

May 15, 1996 File No. 10-3002-84/003

Ms. Delight Saxton McGrath RentCorp 2500 Grant Avenue San Lorenzo, California 94580

SUBJECT: Final Report for McGrath RentCorp

2500 Grant Avenue San Lorenzo, California

Dear Ms. Saxton:

INTRODUCTION

Kleinfelder, Inc. (Kleinfelder) is pleased to provide you with this report which summarizes the initial environmental investigation, storm drain cleaning, drainage ditch sampling, and soil excavation at the storm drain outlet at the subject site. A site location map is included as Plate 1. This work was completed in accordance with our proposal dated January 29, 1996, and various add-authorizations signed in March through May 1996.

BACKGROUND

Kleinfelder understands McGrath RentCorp (McGrath) has been leasing the subject property for approximately eight years and is now planning to move to another area. The owner of the site contracted PHASE ONE Inc. to complete a Standard Phase I Environmental Site Assessment for the site. In the assessment report completed in December 1995, several environmental concerns were expressed. The areas of concern were 55 gallon drums, paint storage areas, and storm drain inlets in close proximity to these areas. Most of the drums were not labelled and the contents unknown. The owner of the site requested that McGrath address the concerns outlined in the Phase I report before vacating the site.

WORK OBJECTIVE AND SCOPE OF WORK

The objective of the work completed by Kleinfelder was to address the concerns outlined in Phase One Inc.'s report. To complete this objective, we first collected soil samples in close proximity to and beneath areas where drums and paint cans have been stored, and collected sludge samples from four storm drain inlets. After assessing the analytical results of that sampling, Kleinfelder recommended that the storm drain be cleaned to remove accumulated sludge, soil and water samples be collected from the manmade drainage ditch, and soils be excavated surrounding the storm drain outlet.

To meet these objectives the following tasks were completed:

- 1. A geophysical survey was completed at each sampling location;
- 2. A drilling permit was obtained from the Alameda County Flood Control and Water Conservation District Zone 7;
- A health and safety plan was prepared;
- Soil samples were collected from eight soil borings and from soil adjacent to abandoned drums. One water sample was collected from the storm drain outlet;
- 5. Sludge samples were collected from four storm drain inlets;
- 6. The storm drain was cleaned;
- Water and sludge samples derived from the storm drain cleaning were analyzed;
- 8. Soil and water samples from the manmade drainage ditch were sampled and analyzed;
- 9. Soil at the storm drain outlet was excavated and excavation confirmation samples were collected; and
- 10. This report was prepared summarizing the work completed to date with analytical results.

These tasks are further described in the following sections.

TASK 1 - SUBSURFACE INVESTIGATION

The subsurface investigation was comprised of several tasks including the geophysical survey, drilling of eight soil borings, and collection of four sludge samples. In addition, one surface soil sample was collected adjacent to four abandoned drums and one water sample was collected from standing water directly beneath the outfall of the storm drain outlet. The sampling locations are shown on Plate 2. These tasks are described below.

Geophysical Survey

Before performing on-site drilling, C.U. Surveys conducted a geophysical survey at each proposed boring location to identify underground utilities on February 14, 1996. C.U. Surveys used electro-magnetic instruments that are sensitive to conductive, inductive, and passive indicators up to depths of 15 feet. Two of the proposed locations were moved a few feet after the survey because the proposed sampling locations were not accessible due to underground utilities.

Drilling

On February 15, 1996, Gregg Drilling drilled eight soil borings (K-2 through K-9) using a SIMCO rig. The probe was hydraulically driven to depths of 2 to 4 feet and soils were sampled continuously. Soil types were noted in the field logs. Two soil samples were collected from each location; one just beneath the parking lot asphalt and baserock and one at first encountered native soil. The more shallow sample was submitted for analysis. The top 1.5 to 2.5 feet beneath the Q asphalt was red brown sandy clay fill material. Native dark gray or brown clay was encountered beneath the fill. Sample locations are shown on Plate 2.

Soil samples collected for chemical analysis were capped with Teflon and plastic end caps, labelled, and placed into iced storage before delivery to the laboratory under chain-of-custody control. Each borehole was backfilled with cement to surface grade.

Sampling Storm Drain Inlets

At the four storm drain inlets (CB-1, CB-2, CB-3, CB-4) closest to where McGrath works on their modular units, sludge samples were collected into glass containers provided by the laboratory. Sludge found at the bottom of the inlets contained dried paint, nails, electric tape, and other unidentifiable objects. Standing water in the four storm drain inlets also had visible oily sheens.

Water Sample Collection at Storm Drain Outlet

One water sample (K-1) was collected from water ponded directly beneath the storm drain outlet at the south end of the site. No soil sample could be collected because of vegetation. Water samples were collected by dipping a sample bottle into pooled water.

Soil Sample Collection at Drums

At the southern end of the site, four empty 55-gallon drums were found abandoned along the railroad tracks. One drum was labelled as being Chevron motor oil; the other drums were not labelled. Of the four drums, three had large rusted holes or their tops missing. One soil sample (K-10) was collected between the drums by scraping the top two inches of soil off the ground and hand driving a brass sample tube into undisturbed soil.

