner without recourse		
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Provide emergency response phone number in case of incide REMIT	ant or accident in box above.	The second of th			
C.O.D. TO: ADDRESS:		000			
NOTE - Where the rate is dependent on value, shippers				COLLEC	т 🗀 🐧
are required to state specifically in writing the agreed or declared value of the property.	erly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to	I delivered to the consignee without rec	ourse on the consignor, the con-		:S: \$
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding	the applicable regulations of the Department of Trage-	s- The carrier shall not make delivery of this shipment without payment FREIGHT CH			
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his Bill of Lading, the property described above and condition of contents of packages unknown), which said carrier (the word carrier being unders	wfully filed tariffs in effect on the date of the issue of e in apparent good order, except as noted (contents, marked, consigned and destined as indicated above tood throughout this contract as meaning any person	Shipper hereby certifies that his governing classification and the accepted for himself and his ass	ne is familiar with all the Bi said terms and conditions a igns.	II of Lading te are hereby agr	eed to by the shipper a
delivery at said destination if on its route, otherv	der the contract) agrees to carry to its usual place of vise to deliver to another carrier on the route to said	tariffs in effect on the date of th	is Bill of Lading. This notic	e supersedes	and negates any claime
portion of said route to destination and as to e	carrier of all or any of said property over all or any each party at any time interested in all or any said eunder shall be subject to all the Bill of Lading terms	parties with respect to this freig	tht, except to the extent of	any written o	contract which establish
SHIPPER		CARRIER CHEMP	RON ALASKA		
CUSTOMER SIGNATURE		PER 9-18-9	8		<u> </u>
		DATE Mike	McKiller		
HAZARDOUS MATERIALS MARK WITH 'X' TO DESIGNA	ATE HAZARDOUS MATERIALS AS REFERENCED IN 49CFR § 172	202.	$\sim$		

HAZARDOUS MATERIALS MARK WITH "X" "O DESIGNATE HAZARDOUS MATERIALS AS REFERENCED IN 19CHR § 172,202.

41196

Carlile

ENTERPRISES, INC.

Pianache constr

COMPANY

AUTHORIZED SIGNATURE

**EMPLOYEE NUMBER** 

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797

TIME 8:44 DATE 10 07 98

FAX 278-7301

GROSS

52640 1*b* 

TARE NET

0 1*b* 52640 1*b* 

22900

Airports

TRUCK \$173

TRAILER

CONVERTER

**TRAILER** 

TOTAL WEIGHT 14,8

# 1736 was oil

8227

41203

Carlile

ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301 COMPANY

AUTHORIZED SIGNATURE

CONTEST.

COMPANY

AUTHORIZED SIGNATURE

**EMPLOYEE NUMBER** 

77ME 8:00 DATE 20 07 98

G*RO*SS

22900 15

TARE NET 0 1*b* 22900 1*b* 

T Are

TRUCK 6/73

**TRAILER** 

CONVERTER

TRAILER

TOTAL WEIGHT

AZRPORT HEZGHTS CHEVROW.

DICLOULA HILLON + 14, 19 - 10.

Taulila

1(27

ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301 Durale

COMPANY

AUTHORIZED SIGNATURE

**EMPLOYEE NUMBER** 

TIME 11:13 DATE 10 07 98

GR*O*SS

56680 15

TARE NET 0 16

56680 15

22900

AIRPAT HI cheman

5227

TRUCK 5/73

TRAILER

CONVERTER

**TRAILER** 

TOTAL WEIGHT 16.85



1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301

P, washe	
COMPANY	
Mark home	$\sim 1004$
AUTHORIZED SIGNATURE	

**EMPLOYEE NUMBER** 

71ME 12:16 DATE 70 07 98

GROSS

60700 15

TARE NET 0 1*b* 60700 1*b* 

22900

A.Aport Hi whome

1736 0 20 0

5077

TRUCK \$ 77.3

**TRAILER** 

CONVERTER

TRAILER

TOTAL WEIGHT 1/8 3

Carlile

ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301 COMPANY

AUTHORIZED SIGNATURE

EMPLOYEE NUMBER

TIME 9:44 DATE 10 07 98

GROSS

62720 15

TARE

0.15

NE 7

62720 15

22900

TRUCK 5/73

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT

19.91TH

Arport Higher then

1776 030 0/1

6027

41211



ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301

-0043 COMPANY AUTHORIZED SIGNATURE **EMPLOYEE NUMBER** 

7 ZME ZG:UU

DATE 10 07 98

GROSS

TARE NET

0.15 50200 15

50200 15

22500

Airport HI Cheuro-1736 CISED 0: 1

8>27

TRUCK \$173

**TRAILER** 

CONVERTER

TRAILER

TOTAL WEIGHT / 3, 65

ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301

COMPANY

AUTHORIZED SIGNATURE

**EMPLOYEE NUMBER** 

BAME 48:87 98

GROSS TARE

33740 15

NET

-0.15

33740 15

17 920

8/13 TRUCK

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT  $5, \ell/2$ 

ATRACK HT Chame

5021

~ ~ 0044 15-28 1 14:53 ; 15:25 1 11-56 12-49-4 13-53 1 1000 15-50 1 11-77-1 071 2000 %

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797

ENTERPRISES, INC.

COMPANY,

**AUTHORIZED SIGNATURE** 

16834

EMPLOYEE NUMBER

98

FAX 278-7301

GROSS TARE NET

48020 1b

0 1*b* 48020 1*b* 

27946

TRUCK

**TRAILER** 

CONVERTER

TRAILER

TOTAL WEIGHT 12,5L

# 173le

Anchorage, AK 99501 (907) 276-7797

ENTERPRISES, INC.

1524 Ship Avenue

0045 AUTHORIZED SIGNATURE

16815

**EMPLOYEE NUMBER** 

DATE 09 17 98

FAX 278-7301

GROSS  $T \triangle RE$ 

**46**360 1*b* 0.15

NET

46360 1*b* 22940

TRUCK (X)

TRAILER

**CONVERTER** 

**TRAILER** 

TOTAL WEIGHT

The promision of collects by the party the born Hispart Heights #1730 7027 TON HO! 1992

ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301

16814

COMPANY

AUTHORIZED SIGNATURE

**EMPLOYEE NUMBER** 

BAME 03:97 93 98098

TRUCK 42(0

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT 13.21

Theorem models Chapans 出力为e

EC211 1 11 0 2001 1 18.

Thousan Products Company
Debarr Hirport Heights
#1736 commonward Him

Carlile
1524 Ship Avenue
Anchorage, AK 99501

16818 -0047**AUTHORIZED SIGNATURE** 

**EMPLOYEE NUMBER** 

(907) 276-7797 FAX 278-7301

7' 7 1 4 5"		
DATE O	9' 7'7'	93
GROSS	-	2060
TARE		0

NET

10 16 5206Q 16 TRUCK 4210

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT \U,\U

houron Products Company Debarr Airport Heights CADOM

ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301

	16819
15R1 G+5	
COMRANY	
AUTHORIZED SIGNATURE	

EMPLOYEE NUMBER

48460 15 GROSS 0 15 TARE 48460 lb NET

TRUCK 180

**TRAILER** 

CONVERTER

**TRAILER** 

Moveon Adducts Univaria



1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301

- 00/18
<del>- 00</del> 4

**EMPLOYEE NUMBER** 

GROSS

49540 lb

TARE

0.16

NET

49540 lb

7244()

TRUCK / C

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT 13,30

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ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 16820

**AUTHORIZED SIGNATURE** 

**EMPLOYEE NUMBER** 

BAME 39:3# 98

(907) 276-7797

FAX 278-7301

GROSS

53900 15

TARE MET

0.15

TRUCK 4210

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT \ 500

They ken Romets to pary Leter Furport 4-igids SCOTT CITIZED FOR.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301 COMPANY

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE

16830

**EMPLOYEE NUMBER** 

7 IME 12:03

DATE 09 17 98

GROSS TARE 52840 lb

MET

0 1*5* 5*284*0 1*5* 

27186

TRUCK

426

**TRAILER** 

CONVERTER

TRAILER

TOTAL WEIGHT

14,53

#1736

Carlile

ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301 16828 COMPANY

**AUTHORIZED SIGNATURE** 

**EMPLOYEE NUMBER** 

DATE 69:27 98

GROSS

50340 1*b* 

 $T \cap RE$ 

0.15

NET

50340 15

25,780

TRUCK 4

TRAILER

CONVERTER

TRAILER

TOTAL WEIGHT 3.28

#1736

16822

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301

**AUTHORIZED SIGNATURE** 

<del>no5</del>0

16826

**EMPLOYEE NUMBER** 

BAYE 69:15 98

GROSS

50300 15

TARE

0 15

NET

50300 15

フライメロ

TRUCK 4712

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT 3, 26

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797

ENTERPRISES, INC.

AUTHORIZED SIGNATURE

**EMPLOYEE NUMBER** 

JAME 44:12 98 GROSS 548

FAX 278-7301

TARE

54860 15

NET

0.15

TRUCK 4212

**TRAILER** 

CONVERTER

TRAILER

TOTAL WEIGHT 15,54

#1736

	7.1	
Car	Y II le	

16827 AUTHORIZED SIGNATURE

**EMPLOYEE NUMBER** 

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301

DATE 69.77 98

GROSS TARE

47920 1*5* 0.15

MET 47920 15 22940

TRUCK S

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT 12,49

1524 Ship Avenue

FAX 278-7301

Anchorage, AK 99501 (907) 276-7797

ENTERPRISES, INC.

COMPANY AUTHORIZED SIGNATURE

16824

**EMPLOYEE NUMBER** 

DAME 09:17 98 GROSS TARE NET

46620 15 0.15 **466**20 15 22140

TRUCK

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT 11,84



1524 Ship Avenue
Anchorage, AK 99501
(907) 276-7797
FAX 278-7301

ASR CTTS

COMPANY

AUTHORIZED SIGNATURE

0 0052

EMPLOYEE NUMBER

6AME 69: 47 98 GROSS 47940 16 TARE 0 16 NET 47940 16 ZZYUD

TRUCK Y

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT 12.50

#1736

Carlile

ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301 16829

AUTHORIZED SIGNATURE

EMPLOYEE NUMBER

TAME 64: 74 98
GROSS 50000 16
TARE 0 16
NET 50000 16

TRUCK /80

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT 13,53

# 436e



1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301

ASR	11+5	)	
KOZ	MPANY (DODO)	M	$\overline{10}$
AUTHORIZ	ED SIGNATURE	^	0053

**EMPLOYEE NUMBER** 

BAME 08:19 98

GROSS TARE 45480 1*b* 0 1*b* 

NET

15,480 1b

TRUCK \

**TRAILER** 

CONVERTER

TRAILER

TOTAL WEIGHT

11.77 +4

Hills Company of the state of t

Carlile

ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301 16833

AUTHORIZED SIGNATURE

EMPLOYEE NUMBER

68055 549

TARE NET 54940 1*b* 0 1*b* 

54940 16 73780 TRUCK 4210

TRAILER

CONVERTER

**TRAILER** 

TOTAL WEIGHT

1558

H 1736



1524 Ship Avenue
Anchorage, AK 99501
(907) 276-7797
FAX 278-7301

COMPANY
AUTHORIZED SIGNATURE

2 0054

**EMPLOYEE NUMBER** 

BAME 08:25 35

GROSS TARE

50360 1*5* 0 1*5* 

NET

50360 15

23180

TRUCK 426

TRAILER

CONVERTER

**TRAILER** 

TOTAL WEIGHT 13,29

Treoron Promulation pany Decom Anima their Man At Maca 8027 Managed 1994

Carlile

ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301 16811

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AUTHORIZED SIGNATURE

**EMPLOYEE NUMBER** 

DATE 05'17 98 5ROSS 22940 16 TARE 0 16 NET 22940 16

TRUCK (2002 190

TRAILER

CONVERTER

**TRAILER** 

**TOTAL WEIGHT** 

16812



ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301 COMPANY COMPAN

**EMPLOYEE NUMBER** 

BAME 09:07 98

GROSS TARE NET

49760 lb 0 lb 49760 lb

21940

TRUCK (80

**TRAILER** 

CONVERTER

**TRAILER** 

TOTAL WEIGHT 13,11

Chouron Arodice is Company Debarr Airport Heights #1736 8027 pronssed top



ENTERPRISES, INC.

1524 Ship Avenue Anchorage, AK 99501 (907) 276-7797 FAX 278-7301 COMPANY,

AUTHORIZED SIGNATURE

**EMPLOYEE NUMBER** 

DATE 03: GROSS (TARE

23780 15 23780 15 23780 15

TRUCK 426

**TRAILER** 

CONVERTER

TRAILER

TOTAL WEIGHT

### ATTACHMENT D

LABORATORY ANALYTICAL METHODS, REPORTS, AND CHAIN-OF-CUSTODY DOCUMENTATION

# ATTACHMENT D LABORATORY ANALYTICAL METHODS

#### **Laboratory Analysis Methods**

Analyses for the presence of gasoline range organics (GRO) was performed by Alaska Method AK 101.

Analyses for the presence of benzene, toluene, ethylbenzene, and xylenes was performed by EPA Method 8021B.

Analyses for the presence of diesel range organics (DRO) was performed by Alaska Method AK 102.

Analyses for the presence of residual (heavy oil) range organics (RRO) was performed by Alaska Method AK 103.

Analyses for the presence of cadmium, chromium, lead, nickel, and zinc was performed according to EPA 6000/7000 Series Methods.

Analyses for the presence of halogenated volatile organics (HVOCs) was performed by EPA Method 8021B (modified).

Analyses for the presence of polychlorinated biphenyls (PCBs) was performed by EPA Method 8082.

Analyses were performed by North Creek Analytical, a State of Alaska approved analytical laboratory.



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0058

Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827

Project: Chevron #9-6489

Project Number: 7G007-037-01 Project Manager: Roger Hoffmore Sampled: 9/11/98 Received: 9/12/98

Reported: 9/22/98 18:41

#### **ANALYTICAL REPORT FOR SAMPLES:**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
S-1	B809311-01	Soil	9/11/98
S-2	B809311-02	Soil	9/11/98
S-3	B809311-03	Soil	9/11/98
S-4	B809311-04	Soil	9/11/98
S-5	B809311-05	Soil	9/11/98
S-6	B809311-06	Soil	9/11/98
T1-C@13'	B809311-07	Soil	9/11/98
T1-F@13'	B809311-08	Soil	9/11/98
T2-F@13'	B809311-09	Soil	9/11/98
T2-C@13'	B809311-10	Soil	9/11/98
T3-F@13'	B809311-11	Soil	9/11/98
T3-C@13'	B809311-12	Soil	9/11/98
T1-F@16'	B809311-13	Soil	9/11/98
T2-F@18'	B809311-14	Soil	9/11/98

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document.

This analytical report must be reproduced in its entirety.

Matthey Essig, Project Manager



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Secor-California

9912 Business Park Dr #100 Sacramento, CA 95827

Project: Chevron #9-6489

7G007-037-01

Project Number: Project Manager: Roger Hoffmore Sampled: 9/17/98

0059

Received: 9/12/98

Reported: 9/22/98 18:41

#### Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>\$-1</u>			<u>B8093</u>	11-01			Soil	
Gasoline Range Hydrocarbons	0980389	9/12/98	9/12/98	II.VI	5.00	ND	mg/kg dry	
Benzene	"	"	"		0.0500	0.0565	mg/kg ury	
Toluene	n	11			0.0500	0.0303	11	
Ethylbenzene	"	н	**		0.0500	0.0940	11	
Xylenes (total)	,,	11	•		0.100	0.0940	**	
Surrogate: 4-BFB (FID)	"	<b>,,</b>	, · · ·	60.0-120	0.100	132	%	ī
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		132 84.1	70 #	1
Surrogate: 4-BFB (PID)	"	"	<i>n</i>	60.0-120		131	"	,
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150			n	1
54.7 ogate. 4,4,4=17 (11D)				30.0-130		80.6		
<u>S-2</u>			B8093	11-02			Soil	
Gasoline Range Hydrocarbons	0980389	9/12/98	9/12/98		5.00	ND	mg/kg dry	
Benzene	**	ti .	"		0.0500	0.0744	"	
Toluene	11	H	n		0.0500	0.0991	n	
Ethylbenzene	II.	11	O.		0.0500	0.0591	n	
Xylenes (total)	н	"			0.100	0.382	**	
Surrogate: 4-BFB (FID)	n	"	<b>,,</b> '	60.0-120		132	%	1
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		86.3	"	•
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		128	"	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		79.0	"	,
<u>S-3</u>			D0002	1.02				
Gasoline Range Hydrocarbons	0980389	9/12/98	<u>B80931</u>	1-03	- 00		<u>Soil</u>	
Benzene	0900309	9/12/98	9/12/98		5.00	12.6	mg/kg dry "	
Toluene	n	11			0.0500	0.102		
		"			0.0500	1.04	n	
Ethylbenzene Yylonga (total)	**		"		0.0500	0.467	"	
Xylenes (total)	"	,,	ii"		0.100	2.84	H	
Surrogate: 4-BFB (FID)	,,	,,	"	60.0-120		136	%	1
Surrogate: a,a,a-TFT (FID)	,,	,,		50.0-150		79.0	"	
Surrogate: 4-BFB (PID)	"		"	60.0-120		128	"	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		<i>78.3</i>	"	
<u>S-4</u>			B80931	1-04			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980389	9/12/98	9/14/98	<del> 1</del>	20.0	51.8	mg/kg dry	
Benzene	11	"	11		0.200	0.866	ing/kg ary	
<b>Toluene</b>	**	н	"		0.200	5.18	•	
Ethylbenzene	**	**	n		0.200		н	
Xylenes (total)	**				0.200	1.65		

North Creek Analytical - Bothell





PORTLAND = (503) 906-9200 = FAX 906-9210

Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827 Project: Chevron #9-6489
Project Number: 7G007-037-01
Project Manager: Roger Hoffmore