Chemical Analysis

In the subsurface investigation task, nine soil samples, four sludge samples, and one water sample were submitted under chain-of-custody for analysis to McCampbell Analytical (McCampbell), a state certified analytical laboratory. Analyses were chosen based on the material safety data sheets of products stored and used on-site, which were provided to Kleinfelder by McGrath. The samples were analyzed by the following Environmental Agency (EPA) Methods:

- EPA Method 8270 for semi-volatile organic compounds;
- EPA Method 8015/8020 and 5030 for Total Petroleum Hydrocarbons quantified as gasoline (TPH-g); benzene, toluene, ethylbenzene, and xylenes (BTEX);

- Modified EPA Method 8015/3550 for TPH as diesel (TPH-d) and motor oil (TPH-mo), ethylene glycol, diethylene glycol, propanol, and propanol;
- EPA Methods 6010 and 239.2 for lead, tin, and zinc; and
- pH by EPA Method 150.1.

The soil sample collected beneath the four empty drums was analyzed only for semi-volatile compounds, TPH-d and TPH-mo. After receipt of preliminary analytical data, two storm drain inlet samples (CB-1, CB-3) were collected and analyzed for zinc by the Total Threshold Limit Concentration (TTLC) methodology. These samples contained elevated concentrations of zinc and were therefore additionally analyzed using the soluble threshold limit concentration (STLC) extraction method. The laboratory report and Chain-of-Custody forms are attached in Appendix A.

Analytical Results

Analytical results show that of the organic compounds, only a few soil samples contained detectable organic compounds. TPH-g was detected in two of the nine soil samples at concentrations of 1.5 milligrams per kilogram (mg/kg) at boring K-10 and 2.4 mg/kg at boring K-3. The laboratory noted that the chromatograms of the soil and sludge samples did not match a typical TPH-g standard (see Table 1 for explanation). TPH-d, TPH-mo, and di-n-butyl phthalate were detected in the soil sample (K-10) collected from the drum area at concentrations of 1.1 mg/kg, 5 mg/kg, and 0.977 mg/kg, respectively. Toluene was detected at a concentration of 0.57 micrograms per liter ($\mu\gamma/\Lambda$), which is just above the method detection limit, in the water sample (K-1) collected. These concentrations are of no environmental concern.

TPH-g was detected in the four sludge samples at concentrations ranging from 9.2 mg/kg to 440 mg/kg. BTEX compounds were detected in all four sludge samples at concentrations ranging from 0.014-2.2 mg/kg. Two of the semi-volatile compounds were also detected in one of the sludge (CB-2) samples.

Lead was detected in the soil, water, and sludge samples at concentrations commonly considered background for native soils from the Bay Area, and well below established United States EPA preliminary remediation goals (PRG) for soils in a residential setting. Tin was detected at low concentrations in two of the four sludge samples. Zinc was detected in the soil samples at moderate levels. Sludge samples, however, contained elevated levels of zinc, but below the residential PRG and California Code of Regulations (CCR) hazardous levels. The water sample collected from the storm drain outlet had zinc concentrations that exceeded the PRG for tap water, the California Maximum Contaminant Level (MCL) for drinking water, and State water quality objectives.

TASK 2 - STORM DRAIN CLEANING

On April 14 through 20, 1996, First Environmental Group, subcontracted by Kleinfelder, cleaned the storm drain at the western portion of the site. The section of the storm drain that was cleaned is shown on Plate 2. Sludge and debris in the storm drain was cleaned out by hydroblasting, with high pressure, water through an array of very small holes on a SputnickTM cleaning nozzle, a probe extended onto a water hose, and pushing and pulling the Sputnick through the storm drain. As the sludge was pushed out of the storm drain, a vacuum truck vacuumed the sludge, water, and other debris into a solid waste box. From the solid waste box, water was transferred into 6,500 gallon polyethylene storage tanks.

Approximately 29,000 gallons of water and 30 cubic yards of sludge were generated during the

cleaning of the storm drain. On April 30, 1996, samples of the water and sludge were collected for analysis at McCampbell. The water samples were collected from each tank by lowering a new disposable bailer into each of the five storage tanks (T- 1 through T-5) and decanting the water into sample bottles. These five samples were analyzed for zinc using EPA test method 6010. In addition, the five water samples were composited into one sample at the laboratory and analyzed for the following compounds:

- EPA Method (modified) 8015 for (TPH-g);
- EPA Method 8020 for BTEX;
- EPA Method 9010 for cyanide;
- EPA Method 420.1/9065 for phenolics; and
- EPA Method 6010 for arsenic, cadmium, copper, lead, mercury, nickel, selenium, silver, total chromium, and zinc.

Samples of the sludge were collected from the two rolloff bins (T-6 and T-7), each storing approximately 15 cubic yards of sludge. Sludge samples were collected using a pond sampler, an EPA-approved sampling device, consisting of a wide-mouth sample bottle attached to a flexible plastic pipe. The sampler was lowered into each tank to scoop sludge into sample bottles from the two ends of each tank. The two samples from each tank (T-6a and T-6b, T-7a and T-7b) were composited at the laboratory and were analyzed for zinc using EPA Method 6010.

The analytical results for Task 2 - Storm Drain Cleaning are listed in Table 3; the analytical report with chain-of-custody form is attached in Appendix A. Analytical results show that three of the five storage tanks contain zinc concentrations at or above the PRG level of 11 mg/L. The Oro Loma Sanitary District (OLSD) will accept water with zinc concentrations less than 3 mg/L into their sanitary sewer line; all the tanks exceed OLSD zinc concentrations. Concentrations of other metals and the TPH-g concentrations are within the acceptable levels for OLSD disposal. However, BTEX levels were higher in the composite water sample than the OLSD acceptable level (non-detect). Zinc concentrations in the sludge from the bins are below the CCR hazardous levels for TTLC (5,000 mg/kg) and STLC (250 mg/L).

TASK 3 - DRAINAGE DITCH AND EXCAVATION SAMPLING

Drainage Ditch Sampling

On March 29 and April 17, 1996, 6 soil samples and 2 water samples were collected from the manmade ditch which runs parallel to the fence approximately 8 feet north of the railroad tracks. Plate 2 shows the approximate sample locations. The samples were collected between 10 and 40 feet east and 10 and 20 feet west from the storm drain outfall in the ditch. Soil samples were collected by scraping off the top half inch of soil and hand driving the sample tube into the soil. The surface water samples were collected by lowering a sample container into the standing water in the drainage ditch. It should be noted that standing water was evident after precipitation onsite, and there was runoff to the ditch from the storm drain.

The drainage ditch samples were analyzed for TPH-g and BTEX using EPA Methods 8015/8020 and zinc using EPA Method 6010. TPH-g and BTEX were not detected in any of the soil samples above method detection limits. Only toluene was detected in one of the water (10E) samples at a concentration of 2.3 $\mu\gamma/\Lambda$. Zinc was detected in the soil samples at concentrations ranging from 69 mg/kg to 2,900 mg/kg. Table 4 lists the analytical results, and the analytical reports are attached in Appendix A.

Excavation Sampling

On May 7, 1996, a ten by ten foot area was excavated to an approximate depth of two feet at the storm drain outlet. Plate 2 shows the location of the excavation and Plate 3 shows the excavation outline and sampling locations. Two soil samples were collected from each sidewall and five were collected from the bottom of the excavation by hand driving a sample tube into the soil. In addition, two soil samples were collected from the excavated soil stockpiled in the bin. The two samples from each sidewall and stockpiled soil, as well as the five samples from the excavation bottom were composited at the laboratory so that one combined sample was analyzed for each sidewall, one combined sample was analyzed from the bottom, and one combined sample was analyzed from the stockpile (six composite samples total).

The six excavation samples were analyzed for zinc using EPA Method 6010. The stockpiled soil sample was also analyzed for TPH-g and BTEX using EPA Methods 8015/8020. The sidewall and bottom samples and the stockpiled soil had zinc concentrations ranging from 100 mg/kg to 260 mg/kg, well below PRG and TTLC levels. Analytical results are listed on Table 5. The laboratory report and chain-of-custody form is attached in Appendix A.

CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are derived from field observations, analytical results, and Kleinfelder's interpretation of regulations for acceptable levels of compounds.

Subsurface Investigation

Shallow soils collected from the drilled boreholes and from next to the drums do not appear to be significantly impacted, based on field observations and analytical results.

Sludge samples collected from the four storm drain inlets contained moderate levels of petroleum hydrocarbons and elevated levels of zinc; however, the STLC concentration of zinc in sludge samples CB-1 and CB-3, the samples with the highest zinc concentrations, did not exceed the California Code of Regulations (CCR)-STLC concentration.

The water sample collected at location K-1 contained toluene at $0.57~\mu\gamma/\Lambda$ and zinc at 35~mg/L. Screening these values against surface water quality goals identified zinc, but not toluene, as present at a concentration of potential concern. California's water quality objectives for zinc in inland surface waters and enclosed bays and estuaries vary with the hardness of the water. Nevertheless, the concentration in the sample from location K-1 exceeded these values. This indicates a potential for concern, but does not indicate that adverse effects are necessarily occurring, particularly considering that zinc is readily absorbed by clayey soils and organic matter, specifically in the vegetation found at the site [Alloway, B.J., 1990, Heavy Metals in Soils]. However, the source of the zinc has been removed by cleaning out the storm drain, and the area where the water sample was collected has been excavated.

Storm Drain Cleaning

The storm drain has been cleaned out. Kleinfelder has collected samples of the water and sludge that were generated during the cleaning of the storm drain and is in the process of collecting bids from subcontractors to treat or remove the water and sludge.

Manmade Drainage Ditch Sampling

Zinc concentrations in sediments from the drainage ditch in the eastward direction indicate an abrupt decrease from 1,200 mg/kg, 10 feet east of the storm drain outlet to 69 mg/kg, 40 feet east of the outlet. Zinc concentrations in sediments 10 feet and 20 feet west of the outlet were 1,400 mg/kg and 2,900 mg/kg, respectively. However, zinc concentrations in the water samples decreased from 0.27 mg/L at a 10 foot distance east from the outlet to 0.086 mg/L at the 20 foot distance from the outlet.

Zinc concentrations in the soils are well below PRG and TTLC concentrations. The zinc concentration in the water sample collected 10 feet west of the outlet is below the 11 mg/L PRG level for tap water, but appears to be above Regional Water Quality Control Board water goals for enclosed bays and estuaries and freshwater and aquatic life protection (from 0.049 to 0.095 mg/L). As noted earlier, standing water was only evident during periods of precipitation, and there was runoff to the ditch from the storm drain.

Excavation Sampling

Soil directly at the outfall of the storm drain has been removed. Residual concentrations of zinc are below PRG and TTLC levels. Kleinfelder is currently collecting bids for the removal of the excavated soil.

RECOMMENDATIONS

Kleinfelder recommends that the water, sludge, and soil stored at the site be disposed of as soon as possible.