Sampled: 9/11/98 Received: 9/12/98 Reported: 9/22/98 18:41

#### Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

0060

Section   Sect		Batch	Date	Date	Surrogate	Reporting	*****	· · · · · · · · · · · · · · · · · · ·	
Surrogate	Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
Surrogate	S-4 (continued)			R8093	11_04			Call	
Surrogate: a,a,a-TFT (FID)		0980389	9/12/98				1.10		
Surrogate: 4-BFB (PID)  """ 50.0-120	- , ,								1
Surrogate: a,a,a-TFT (PID)	<del>-</del> , ,	"	"	"				,,	,
Casoline Range Hydrocarbons   0980389   9/12/98   9/12/98   5.00   31.5   mg/kg dry	Surrogate: a,a,a-TFT (PID)	"	"	n				"	1
Gasoline Range Hydrocarbons   980389   9/12/98   9/12/98   9/12/98   0.0000   ND	<u>S-5</u>			B8093	1 <u>1-05</u>			Soil	
Benzence	Gasoline Range Hydrocarbons	0980389	9/12/98	9/12/98		5.00	31.5	<del></del>	
Toluene	Benzene	11	11	п		0.0500		"	
Name	Toluene	U	**	H			0.273	**	
Surrogate: 4-BFB (FID)  """ 50.0-120  183 % 1  Surrogate: a,a,a-TFT (FID)  """ 60.0-120  142 ""  183 Surrogate: a,a,a-TFT (FID)  """ 60.0-120  142 ""  183 Surrogate: a,a,a-TFT (FID)  """ 50.0-150  80.4 ""  Surrogate: a,a,a-TFT (PID)  """ 50.0-150  80.4 ""  Soil  Gasoline Range Hydrocarbons  0980389 9/12/98 9/14/98 125 702 mg/kg dry  Benzene  """ 1.25 ND  """ 1.25 23.5 "  Benzene  Chylenes (total)  """ 60.0-120  NR % 1  Surrogate: 4-BFB (FID)  """ 60.0-120  NR % 1  Surrogate: 4-BFB (FID)  """ 50.0-150  Soil  Surrogate: 4-BFB (PID)  """ 50.0-150  Soil  Soil  Surrogate: 4-BFB (PID)  """ 50.0-150  Soil  Soi	Ethylbenzene	**	н	"		0.0500		•	
Surrogate: a,a,a-TFT (FID)  """50.0-150  Sacrogate: 4-BFB (PID)  """50.0-150  Soil  Gasoline Range Hydrocarbons  Genzene  """50.0-150  Soil  Gasoline Range Hydrocarbons  Genzene  """"50.0-150  Soil  Gasoline Range Hydrocarbons  Genzene  """"10	Xylenes (total)	n	**	н		0.100	3.79	н	
Surrogate: 4-BFB (PID)  """ 50.0-120  80.4 ""  Soil  Gasoline Range Hydrocarbons  Benzene  """ 50.0-150  B809311-06  Soil  Gasoline Range Hydrocarbons  Benzene  """ 125 702 mg/kg dry  """ 125 ND ""  Benzene  """ 1.25 ND ""  Benzene  """ 1.25 9.55 "  Cylenes (total)  """ 60.0-120  NR % 1  Surrogate: 4-BFB (FID)  """ 50.0-150  Surrogate: 4-BFB (FID)  """ 60.0-120  NR "" 1  Surrogate: 4-BFB (PID)  """ 50.0-150  Senzene  """ 50.0-150  Senzene  """ 50.0-150  Senzene  """ 50.0-150  Senzene  """ 60.0-120  NR "" 1  Surrogate: a,a,a-TFT (PID)  """ 50.0-150  Senzene  """ 50.0-150  Senzene  """ 60.0-120  ND mg/kg dry  Senzene  """ 60.0-120  ND mg/kg dry  Senzene  """ 60.0-120  ND mg/kg dry  Senzene  """ 60.0-120  Senzene  """ 60.0-120  Senzene  """ 60.0-120  ND mg/kg dry  Senzene  """ 60.0-120  ND mg/kg dry  Senzene  """ 60.0-120  Senzene  """ 60.0-120  ND mg/kg dry  Senzene  Soil  Senzene  """ 60.0-120  ND mg/kg dry  Senzene  Soil  Senzene  """ 60.0-120  ND mg/kg dry  Senzene  Soil  Senzene  """ 80.0-150  Soil  Senzene  """ 80.0-150  Soil  Senzene  """ 80.0-150  Soil  Senzene  """ 80.0-150  Soil  Soil  Senzene  Soil  Soil  Senzene  """ 80.0-150  Soil  Soil  Soil  Senzene  """ 80.0-150  Soil  So	Surrogate: 4-BFB (FID)	<i>"</i>	n	"	60.0-120		183	%	1
Sarrogate: a,a,a-TFT (PID)  """ 50.0-150  80.4 "  Soil  Gasoline Range Hydrocarbons O980389 9/12/98 9/14/98 125 702 mg/kg dry Senzene """" 1.25 ND ""  1.25 23.5 "  Chylbenzene """" 2.25 23.5 "  Cylenes (total) """" 60.0-120 Surrogate: a,a,a-TFT (PID) """ 50.0-150 Surrogate: a,a,a-TFT (PID) """ 60.0-120 NR ""  Indicate a,a,a-TFT (PID) """ 50.0-150 Surrogate: a,a,a-TFT (PID) """ 60.0-120 NR ""  Indicate a,a,a-TFT (PID) """ 60.0-120 ND mg/kg dry Surrogate: a,a,a-TFT (PID) Surrogate:	Surrogate: a,a,a-TFT (F1D)	"	"	"	50.0-150		82.2	n	
B809311-06   Soil   S	Surrogate: 4-BFB (PID)	"	"	"	60.0-120		142	"	1
Casoline Range Hydrocarbons   0980389   9/12/98   9/14/98   125   702   mg/kg dry	Surrogate: a,a,a-TFT (PID)	n	"	"	50.0-150		80.4	"	
	<u>S-6</u>			B80931	<u> 11-06</u>			<u>Soil</u>	
	Gasoline Range Hydrocarbons	0980389	9/12/98	9/14/98		125	702	mg/kg dry	
Ethylbenzene " " " " " 2.55 9.55 " 2.50	Benzene	11	17	n		1.25	ND		
Sylenes (total)	Toluene	11	n	"		1.25	23.5	"	
Surrogate: 4-BFB (FID)  Surrogate: a,a,a-TFT (FID)  Surrogate: a,a,a-TFT (FID)  Surrogate: 4-BFB (PID)  Surrogate: 4-BFB (PID)  Surrogate: a,a,a-TFT (PID)  Surrogate: a,a,a-TFT (PID)  Surrogate: a,a,a-TFT (PID)  Soil  Soil	Ethylbenzene	"	11	н		1.25	9.55	**	
Sourrogate: a,a,a-TFT (FID)	Xylenes (total)			11		2.50	212	11	
Surrogate: 4-BFB (PID)  """ 50.0-150  NR " 1  Surrogate: a,a,a-TFT (PID)  """ 50.0-150  NR "" 1  Soil  Gasoline Range Hydrocarbons  O980662 9/21/98 9/22/98  Senzene  """ 0.0500 ND mg/kg dry  Soluene  S	Surrogate: 4-BFB (FID)	"	"	"	60.0-120		NR	%	I
Surrogate: a,a,a-TFT (PID)  """  ""  ""  ""  ""  ""  ""  ""  ""	Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		97.8	"	
B809311-07   Soil	Surrogate: 4-BFB (PID)	"	"	"	60.0-120		NR	"	1
Senzene	Surrogate: a,a,a-TFT (P1D)	"	"	"	50.0-150		62.4	"	
Coluene	<u>T1-C@13'</u>			B80931	<u>1-07</u>			Soil	
Coluene	Gasoline Range Hydrocarbons	0980662	9/21/98	9/22/98		5.00	ND	mg/kg dry	
Sthylbenzene       " " " 0.0500 ND "         Sylenes (total)       " " 0.100 0.452 "         Surrogate: 4-BFB (FID)       " " 60.0-120 98.4 %         Surrogate: a,a,a-TFT (FID)       " " 50.0-150 67.4 "         Surrogate: 4-BFB (PID)       " " 60.0-120 105 "	Benzene	"		"		0.0500	ND		
(ylenes (total)       " " " 0.100 0.452 "         (urrogate: 4-BFB (FID)       " " 60.0-120 98.4 %         (urrogate: a,a,a-TFT (FID)       " " 50.0-150 67.4 "         (urrogate: 4-BFB (PID)       " " 60.0-120 105 "	Toluene	11	н	"		0.0500	0.140	11	
Furrogate: 4-BFB (FID)  " " " 60.0-120 98.4 %  Furrogate: a,a,a-TFT (FID) " " 50.0-150 67.4 "  Furrogate: 4-BFB (PID) " " 60.0-120 105 "				11		0.0500	ND	**	
furrogate: a,a,a-TFT (FID) " " 50.0-150 67.4 " furrogate: 4-BFB (PID) " " 60.0-120 105 "	The same and the contract of t					0.100	0.452	н	
Turrogate: 4-BFB (PID) " " " 60.0-120 105 "	. ,			"	60.0-120		98.4	%	
TET (DID)	the state of the s			"	50.0-150		67.4	"	
Surrogate: a,a,a-TFT (P1D) " " " 50.0-150 75.9 "	Surrogate: 4-BFB (P1D)			"	60.0-120		105	"	
	Surrogate: a,a,a-TFT (P1D)	"	"	"	50.0-150		75.9	"	

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Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827

Project Number: Chevron #9-6489
Project Number: 7G007-037-01
Project Manager: Roger Hoffmore

Sampled: 9/11/98 Received: 9/12/98 Reported: 9/22/98 18:41

#### Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

0061

	Batch	Date	Date	Surrogate	Reporting	4		
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
T1-F@13'			nonca	11.00				
Gasoline Range Hydrocarbons	0080773	0/21/00	<u>B8093</u>	<u>11-08</u>			Soil	
Benzene	0980662	9/21/98	9/22/98		50.0	137	mg/kg dry	
Toluene	,,	н	,,		0.500	ND	н	
Ethylbenzene			,,		0.500	3.12	n	
		**	,, H		0.500	ND	u	
Xylenes (total)		· · · · · ·	,,,		1.00	23.9		
Surrogate: 4-BFB (FID)	,,			60.0-120		168	%	1
Surrogate: a,a,a-TFT (FID)		"	"	50.0-150		59.9	n	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		131	"	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		62.5	"	
T2-F@13'			B80931	11-09			Soil	
Gasoline Range Hydrocarbons	0980662	9/21/98	9/22/98	<del></del>	250	1560	mg/kg dry	
Benzene	**	н	11		2.50	ND	"	
Toluene	"	**	n		2.50	40.1	**	
Ethylbenzene	**	**			2.50	22.3	n	
Xylenes (total)	"	н	11		5.00	510	11	
Surrogate: 4-BFB (FID)	"	$\hat{\boldsymbol{u}}$	"	60.0-120	5.00	NR	%	2
Surrogate: a,a,a-TFT (FID)	<i>"</i> .	"	"	50.0-150		67.2	"	2
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		NR	,,	2
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		80.0	"	2
T2-C@13'			D00021	1 10				
Gasoline Range Hydrocarbons	0980662	9/21/98	<u>B80931</u> 9/22/98	<u>1-10</u>	5.00		<u>Soil</u>	
Benzene	0980002	9/21/90	9/22/90		5.00	11.5	mg/kg dry "	
Toluene	11	11	н		0.0500	ND	"	
Ethylbenzene	,,		"		0.0500	0.141		
Xylenes (total)	11	11	IT		0.0500	0.0846	н	
Surrogate: 4-BFB (FID)	"	,,	,,	60.0.120	0.100	2.69	H	
Surrogate: a,a,a-TFT (FID)	,,	,,	,,	60.0-120		119	%	
Surrogate: 4-BFB (PID)	"	,,	,,	50.0-150		69.5	"	
	"	,,	,,	60.0-120		116	n	
Surrogate: a,a,a-TFT (P1D)		,,	"	50.0-150		76.8	"	
<u>T3-F@13'</u>			B80931	<u>1-11</u>			Soil	
Gasoline Range Hydrocarbons	0980662	9/21/98	9/22/98		5.00	ND	mg/kg dry	
Benzene	11	и	"		0.0500	ND	"	
Toluene	11	n	O		0.0500	0.191	**	
Ethylbenzene	· ·	11	**		0.0500	ND	n	
Xylenes (total)		н	11		0.100	0.829	"	

North Creek Analytical - Bothell





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Secor-California 9912 Business Park Dr #100

Project: Chevron #9-6489

Sampled: 9/11/98 Received: 9/12/98

Sacramento, CA 95827

Project Number: 7G007-037-01

Project Manager: Roger Hoffmore

Reported: 9/22/98 18:41

Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

0062

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
T3-F@13' (continued)			B80931	11_11			Soil	
Surrogate: 4-BFB (FID)	0980662	9/21/98	9/22/98	60.0-120		101	Soil %	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		67.1	/o "	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		110	"	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		74.3	"	
T3-C@13'			B80931	11-12			Soil	
Gasoline Range Hydrocarbons	0980662	9/21/98	9/22/98		5.00	ND	mg/kg dry	
Benzene	n	H	**		0.0500	ND	"	
Toluene	"	n	**		0.0500	0.149	n	
Ethylbenzene	•	**	н		0.0500	ND	**	
Xylenes (total)	н	**	n		0.100	0.273		
Surrogate: 4-BFB (FID)	<i>"</i>	"	· · · · · · · · · · · · · · · · · · ·	60.0-120	-	102	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		67.6	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		112	"	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		77. <b>6</b>	"	
<u>T1-F@16'</u>			<u>B80931</u>	1-13			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980662	9/21/98	9/22/98		5.00	ND	mg/kg dry	
Benzene	11	IT	er e		0.0500	ND	"	
Toluene	"	H	*		0.0500	ND	**	
Ethylbenzene	n	0	n		0.0500	ND	,,	
Xylenes (total)	**	"	**		0.100	0.144	n	
Surrogate: 4-BFB (FID)	"	"	"	60.0-120		102	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		68.6	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		108	"	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		78.1	n	
<u>T2-F@18'</u>			B80931	<u>1-14</u>			Soil	
Gasoline Range Hydrocarbons	0980662	9/21/98	9/22/98		1000	1740	mg/kg dry	
Benzene	"	11	**		10.0	ND	"	
Toluene	"	11	11		10.0	223	n	
Ethylbenzene	"	H	Ħ		10.0	30.7	"	
Xylenes (total)	"	11	11		20.0	419	**	
Surrogate: 4-BFB (FID)	"	"	"	60.0-120	•	$\overline{NR}$	%	2
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		NR	"	2
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		NR	"	2
Surrogate: a,a,a-TFT (PID)	n	"	"	50.0-150		NR	"	2

North Creek Analytical - Bothell





PORTLAND = (503) 906-9200 = FAX 906-9210

Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827 Project Number: Chevron #9-6489
Project Number: 7G007-037-01
Project Manager: Roger Hoffmore

Sampled: 9/11/98 Received: 9/12/98

Reported: 9/22/98 18:41

#### Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

0063

							0 (	, 00
Analyte	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
<u>S-1</u> Lead	0980387	9/12/98	<u><b>B8093</b></u> 3 9/13/98	11-01 EPA 6020	0.500	21.3	Soil mg/kg dry	
<u>S-2</u> Lead	0980387	9/12/98	<b><u>B8093</u></b> 3 9/13/98	11-02 EPA 6020	0.500	8.46	<u>Soil</u> mg/kg dry	
S-3 Lead	0980387	9/12/98	<u><b>B8093</b>3</u> 9/13/98	11-03 EPA 6020	0.500	12.8	<u>Soil</u> mg/kg dry	
<u>S-4</u> Lead	0980387	9/12/98	<u>B80931</u> 9/13/98	L <u>1-04</u> EPA 6020	0.500	8.26	<u>Soil</u> mg/kg dry	
S-5 Lead	0980387	9/12/98	<u>B80931</u> 9/13/98	1 <b>1-05</b> EPA 6020	0.500	26.9	<u>Soil</u> mg/kg dry	
<u>S-6</u> Lead	0980387	9/12/98	<u>B80931</u> 9/13/98	1 <u>1-06</u> EPA 6020	0.500	10.9	<u>Soil</u> mg/kg dry	
<u>T1-C@13'</u> Lead	0980387	9/12/98	<u>B80931</u> 9/13/98	L <u>1-07</u> EPA 6020	0.500	5.09	<u>Soil</u> mg/kg dry	
<u>T1-F@13'</u> Lead	0980387	9/12/98	<u>B80931</u> 9/13/98	1 <b>1-08</b> EPA 6020	0.500	13.1	<u>Soil</u> mg/kg dry	
<u>T2-F@13'</u> Lead	0980387	9/12/98	<u>B80931</u> 9/13/98	<b>1-09</b> EPA 6020	0.500	4.54	<u>Soil</u> mg/kg dry	
<u>T2-C@13'</u> Lead	0980387	9/12/98	<u><b>B80931</b></u> 9/13/98	1-10 EPA 6020	0.500	5.98	<u>Soil</u> mg/kg dry	
<u>T3-F@13'</u> Lead	0980387	9/12/98	<u>B80931</u> 9/13/98	1-11 EPA 6020	0.500	4.27	<u>Soil</u> mg/kg dry	
<u>T3-C@13'</u> Lead	0980387	9/12/98	<b>B80931</b> 9/13/98	<b>1-12</b> EPA 6020	0.500	4.64	<u>Soil</u> mg/kg dry	
<u>T1-F@16'</u> Lead	0980387	9/12/98	<b>B80931</b> 9/13/98	1-13 EPA 6020	0.500	5.43	Soil mg/kg dry	

North Creek Analytical - Bothell





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Secor-CaliforniaProject:Chevron #9-6489Sampled:9/11/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/12/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/22/98 18:41

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

0064

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>T2-F@18'</u> Lead	0980387	9/12/98	<b>B8093</b> 3	11-14 EPA 6020	0.500	4.73	<u>Soil</u> mg/kg dry	

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.