Kleinfelder recommends that this report be sent to the following agencies:

Regional Water Quality Control Board 2101 Webster Street, 5th Floor Oakland, California 94612

Alameda County Department of Environmental Health
Hazardous Materials Division
80 Swan Way
Oakland, California 94612

Alameda County Flood Control Water Conservation District - Zone 7 5997 Parkside Drive Pleasanton, California 94588-5127

LIMITATIONS

This report was prepared in general accordance with the accepted standard of practice which exists in Northern California at the time the investigation was performed. It should be recognized that definition and evaluation of environmental conditions is a difficult and inexact art. Judgements leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies. If the Client wishes to reduce the uncertainty beyond the level associated with this study, Kleinfelder should be notified for additional consultation.

Our firm has prepared this report for the Client's exclusive use for this particular project and in accordance with generally accepted engineering practices within the area at the time of our investigation. No other representations, expressed or implied, and no warranty or guarantee is included or intended.

This report may be used only by the Client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both onsite and offsite) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the Client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

We appreciate having been of service to you. If you have any questions or comments, please call the undersigned at (510) 484-1700.

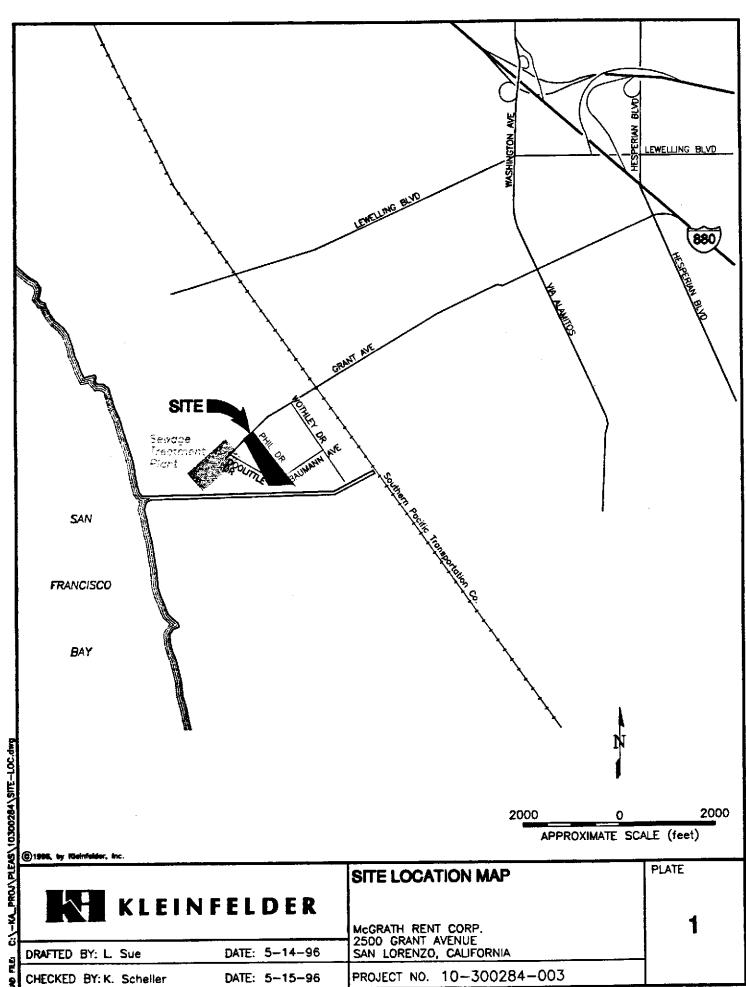
Sincerely,

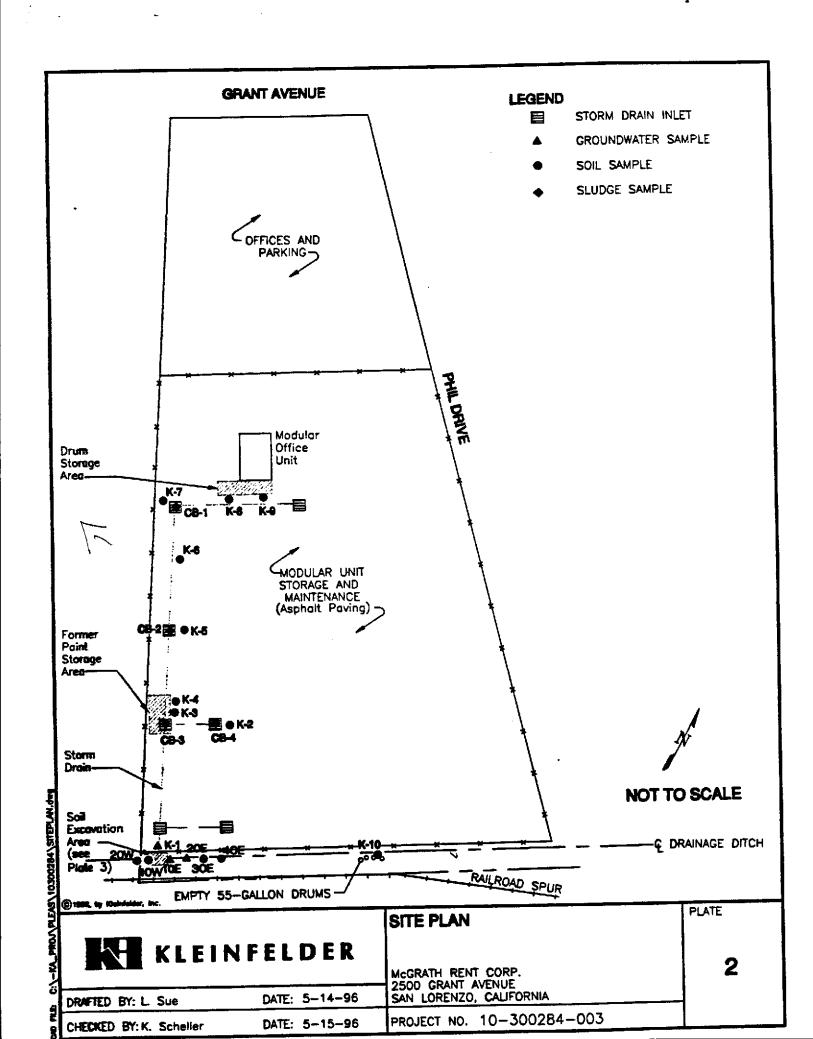
KLEINFELDER, INC.

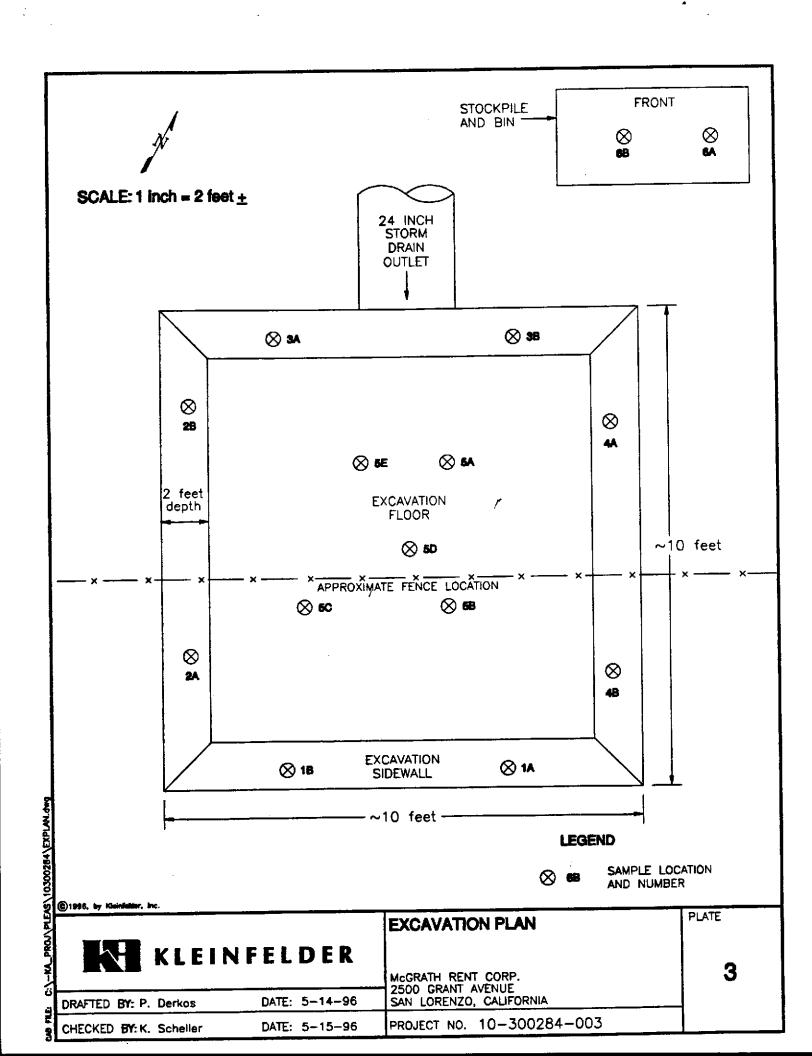
Alan D. Gibbs, R.G., R.E.A., C.H.G. Environmental Manager

ADG:ks

Attachments







TABLES

Table 1
Summary of Organic Analytical Results - Subsurface Investigation
February 15, 1996
McGrath Rent Corp.

Sample Location Units:	Sample Matrix Soil/Sludge Water	TPHg mg/kg µg/L	TPHd mg/kg µg/L	TPHmo mg/kg µg/L	Benzene μg/kg μg/L	Toluene µg/kg µg/L	Ethylbenzene μg/kg μg/L	Xylenes µg/kg µg/L	Ethylene Glycol mg/kg mg/L	Diethylene Glycol mg/kg mg/L	Propanal mg/kg mg/L	Propanol mg/kg mg/L	8270 mg/kg μg/L
K-1	Water	<50			<0.5	0.57	<0.5	<0.5	<1	<1	<1	<1	ND
K-2	Soil	<1			<5	<5	<5	<5	<1	<1	<1	<1	ND
K-3	Soil	2.4 (a)		••	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-4	Soil	<1			<5	<5	<5	<5	<1	<1	<1	<1	ND
K-5	Soil	<1			<5	<5	<5	<5	<1	<1	<1	<1	ND
K-6	Soil	<1		**	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-7	Soil	<1	_		<5	<5	<5	<5_	<1	<1	<1	<1	ND
K-8	Soil	<1		-	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-9	Soil	<1		••	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-10	Soil	1.5 (b)	1.1	5.0	<5	<5	<5	<5	<1	<1	<1	<1	0.977, e
CB-1	Sludge	130 (b,c)	****		190	110	290	1,400	<1	<1	<1	<1	ND
CB-2	Słudge	20 (a)			450	53	430	1,400	<1	<1	<1	<1	12 + 16, f
CB-3	Sludge	440 (d)			2,200	<5	<5	470	<1	<1	<1	<1	ND
CB-4	Sludge	9.2 (b)	-		110	14	36	120	<1	<1	<1	<1	ND

Notes:

TPH - Total petroleum hydrocarbons quantified as gasoline (g), diesel (d), and motor oil (mo).

mg/kg - Milligrams per kilogram, approximately equivalent to parts per million.