Matthew Essig, Project Manager

9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



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Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827 Project: Chevron #9-6489 Project Number: 7G007-037-01 Sampled: 9/11/98 Received: 9/12/98

Project Manager: Roger Hoffmore Reported:

#### Dry Weight Determination North Creek Analytical - Bothell

^ 100**6**5

9/22/98 18:41

Result  94.3  94.2  95.5  95.5	Units % % % %
94.2 95.5	% %
95.5	%
95.5	%
92.9	%
92.4	%
95.6	%
85.5	%
96.0	%
93.9	%
94.3	%
96.3	%
96.2	%
96.4	%
	92.4 95.6 85.5 96.0 93.9 94.3 96.3

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North Creek Analytical - Bothell





PORTLAND = (503) 906-9200 = FAX 924-9290

Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827 Project Number: 7G007-037-01
Project Manager: Roger Hoffmore

Sampled: 9/11/98 Received: 9/12/98

Reported: 9/22/98 18:41

# Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B/Quality-Control() 6 6 North Creek Analytical - Bothell

	Date	Spike	Sample	QC	R	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0980389	Date Prepa	red: 9/12/	<u>98</u>		Extractio	n Method: EP	A 5030B	(P/T)		
<u>Blank</u>	0980389-B	LK1						13.1.1.1		
Gasoline Range Hydrocarbons	9/12/98			ND	mg/kg dry	5.00				
Benzene	н			ND	"	0.0500				
Toluene	11			ND	"	0.0500				
Ethylbenzene	11			ND	11	0.0500				
Xylenes (total)	11			ND	n	0.100				
Surrogate: 4-BFB (FID)	,,	2.40	=	3.06	н	60.0-120	127			3
Surrogate: a,a,a-TFT (FID)	"	2.40		2.25	"	50.0-150	93.7			,
Surrogate: 4-BFB (PID)	"	2.40		2.93	"	60.0-120	122			3
Surrogate: a,a,a-TFT (PID)	"	2.40		2.04	"	50.0-150	85.0			2
LCS	0980389-BS	<u>81</u>								
Gasoline Range Hydrocarbons	9/12/98	25.0		23.5	mg/kg dry	60.0-120	94.0			
Surrogate: 4-BFB (FID)		2.40		3.53	"	60.0-120	147			3
Surrogate: a,a,a-TFT (FID)	"	2.40		2.37	"	50.0-150	98.7			
LCS Dup	0980389-BS	<u>5D1</u>								
Gasoline Range Hydrocarbons	9/12/98	25.0		23.4	mg/kg dry	60.0-120	93.6	20.0	0.426	
Surrogate: 4-BFB (FID)	<i>n</i>	2.40		3.50	"	60.0-120	146			3
Surrogate: a,a,a-TFT (FID)	"	2.40		2.32	"	50.0-150	96.7			
Matrix Spike	0980389-M	<u>S1 B8</u>	809311-01							
Benzene	9/14/98	0.355	0.0565	0.417	mg/kg dry	60.0-120	102			
Toluene	H	0.355	0.283	0.613	"	60.0-120	93.0			
Ethylbenzene	***	0.355	0.0940	0.445	n	60.0-120	98.9			
Xylenes (total)	n	1.07	0.548	1.65	11	60.0-120	103			
Surrogate: 4-BFB (PID)	"	1.70		2.21	,,	60.0-120	130			3
Surrogate: a,a,a-TFT (PID)	"	1.70		1.31	"	50.0-150	77. <b>I</b>			
Matrix Spike Dup	<u>0980389-M</u>	<u>SD1</u> <u>B8</u>	809311-01							
Benzene	9/14/98	0.355	0.0565	0.421	mg/kg dry	60.0-120	103	20.0	0.976	
Toluene	11	0.355	0.283	0.608	"	60.0-120	91.5	20.0	1.63	
Ethylbenzene	**	0.355	0.0940	0.443	"	60.0-120	98.3	20.0	0.609	
Xylenes (total)	H	1.07	0.548	1.63	11	60.0-120	101	20.0	1.96	
Surrogate: 4-BFB (PID)	<b>"</b>	1.70		2.14	"	60.0-120	126	20.0	1.70	3
Surrogate: a,a,a-TFT (PID)	"	1.70		1.26	"	50.0-150	74.I			3

North Creek Analytical - Bothell





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Secor-California
9912 Business Park Dr #100
Sacramento, CA 95827

Project Number: Chevron #9-6489
Project Number: 7G007-037-01
Project Manager: Roger Hoffmore

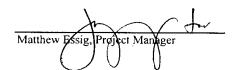
Received: 9/12/98 Reported: 9/22/98 18:41

Sampled: 9/11/98

## Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	R	Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
D 4 1 0000662	D . D									
Batch: 0980662	Date Prepa		<u>98</u>		Extraction	on Method: EP	A 5030B	<u>(P/T)</u>		
Blank Casalina Banga Undragarhana	0980662-BI	LK1		NID		<b>-</b> 00				
Gasoline Range Hydrocarbons Benzene	9/21/98			ND	mg/kg dr	=				
Toluene	11			ND ND	"	0.0500				
Ethylbenzene	"			ND	,,	0.0500				
Xylenes (total)	"			ND ND	н	0.0500				
Surrogate: 4-BFB (FID)	<i>n</i>	2.40			,,	0.100	01.3			
Surrogate: a,a,a-TFT (FID)	"	2.40 2.40		1.95 1.53	"	60.0-120	81.2			
Surrogate: 4-BFB (PID)	"	2.40		2.61	"	50.0-150	63.7			
Surrogate: a,a,a-TFT (PID)	"				"	60.0-120	109			
Surrogale: a,a,a-1F1 (F1D)		2.40		2.07	,,	50.0-150	86.2			
LCS	0980662-BS	<u>81</u>								
Gasoline Range Hydrocarbons	9/21/98	25.0		21.1	mg/kg dr	y 60.0-120	84.4			
Surrogate: 4-BFB (FID)	"	2.40		2.45	"	60.0-120	102			
Surrogate: a,a,a-TFT (F1D)	"	2.40		1.87	"	50.0-150	77. <b>9</b>			
LCS Dup	0980662-BS	SD1								
Gasoline Range Hydrocarbons	9/22/98	25.0		21.5	mg/kg dr	y 60.0-120	86.0	20.0	1.88	
Surrogate: 4-BFB (FID)	"	2.40		2.46	,,	60.0-120	102			
Surrogate: a,a,a-TFT (FID)	"	2.40		1.92	"	50.0-150	80.0			
Matrix Spike	0980662-M	S1 B8	<u>809512-01</u>							
Benzene	9/22/98	0.226	ND	0.205	mg/kg dr	y 60.0-120	90.7			
Toluene	n	0.226	ND	0.211	"	60.0-120	93.4			
Ethylbenzene	**	0.226	ND	0.205	n	60.0-120	90.7			
Xylenes (total)	**	0.677	ND	0.635	"	60.0-120	93.8			
Surrogate: 4-BFB (PID)	"	1.08		1.16	<i>"</i>	60.0-120	107			
Surrogate: a,a,a-TFT (PID)	"	1.08		0.802	"	50.0-150	74.3			
Matrix Spike Dup	0980662-M	SD1 B8	309512-01							
Benzene	9/22/98	0.226	ND	0.212	mg/kg dry	y 60.0-120	93.8	20.0	3.36	
Toluene	"	0.226	ND	0.216	"	60.0-120	95.6	20.0	2.33	
Ethylbenzene	11	0.226	ND	0.211	"	60.0-120	93.4	20.0	2.93	
Xylenes (total)	н	0.677	ND	0.651		60.0-120	96.2	20.0	2.53	
Surrogate: 4-BFB (PID)	<i>n</i> .	1.08	• • • • • • • • • • • • • • • • • • • •	1.15	<i>,</i>	60.0-120	106	20.0	2.55	
Surrogate: a,a,a-TFT (PID)	"	1.08		0.824	rr	50.0-150	76.3			
3		1.00		0.021		50.0-150	/ U. J			

North Creek Analytical - Bothell





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Secor-CaliforniaProject:Chevron #9-6489Sampled:9/11/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/12/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/22/98 18:41

#### Total Metals by EPA 6000/7000 Series Methods/Quality Control North Creek Analytical - Bothell

0068

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0980387 Blank	Date Prepare		<u>8</u>		Extract	ion Method: EP	A 3050B			
Lead	9/13/98	IXI.		ND	mg/kg	dry 0.500				
LCS Lead	<u>0980387-BS1</u> 9/13/98	25.0		21.4	mg/kg o	dry 80.0-120	85.6			
<u>Duplicate</u> Lead	0980387-DU 9/13/98	<u>P1 B8</u>	<b>09311-10</b> 5.98	6.45	mg/kg o	lry		20.0	7.56	
<u>Matrix Spike</u> Lead	0980387-MS 9/13/98	1 <u>B8</u> 23.6	09311-10 5.98	27.8	mg/kg c	1ry 70.0-130	92.5			

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North Creek Analytical - Bothell





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Secor-California Project: Chevron #9-6489 Sampled: 9/11/98 9912 Business Park Dr #100 Project Number: 7G007-037-01 Received: 9/12/98 Project Manager: Roger Hoffmore Sacramento, CA 95827 Reported: 9/22/98 18:41

#### **Notes and Definitions**

0069

#	Note
1	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
2	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
3	The surrogate recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical - Bothell



Chain-of-Custody-Record		Remorks Rease: Page Rease: Page (97-4143 Inith Verbal Pesh ASAP	Turn Around Time (Circle-ChoTce)	48 Hrs. 5 Doys	10 Days 45 discussed
n-of-C	4 Wellace - 842 - 8083 ek malytica 54 8274 eyer Helmare	(2808) 5789	Turn Arour		070
Chai	100 P 45.5	CRO (AK 101)	848/ sull/s	·//m.	1/2/10017 Date/Time
	Contact (Name (Pho. y Name Nu Collected by	φ (ICΛP ο ΓΑΛ)	ition Doto,	tion Date	Dot
	1 E	Hon-Chlorhaded HC (8030)	Organization	Organization A K A	inature)
	16.00 B	10 (8015)  (208)  (208)  (3010)  (3010)  (3010)  (3010)	lgnoturo) 2O	ignature)	Recloved For Laboratory By (Signature)
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	Chevron Facility Number 1304 Angert Consultent Project Number 7602 - Ostonsultent Name SECOR Externefic Address 9712 Resince (Name) Resince Hoper (Name) Resince Hoper (Name) Resince Hoper (Name)	C = Composite  D = Discrete  Time	SECRIAL	Organization	Organization
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	Chovron U.S.A. Inc. P.O. BOX 5004 Sun Ramon, CA 94583 FAX (415)842-9591	Refinquished By	(hage-1		Relinquished By

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	Chevron Facility Number_	4-6483			Chayron Contact	1	ry Wallace	
Chevron II.S.A. Inc.	Facility Address	1504 Airport	Heis	We Shive, Anchorage	各天	۱ ً	0.	
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	Consultant Name SECOR	Lit	14	wyorated	section and a section of the section		カニノのカジカ	
FAX (415)842-9591	Adress 9212 Busi	Les Park D	2	100,59 womente		3	oger Hoffmore	ريو
	Project Contact (Name) Regier Ho-	"Kayer Ho		(48)	77	86/11/6		
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Relinquished By (Signoture)	Organization	Date/Time	Received By (Slandium)	(Sland'ura)	- Incorpo	1		
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Relinquished By (Signature)	Organization	Date/17me	Recleved For	Recieved For Laboratory By (Signature)	naturo)	Doto/Time		10 Days

Custody-Record		Remarks	(Circio Cholco)	00	\omega_p
ain-of-	(Nome) Bob Cachrass (Phone) 925-842-9655 North Creek Aughtica 310 Humber Pitth Bog 31 Homes Pitth Bog 31 Homes Peges Pother	(EQ. AH) ON (AK 103)	Turn Around Time	AB HES.	10 Days
		(208/2) VII) (208) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Date/Time, 948	oto/IImo	to/IIme
	Chevron Contact (Name)  (Phone)  Laboratory Name Morth  Laboratory Release Number  Samples Collected by (Name Collection Date	DH On-Chlothrated HC (8020)  Tatal Lead  (AA)  Metals  Co.Cr.Pb.Zn,Ni  Co.Cr.Pb.Zn,Ni  Co.Cr.Pb.Zn,Ni	Organization	Organization A M M	naturo)
	45 Michange AK Lucipsintel Sacrameros CA 95827 2010 TOTO TOTO TOTO TOTO TOTO TOTO TOTO T	(8020 + 8015)  (8020 + 8015)  (8020 + 8015)  (8020 + 8015)  (8010)  (8010)	Received By (Signature)	Received By (Signature)	Recleved For Laboratory By (Signature)
	Consultant Project Number 1804 firms Heights Mr. Consultant Project Number 1804 firms Heights Mr. Consultant Name SE WA International Lives Address 1712 Secinces M. Mr. Ste. 180 Sact Project Contact (Name) Registrate the Hingre (Phone) [[Les Willians of the Minere Contact (Name) Market Hethrage	(OH 10 EQ (Yea Or NO)			Date/Ilme Recleve
		nother is a fee overlon	Organization Date/Time	<u> </u>	Organization Date
		W — Water C — Charcoal  W — Water C — Charcoal  Type C — Composite  O — Discrete	(Slgnoture)	By (Signature)	(Signoture)
	Chevron U.S.A. Inc. P.O. BOX 5004 Sun Ramon, CA 94583 FAX (415)842—9591	Tro Bank Number	Relinquished By (S)	Relloquished	Relinquished By



Secor-CaliforniaProject:Chevron #9-6489Sampled:9/18/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/21/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/24/98 14:46

#### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
OS-1	B809512-01	Soil	9/18/98
OS-2	B809512-02	Soil	9/18/98



Secor-CaliforniaProject:Chevron #9-6489Sampled:9/18/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/21/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/24/98 14:46

## Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>OS-1</u>			B8095	<u>12-01</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980662	9/21/98	9/21/98		5.00	ND	mg/kg dry	
Benzene	Ħ	n	97		0.0500	ND	11	
Toluene	н	n	11		0.0500	ND	**	
Ethylbenzene	н	11	17		0.0500	ND	*1	
Xylenes (total)	н	n	н		0.100	ND	**	
Surrogate: 4-BFB (FID)	"	"	"	60.0-120		98.1	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		<i>68.7</i>	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		106	"	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		<i>75.7</i>	"	
<u>0\$-2</u>			B8095	12-02			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980662	9/21/98	9/21/98		5.00	ND	mg/kg dry	
Benzene	n	0	**		0.0500	ND	"	
Toluene	н	н	n		0.0500	ND	н	
Ethylbenzene	н	**	11		0.0500	ND	н	
Xylenes (total)	n	H	n		0.100	ND	n	
Surrogate: 4-BFB (FID)			<i>"</i>	60.0-120		101	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		72.1	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		104	"	
Surrogate: a,a,a-TFT (PID)	"	n	n	50.0-150		77.5	"	

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\*Refer to end of report for text of notes and definitions.



Secor-CaliforniaProject:Chevron #9-6489Sampled:9/18/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/21/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/24/98 14:46

#### Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103 North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>OS-1</u>			B8095	12-01			Soil	
Diesel Range Hydrocarbons	0980683	9/22/98	9/23/98	12 01	20.0	538	mg/kg dry	1
Heavy Oil Range Hydrocarbons	**	**	n		125	1810	"	
Surrogate: 2-FBP	<b>"</b>	"	,,	50.0-150		91.3	%	
Surrogate: Octacosane	"	"	"	50.0-150		101	"	
<u>OS-2</u>			B8095	12-02			<u>Soil</u>	
Diesel Range Hydrocarbons	0980683	9/22/98	9/23/98		20.0	524	mg/kg dry	l
Heavy Oil Range Hydrocarbons	**	n	н		125	2290	н	
Surrogate: 2-FBP	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	"	50.0-150		104	%	
Surrogate: Octacosane	"	"	"	50.0-150		105	"	

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Secor-CaliforniaProject:Chevron #9-6489Sampled:9/18/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/21/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/24/98 14:46

## Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

- 140-4-15 - 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
<u>OS-1</u>			B8095	12-01			<u>Soil</u>	
Cadmium	0980674	9/21/98	9/22/98	EPA 6020	0.500	ND	mg/kg dry	
Chromium	n	н	11	EPA 6020	0.500	22.0	11	
Lead	н	н		EPA 6020	0.500	73.7	**	
Nickel	19	н	н	EPA 6020	0.500	24.5	**	
Zinc	н	н	н	EPA 6020	5.00	58.8	11	
<u>OS-2</u>			B8095	12-02			<u>Soil</u>	
Cadmium	0980674	9/21/98	9/22/98	EPA 6020	0.500	ND	mg/kg dry	
Chromium	н	н		EPA 6020	0.500	21.6	"	
Lead	n	n		EPA 6020	0.500	14.6	11	
Nickel	29		**	EPA 6020	0.500	21.0	"	
Zinc	н	"	н	EPA 6020	5.00	49.2	n	

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\*Refer to end of report for text of notes and definitions.



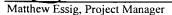
Secor-CaliforniaProject:Chevron #9-6489Sampled:9/18/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/21/98

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 9/24/98 14:46

# Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting	<u> </u>		
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u> </u>		•					•	***
<u>OS-1</u>			B8095	<u>12-01</u>			Soil	
Bromodichloromethane	0980698	9/22/98	9/22/98		0.0500	ND	mg/kg dry	
Bromoform	11	"			0.0500	ND	**	
Bromomethane	n	17			0.0500	ND	**	
Carbon tetrachloride	"	"	Ħ		0.0500	ND	•	
Chlorobenzene	**	"	11		0.0500	ND	11	
Chloroethane	**		17		0.0500	ND	ti .	
Chloroform	**	н			0.0500	ND	11	
Chloromethane	••	n	**		0.0500	ND	11	
Dibromochloromethane	**	н	**		0.0500	ND	**	
1,2-Dichlorobenzene	**	H	11		0.0500	ND	11	
1,3-Dichlorobenzene	"	н	U		0.0500	ND	11	
1,4-Dichlorobenzene	11	н	11		0.0500	ND	11	
1,1-Dichloroethane	•	**	11		0.0500	ND	"	
1,2-Dichloroethane	**	н			0.0500	ND	71	
1,1-Dichloroethene	**	H	0		0.0500	ND	н	
cis-1,2-Dichloroethene	•	"	11		0.0500	ND	**	
trans-1,2-Dichloroethene	11	**	II.		0.0500	ND	**	
1,2-Dichloropropane	**	"	U		0.0500	ND	н	
cis-1,3-Dichloropropene	11	n	•		0.0500	ND	н	
trans-1,3-Dichloropropene	**	n			0.0500	ND	**	
Methylene chloride	11	"	11		0.500	0.518	н	2
1,1,2,2-Tetrachloroethane	••	11	н		0.0500	ND	н	
Tetrachloroethene	**	**	н		0.0500	0.257	**	
1,1,1-Trichloroethane	н	"	н		0.0500	ND	н	
1,1,2-Trichloroethane	н	**	**		0.0500	ND	"	
Trichloroethene	н	n .	"		0.0500	ND	11	
Trichlorofluoromethane	**	11	"		0.0500	ND	11	
Vinyl chloride	**	ti .	**		0.0500	ND		
Surrogate: 4-BFB (ELCD)	ï	"	<i>n</i>	50.0-150		91.4	%	
<u>OS-2</u>			B8095	12-02			<u>Soil</u>	
Bromodichloromethane	0980698	9/22/98	9/22/98		0.0500	ND	mg/kg dry	
Bromoform	н	**	n		0.0500	ND	н	
Bromomethane	n	**	n		0.0500	ND	н	
Carbon tetrachloride	n	tr .	11		0.0500	ND	н	
Chlorobenzene	"	**	11		0.0500	ND	"	
Chloroethane	н	••	**		0.0500	ND	н	
Chloroform	11	<b>11</b>	**		0.0500	ND	н	

North Creek Analytical - Bothell





Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827

Project:

Chevron #9-6489

Project Number: 7G007-037-01 Project Manager: Roger Hoffmore Sampled: 9/18/98

Received: 9/21/98

Reported: 9/24/98 14:46

### Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
OS-2 (continued)			<u>B8095</u>	12-02			<u>Soil</u>	
Chloromethane	0980698	9/22/98	9/22/98		0.0500	ND	mg/kg dry	
Dibromochloromethane	<b>*</b> †	"	**		0.0500	ND		
1,2-Dichlorobenzene	11	n	11		0.0500	ND	n	
1,3-Dichlorobenzene	11	n	Ħ		0.0500	ND	н	
1,4-Dichlorobenzene	17	н	17		0.0500	ND	н	
1,1-Dichloroethane	PT	н	"		0.0500	ND	н	
1,2-Dichloroethane	**	11	H		0.0500	ND	н	
1,1-Dichloroethene	H	H	н		0.0500	ND	н	
cis-1,2-Dichloroethene	29	**	If		0.0500	ND	"	
trans-1,2-Dichloroethene	11	**	u		0.0500	ND	**	
1,2-Dichloropropane	**	**	0		0.0500	ND	H	
cis-1,3-Dichloropropene	**	11	**		0.0500	ND	•	
trans-1,3-Dichloropropene	n	Ħ	er e		0.0500	ND	н	
Methylene chloride	*1	н	**		0.500	0.643	•	2
1,1,2,2-Tetrachloroethane	••		**		0.0500	ND	**	
Tetrachloroethene	**	11	н		0.0500	0.149	"	
1,1,1-Trichloroethane	n	н	**		0.0500	ND	**	
1,1,2-Trichloroethane	Ħ	II.	11		0.0500	ND	•	
Trichloroethene	Pt	n	11		0.0500	ND	***	
Trichlorofluoromethane	O.	H	**		0.0500	ND	n	
Vinyl chloride	11	D			0.0500	ND	**	
Surrogate: 4-BFB (ELCD)	<b>"</b>	"	<i>"</i>	50.0-150		96.2	%	

North Creek Analytical - Bothell



Sampled:

Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827 Project: Chevron #9-6489
Project Number: 7G007-037-01
Project Manager: Roger Hoffmore

Received: 9/21/98 Reported: 9/24/98 14:46

9/18/98

#### Polychlorinated Biphenyls by EPA Method 8082 North Creek Analytical - Bothell

OS-1         B809512-01         Soil           Aroclor 1016         0980675         9/21/98         9/23/98         50.0         ND         ug/kg dry           Aroclor 1221         "         "         "         50.0         ND         "           Aroclor 1232         "         "         "         50.0         ND         "           Aroclor 1242         "         "         "         50.0         ND         "           Aroclor 1248         "         "         "         50.0         ND         "           Aroclor 1254         "         "         "         50.0         ND         "           Aroclor 1260         "         "         "         50.0         ND         "           Aroclor 1262         "         "         "         50.0         ND         "           Aroclor 1268         "         "         "         40.0-130         73.4         %           Surrogate: TCX         "         "         40.0-130         73.4         %           Aroclor 1268         "         "         "         50.0         ND         "           Aroclor 1268         "         "         "		Batch	Date	Date	Surrogate	Reporting			
Aroclor 1016         0980675         9/21/98         9/23/98         50.0         ND         ug/kg dry           Aroclor 1221         "         "         "         50.0         ND         "           Aroclor 1232         "         "         "         50.0         ND         "           Aroclor 1242         "         "         "         50.0         ND         "           Aroclor 1248         "         "         "         50.0         ND         "           Aroclor 1254         "         "         "         50.0         ND         "           Aroclor 1260         "         "         "         50.0         ND         "           Aroclor 1262         "         "         "         50.0         ND         "           Aroclor 1268         "         "         "         40.0-130         73.4         %           OS-2         **         **         "         40.0-130         **         *         %           Aroclor 1216         0980675         9/21/98         9/23/98         50.0         ND         "           Aroclor 1221         "         "         "         50.0         ND	Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
Aroclor 1016         0980675         9/21/98         9/23/98         50.0         ND         ug/kg dry           Aroclor 1221         "         "         "         50.0         ND         "           Aroclor 1232         "         "         "         50.0         ND         "           Aroclor 1242         "         "         "         50.0         ND         "           Aroclor 1248         "         "         "         50.0         ND         "           Aroclor 1254         "         "         "         50.0         ND         "           Aroclor 1260         "         "         "         50.0         ND         "           Aroclor 1262         "         "         "         50.0         ND         "           Aroclor 1268         "         "         "         40.0-130         50.0         ND         "           OS-2         **         **         "         40.0-130         50.0         ND         "           Aroclor 1214         "         "         "         50.0         ND         "           Aroclor 1221         "         "         "         50.0         ND <td>00.4</td> <td></td> <td></td> <td>2000</td> <td></td> <td></td> <td></td> <td></td> <td></td>	00.4			2000					
Aroclor 1221         " <t< td=""><td></td><td></td><td></td><td></td><td><u>12-01</u></td><td></td><td></td><td></td><td></td></t<>					<u>12-01</u>				
Aroclor 1221 Aroclor 1232									
Aroclor 1242       "       "       "       50.0       ND       "         Aroclor 1248       "       "       "       50.0       ND       "         Aroclor 1254       "       "       "       50.0       ND       "         Aroclor 1260       "       "       "       50.0       ND       "         Aroclor 1262       "       "       "       50.0       ND       "         Aroclor 1268       "       "       "       50.0       ND       "         Surrogate: TCX       "       "       "       40.0-130       73.4       %         OS-2       *       *       "       40.0-130       50.0       ND       ug/kg dry         Aroclor 1016       0980675       9/21/98       9/23/98       50.0       ND       "         Aroclor 1221       "       "       "       50.0       ND       "         Aroclor 1232       "       "       "       50.0       ND       "         Aroclor 1242       "       "       "       50.0       ND       "         Aroclor 1254       "       "       "       50.0       ND       "     <	Aroclor 1221	"	**	n		50.0	ND	11	
Aroclor 1248	Aroclor 1232	**	**	н		50.0	ND	n	
Aroclor 1248 Aroclor 1254 Aroclor 1260 """"""""""""""""""""""""""""""""""""	Aroclor 1242	•	**	н		50.0	ND	"	
Aroclor 1254 Aroclor 1260 " " " " 50.0 ND " Aroclor 1262 " " " " 50.0 ND " Aroclor 1268 " " " 40.0-130 73.4 %  OS-2 B809512-02 Soil  Aroclor 1016 0980675 9/21/98 9/23/98 50.0 ND " Aroclor 1221 " " 50.0 ND " Aroclor 1232 " " " 50.0 ND " Aroclor 1232 " " " 50.0 ND " Aroclor 1242 " " " 50.0 ND " Aroclor 1248 " " " 50.0 ND " Aroclor 1254 " " " 50.0 ND "  Aroclor 1254	Aroclor 1248	**	**	n		50.0	ND	11	
Aroclor 1262 " " " " 50.0 ND " Aroclor 1268 " " " 40.0-130 50.0 ND "    Surrogate: TCX	Aroclor 1254	11	11	"		50.0	ND	n	
Aroclor 1262 Aroclor 1268 " " " " " " " " " " " " " " " " " " "	Aroclor 1260	tr .	**	11		50.0	ND	n	
Aroclor 1268 " " " 40.0-130 50.0 ND "  Surrogate: TCX " " 40.0-130 73.4 %   Soil  Aroclor 1016 0980675 9/21/98 9/23/98 50.0 ND ug/kg dry  Aroclor 1221 " " " 50.0 ND "  Aroclor 1232 " " " 50.0 ND "  Aroclor 1242 " " " 50.0 ND "  Aroclor 1248 " " " 50.0 ND "  Aroclor 1254 " " " 50.0 ND "  Aroclor 1254 " " " 50.0 ND "	Aroclor 1262	Ħ	H	**		50.0	ND	**	
Surrogate: TCX         " " 40.0-130         73.4 %           OS-2         B809512-02         Soil           Aroclor 1016         0980675         9/21/98         9/23/98         50.0 ND ug/kg dry           Aroclor 1221         " " " " 50.0 ND "         " " " 50.0 ND "           Aroclor 1232         " " " " 50.0 ND "         " " 50.0 ND "           Aroclor 1242         " " " " 50.0 ND "           Aroclor 1248         " " " " 50.0 ND "           Aroclor 1254         " " " " 50.0 ND "		**	**	"				11	
Aroclor 1016       0980675       9/21/98       9/23/98       50.0       ND       ug/kg dry         Aroclor 1221       "       "       "       50.0       ND       "         Aroclor 1232       "       "       "       50.0       ND       "         Aroclor 1242       "       "       "       50.0       ND       "         Aroclor 1248       "       "       "       50.0       ND       "         Aroclor 1254       "       "       "       50.0       ND       "		· · · · ·	ii .	. ,,	40.0-130			%	
Aroclor 1016       0980675       9/21/98       9/23/98       50.0       ND       ug/kg dry         Aroclor 1221       "       "       "       50.0       ND       "         Aroclor 1232       "       "       "       50.0       ND       "         Aroclor 1242       "       "       "       50.0       ND       "         Aroclor 1248       "       "       "       50.0       ND       "         Aroclor 1254       "       "       "       50.0       ND       "	OS-2			B8095	12-02			Soil	
Aroclor 1221       " <t< td=""><td></td><td>0980675</td><td>9/21/98</td><td></td><td></td><td>50.0</td><td>ND</td><td></td><td></td></t<>		0980675	9/21/98			50.0	ND		
Aroclor 1232       " <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Aroclor 1242       "       "       "       50.0       ND       "         Aroclor 1248       "       "       "       50.0       ND       "         Aroclor 1254       "       "       "       50.0       ND       "	Aroclor 1232	M	H	n		50.0	ND	11	
Aroclor 1248 " " " 50.0 ND " Aroclor 1254 " " 50.0 ND "		н	10	н				"	
Aroclor 1254 " " " 50.0 ND "		н	11	,,				n	
		н	n	"				"	
Aroclot 1760 " " " " " 500 ND "	Aroclor 1260	н	10	н		50.0	ND	•	
Aroclor 1262 " " " 50.0 ND "		**	11	н				n	
Aroclor 1268 " " " 50.0 ND "		**	*1	11				,,	
Surrogate: TCX " " 40.0-130 72.8 %					10.0.120	30.0			

North Creek Analytical - Bothell





Secor-CaliforniaProject:Chevron #9-6489Sampled:9/18/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/21/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/24/98 14:46

## Dry Weight Determination North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Result	Units
OS-1	B809512-01	Soil	95.0	%
OS-2	B809512-02	Soil	95.4	%



Sampled: 9/18/98

Secor-California Project: Chevron #9-6489 9912 Business Park Dr #100 7G007-037-01 Project Number: Received: 9/21/98 Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 9/24/98 14:46

### Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	Re	porting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% No	otes*
Batch: 0980662	Date Prepa		<u>98</u>		Extractio	n Method: EP	A 5030B	(P/T)		
<u>Blank</u>	<u>0980662-BI</u>	<u>_K1</u>								
Gasoline Range Hydrocarbons	9/21/98			ND	mg/kg dry					
Benzene	"			ND	"	0.0500				
Toluene	,,			ND	11	0.0500				
Ethylbenzene	D			ND	"	0.0500				
Xylenes (total)	11			ND	" .	0.100				
Surrogate: 4-BFB (FID)	n	2.40		1.95	"	60.0-120	81.2			
Surrogate: a,a,a-TFT (FID)	"	2.40		1.53	"	50.0-150	<b>63</b> .7			
Surrogate: 4-BFB (PID)	"	2.40		2.61	"	60.0-120	109			
Surrogate: a,a,a-TFT (PID)	"	2.40		2.07	n	50.0-150	86.2			
LCS	0980662-BS	<u> </u>								
Gasoline Range Hydrocarbons	9/21/98	25.0		21.1	mg/kg dry	60.0-120	84.4			
Surrogate: 4-BFB (FID)	"	2.40		2.45	"	60.0-120	102			
Surrogate: a,a,a-TFT (FID)	"	2.40		1.87	"	50.0-150	77. <b>9</b>			
LCS Dup	0980662-BS	<u>SD1</u>								
Gasoline Range Hydrocarbons	9/22/98	25.0		21.5	mg/kg dry	60.0-120	86.0	20.0	1.88	
Surrogate: 4-BFB (FID)	"	2.40		2.46	"	60.0-120	102			
Surrogate: a,a,a-TFT (FID)	"	2.40		1.92	"	50.0-150	80.0			
Matrix Spike	0980662-M	<u>S1</u> <u>B</u>	809512-01							
Benzene	9/22/98	0.226	ND	0.205	mg/kg dry	60.0-120	90.7			
Toluene	n	0.226	ND	0.211	11	60.0-120	93.4			
Ethylbenzene	11	0.226	ND	0.205	11	60.0-120	90.7			
Xylenes (total)	n	0.677	ND	0.635	•	60.0-120	93.8			
Surrogate: 4-BFB (PID)	"	1.08		1.16	"	60.0-120	107			
Surrogate: a,a,a-TFT (PID)	"	1.08		0.802	"	50.0-150	74.3			
Matrix Spike Dup	0980662-M	<u>SD1 B</u>	809512-01							
Benzene	9/22/98	0.226	ND	0.212	mg/kg dry	60.0-120	93.8	20.0	3.36	
Toluene	n	0.226	ND	0.216	11	60.0-120	95.6	20.0	2.33	
Ethylbenzene	n	0.226	ND	0.211	"	60.0-120	93.4	20.0	2.93	
Xylenes (total)	11	0.677	ND	0.651	"	60.0-120	96.2	20.0	2.53	
Surrogate: 4-BFB (PID)	"	1.08		1.15	"	60.0-120	106			
Surrogate: a,a,a-TFT (PID)	"	1.08		0.824	"	50.0-150	76.3			

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.



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Secor-CaliforniaProject:Chevron #9-6489Sampled:9/18/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/21/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/24/98 14:46

## Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	Re	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0980683	Date Prepa	red: 9/22/9	98		Extractio	n Method: EP	A 3550B			
Blank	0980683-BI		<del></del>							
Diesel Range Hydrocarbons	9/22/98			ND	mg/kg dry	4.00				
Heavy Oil Range Hydrocarbons	H			ND	"	25.0				
Surrogate: 2-FBP	"	13.2		8.40	n	50.0-150	63.6		•	
Surrogate: Octacosane	"	12.9		9.94	"	50.0-150	77. <b>1</b>			
LCS	0980683-BS	<u>81</u>								
Diesel Range Hydrocarbons	9/23/98	80.0		77.6	mg/kg dry	60.0-120	97.0			
Surrogate: 2-FBP	"	13.2		10.8	"	50.0-150	81.8			
LCS	0980683-BS	<u>52</u>								
Heavy Oil Range Hydrocarbons	9/22/98	80.0		62.0	mg/kg dry	60.0-100	77.5			
Surrogate: Octacosane	<b>"</b>	12.9		9.43	"	50.0-150	73.1			
LCS Dup	0980683-BS	SD1								
Diesel Range Hydrocarbons	9/23/98	80.0		91.4	mg/kg dry	60.0-120	114	20.0	16.1	
Surrogate: 2-FBP	<i>ii</i>	13.2		14.4	"	50.0-150	109			
LCS Dup	0980683-BS	SD2								
Heavy Oil Range Hydrocarbons	9/22/98	80.0		61.7	mg/kg dry	60.0-100	77.1	20.0	0.517	
Surrogate: Octacosane	"	12.9		8.98	"	50.0-150	69.6			

North Creek Analytical - Bothell



Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827 Project: Chevron #9-6489
Project Number: 7G007-037-01

Project Manager: Roger Hoffmore

Sampled: 9/18/98 Received: 9/21/98

Reported: 9/24/98 14:46

## Total Metals by EPA 6000/7000 Series Methods/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	Re	porting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0980674	Date Prepar	ed: 9/21/	98		Extraction	n Method: EPA	3050B			
<u>Blank</u>	0980674-BL									
Cadmium	9/22/98			ND	mg/kg dry	0.500				
Chromium	n			ND	**	0.500				
Lead	11			ND	**	0.500				
Nickel	11			ND	н	0.500				
Zinc	11			ND	**	5.00				
LCS	<u>0980674-BS</u>	1								
Cadmium	9/22/98	50.0		42.0	mg/kg dry	70.0-130	84.0			
Chromium	11	50.0		44.3	11	80.0-120	88.6			
Lead	н	50.0		48.5	**	80.0-120	97.0			
Nickel	н	50.0		46.2	11	80.0-120	92.4			
Zinc	**	50.0		40.8	"	70.0-130	81.6			
<u>Duplicate</u>	0980674-DL	<u>P1 B</u>	809113-10							
Cadmium	9/22/98		ND	ND	mg/kg dry			20.0		
Chromium	н		33.5	32.0	···			20.0	4.58	
Lead	re .		12.0	12.4	н			20.0	3.28	
Nickel	n		4.44	3.99	r			20.0	10.7	
Zinc	II		31.7	31.9	**			20.0	0.629	
Matrix Spike	<u>0980674-MS</u>	<u>81 B</u>	809113-10							
Cadmium	9/22/98	73.5	ND	62.8	mg/kg dry	70.0-130	85.4			
Chromium	"	73.5	33.5	83.0	"	70.0-130	67.3			3
Lead	n	73.5	12.0	81.6	H	70.0-130	94.7			
Nickel	н	73.5	4.44	59.2	Ħ	70.0-130	74.5			
Zinc	i)	73.5	31.7	91.9	11	70.0-130	81.9			

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Chevron #9-6489 Sampled: 9/18/98 Secor-California Project: Project Number: 7G007-037-01 Received: 9/21/98 9912 Business Park Dr #100 9/24/98 14:46 Project Manager: Roger Hoffmore Reported: Sacramento, CA 95827

## Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	R	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch; 0980698	Date Prepa	red: 9/22/9	98		Extractio	n Method: EP	A 5030R	(MeOH)		
Blank	0980698-B		<u>/ U</u>		<u>LAU ACU</u>	A PACING LIA	1 2020B	11.100111		
Bromodichloromethane	9/22/98	<u> </u>		ND	mg/kg dry	0.0500				
Bromoform	n			ND	" פיי פייי	0.0500				
Bromomethane	"			ND	11	0.0500				
Carbon tetrachloride	н			ND	11	0.0500				
Chlorobenzene	**			ND	11	0.0500				
Chloroethane	**			ND	11	0.0500				
Chloroform	17			ND	н	0.0500				
Chloromethane	**			ND	н	0.0500				
Dibromochloromethane	**			ND	"	0.0500				
1.2-Dichlorobenzene	11			ND	II .	0.0500				
1.3-Dichlorobenzene	"			ND	11	0.0500				
1,4-Dichlorobenzene	н			ND	•	0.0500				
1,1-Dichloroethane	н			ND	11	0.0500				
1,2-Dichloroethane	н			ND	IF	0.0500				
1,1-Dichloroethene	<b>f</b> 1			ND	н	0.0500				
cis-1,2-Dichloroethene	•			ND	11	0.0500				
trans-1,2-Dichloroethene	11			ND	"	0.0500				
1,2-Dichloropropane	"			ND	н	0.0500				
cis-1,3-Dichloropropene	"			ND	**	0.0500				
trans-1,3-Dichloropropene	"			ND	t)	0.0500				
Methylene chloride	11			0.752	0	0.500				4
1,1,2,2-Tetrachloroethane	"			ND	"	0.0500				
Tetrachloroethene	n			ND	D.	0.0500				
1,1,1-Trichloroethane	н			ND	U	0.0500				
1,1,2-Trichloroethane	n			ND	**	0.0500				
Trichloroethene	"			ND	,,	0.0500				
Trichlorofluoromethane	"			ND	0	0.0500				
Vinyl chloride	н			ND	ur.	0.0500				
Surrogate: 4-BFB (ELCD)	<i>"</i>	2.00		1.99	<i>"</i>	50.0-150	99.5			
LCS	0980698-B	<u>S1</u>								
Chlorobenzene	9/22/98	1.00		0.874	mg/kg dr	y 60.0-140	87.4			
1,1-Dichloroethene	11	1.00		0.992	"	60.0-140	99.2			
Trichloroethene	**	1.00		1.00	11	60.0-140	100			
Surrogate: 4-BFB (ELCD)	"	2.00		1.75	"	50.0-150	87.5			

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.