μg/kg - Micrograms per kilogram, approximately equivalent to parts per billion.

mg/L - Milligrams per liter, approximately equivalent to parts per million.

µg/L - Micrograms per kilogram, approximately equivalent to parts per billion.

ND - Not detected at or above laboratory reporting limits, which vary for the various EPA 8270 compounds. See laboratory sheets for each limit.

- a Strongly aged gasoline or diesel range compounds are significant.
- b Heavier gasoline range compounds are significant (aged gasoline?).
- c One to a few isolated peaks present.
- d TPH pattern that does not appear to be derived from gasoline (mineral spirits/stoddard solvent).
- e Di-n-butyl phthalate detected at 0.977 mg/kg.
- f Butyl benzyl phthalate detected at 12 mg/kg; bis(2-ethylhexyl) phthalate detected at 16 mg/kg.

Table 2
Summary of Metals and pH Analytical Results - Subsurface Investigation
February 15, 1996
McGrath Rent Corp.

Sample Locution Units:	Sample Matrix Soil/Sludge Water	Lead mg/kg mg/L	Tin mg/kg mg/L	Zinc (TTLC) mg/kg mg/L	Zinc (STLC) mg/kg mg/L	рH
K-1	Water	0,20	<0.10	35		7.33
K-2	Soil	16	<5.0	95	P-P	7.75
К-3	Soil	11	<5.0	94		7.89
K-4	Soil	11	<5.0	86		7.42
K-5	Soil	32	<5.0	100		10.53
K-6	Soil	9.2	<5.0	130	**	7.68
K-7	Soil	10	<5.0	88		7.6
K-8	Soil	5.4	<5.0	140		7.42
K-9	Soil	11	<5.0	170	_	7,34
CB-1	Sludge	21	6.8	2,700	110	7.31
CB-2	Sludge	38	10	1,300		7,50
CB-3	Sludge	4.5	<5.0	2,900	67	7.37
CB-4	Sludge	9.4	<5.0	470		7.60
TTLC (mg/kg)		1,000	none	5,000	-	<2 or >12.5
STLC (mg/L) Residential PRG (soi Tap Water PRG (mg		5 400 0,004	none 46,000 22	- 23,000 11	250 —	

Extract

Notes:

Soil and studge in milligrams per kilogram (mg/kg), similar to parts per million.

Water in milligrams per liter (mg/l), similar to parts per million.

TTLC - Total threshold limit concentration, California Code of Regulations (CCR) Title 22, Section 66261.

STLC - Soluble threshold limit concentration, 22 CCR 66261.

PRG - US EPA Region IX preliminary remediation goal for soil in a residential setting and for tap water.

Table 3 Analytical Results for Rinse Water and Sludge April 30, 1996 McGrath Rent Corp.

Sample	Sample				IN	IORGAI	VIC CON	APOUND	S				ORC	BANIC (OMPO	UND		
Location	Number	Arseni¢	Cadmium	Chromium	Copper	Lead	Nickel	Selenium	Silver	Zinc (TTLC)	Zinc (STLC)	Cyanide	Phenois	TPHg	В	T	E	X
Units:	Sludge	_ mg/L	– mg/L	<u> </u>	- mg/L	- mg/L	– mg/L	– mg/L	_ mg/L	mg/kg mg/L	mg/L 	— mg/L	 mg/L	 mg/L	_ μg/L	_ µg/L	_ μg/L	_ բ ց/ Ն
			my L	mg/L	mB.12	IIII	mig/E		1	31			ing to	шуь	py.	PB D	. he o	
Water Tank 1	TI	-	-	_	-		-		_	31		_	-	_	_	_	-	_
Water Tank 2	12		••			-		<u> </u>	_	11	-	-			-		-	_
Water Tank 3	T3	-			-	-	-	-	-	9.2	-	-	-	-	-		~	-
Water Tank 4	T4	-	-	-	-	-	-	-	-	28	-	-		-	_	-		
Water Tank 5	T5	-	-	-		-		-	-	9.9	_	_			-	**		-
Composite	T1 - T5	<0.005	<0.01	<0.025	0.045	<0.005	0.033	<0.005	<0.01	14	. -	<0.02	<0.05	1.3	26	98	45	300
Sludge Bin # 1	T6A-T6B	-		-		_	+4		-	3,800	63	-			_	_	-	-
Sludge Bin # 2	T7A-17B				_	-	_	_	-	4,500	79	_	_		_	-	-	_
OLSD Discharge	Limite	0.8	0.2	2.0	0.5	1.0	1.0	1.0	8.0	3.0	-	1.6	70	NA	ND	ND	ND	ND
FFLC (mg/kg)		500	100	500	2,500	1,000	2,000	100	508	5,000	-							
STLC (mg/L)		5	1		25	5	20	1	5	•••	250	N						

LEXTER CT

-- - Not analyzed for that constituent or parameter.