Secor-CaliforniaProject:Chevron #9-6489Sampled:9/18/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/21/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/24/98 14:46

#### Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	Re	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Matrix Spike	0980698-MS	<u> 81 B</u>	809512-02							
Chlorobenzene	9/22/98	1.05	ND	0.870	mg/kg dry	60.0-140	82.9			
1,1-Dichloroethene	11	1.05	ND	0.882	H	60.0-140	84.0			
Trichloroethene	n	1.05	ND	0.919	Ft	60.0-140	87.5			
Surrogate: 4-BFB (ELCD)	u '	2.10		1.85	"	50.0-150	88.1			
Matrix Spike Dup	0980698-MS	<u>SD1 B</u>	809512-02							
Chlorobenzene	9/22/98	1.05	ND	0.887	mg/kg dry	60.0-140	84.5	30.0	1.91	
1,1-Dichloroethene	11	1.05	ND	0.876	11	60.0-140	83.4	30.0	0.717	
Trichloroethene	11	1.05	ND	0.963	"	60.0-140	91.7	30.0	4.69	
Surrogate: 4-BFB (ELCD)	"	2.10		1.90	,,	50.0-150	90.5			



Sampled:

Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827 Project Number: Chevron #9-6489
Project Number: 7G007-037-01
Project Manager: Roger Hoffmore

Received: 9/21/98 Reported: 9/24/98 14:46

9/18/98

### Polychlorinated Biphenyls by EPA Method 8082/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	R	eporting Limit	Recov.	RPD	RPD
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% Notes*
Batch: 0980675	Date Prepar	ed: 9/21/9	<u>98</u>		Extractio	n Method: EPA	4 3580A		
<u>Blank</u>	0980675-BL	<u>K1</u>							
Aroclor 1016	9/23/98			ND	ug/kg dry	50.0			
Aroclor 1221	**			ND	"	50.0			
Aroclor 1232	11			ND	**	50.0			
Aroclor 1242	11			ND	0	50.0			
Aroclor 1248	n			ND	17	50.0			
Aroclor 1254	11			ND	o o	50.0			
Aroclor 1260	n			ND	"	50.0			
Aroclor 1262	n			ND	**	50.0			
Aroclor 1268	n			ND	U	50.0			
Surrogate: TCX	<b>"</b>	6.67		6.44	"	40.0-130	96.6		
LCS	0980675-BS	1							
Aroclor 1260	9/23/98	333		213	ug/kg dry	44.0-123	64.0		
Surrogate: TCX	<i>"</i>	6.67		6.89		40.0-130	103		•
Matrix Spike	0980675-MS	1 BS	309380-06						
Aroclor 1260	9/23/98	985	ND	629	ug/kg dry	28.0-132	63.9		
Surrogate: TCX	"	19.7		17.9	"	40.0-130	90.9		
Matrix Spike Dup	0980675-MS	ini R	809380-06						
Aroclor 1260	9/23/98	985	ND	475	ug/kg dry	28.0-132	48.2	23.0	28.0
Surrogate: TCX	<i>"</i>	19.7		17.8	"	40.0-130	90.4	23.0	20.0

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.



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9912 Business Park Dr #100

Sacramento, CA 95827

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 Project:
 Chevron #9-6489
 Sampled:
 9/18/98

 Project Number:
 7G007-037-01
 Received:
 9/21/98

Project Manager: Roger Hoffmore Reported: 9/24/98 14:46

#### **Notes and Definitions**

#	Note
1	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
2	Methylene chloride is a suspected laboratory contaminant. Please refer to the Method Blank.
3	The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
4	Methylene chloride is a suspected laboratory contaminant.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical - Bothell

COC-1.DW	G/11 90/	нсн	
Rollnquished By (	Rothquished By	Sample Number	<b>A</b> pevron U.S.A. Inc. <b>A</b> .O. BOX 5004 <b>S</b> an Ramon, CA 94583 FAX (415)842-9591
By (Signature)	(Signoture)	WW Number of Containers	.S.A. Ir 5004 CA 945 842-95
		Matrix S - Soil A = Air W - Water C - Charcoa	
0		Type G = Grab C = Composite D = Discrete	Chevron Facility   Facility   Facility   Consultant Project Consultant Name Address (29) Address (20)
Organization	Organization SER Int	Time	Chevron Facility Number. Facility Address. Consultant Project Numbe Consultant Name SEC. Address 7912 Bu Address 7912 Rome Project Contact (Nam
on Date/ilme	27)	Sample Preservation	Chevron Facility Number 7-6483  Facility Number 704 Airport 1  Consultant Project Number 7007-0  Consultant Name SELOK Lutersettish Adress 1912 Business Park Drive Address 1912 Business Park Drive (Phone) 16:364-1880
Roccio		Iced (Yes or No)	The Steel
Yed By (Signature)  (1), (1), (20, 1^	rod By (Signature)	### BTEX + TPH GAS (8020 + 8015)  ### BTEX + TPH GAS (8020 + 8015)  ### TPH Diesel (8015)  ### Oil and Greese (5520)  ### Chlorinated HC (8010)  Non Chlorinated HC (8020)	Les Real Amborne AK -OI Des Susamered 2887 100, Susamered 2887
Organization	Organization AK Outlies	Total Lead (AA)  Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Chevron Contact (Name)  (Phone)  (Phone)  (Laboratory Name 100°H  Laboratory Release Number  Loboratory Release Number  Collection Date 2015  Samples Collected by (Name)  Collection Date  Signature
Pate/Time 9-27-93 150 Pate/Time	Pate/Time	X GRO (AK 161) X BTEX (8020) X DRO (AK 102) X RRO (AK 103)	
w/ 20.6°		XXRRO (AK103)	18 4 8 1 N N N N N N N N N N N N N N N N N N
<u>خ</u>	Turn Around Time (Circle Cholce)	PLBs (8082)  X PLBs (8082)  X HVOCs (8021B)  Remarks  ASAP  Remarks  ASAP  Remarks  ASAP  Remarks  ASAP  Remarks  ASAP  Remarks  Remarks  ASAP  Remarks  ASA	of-Custody-Record



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Project: Chevron #9-6489, #4548274 Sampled: 9/18/98 ect Number: 7G007-037-01 Received: 9/21/98

9912 Business Park Dr #100 Project Number: 7G007-037-01 Received: 9/21/98
Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 10/12/98 09:55

#### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
UO-F@9.5	B809573-01	Soil	9/18/98
UO-C@9.5	B809573-02	Soil	9/18/98
HO-F@9.5	B809573-03	Soil	9/18/98
HO-C@9.5	B809573-04	Soil	9/18/98



Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827 Project: Chevron #9-6489, #4548274

Sampled: 9/18/98

Project Number: 7G007-037-01 Project Manager: Roger Hoffmore Received: 9/21/98 Reported: 10/12/98 09:55

### Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
NO PORT			D0005	72.01			6.0	
<u>UO-F@9.5</u>		0.10.1.10.0	B8095	<u>/3-01</u>	• 00	) /D	<u>Soil</u>	
Gasoline Range Hydrocarbons	0980809	9/24/98	9/25/98		5.00	ND	mg/kg dry	
Benzene	"	"	"		0.0500	ND	11	
Toluene	"	"	"		0.0500	ND	н	
Ethylbenzene	••	**	"		0.0500	ND	n	
Xylenes (total)	"	**	"		0.100	ND	"	
Surrogate: 4-BFB (FID)	""	n	"	60.0-120		84.3	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		72.5	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		67.5	"	
Surrogate: a,a,a-TFT (PID)	n	"	"	50.0-150		56.9	n	
UO-C@9.5			B8095	73-02			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980809	9/24/98	9/25/98		5.00	ND	mg/kg dry	
Benzene	"	"	**		0.0500	ND	1)	
Toluene	11	"	"		0.0500	ND	D .	
Ethylbenzene	11	"	н		0.0500	ND	н	
Xylenes (total)	"	H	н		0.100	ND	н	
Surrogate: 4-BFB (FID)	"	"	"	60.0-120		89.1	%	
Surrogate: a,a,a-TFT (FID)	,,	"	"	50.0-150		64.3	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		91.5	,,	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		65.0	n .	

North Creek Analytical - Bothell





Secor-California 9912 Business Park Dr #100

Project: Chevron #9-6489, #4548274

Sampled: 9/18/98

Sacramento, CA 95827

Project Number: 7G007-037-01 Project Manager:

Received: 9/21/98

Roger Hoffmore

Reported: 10/12/98 09:55

## Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103 North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>UO-F@9.5</u>			B8095	<u>73-01</u>			<u>Soil</u>	
Diesel Range Hydrocarbons	0980799	9/24/98	9/25/98		4.00	14.4	mg/kg dry	
Heavy Oil Range Hydrocarbons	**	N	н		25.0	73.9	"	
Surrogate: 2-FBP	"	<i>"</i>	","	50.0-150		71.4	%	
Surrogate: Octacosane	"	"	"	50.0-150		88.5	"	
<u>UO-C@9.5</u>			B8095	<u>73-02</u>			<u>Soil</u>	
Diesel Range Hydrocarbons	0980799	9/24/98	9/25/98		4.00	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons	н		**		25.0	ND		
Surrogate: 2-FBP	"	<i>n</i>	"	50.0-150		62.1	%	
Surrogate: Octacosane	"	"	"	50.0-150		86.5	"	



Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827

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Project Number: 7G007-037-01

Project Manager: Roger Hoffmore

Reported: 10/12/98 09:55

## Heavy Oil Range Organics (C25-C36) by AK103 North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
HO-F@9.5			B8095	<u>73-03</u>			<u>Soil</u>	
Heavy Oil Range Hydrocarbons	0980799	9/24/98	9/27/98		125	682	mg/kg dry	
Surrogate: Octacosane	n	"	"	50.0-150		98.7	%	
HO-C@9.5			B8095	<del>73-04</del>			<u>Soil</u>	
Heavy Oil Range Hydrocarbons	0980799	9/24/98	9/25/98		25.0	ND	mg/kg dry	
Surrogate: Octacosane	"	<b>"</b>	<i>n</i>	50.0-150		84.5	%	



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 Project Manager:
 Roger Hoffmore
 Reported:
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#### Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Batch	Date	Date	Specific	Reporting			······································
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
<u>UO-F@9.5</u>			B8095	73-01			<u>Soil</u>	
Cadmium	1080200	10/6/98	10/9/98	EPA 6020	0.500	ND	mg/kg dry	
Chromium	"	**	**	EPA 6020	0.500	28.2	11	
Lead	п	11	n	EPA 6020	0.500	7.39	"	
Nickel	11	**	n	EPA 6020	0.500	22.7	**	
Zinc	n	**		EPA 6020	5.00	51.3	n	
<u>UO-C@9.5</u>			B8095	73-0 <u>2</u>			<u>Soil</u>	
Cadmium	1080200	10/6/98	10/9/98	EPA 6020	0.500	ND	mg/kg dry	
Chromium	11	**	**	EPA 6020	0.500	21.8	"	
Lead	15	**	**	EPA 6020	0.500	5.64	H	
Nickel	**	н	"	EPA 6020	0.500	19.9	n	
Zinc	15	н	**	EPA 6020	5.00	49.8	н	





Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827

Project: Chevron #9-6489, #4548274

Sampled:

9/18/98 9/21/98 Received:

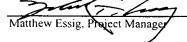
Project Number: 7G007-037-01 Project Manager: Roger Hoffmore

10/12/98 09:55 Reported:

#### Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
UO-F@9.5			B80957	73-01			<u>Soil</u>	
Bromodichloromethane	0980913	9/28/98	9/28/98	<del> v -</del>	0.0500	ND	mg/kg dry	
Bromoform	"	11	"		0.0500	ND	"	
Bromomethane	"	н	н		0.0500	ND	"	
Carbon tetrachloride	11	n	н		0.0500	ND		
Chlorobenzene	n	IT	11		0.0500	ND	н	
Chloroethane	II.	•	II .		0.0500	ND	17	
Chloroform	n	"	0		0.0500	ND	Ω	
Chloromethane	н	11	0		0.0500	ND	**	
Dibromochloromethane	"	n	**		0.0500	ND	rt .	
1.2-Dichlorobenzene	**	**	н		0.0500	ND	н	
1,3-Dichlorobenzene	**		"		0.0500	ND	H	
1,4-Dichlorobenzene	11	**	11		0.0500	ND	•	
1,1-Dichloroethane	11	**	n		0.0500	ND	н	
1,2-Dichloroethane	11	**	11		0.0500	ND	••	
l, l-Dichloroethene	"	41	n		0.0500	ND	n	
cis-1,2-Dichloroethene	•	н	•		0.0500	ND	n	
trans-1,2-Dichloroethene	**	н	•		0.0500	ND	n	
1,2-Dichloropropane	**	н	n		0.0500	ND	"	
cis-1,3-Dichloropropene	11	**	н		0.0500	ND	n	
trans-1,3-Dichloropropene	11	*	"		0.0500	ND	н	
Methylene chloride	n	**	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane		**	11		0.0500	ND	"	
Tetrachloroethene	"	*	n .		0.0500	0.0656	н	
1,1,1-Trichloroethane	D	11	п		0.0500	ND	н	
1,1,2-Trichloroethane	11	**	н		0.0500	ND	"	
Trichloroethene	10	**	11		0.0500	ND	"	
Trichlorofluoromethane		**	16		0.0500	ND	н	
Vinyl chloride	D.	FF .	n		0.0500	ND	H	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		97.2	%	
<u>UO-C@9.5</u>			B8095	<u>73-02</u>			<u>Soil</u>	
Bromodichloromethane	0980913	9/28/98	9/28/98		0.0500	ND	mg/kg dry	
Bromoform	н	**	n		0.0500	ND	"	
Bromomethane	n	**	**		0.0500	ND	п	
Carbon tetrachloride	"	**	н		0.0500	ND	n	
Chlorobenzene	"	11	н		0.0500	ND	11	
Chloroethane	n	U	**		0.0500	ND	11	
Chloroform	"	"	**		0.0500	ND	•	

North Creek Analytical - Bothell



<sup>\*</sup>Refer to end of report for text of notes and definitions.



Secor-California Project Number: 7G007-037-01 9912 Business Park Dr #100

Project: Chevron #9-6489, #4548274

Sampled: 9/18/98 Received: 9/21/98

Sacramento, CA 95827

Project Manager: Roger Hoffmore

Reported: 10/12/98 09:55

## Halogenated Volatile Organics by EPA Method 8021B (modified) North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
UO COO 5 (tit)			DOODE'	72.03			Soil	
UO-C@9.5 (continued)	0000013	0.100.100	B8095	<u> 13-02</u>	0.0500	NID		
Chloromethane	0980913	9/28/98	9/28/98		0.0500	ND	mg/kg dry "	
Dibromochloromethane					0.0500	ND		
1,2-Dichlorobenzene	"	**	tr		0.0500	ND	**	
1,3-Dichlorobenzene	**	n	"		0.0500	ND	11	
1,4-Dichlorobenzene	**	н	"		0.0500	ND	н	
1,1-Dichloroethane	11	н	••		0.0500	ND	**	
1,2-Dichloroethane	n	и	**		0.0500	ND	**	
1,1-Dichloroethene	н	PI .	D		0.0500	ND	и	
cis-1,2-Dichloroethene	н	и	17		0.0500	ND	н	
trans-1,2-Dichloroethene	11	19	n		0.0500	ND	H	
1,2-Dichloropropane	H	H	**		0.0500	ND	"	
cis-1,3-Dichloropropene	<b>"</b>	**	**		0.0500	ND	11	
trans-1,3-Dichloropropene	n	11	n		0.0500	ND	••	
Methylene chloride	**	**	н		0.500	ND	11	
1,1,2,2-Tetrachloroethane	**		н		0.0500	ND	· ·	
Tetrachloroethene	n	11	n		0.0500	ND	"	
1,1,1-Trichloroethane	н	11	*		0.0500	ND	11	
1,1,2-Trichloroethane	н	**	**		0.0500	ND	11	
Trichloroethene	"	"	н		0.0500	ND	n	
Trichlorofluoromethane	"	n	**		0.0500	ND	D	
Vinyl chloride	•	D	н		0.0500	ND	n	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		100	%	

North Creek Analytical - Bothell



 Secor-California
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 9/21/98

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 10/12/98 09:55

#### Polychlorinated Biphenyls by EPA Method 8082 North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
UO-F@9.5			B8095	73-01			<u>Soil</u>	
_	0980904	9/28/98	9/29/98		50.0	ND	ug/kg dry	
Aroclor 1221	"	"	"		50.0	ND	"	
Aroclor 1232	,,	н	n		50.0	ND	**	
Aroclor 1242	**	н	11		50.0	ND	n	
Aroclor 1248	•	н	"		50.0	ND		
Aroclor 1254	11	н	11		50.0	ND	n	
Aroclor 1260	**	**	11		50.0	ND	"	
Aroclor 1262		H	n		50.0	ND		
Aroclor 1268	**		n		50.0	ND	**	
Surrogate: TCX	"	"	"	40.0-130	50.0	104	%	
<u>UO-C@9.5</u>			B8095	<u>73-02</u>			<u>Soil</u>	
Aroclor 1016	0980904	9/28/98	9/29/98		50.0	ND	ug/kg dry	
Aroclor 1221	"	•	"		50.0	ND	•	
Aroclor 1232	**	••	н		50.0	ND	**	
Aroclor 1242	17	**			50.0	ND	н	
Aroclor 1248	**	"	**		50.0	ND	n	
Aroclor 1254	0	"	"		50.0	ND	**	
Aroclor 1260	tr	"	н		50.0	ND	*1	
Aroclor 1262	11	**	н		50.0	ND	**	
Aroclor 1268	"	**	H		50.0	ND	n	
Surrogate: TCX	,	ï	"	40.0-130		112	%	

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.