Studge in milligrams per kilogram (mg/kg), similar to parts per million

Weter in milligrams per liter (mg/l), similar to parts per million

TTLC - Total threshold limit concentration, California Code of Regulations (CCR) Title 22, Section 66261

STLC - Soluble threshold limit concentration, 22 CCR 66261

<0.01 Where the analyte was not detected, the laboratory reporting limit is shown

T1 - T5 Samples from each of the five tanks were composited for analysis by the laboratory

T6A-T6B / T7A-T7B Two samples of shudge were collected and composited for analysis by the laboratory

TPH - Total petroleum hydrocarbons quantified as gasoline (g).

B, T, E, X - Benzene, Toluene, Ethylbenzene, and Xylenes (gasoline constituents)

Table 4 Summary of Analytical Results - Man-Made Drainage Ditch March 29, 1996 and April 17, 1996 McGrath Rent Corp.

Sample Number	Sample Location Units:	Sample Matrix Soil Water	Zinc mg/kg mg/L	TPHg mg/kg ug/L	Benzene µg/kg /ug/L	Toluene µg/kg , üg/L	Ethylbengen µg/kg /ig/L	Xylenes µg/kg /t/g/L
10E 20E	10 feet East of outfall pipe 20 feet East of outfall pipe	Water Water	0.27 0.086	<50 <50	<0.5 <0.5	2.3 <0.5	<0.5 <0.5	<0.5 <0.5
20E 20W 10W	20 feet East of outfall pipe 20 feet West of outfall pipe 10 feet West of outfall pipe	Soil Soil Soil	270 2,900 1,400	<1.0 <1.0 <1.0	<5 <5 <5	<5 <5	<5 <5 <5	্ব ব্য
10E E30 E40	10 feet East of outfall pipe 30 feet East of outfall pipe 40 feet East of outfall pipe	Soil Soil Soil	1,200 100 69	<1.0 <1 <1	<5 <5 <5	ধ ধ ধ	্ < <	্ব ব্য
TTLC (m; STLC (m)	g/kg)		5,000 250 23,000	 	 	111	 	- - -

change to h

CEXTRACT

Notes:

mg/kg - Milligrams per kilogram, approximately equivalent to parts per million.

μg/kg - Micrograms per kilogram, approximately equivalent to parts per billion.

mg/L - Milligrams per liter, approximately equivalent to parts per million.

µg/L - Micrograms per kilogram, approximately equivalent to parts per billion.

TPH - Total petroleum hydrocarbons quantified as gasoline (g), diesel (d), and motor oil (mo).

TTLC - Total threshold limit concentration, California Code of Regulations (CCR) Title 22, Section 66261.

STLC - Soluble threshold limit concentration, 22 CCR 66261.

PRG - US EPA Region IX preliminary remediation goal for soil in a residential setting.

-- Sample not analyzed for that constituent or parameter.

<0.10 Where the analyte was not detected, the laboratory reporting limit is shown.

Table 5 Summary of Metals and pH Analytical Results - Excavation May 7, 1996 McGrath Rent Corp.

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Sample Location Units:	Sample Matrix	Sample Number	Zinc mg/kg	TPHg mg/kg	Benzene µg/kg	Toluene µg/kg	Ethylberizen jig/kg	Xylenes µg/kg
Excavation - South sidewall	Soil	Composite 1 (two-point)	260		+		**	
Excavation - West sidewall	Soil	Composite 2 (two-point)	100			-		
Excavation - North sidewall	Soil	Composite 3 (two-point)	230	-		-		
Excavation - East sidewall	Soil	Composite 4 (two-point)	260			-		**
Excavation - Floor	Soil	Composite 5 (five-point)	170				**	
Excavated Soils (Bin)	Soil	Composite 6 (two-point)	190	1.4	<5	5	<5	8
TTLC (mg/kg) STLC (mg/L) Residential PRG (soil) (mg/kg)			5,000 250 23,000	111	11	- 1 1	-	

Extract

Notes:

mg/kg - Milligrams per kilogram, approximately equivalent to parts per million.

µg/kg - Micrograms per kilogram, approximately equivalent to parts per billion.

TPH - Total petroleum hydrocarbons quantified as gasoline (g), diesel (d), and motor oil (mo).

TTLC - Total threshold limit concentration, California Code of Regulations (CCR) Title 22, Section 66261.

STLC - Soluble threshold limit concentration, 22 CCR 66261.

PRG - US EPA Region IX preliminary remediation goal for soil in a residential setting.

-- Sample not analyzed for that constituent or parameter.

<0.10 Where the analyte was not detected, the laboratory reporting limit is shown.

(four-point) - Four discreet samples were composited for analysis by the analytical laboratory.