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 9/21/98

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 10/12/98 09:55

## Dry Weight Determination North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Result	Units
UO-F@9.5	B809573-01	Soil	91.6	%
UO-C@9.5	B809573-02	Soil	95.8	%
HO-F@9.5	B809573-03	Soil	90.7	%
HO-C@9.5	B809573-04	Soil	95.5	%



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Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827

Chevron #9-6489, #4548274 Project:

Sampled: 9/18/98

7G007-037-01 Project Number:

9/21/98 Received:

Project Manager: Roger Hoffmore Reported: 10/12/98 09:55

## Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	R	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit		Notes*
Batch: 0980809	Date Prepa	red: 9/24/9	<u>98</u>		<u>Extractio</u>	n Method: EP.	A 5030B	(P/T)		
Blank	0980809-B		<del></del>				·	<u> </u>		
Gasoline Range Hydrocarbons	9/26/98			ND	mg/kg dry	5.00				
Benzene	"			ND	" "	0.0500				
Toluene	**			ND	11	0.0500				
Ethylbenzene	11			ND	"	0.0500				
Xylenes (total)	11			ND	11	0.100				
Surrogate: 4-BFB (FID)	<i>"</i>	2.40		2.29	"	60.0-120	95.4			
Surrogate: a,a,a-TFT (FID)	n	2.40		1.76	"	50.0-150	73.3			
Surrogate: 4-BFB (PID)	"	2.40		2.43	"	60.0-120	101			
Surrogate: a,a,a-TFT (P1D)	"	2.40		1.81	"	50.0-150	75.4			
LCS	0980809-B	<u>S1</u>								
Gasoline Range Hydrocarbons	9/26/98	25.0		21.7	mg/kg dry		86.8			
Surrogate: 4-BFB (FID)	"	2.40		2.45	"	60.0-120	102			
Surrogate: a,a,a-TFT (FID)	"	2.40		1.87	"	50.0-150	77.9			
LCS Dup	<u>0980809-B</u>									
Gasoline Range Hydrocarbons	9/26/98	25.0		23.1	mg/kg dry		92.4	20.0	6.25	
Surrogate: 4-BFB (FID)	<i>"</i>	2.40		2.54	"	60.0-120	106			
Surrogate: a,a,a-TFT (FID)	"	2.40		1.95	"	50.0-150	81.2			
Matrix Spike	0980809-M		809519-01							
Benzene	9/25/98	0.248	ND	0.255	mg/kg dry		103			
Toluene	11	0.248	ND	0.261	н	60.0-120	105			
Ethylbenzene	11	0.248	NĐ	0.227	н	60.0-120	91.5			
Xylenes (total)	н	0.745	ND	0.687	H	60.0-120	92.2			
Surrogate: 4-BFB (PID)	"	1.19		1.08	"	60.0-120	90.8			
Surrogate: a,a,a-TFT (PID)	"	1.19		0.750	"	50.0-150	63.0			
Matrix Spike Dup	<u>0980809-M</u>	ISD1 B	<u>809519-01</u>							
Benzene	9/25/98	0.248	ND	0.261	mg/kg dry		105	20.0	1.92	
Toluene	IF	0.248	ND	0.270	19	60.0-120	109	20.0	3.74	
Ethylbenzene	n	0.248	ND	0.240	n	60.0-120	96.8	20.0	5.63	
Xylenes (total)	D	0.745	ND	0.728	11	60.0-120	97.7	20.0	5.79	
Surrogate: 4-BFB (PID)	"	1.19		1.11	"	60.0-120	93.3			
Surrogate: a,a,a-TFT (PID)	"	1.19		0.745	"	50.0-150	62.6			

North Creek Analytical - Bothell





Secor-California

0101

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Chevron #9-6489, #4548274 Sampled: 9/18/98 Project: Received: 9/21/98 7G007-037-01 Project Number: 9912 Business Park Dr #100

10/12/98 09:55 Reported: Sacramento, CA 95827 Project Manager: Roger Hoffmore

## Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	Re	porting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% Not	es*
Batch: 0980799	Date Prepa	red: 9/24/9	<u>98</u>		Extraction	Method: EP.	A 3550B			
Blank	0980799-B	LK1								
Diesel Range Hydrocarbons	9/25/98			ND	mg/kg dry	4.00				
Heavy Oil Range Hydrocarbons	•			ND	**	25.0				
Surrogate: 2-FBP	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12.8		7.94	"	50.0-150	62.0			
Surrogate: Octacosane	"	13.5		11.2	"	50.0-150	83.0			
LCS	0980799-B	S1								
Diesel Range Hydrocarbons	9/25/98	80.0		66.8	mg/kg dry	60.0-120	83.5			
Surrogate: 2-FBP		12.8		8.17	,,	50.0-150	63.8			
LCS	0980799-B	<u>S2</u>								
Heavy Oil Range Hydrocarbons	9/25/98	80.0		82.9	mg/kg đry	60.0-100	104			1
Surrogate: Octacosane	<b>"</b> "	13.5		11.3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	50.0-150	83.7			
LCS Dup	0980799-B	<u>SD1</u>								
Diesel Range Hydrocarbons	9/25/98	80.0		81.9	mg/kg dry	60.0-120	102	20.0	19.9	
Surrogate: 2-FBP	"	12.8		9.92	,,	50.0-150	77.5			
LCS Dup	0980799-B	SD2								
Heavy Oil Range Hydrocarbons	9/25/98	80.0		86.8	mg/kg dry	60.0-100	109	20.0	4.69	1
Surrogate: Octacosane	"	13.5		12.1	"	50.0-150	89.6			

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.



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Project:

Project: Chevron #9-6489, #4548274

Sampled: 9/18/98

9912 Business Park Dr #100

Project Number: 7G007-037-01

37-01

Received: 9/21/98

Sacramento, CA 95827

Secor-California

Project Manager: Roger Hoffmore

Reported: 10/12/98 09:55

## Heavy Oil Range Organics (C25-C36) by AK103/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	Re	porting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0980799	Date Prepa	red: 9/24/9	<u>98</u>		<u>Extractio</u>	n Method: EP	A 3550B			
<u>Blank</u>	0980799-B	LK1								
Heavy Oil Range Hydrocarbons	9/25/98			ND	mg/kg dry	25.0				
Surrogate: Octacosane	"	13.5		11.2	"	50.0-150	83.0			
LCS	0980799-B	<u>S2</u>								
Heavy Oil Range Hydrocarbons	9/25/98	80.0		82.9	mg/kg dry	60.0-100	104			1
Surrogate: Octacosane	<i>"</i>	13.5		11.3	,	50.0-150	83.7			
LCS Dup	0980799-B	SD2								
Heavy Oil Range Hydrocarbons	9/25/98	80.0		86.8	mg/kg dry	60.0-100	109	20.0	4.69	1
Surrogate: Octacosane	<i>"</i> …	13.5		12.1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	50.0-150	89.6			

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.



Secor-California 9912 Business Park Dr #100 Project: Chevron #9-6489, #4548274

Sampled: 9/18/98

Sacramento, CA 95827

Project Number: 7G007-037-01

9/21/98 Received:

Reported: Project Manager: Roger Hoffmore 10/12/98 09:55

### Total Metals by EPA 6000/7000 Series Methods/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	R	eporting Limit		RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 1080200	Date Prepare	ed: 10/6/9	<u>98</u>		Extractio	n Method: EP	<u>A 3050B</u>			
<u>Blank</u>	1080200-BLF	<u> </u>								
Cadmium	10/8/98			ND	mg/kg dry	y 0.500				
Chromium	н			ND	"	0.500				
Lead	**			ND	n	0.500				
Nickel	11			ND	"	0.500				
Zinc	11			ND	*	5.00				
LCS	1080200-BS1									
Cadmium	10/8/98	25.0		21.3	mg/kg dry	y 70.0-130	85.2			
Chromium	16	25.0		22.5		80.0-120	90.0			
Lead	#	25.0		23.7	**	80.0-120	94.8			
Nickel	**	25.0		23.5	ii	80.0-120	94.0			
Zinc	11	25.0		22.1	"	70.0-130	88.4			
<u>Duplicate</u>	1080200-DUI	<u>P1 B</u>	809474-03							
Cadmium	10/8/98		ND	ND	mg/kg dry	y		20.0		
Chromium	n		29.6	31.9	"			20.0	7.48	
Lead	н		5.12	5.03	**			20.0	1.77	
Nickel	11		29.2	24.0	**			20.0	19.5	
Zinc	11		47.5	42.6	11			20.0	10.9	
Matrix Spike	1080200-MS	<u>1 B</u>	809474-03							
Cadmium	10/9/98	20.7	ND	17.5	mg/kg dr	y 70.0-130	84.5			
Chromium	n	20.7	29.6	39.3	11	70.0-130	46.9			1
Lead	11	20.7	5.12	25.5	n	70.0-130	98.5			
Nickel	n	20.7	29.2	35.3	"	70.0-130	29.5			1
Zinc	11	20.7	47.5	54.1	11	70.0-130	31.9			1
Matrix Spike	1080200-MS2	<u>2</u> <u>B</u> 3	809474-03							
Chromium	10/9/98	466	29.6	498	mg/kg dr	y 70.0-130	101			2
Nickel	11	466	29.2	508	11	70.0-130	103			2
Zinc	10/8/98	466	47.5	545	n .	70.0-130	107			2

North Creek Analytical - Bothell





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Secor-California Project: Chevron #9-6489, #4548274 Sampled: 9/18/98 9912 Business Park Dr #100 Project Number: 7G007-037-01 9/21/98 Received:

2.00

Reported: Sacramento, CA 95827 Project Manager: Roger Hoffmore 10/12/98 09:55

### Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	R	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0980913	Date Prepa	ared: 9/28/9	<u>98</u>		Extraction	n Method: EP	A 5030B	[MeOH]		
Blank	0980913-B							-		
Bromodichloromethane	9/28/98			ND	mg/kg dr	0.0500				
Bromoform	n			ND	0	0.0500				
Bromomethane	н			ND	0	0.0500				
Carbon tetrachloride	**			ND	11	0.0500				
Chlorobenzene	н			ND	n	0.0500				
Chloroethane	"			ND	n	0.0500				
Chloroform	**			ND	н	0.0500				
Chloromethane	m .			ND	n	0.0500				
Dibromochloromethane	н			ND	**	0.0500				
1,2-Dichlorobenzene	**			ND	н	0.0500				
1,3-Dichlorobenzene	н			ND	н	0.0500				
1,4-Dichlorobenzene	n			ND		0.0500				
1,1-Dichloroethane	**			ND	n	0.0500				
1,2-Dichloroethane	н			ND	"	0.0500				
1,1-Dichloroethene	н			ND	"	0.0500				
cis-1,2-Dichloroethene	n			ND	**	0.0500				
trans-1,2-Dichloroethene	н			ND	н	0.0500				
1,2-Dichloropropane	**			ND	н	0.0500				
cis-1,3-Dichloropropene	n			ND	n	0.0500				
trans-1,3-Dichloropropene	n			ND	**	0.0500				
Methylene chloride	11			ND	**	0.500				
1,1,2,2-Tetrachloroethane	••			ND		0.0500				
Tetrachloroethene	•			ND	**	0.0500				
1,1,1-Trichloroethane	"			ND		0.0500				
1.1,2-Trichloroethane	"			ND		0.0500				
Trichloroethene	"			ND		0.0500				
Trichlorofluoromethane	11			ND	n	0.0500				
Vinyl chloride	"			ND		0.0500				
Surrogate: 4-BFB (ELCD)	'n	2.00		2.61	"	50.0-150	130			
LCS	0980913-B	<u>S1</u>								
Chlorobenzene	9/28/98	1.00		0.849	mg/kg dry	60.0-140	84.9			
1,1-Dichloroethene	и	1.00		0.918	"	60.0-140	91.8			
Trichloroethene	н	1.00		0.940	11	60.0-140	94.0			
		1.00		0.7.0		00.0 140	21.0			

1.82

9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

North Creek Analytical - Bothell

Surrogate: 4-BFB (ELCD)

91.0



50.0-150

<sup>\*</sup>Refer to end of report for text of notes and definitions.



 Secor-California
 Project:
 Chevron #9-6489, #4548274
 Sampled:
 9/18/98

 9912 Business Park Dr #100
 Project Number:
 7G007-037-01
 Received:
 9/21/98

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 10/12/98 09:55

## Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	Re	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Matrix Spike	0980913-MS	<u>1 B</u>	809573-02							
Chlorobenzene	9/28/98	1.04	ND	0.908	mg/kg dry	60.0-140	87.3			
1,1-Dichloroethene	н	1.04	ND	0.877	н	60.0-140	84.3			
Trichloroethene	24	1.04	ND	0.921	H	60.0-140	88.6			
Surrogate: 4-BFB (ELCD)	"	2.09		1.99	"	50.0-150	95.2			
Matrix Spike Dup	0980913-MS	<u>D1 B</u>	809573-02							
Chlorobenzene	9/28/98	1.04	ND	0.901	mg/kg dry	60.0-140	86.6	30.0	0.805	
1,1-Dichloroethene	11	1.04	ND	0.883	*1	60.0-140	84.9	30.0	0.709	
Trichloroethene	n .	1.04	ND	0.952	**	60.0-140	91.5	30.0	3.22	
Surrogate: 4-BFB (ELCD)	"	2.09		1.91	n	50.0-150	91.4			

North Creek Analytical - Bothell





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Secor-California

Project:

Chevron #9-6489, #4548274

Sampled: 9/18/98

9912 Business Park Dr #100 Sacramento, CA 95827 Project Number: 7G007-037-01

Received: 9/21/98

Project Manager: Roger Hoffmore

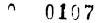
Reported: 10/12/98 09:55

## Polychlorinated Biphenyls by EPA Method 8082/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	R	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0980904	<u>Date Prepa</u>	red: 9/28/9	98		Extractio	on Method: EP.	A 3550B			
Blank	0980904-BI									
Aroclor 1016	9/29/98			ND	ug/kg dry	50.0				
Aroclor 1221	n			ND	"	50.0				
Aroclor 1232	"			ND	***	50.0				
Aroclor 1242	n			ND	"	50.0				
Aroclor 1248	н			ND	•	50.0				
Aroclor 1254	"			ND	н	50.0				
Aroclor 1260	11			ND	11	50.0				
Aroclor 1262	11			ND	"	50.0				
Aroclor 1268	Ħ			ND	**	50.0				
Surrogate: TCX	<i>"</i>	6.67		5.50	<i>,</i>	40.0-130	82.5			
LCS	0980904-BS	<b>31</b>								
Aroclor 1260	9/29/98	333		300	ug/kg dry	44.0-123	90.1			
Surrogate: TCX	<b>"</b>	6.67		4.93	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	40.0-130	73.9			
Matrix Spike	0980904-M	S1 B8	<u>809386-06</u>							
Aroclor 1260	9/29/98	365	ND	301	ug/kg dry	28.0-132	82.5			
Surrogate: TCX	"	7.31		5.82	,,	40.0-130	79.6			
Matrix Spike Dup	0980904-M	SD1 <u>B8</u>	<u> 309386-06</u>							
Aroclor 1260	9/29/98	365	ND	303	ug/kg dry	28.0-132	83.0	23.0	0.604	
Surrogate: TCX	n	7.31		6.11	"	40.0-130	83.6			

North Creek Analytical - Bothell







Secor-California 9912 Business Park Dr #100

Project: Chevron #9-6489, #4548274

Sampled: 9/18/98

Sacramento, CA 95827

Project Number: 7G007-037-01

Received: 9/21/98

Project Manager: Roger Hoffmore

Reported: 10/12/98 09:55

#### Notes and Definitions

#	Note
1	The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
2	Post-digestion Matrix Spike.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical - Bothell

COLC		59 FAA 9073448770	KINKO'S DIMUND BLVD	0108
Chain-of-Custody-Record		Remarks		Turn Around 11me (Circle Choice)  24 Mrs.  48 Mrs.  5 Days  10 Daye  As Contracted
-Cust	Hical	(8128) SONH XX		24 Hrs. (C 24 Hrs. 40 Hrs. 5 Days
n-of-	Wullace 42, 9083 ek Augi 48274 925 Hoth	X KRO (AK 103)		500
Chaí		: (0508) XIIB XX		-   G
	(Phone) - (Phone	(con or w) = = = = = = = = = = = = = = = = = =		9 /33 /6 9 0010/Tilho
	Chevron Contact (Name) (Phone) Laboratory Name Laboratory Release Number Samples Callected by (Name) Collection Date	boal loot (M)  c interest in the control of the con		Organization Organization
		OH besonhored HC (2008)		
	X 7 3	600000 Map 110		By (Signature)/ (Alaximina)  By (Signature)  For Laboratory By (Signature)
	districte	242 HTT + X3T8 (2028 + 8012) (2029)		
	Signat Height Reservation of Two Secretarions of Two Secretarions of Secretari	(ON 10 mp)	3	Received Received
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	Focility Number 1304 Figure 1304 Int Project Number Int Name 55 66 Int Name 56 106 Int Name 106	i,		Organization St. R. Surt / Organization
	Consultant Project Humber  Consultant Project Humber  Consultant Home; Special  Address 9912 Suegin  Project Contact (Home)	Type G = Grab  C = Composite  D = Olecreto		Organization Organization Organization
	5 5 5	Madrix A = Alc  S = Soft A = Alc  W = Water C = Charcool	->	gnoture)
,	Chevron U.S.A. Inc. P.O. BOX 5004 Sun Ramon, CA 945B3 FAX (415)B42-9591	Mumber of Contolners	27,73	(3) 26 (3)
	Chevron P.O. BC Sun Ramo FAX (418	10- Follow Humber	HO-FO9X	Reinquished By Reinquished By Reinquished By



 Secor-California
 Project:
 Chevron #9-6489, #4548274
 Sampled:
 9/29/98

 9912 Business Park Dr #100
 Project Number:
 7G007-037-01
 Received:
 9/30/98

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 10/15/98 16:10

#### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
D-1@2'	B809775-01	Soil	9/29/98
D-2@2'	B809775-02	Soil	9/29/98
D-3@2'	B809775-03	Soil	9/29/98
D-4@2'	B809775-04	Soil	9/29/98
Methanol Blank	B809775-06	Soil	9/29/98





Secor-CaliforniaProject:Chevron #9-6489, #4548274Sampled:9/29/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/30/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:10/15/98 16:10

## Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting		, w	
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>D-1@2'</u>			B8097	<u>75-01</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	1080422	10/12/98	10/13/98		5.00	ND	mg/kg dry	
Benzene	"	++	**		0.0500	ND	**	
Toluene	H	ŧr.	11		0.0500	0.0995	**	
Ethylbenzene	н	11	"		0.0500	ND	**	
Xylenes (total)	**	**	"		0.100	0.227	**	
Surrogate: 4-BFB (FID)	"	,,	"	60.0-120		98.2	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		67.7	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		97.4	"	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		66.8	"	
D-2@2'			B8097	75-02			Soil	
Gasoline Range Hydrocarbons	1080422	10/12/98	10/12/98	, <u></u>	20.0	23.9	mg/kg dry	
Benzene	"	н	0		0.200	ND	mg/kg dry	
Toluene	**	*1	**		0.200	ND	11	
Ethylbenzene	н	**	**		0.200	ND	11	
Xylenes (total)		**	11		0.400	1.32	11	
Surrogate: 4-BFB (FID)	"	,,	,,	60.0-120	0.400	97.5	%	
Surrogate: a,a,a-TFT (FID)	"	"	,,	50.0-150		88.5	<i>n</i>	
Surrogate: 4-BFB (PID)	"	,,	,,	60.0-120		95.5	"	
Surrogate: a,a,a-TFT (PID)	**	"	,,	50.0-150		70.7	"	
Surroguie. u,u,u-111 (11D)				30.0-130		7.07.7		
<u>D-3@2'</u>			B8097	<u>75-03</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	1080422	10/12/98	10/12/98		20.0	30.1	mg/kg dry	
Benzene	**		н		0.200	0.294	11	
Toluene	**	0	н		0.200	2.23	n	
Ethylbenzene	"	n	11		0.200	0.423	11	
Xylenes (total)	н	"	**		0.400	3.44	D	
Surrogate: 4-BFB (FID)	,,	"	n	60.0-120		115	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		97.3	"	
Surrogate: 4-BFB (PID)	"	"	n	60.0-120		97.3	"	
Surrogate: a,a,a-TFT (PID)	n	**	"	50.0-150		71.6	"	
<u>D-4@2'</u>			B8097	75-04			Soil	
Gasoline Range Hydrocarbons	1080422	10/12/98	10/13/98	<del></del>	5.00	ND	mg/kg dry	
Benzene	"	H	10,13770		0.0500	ND	"	
Toluene	n	H	н		0.0500	0.0728	H	
Ethylbenzene	н	11	н		0.0500	ND	n	
Xylenes (total)	11	н	н		0.100	ND	11:	
Ay iones (total)					0.100	ND		

North Creek Analytical - Bothell





Secor-California

9912 Business Park Dr #100

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 Project:
 Chevron #9-6489, #4548274
 Sampled:
 9/29/98

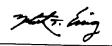
 Project Number:
 7G007-037-01
 Received:
 9/30/98

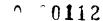
Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 10/15/98 16:10

# Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
D-4@2' (continued)			B8097	<u>75-04</u>			<u>Soil</u>	
Surrogate: 4-BFB (FID)	1080422	10/12/98	10/13/98	60.0-120		87.4	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		64.2	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		90.3	"	
Surrogate: a,a,a-TFT (PID)	"	"	n	50.0-150		<b>63</b> .7	"	
Methanol Blank			B8097	<u>75-06</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	1080422	10/12/98	10/13/98		5.00	ND	mg/kg dry	
Benzene	**	D	"		0.0500	ND	n	
Toluene	11	n	U		0.0500	ND	•	
Ethylbenzene	tt	11	11		0.0500	ND	n	
Xylenes (total)	U	n .	17		0.100	ND	17	
Surrogate: 4-BFB (FID)	· "	"	n	60.0-120		89.2	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		<i>68.7</i>	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		95.4	"	
Surrogate: a,a,a-TFT (PID)	"	"	n	50.0-150		71.2	n	

North Creek Analytical - Bothell



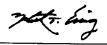


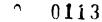


Secor-CaliforniaProject:Chevron #9-6489, #4548274Sampled:9/29/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/30/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:10/15/98 16:10

# Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
D-1@2'			B8097	<u>75-01</u>			Soil	
Lead	1080435	10/12/98	10/14/98	EPA 6020	0.500	19.6	mg/kg dry	
D-2@2'			B8097'	75-02			<u>Soil</u>	
Lead	1080435	10/12/98	10/14/98	EPA 6020	0.500	31.2	mg/kg dry	
D-3@2'			<u>B8097</u>	<u>75-03</u>			Soil	
Lead	1080435	10/12/98	10/14/98	EPA 6020	0.500	26.2	mg/kg dry	
D-4@2'			B8097	<u>75-04</u>			<u>Soil</u>	
Lead	1080435	10/12/98	10/14/98	EPA 6020	0.500	7.12	mg/kg dry	







Project: Chevron #9-6489, #4548274 Secor-California Sampled: 9/29/98

9912 Business Park Dr #100 Project Number: 7G007-037-01 Received: 9/30/98 Sacramento, CA 95827 Project Manager: Roger Hoffmore 10/15/98 16:10 Reported:

## **Dry Weight Determination** North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Resu	alt Units
D-1@2'	B809775-01	Soil	92	2 %
D-2@2'	B809775-02	Soil	92	6 %
D-3@2'	B809775-03	Soil	92	5 %
D-4@2'	B809775-04	Soil	95	6.6 %
Methanol Blank	B809775-06	Soil	10	00 %

DDD

DDD



Data

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Depositing Limit Descri

 Secor-California
 Project:
 Chevron #9-6489, #4548274
 Sampled:
 9/29/98

 9912 Business Park Dr #100
 Project Number:
 7G007-037-01
 Received:
 9/30/98

Calles

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 10/15/98 16:10

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# Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B/Quality Control North Creek Analytical - Bothell

 $\alpha$ 

	Date	Spike	Sample	QC	F	Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 1080422	Date Prepa	red: 10/12	/98		Extraction	on Method: EP	A 5030B	(P/T)		
Blank	1080422-B		<u>.</u>							
Gasoline Range Hydrocarbons	10/13/98			ND	mg/kg dr	y 5.00				
Benzene	"			ND	"	0.0500				
Toluene	n			ND	n	0.0500				
Ethylbenzene	ri .			ND	n	0.0500				
Xylenes (total)				ND	"	0.100				
Surrogate: 4-BFB (FID)	<i>"</i>	2.40	-	2.58	,,	60.0-120	107			
Surrogate: a,a,a-TFT (FID)	"	2.40		2.04	"	50.0-150	85.0			
Surrogate: 4-BFB (PID)	"	2.40		2.44	"	60.0-120	102			
Surrogate: a,a,a-TFT (PID)	n	2.40		1.87	"	50.0-150	77.9			
LCS	1080422-BS	<u>S1</u>								
Gasoline Range Hydrocarbons	10/13/98	25.0		22.3	mg/kg dr	y 60.0-120	89.2			
Surrogate: 4-BFB (FID)	"	2.40		2.56	"	60.0-120	107			
LCS Dup	1080422-BS	SD1								
Gasoline Range Hydrocarbons	10/13/98	25.0		26.2	mg/kg dr	y 60.0-120	105	20.0	16.3	
Surrogate: 4-BFB (FID)	"	2.40		2.60	"	60.0-120	108			
Matrix Spike	<u>1080422-M</u>	<u> S1   B</u>	809775-01							
Benzene	10/13/98	0.238	ND	0.249	mg/kg dr	y 60.0-120	105			
Toluene	n	0.238	0.0995	0.323	"	60.0-120	93.9			
Ethylbenzene	n	0.238	ND	0.239	11	60.0-120	100			
Xylenes (total)		0.713	0.227	0.899	"	60.0-120	94.2			
Surrogate: 4-BFB (PID)	"	1.14		1.18	"	60.0-120	104			
Matrix Spike Dup	1080422-M	SD1 B	809775-01							
Benzene	10/13/98	0.238	ND	0.250	mg/kg dr	y 60.0-120	105	20.0	0	
Toluene	"	0.238	0.0995	0.322	н	60.0-120	93.5	20.0	0.427	
Ethylbenzene	**	0.238	ND	0.241	**	60.0-120	101	20.0	0.995	
Xylenes (total)	н	0.713	0.227	0.902	H	60.0-120	94.7	20.0	0.529	
Surrogate: 4-BFB (PID)	"	1.14		1.16	"	60.0-120	102			

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9912 Business Park Dr #100

~ ~0115

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Received: 9/30/98

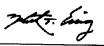
Project: Chevron #9-6489, #4548274 Sampled: 9/29/98

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 10/15/98 16:10

Project Number: 7G007-037-01

# Total Metals by EPA 6000/7000 Series Methods/Quality Control North Creek Analytical - Bothell

1	Date	Spike	Sample	QC	F	Reporting Limit	Recov.	RPD	RPD
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% Notes*
Batch: 1080435 Blank	<u>Date Prepar</u> 1080435-BL		<u>/98</u>		<u>Extracti</u>	on Method: EPA	3050B		
Lead	10/14/98			ND	mg/kg di	y <b>0.500</b>			
LCS Lead	<u>1080435-BS</u> 10/14/98	<b>1</b> 25.0		25.0	mg/kg di	ry 80.0-120	100		
<u>Duplicate</u> Lead	1080435-DU 10/14/98	<u>P1 B8</u>	810044-02 2.26	2.15	mg/kg di	у		20.0	4.99
<u>Matrix Spike</u> Lead	1080435-MS	27.8	810044-02 2.26	29.8	mg/kg dı	y 70.0-130	99.1		





0116

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Project: Chevron #9-6489, #4548274 Sampled: 9/29/98

9912 Business Park Dr #100 Project Number: 7G007-037-01 Received: 9/30/98

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 10/15/98 16:10

#### Notes and Definitions

# Note

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

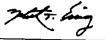
NR Not Reported

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dry Sample results reported on a dry weight basis

Recov. Recovery

RPD Relative Percent Difference



Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591			SK Hine Jess Ph.	12-03:7-0 17., Anchorage 12-03:7-0 17. Anchorage 12-03:7-0 17. Anchorage 12-03:7-0 18-03:00 1	15 Mey ducha	12 198 / 188	*	Chevron Contact Laboratory Name Laboratory Assess Samples Collector Collection Date	to t		Chain-o	12-01-CU	Lerry 1	Shain-of-Custody-Record  Street Analytica  1548274  Roger Hollmore
THE Sample Number of Containers	Matrix  S = Soil A = Air  W = Water C = Charcoal  Type C = Composite  C = Composite	emit	Sample Preservation	BIEX + JIPH CAS	(2108 + 0208)   laesi0 HqT (2108)	04 betonhold)	Hon Chlohnated HC (8020)	o   Metals	(AA 00 (ADI))	(1017K) CBO (AK101) 1 g g g g g g g g g g g g g g g g g g	880,477	28 97 75 - 01 - 02 - 03 - 03 - 04 - 06 - 05 - 06 - 06 - 06 - 06 - 07 - 07 - 07 - 07 - 07 - 07 - 07 - 07		Romarks.
Relinquished By (Signature)  Relinquished By (Signature)  Relinquished By (Signature)		Organization SECR Jai Organization Organization	Date, Time Date, Time Date, Time	Received Recleved Recleved	By (Signature)		Signoture)	Organization ASATI	720	17 (20 / 17 / 17 / 17 / 17 / 17 / 17 / 17 / 1	55m	Turn Around Time (Circle 24 Pire. 48 Hrz. 5 Doys As Contracted	24 Hz.  24 Hz.  5 Days  10 Days  As Contracted	0117



Secor-CaliforniaProject:Chevron #9-6489Sampled:9/22/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/23/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/25/98 14:09

# **ANALYTICAL REPORT FOR SAMPLES:**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
SP-1	B809576-01	Soil	9/22/98
SP-2	B809576-02	Soil	9/22/98
SP-3	B809576-03	Soil	9/22/98
SP-4	B809576-04	Soil	9/22/98
SP-5	B809576-05	Soil	9/22/98
SP-6	B809576-06	Soil	9/22/98
SP-7	B809576-07	Soil	9/22/98
SP-8	B809576-08	Soil	9/22/98
SP-9	B809576-09	Soil	9/22/98
SP-10	B809576-10	Soil	9/22/98
SP-11	B809576-11	Soil	9/22/98
SP-12	B809576-12	Soil	9/22/98
SP-13	B809576-13	Soil	9/22/98
SP-14	B809576-14	Soil	9/22/98
Methanol TB	B809576-15	Soil	9/22/98
Eq B-1	B809576-16	Water	9/22/98
Dup-I	B809576-17	Soil	9/22/98
Dup-2	B809576-18	Soil	9/22/98

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The results in this report apply to the samples analyzed in accordance with the chain of custody document.

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Secor-CaliforniaProject:Chevron #9-6489Sampled:9/22/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/23/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/25/98 14:09

# Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting	<del> </del>		
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
		-						
<u>SP-1</u>			B8095	<u>76-01</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	**	**	n		0.0500	ND	"	
Toluene	n	"	"		0.0500	ND	**	
Ethylbenzene	н	"	**		0.0500	ND	11	
Xylenes (total)	**	"	H		0.100	ND	н	
Surrogate: 4-BFB (FID)	"	"	"	60.0-120		125	%	1
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		<b>82</b> .7	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		121	"	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		7 <b>6</b> .7	"	
<u>SP-2</u>			B8095	76-02			Soil	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98	<del>/ 0 0 2</del>	5.00	ND	mg/kg dry	
Benzene	"	)/ 23/ ) G	11		0.0500	ND	"	
Toluene	11	н	**		0.0500	ND	"	
Ethylbenzene	n	H	н		0.0500	ND	**	
•	,,	**	н		0.100	ND	**	
Xylenes (total)	"		"	60.0-120	0.100	117	%	
Surrogate: 4-BFB (FID)	"	"	,,	50.0-150		81.7	"	
Surrogate: a,a,a-TFT (FID)	"	,,	,,	50.0-130 60.0-120		117	"	
Surrogate: 4-BFB (PID)	"	,,	"	50.0-150		77.1	"	
Surrogate: a,a,a-TFT (PID)				30.0-130		//.1		
<u>SP-3</u>			B8095	<u>76-03</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	**	**	n		0.0500	ND		
Toluene	**	11	**		0.0500	ND	U	
Ethylbenzene	**	n	**		0.0500	ND	11	
Xylenes (total)		11	**		0.100	ND	н	
Surrogate: 4-BFB (FID)	"	,	<b>"</b>	60.0-120		129	%	<i>I</i>
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		80.2	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		129	"	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		76.2	"	-
<u>SP-4</u>			B8095	76-04			Soil	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98	, U-U-T	5.00	ND	mg/kg dry	
Benzene	11	9/23/90	7/24/30		0.0500	ND ND	mg/kg dry	
Toluene	н	0	н		0.0500	ND	"	
	,,	11	11				11	
Ethylbenzene	"		16		0.0500	ND		
Xylenes (total)	**	**			0.100	ND		



<sup>\*</sup>Refer to end of report for text of notes and definitions.

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Secor-CaliforniaProject:Chevron #9-6489Sampled:9/22/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/23/98

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 9/25/98 14:09

## Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
					-			
SP-4 (continued)			<u>B8095</u> ′	The state of the s			<u>Soil</u>	
Surrogate: 4-BFB (FID)	0980762	9/23/98	9/24/98	60.0-120		121	%	1
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		77.7	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		122	"	1
Surrogate: a,a,a-TFT (PID)	"	"	#	50.0-150		75.6	n	
<u>SP-5</u>			B8095	<u>76-05</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	2
Benzene	**	n	••		0.0500	ND	н	
Toluene	н	n	**		0.0500	ND	**	
Ethylbenzene	"	n	**		0.0500	ND	н	
Xylenes (total)	н	"	"		0.100	ND	11	
Surrogate: 4-BFB (FID)	n ·	<i>"</i>	"	60.0-120		135	%	I
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		81.3	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		123	"	1
Surrogate: a,a,a-TFT (PID)	n	"	"	50.0-150		72.5	"	
SP-6			B8095	<u>76-06</u>			Soil	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	"	**	н		0.0500	ND		
Toluene	"	**	"		0.0500	ND		
Ethylbenzene	11	**	н		0.0500	ND	"	
Xylenes (total)	11	11	"		0.100	ND	"	
Surrogate: 4-BFB (FID)	"	"	,	60.0-120		135	%	1
Surrogate: a,a,a-TFT (FID)	n	"	"	50.0-150		<i>87.3</i>	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		131	"	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		80.6	"	
<u>SP-7</u>			B8095	7 <u>6-07</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	"	11	**		0.0500	ND	"	
Toluene	19	n	**		0.0500	ND	11	
Ethylbenzene	н	D.	It		0.0500	ND	н	
Xylenes (total)	n	0	**		0.100	ND	н	
Surrogate: 4-BFB (FID)	"	"	"	60.0-120		125	%	· · · · · · · · · · · · · · · · · · ·
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		79.2	"	•
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		125	n	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		75.6	"	4
Surroguie. a,a,a-IFI (FID)				50.0-150		75.0		

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\*Refer to end of report for text of notes and definitions.





Secor-CaliforniaProject:Chevron #9-6489Sampled:9/22/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/23/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/25/98 14:09

# Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
SP-8			B8095	76_08			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98	7000	5.00	ND	mg/kg dry	
Benzene	"	H	"		0.0500	ND	"	
Toluene			n		0.0500	ND	**	
Ethylbenzene	P	**	n		0.0500	ND	**	
Xylenes (total)	,,	11	**		0.100	ND	0	
Surrogate: 4-BFB (FID)	, , , , , , , , , , , , , , , , , ,	<i>"</i>	<i>"</i>	60.0-120		122	%	1
Surrogate: a,a,a-TFT (FID)	"	n	"	50.0-150		80.2	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		124	"	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		78.7	"	
			B000 =	<b>7</b> ( 00			C.:I	
<u>SP-9</u>	0000=10	0/02/00	B8095	<u>/6-09</u>	5.00	NID	Soil	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND ND	mg/kg dry "	
Benzene	"	,,	,,		0.0500	ND	n	
Toluene	"	"	"		0.0500	ND	 D	
Ethylbenzene			"		0.0500	ND		
Xylenes (total)		"			0.100	ND		
Surrogate: 4-BFB (FID)	"	"	"	60.0-120		135	%	1
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		79.3	"	_
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		133		1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		74.8	"	
SP-10			B8095	76- <u>10</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	"	n			0.0500	ND	н —	
Toluene	"	u·	v		0.0500	ND	н	
Ethylbenzene	"	"	•		0.0500	ND	**	
Xylenes (total)	"		•		0.100	ND		
Surrogate: 4-BFB (FID)	<i>n</i>	"	ń	60.0-120		125	%	Ì
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		7 <b>9</b> .9	"	
Surrogate: 4-BFB (PID)	"	n	"	60.0-120		122	"	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		75.9	n	
SP-11			<u>B8095</u>	76-11			Soil	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98	<u>/ 0-11</u>	5.00	ND	mg/kg dry	
_ ,	U70U/UZ "	9/23/90	9/24/90		0.0500	ND ND	mg/kg dry	
Benzene	**	"	"		0.0500	ND ND	11	
Toluene		"	"				**	
Ethylbenzene		,,	,,		0.0500	ND	,,	
Xylenes (total)	"	"	"		0.100	ND		

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Secor-CaliforniaProject:Chevron #9-6489Sampled:9/22/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/23/98

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 9/25/98 14:09

# Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
SP-11 (continued)			B8095				<u>Soil</u>	
Surrogate: 4-BFB (FID)	0980762	9/23/98	9/24/98	60.0-120		127	%	1
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		79.4	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		125	"	I
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		75.6	"	
<u>SP-12</u>			B8095	<u>76-12</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	н	10	н		0.0500	ND	**	
Toluene	и	"	11		0.0500	ND	n	
Ethylbenzene	11	н	**		0.0500	ND	n	
Xylenes (total)	**	n	**		0.100	0.100	н	
Surrogate: 4-BFB (FID)	"	"	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	60.0-120		152	%	1
Surrogate: a,a,a-TFT (F1D)	"	"	"	50.0-150		83.9	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		140	"	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		80.1	"	
SP-13			B8095	<u>76-13</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	н	**	74		0.0500	ND	n .	
Toluene	н	**	**		0.0500	ND	11	
Ethylbenzene	n	**	**		0.0500	ND	n	
Xylenes (total)	n	**	n		0.100	ND	11	
Surrogate: 4-BFB (FID)	,,	"	· "	60.0-120		137	%	1
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		81.8	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		139	"	1
Surrogate: a,a,a-TFT (PID)	"	"	**	50.0-150		80.0	"	
SP-14			B8095	76-14			Soil	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	11	н	н		0.0500	ND	H	
Toluene	**	н	11		0.0500	ND	"	
Ethylbenzene	**	н	11		0.0500	ND	11	
Xylenes (total)	n	11	H		0.100	ND	11	
Surrogate: 4-BFB (FID)	"	"	"	60.0-120		110	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		74.9	"	
Surrogate: 4-BFB (PID)	"	n	"	60.0-120		118	"	
Surrogate: a,a,a-TFT (PID)	"	n	"	50.0-150		76.2	"	
Sm. 10guic. u,u,u-11 1 (1112)						*		

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.



^ 10123

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Secor-CaliforniaProject:Chevron #9-6489Sampled:9/22/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/23/98

Sacramento, CA 95827 Project Manager: Roger Hoffmore Reported: 9/25/98 14:09

## Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			<u> </u>
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
Methanol TB			<u>B8095</u> ′	<u>76-15</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	**	"	**		0.0500	ND	"	
Toluene	11	н	**		0.0500	ND	"	
Ethylbenzene	н	H	**		0.0500	ND	H	
Xylenes (total)	н	11	"		0.100	ND		
Surrogate: 4-BFB (FID)	<b>,,</b>	"	**	60.0-120		116	%	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		84.6	"	
Surrogate: 4-BFB (PID)	"	"	"	60.0-120		120	"	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		82.9	"	
Ea B-1			<u>B8095</u>	76-16			<u>Water</u>	
Gasoline Range Hydrocarbons	0980737	9/23/98	9/24/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	11	
Toluene	**	**	11		0.500	ND		
Ethylbenzene	**	**	н		0.500	ND	**	
	,,	**	11		1.00	1.56	**	
Xylenes (total) Surrogate: 4-BFB (FID)	,,	<i>;</i> , ·	"	60.0-120	1.00	108	%	
_	,,	"	"	60.0-120		98.8	"	
Surrogate: 4-BFB (PID)				00.0-120		70.0		
Dup-1			B8095	<u>76-17</u>			Soil	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	11	н	**		0.0500	ND	11	
Toluene	**	н	"		0.0500	ND	H	
Ethylbenzene	11	"	II.		0.0500	ND	"	
Xylenes (total)	**	н	"		0.100	ND	"	
Surrogate: 4-BFB (FID)	,i		"	60.0-120		123	%	1
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		81.4	"	
Surrogate: 4-BFB (PID)	n	"	"	60.0-120		124	"	1
Surrogate: a,a,a-TFT (PID)	n	"	n	50.0-150		78.8	#	
Dup-2			<u>B8095</u>	76-18			Soil	
Gasoline Range Hydrocarbons	0980762	9/23/98	9/24/98	· · · · ·	5.00	ND	mg/kg dry	
Benzene Range Hydrocarbons	0980702	9/43/90	7/24/70		0.0500	ND	mg/kg dry	
Toluene	11	н	,,		0.0500	ND	н	
	"	н	0		0.0500	ND ND		
Ethylbenzene			,,				tt .	
Xylenes (total)	"	" "	,,	(0.0.130	0.100	ND		
Surrogate: 4-BFB (FID)				60.0-120		120	%	
Surrogate: a,a,a-TFT (F1D)	"	"	"	50.0-150		78.1	"	

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.



Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827

Project: Chevron #9-6489 Project Number:

Project Manager:

7G007-037-01 Roger Hoffmore

Sampled: 9/22/98 Received: 9/23/98

Reported: 9/25/98 14:09

# Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Dup-2 (continued)			B8095	76-18			Soil	
Surrogate: 4-BFB (PID)	0980762	9/23/98	9/24/98	60.0-120		126	%	1
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		80.3	"	

North Creek Analytical - Bothell

9/22/98

9/25/98 14:09



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Received: 9/23/98

Sampled:

Reported:

Secor-California Project: Chevron #9-6489
9912 Business Park Dr #100 Project Number: 7G007-037-01
Sacramento, CA 95827 Project Manager: Roger Hoffmore

# Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Batch Number	Date	Date	Specific Method	Reporting Limit	Result	Units	Notes*
Analyte	Number	Prepared	Analyzed	Method	Limit	Kesuit	Ollits	Notes
<u>SP-1</u>			<u>B8095</u>	<u>76-01</u>			<u>Soil</u>	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	12.3	mg/kg dry	
CD 1			B8095	76-02			Soil	
<u>SP-2</u> Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	5.88	mg/kg dry	
<u>SP-3</u>	0000551	0.10.2.10.0	B8095		0.500	<i>5</i> (0	Soil	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	5.69	mg/kg dry	
<u>SP-4</u>			B8095	<u>76-04</u>			<u>Soil</u>	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	5.86	mg/kg dry	
CD 5			B8095	76-05			<u>Soil</u>	
<u>SP-5</u> Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	18.7	mg/kg dry	
<u>SP-6</u>	0000751	0/22/08	B8095	76-06 EPA 6020	0.500	17.3	<u>Soil</u> mg/kg dry	
Lead	0980751	9/23/98	9/24/98	EPA 0020	0.500	17.3	mg/kg dry	
<u>SP-7</u>			B8095	<u>76-07</u>			Soil	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	15.7	mg/kg dry	
<u>SP-8</u>			B8095	76-08			<u>Soil</u>	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	22.1	mg/kg dry	
							0.11	
<u>SP-9</u>	0980751	9/23/98	<u>B8095</u> 9/24/98	<u>76-09</u> EPA 6020	0.500	8.03	<u>Soil</u> mg/kg dry	
Lead	0980731	7123170	3/2 <del>4</del> /30	LI A 0020	0.500	0.05	mg/kg dry	
<u>SP-10</u>			B8095				<u>Soil</u>	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	6.06	mg/kg dry	
SP-11			<u>B8095</u>	76-11			<u>Soil</u>	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	7.20	mg/kg dry	
							6.11	
SP-12 Lead	0980751	9/23/98	<u>B8095</u> 9/24/98	76-12 EPA 6020	0.500	4.71	<u>Soil</u> mg/kg dry	
Leau	0760731	9123190	7/24/70	LI A 0020	0.500	7./1	me ne ori	
<u>SP-13</u>			B8095				Soil	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	22.2	mg/kg dry	



<sup>\*</sup>Refer to end of report for text of notes and definitions.



Secor-CaliforniaProject:Chevron #9-6489Sampled:9/22/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/23/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/25/98 14:09

# Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
SP-14			B8095	76-14			<u>Soil</u>	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	6.70	mg/kg dry	
<u>Dup-1</u>			B8095	76-1 <u>7</u>			<u>Soil</u>	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	7.22	mg/kg dry	
Dup-2			B8095	<u>76-18</u>			Soil	
Lead	0980751	9/23/98	9/24/98	EPA 6020	0.500	6.40	mg/kg dry	





Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827 Project: Chevron #9-6489 Project Number: 7G007-037-01

Project Number: /G00/-03/-01 Project Manager: Roger Hoffmore Sampled: 9/22/98 Received: 9/23/98

Reported: 9/25/98 14:09

# Dry Weight Determination North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Result	Units
SP-1	B809576-01	Soil	95.1	%
SP-2	B809576-02	Soil	95.9	%
SP-3	B809576-03	Soil	96.1	%
SP-4	B809576-04	Soil	95.1	%
SP-5	B809576-05	Soil	94.4	%
SP-6	B809576-06	Soil	95.5	%
SP-7	B809576-07	Soil	94.6	o <sub>/o</sub>
SP-8	B809576-08	Soil	93.1	%
SP-9	B809576-09	Soil	95.1	%
SP-10	B809576-10	Soil	95.2	%
SP-11	B809576-11	Soil	95.4	%
SP-12	B809576-12	Soil	96.4	%
SP-13	B809576-13	Soil	105	%
SP-14	B809576-14	Soil	96.3	%
Methanol TB	B809576-15	Soil	100	%
Dup-1	B809576-17	Soil	88.7	%
Dup-2	B809576-18	Soil	94.9	%





Secor-CaliforniaProject:Chevron #9-6489Sampled:9/22/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/23/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/25/98 14:09

# Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Patab. 0090737	Date Prepa	rad. 0/23/6	10		Evtraat	ion Method: EP	4 5030B	(D/T)		
Batch: 0980737 Blank	0980737-BI		20		Extract	ion Method. Et	A JUJUD	(1/1)		
Gasoline Range Hydrocarbons	9/23/98	<u>1V1</u>		ND	ug/l	50.0				
Benzene	11 431 90			ND ND	ug/i	0.500				
Toluene	19			ND	"	0.500				
Ethylbenzene	н			ND	19	0.500				
Xylenes (total)	н			ND	11	1.00				
Surrogate: 4-BFB (FID)		48.0	•	49.0	,	60.0-120	102			
Surrogate: 4-BFB (PID)	"	48.0		49.9	"	60.0-120	104			
LCS	0980737-BS	81								
Gasoline Range Hydrocarbons	9/23/98	500		435	ug/l	60.0-120	87.0			
Surrogate: 4-BFB (FID)	"	48.0		58.2	"	60.0-120	121			3
LCS Dup	0980737-BS	SD1								
Gasoline Range Hydrocarbons	9/24/98	500		431	ug/l	60.0-120	86.2	20.0	0.924	
Surrogate: 4-BFB (FID)	"	48.0		56.6	"	60.0-120	118	*		
Matrix Spike	<u>0980737-M</u>	<u>S1</u> <u>B</u> 3	809331-02							
Benzene	9/23/98	10.0	ND	10.1	ug/l	60.0-120	101			
Toluene	**	10.0	ND	10.0	0	60.0-120	100			
Ethylbenzene	**	10.0	ND	9.58	**	60.0-120	95.8			
Xylenes (total)	11	30.0	ND	28.7		60.0-120	95.7			
Surrogate: 4-BFB (PID)	,,	48.0		52.5	n	60.0-120	109			
Matrix Spike Dup	<u>0980737-M</u>		809331-02							
Benzene	9/23/98	10.0	ND	10.1	ug/l	60.0-120	101	20.0	0	
Toluene	n	10.0	ND	9.96	"	60.0-120	99.6	20.0	0.401	
Ethylbenzene	н	10.0	ND	9.61	**	60.0-120	96.1	20.0	0.313	
Xylenes (total)	н	30.0	ND	28.8	.,	60.0-120	96.0	20.0	0.313	
Surrogate: 4-BFB (PID)	"	48.0		52.2	"	60.0-120	109			
Batch: 0980762	Date Prepa	red: 9/23/9	<u>98</u>		<u>Extract</u>	ion Method: EP	A 5030B	<u>(P/T)</u>		
<u>Blank</u>	<u>0980762-BI</u>	<u>.K1</u>								
Gasoline Range Hydrocarbons	9/24/98			ND	mg/kg d					
Benzene	н			ND	**	0.0500				
Toluene	*			ND	11	0.0500				
Ethylbenzene	н			ND	**	0.0500				
Xylenes (total)	н			ND	n	0.100				



<sup>\*</sup>Refer to end of report for text of notes and definitions.



Secor-California 9912 Business Park Dr #100 Project Number:

Project: Chevron #9-6489 7G007-037-01

Received: 9/23/98

Sampled: 9/22/98

Sacramento, CA 95827

Project Manager:

Roger Hoffmore

9/25/98 14:09 Reported:

# Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101 and EPA 8021B/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	Re	porting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
	0000000	. 121								
Blank (continued)	0980762-BJ			2.83	mg/kg dry	60.0-120	118			
Surrogate: 4-BFB (FID)	9/24/98	2.40			mg/kg ary	50.0-150	86.2			
Surrogate: a,a,a-TFT (FID)	"	2.40		2.07	,,	60.0-120	120			
Surrogate: 4-BFB (PID)		2.40		2.87	"					
Surrogate: a,a,a-TFT (PID)	"	2.40		1.96	,,	50.0-150	81.7			
LCS	0980762-B	<u>S1</u>								
Gasoline Range Hydrocarbons	9/24/98	25.0		22.9	mg/kg dry	60.0-120	91.6			
Surrogate: 4-BFB (FID)	"	2.40		3.23	,,	60.0-120	135			3
Surrogate: a,a,a-TFT (FID)	"	2.40		2.17	"	50.0-150	90.4			
LCS Dup	0980762-B	SD1								
Gasoline Range Hydrocarbons	9/24/98	25.0		23.2	mg/kg dry	60.0-120	92.8	20.0	1.30	
Surrogate: 4-BFB (FID)	<i>"</i>	2.40		3.14	. , ,	60.0-120	131			3
Surrogate: a,a,a-TFT (FID)	"	2.40		2.15	"	50.0-150	89.6			
Matrix Spike	0980762-M	<u> 1S1 B</u>	809576-08							
Benzene	9/24/98	0.247	ND	0.255	mg/kg dry	60.0-120	103			
Toluene	n	0.247	ND	0.248	"	60.0-120	100			
Ethylbenzene	•	0.247	ND	0.239		60.0-120	96.8			
Xylenes (total)	n	0.740	ND	0.747	"	60.0-120	101			
Surrogate: 4-BFB (PID)	'n	1.18		1.49	n	60.0-120	126			3
Surrogate: a,a,a-TFT (PID)	"	1.18		0.849	"	50.0-150	71.9			
Matrix Spike Dup	0980762 <u>-N</u>	<u> 1SD1 B</u>	809 <u>576-08</u>							
Benzene	9/24/98	0.247	ND	0.278	mg/kg dry	60.0-120	113	20.0	9.26	
Toluene	n	0.247	ND	0.271	,,	60.0-120	110	20.0	9.52	
Ethylbenzene	н	0.247	ND	0.259	n	60.0-120	105	20.0	8.13	
Xylenes (total)	n	0.740	ND	0.821	11	60.0-120	111	20.0	9.43	
Surrogate: 4-BFB (PID)	· · · <b>"</b>	1.18		1.51	· "-	60.0-120	128			3
Surrogate: a,a,a-TFT (PID)	"	1.18		0.894	"	50.0-150				

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.

Project Manager



Secor-California 9912 Business Park Dr #100 Sacramento, CA 95827 Project:
Project Number:

Chevron #9-6489

7G007-037-01

Project Manager: Roger Hoffmore

Sampled: 9/22/98

Received: 9/23/98

Reported: 9/25/98 14:09

# Total Metals by EPA 6000/7000 Series Methods/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% N	lotes*
Batch: 0980751	Date Prepar		<u>98</u>		Extract	ion Method: EP	<u>A 3050B</u>			
Blank Lead	<u>0980751-BL</u> 9/24/98	<u>.K1</u>		ND	mg/kg d	lry 0.500				
LCS Lead	<b>0980751-BS</b> 9/24/98	25.0		23.5	mg/kg d	lry 80.0-120	94.0			
<u>Duplicate</u> Lead	<b>0980751-DU</b> 9/24/98	J <u>P1 B</u>	<b>809576-14</b> 6.70	6.14	mg/kg d	lry		20.0	8.72	
Matrix Spike Lead	<b>0980751-M</b> 3	<u>S1</u> <u>B</u> 22.8	<b>809576-14</b> 6.70	27.2	mg/kg o	70.0-130	89.9			

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.



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Secor-CaliforniaProject:Chevron #9-6489Sampled:9/22/989912 Business Park Dr #100Project Number:7G007-037-01Received:9/23/98Sacramento, CA 95827Project Manager:Roger HoffmoreReported:9/25/98 14:09

### **Notes and Definitions**

#	Note
1	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
2	The chromatogram for this sample does not resemble a typical gasoline pattern. Please refer to the sample chromatogram.
3	The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical - Bothell

Chain-ot-Custody-Record	(Phone)	Laboratory Hamo librate Creek that will be the Hall with the Hall and the Hall and the hand had the hand had been a second to the had been a	Leboratory Release Number 63404.77	Samples Collected by (Name) Action (Method) Collection Date	Signature Date	Analyzes To Be Performed		H betor	boal in	noN (8) oboT	XX Kangs M. J. Shire ISX	2	73 1536175 4371	20		107	D(L		802	70/	1-11 Prap my ext	-26	1	<u> </u>	od Time (Circle Choice)	1/2/19 1/20/2950mt	lon Date/Time 10 2	ote/Time
	to Rd., hackorage, AK	1-0-1-	Supericis, CA 95827		(Fax Number) 316-364-1889			(2105) (2105) esse	X + 7F X + 7F 1 Discell 1 Disc	9318 08) Hqr 8)	65														Received By (Signature)	Markove	Rogerold By Blondlurgh	For Laboratory By
0917-0	Focility Address (24 Ripport Heights Ra	9	CS PKDr. #100	, Rover Hot	1		uo	esenci			In methona														Date/Time		Date/Time	tation Date/Time
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	Chevron U.S.A. Inc.	P.O. BOX 5004	Sun Ramon, CA 94583   EAY (415)847: 0501	FAX (413)842=			enen!	umber 	mple N		SP-1 7	SP-2 1	SP-3	Sp-4	SP-5	SP-6	56.7	SP-8	SP-9	58-10	1.35	35-72	- /	# SP-14   W	Relinquished By	12. 296 H	Relikquished By (Sig	Relinquished By (Signature)

Chain-of-Custody-Record Lurry Wallace 725-847-9083 h Creek Analytical 4548274 4548274 Asjan	Pring 2 of 2  -15  -16  -16  -16  -16	Turn Around Time (Circle Choice)  124 Hrs. 5 Doys 10 Doys As Contracted
1 1 m	(ICAP OF AA)	Dote/Time 1132/22sq
	A Total Load  Total Load  Wetals  Wetals  Cd.Cr.Pb.Zn.Wi	Organization  ABM Organization  By (Signature)
Just Ad, Anchorage Ak Inc.  Inc.  Co. Sacramants CH 95  wore  (For Number) 216.304-[889]	(8020 + 8015)  THY Diesel  (8015)  (8015)  (8015)  (8220)	Received By (Signature) Received By (Signature) Received For Laboratory By (S
9-6489 5007-03 12 100-14	Sample Preservation	Date/Time Receiped ACC
Chevron Facility Number Facility Address 12014  Consultant Project Number Address 7117 Bussiness  Project Contact (Name)  (Phone)	Time	Organization D SFWRInt/ 9 Organization D Organization D
00. Cor 93. Cor	Mortix  Motix  Motiv  M	By (Signature) By (Signature) By (Signature)
Chevron U.S.A. Ir P.O. BOX 5004 Sun Ramon, CA 945 FAX (415)842-95	Sample Mumber	Relinquished By (Signature) Relinquished By (Signature) Relinquished By (Signature)