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Kleinfelder		Client Pro	ject ID:#10	-3002-84/0	02	Date Samp	led: 02/15/	96			
7133 Koll Ce	nter Parkway, # 100					Date Recei	ved: 02/15/	/96			
Pleasanton, (CA 94566	Client Cor	ntact: Krister	n Scheller		Date Extracted: 02/16/96					
		Client P.O: R3283 Date Analyzed: 02/16-02/17/									
EPA methods 5		(C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX* 220 or 602; California RWQCB (SF Bay Region) method GCFID (5030)									
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate			
61507	K-9-1 96368	S	ND	ND	ND	ND	ND	108			
61509	K-8-1 96370	S	ND	ND	ND	ND	ND	104			
61512	K-7-1 96372	s	ND	ND	ND	ND	ND	105			
61513	CB-1 96376	Sludge	130,b,f	0.19	0.11	0.29	1.4	106			
61514	K-6-1 96378	S	ND	ND	ND	ND	ND	106			
61516	K-5-1 96380	S	ND	ND	ND	ND	ND	108			
61518	CB-2 96382	Sludge	20,a	0.45	0.053	0.43	1.4	95			
61519	K-3-1 96384	S	2.4,g	ND	ND	ND	ND	104			
61521	K-4-1.5 96386	S	ND	ND	ND	ND	ND	104			
61522	K-2-1 96387	S	ND	ND	ND	ND	ND	102			
61524	CB-3 96388	Sludge	440,e	2.2	ND	ND	0.47	112			
61525	CB-4 96392	Sludge	9.2,b	0.11	0.014	0.036	0.12	99			
61526	K-1 96396	w	ND	ND	0.57	ND	ND	99			
61527	K-10	Słudge	1.5,b	ND	ND	ND	ND	101			
Reporting	Limit unless other-	w	50 ug/L	0.5	0.5	0.5	0.5				
	; ND means not de- e the reporting limit	S,Sludge	1.0 mg/kg	0.005	0.005	0.005	0.005				

^{*} water and vapor samples are reported in ug/L, soil & sludge samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

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

Kleinfelder			roject ID: # 10-3002	2-84/002	Date Sampled:	02/15/96
7133 Koll C	enter Parkway, # 100		_		Date Received:	02/15/96
Pleasanton,	CA 94566	Client C	ontact: Kristen Sch	eller	Date Extracted:	02/16/96
		Client P.	O: R.3283		Date Analyzed:	02/17-02/20/9
EPA methods:	modified 8015, and 3550/3	510 or 5030	8015 Modified	*	<u></u>	
Lab ID	Client ID	Matrix	Ethylene Glycol	Diethylepe Glycol	Propanal*	Propanol
61507	K-9-1 96368	8	ND	ND	ND	ND
61509	K-8-1 96370	S	ND	ND	ND	ND
61512	K-7-1 96372	S	ND	ND	ND	ND
61513	CB-1 96376	Sludge	ND	ND	ND	ND
61514	K-6-1 96378	S	ND	ND	ND	ND
61516	K-5-1 96380	S	ND	ND	ND	ND
61518	CB-2 96382	Sludge	ND	ND	ND	ND
61519	K-3-1 96384	S	ND	ND	ND	ND
61521	K-4-1.5 96386	S	ND	מא	ND	ND
61522	K-2-1 96387	S	ND	ND	ND	ND
61524	CB-3 96388	Sludge	ND	ND	ND	ND
61525	CB-4 96392	Sludge	ND	ND	ND	ND
61526	K-1 96396	w	ND	ND	ND	ND
Reporting !	Limit unless other- ND means not de-	w	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
ected above	the reporting limit	S,Shudge	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg

^{*} water samples are reported in mg/L, soil & sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

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

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Kleinfelder		Client Proj	ect ID: # 10-3002-84/002	Date Sampled: 02	/15/96					
7133 Koli Cei	nter Parkway, # 100			Date Received: 0	2/15/96					
Pleasanton, C	CA 94566	Client Con	tact: Kristen Scheller	Date Extracted: 0	2/16/96					
		Client P.O	2/21/96							
			r Oil Range (> C18) Extractable Hydrocarbons as Diesel & Motor Oil 510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)							
Lat ID	Client ID	Matrix	TPH(d) ⁺	TPH(mo) ⁺	% Recovery Surrogate					
61527	K-10	Sludge	1.1,g	5.0	94					
	_									
•										
Reporting	Limit unless other-	w	50 ug/L	250 ug/L						
tected above	ND means not de- e the reporting limit	s	1.0 mg/kg	5.0 mg/kg						

^{*} water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

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

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

Kleinfelder		Clie	nt Project ID	:# 10-3002-84/0	002 Da	ate Sampled: 02/	15/96		
7133 Koll C	Center Parkway, # 1	00			Di	ate Received: 02	15/96		
Pleasanton	, CA 94566	Clie	nt Contact: K	Lristen Scheller	D	Date Extracted: 02/16/96			
		Clie	ent P.O: R328	3	D	ate Analyzed: 02	/20/96		
EPA analytic	al methods 6010/200.7, 2	39.2 ⁺	1	Metals*					
Lab ID	Client ID		Extraction	Lead	Tin	Zinc	% Rec. Surrogate		
61507	K-9-1 96368	S	TTLC	11	ND	170	107		
61509	K-8-1 96370	S	TTLC	5.4	ND	140	104		
61512	K-7-1 96372	S	TTLC	10	ND	88	105		
61513	CB-1 96376	Sludge	TTLC	21	6.8	2700	105		
61514	K-6-K 96378	s	TTLC	9.2	ND	130	107		
61516	K-5-1 96380	S	TTLC	32	ND	100	107		
61518	CB-2 96382	Sludge	TTLC	38	10	1300	108		
61519	K-3-1 96384	S	TTLC	11	ND	94	109		
61521	K-4-1.5 96386	S	TTLC	11	ND	86	105		
61522	K-2-1 96387	S	TTLC	16	ND	95	103		
61524	CB-3 96388	Sludge	TTLC	4.5	ND	2900	103		
61525	CB-4 96392	Sludge	TTLC	9.4	ND	470	107		
61526	K-1 96396	w	TTLC	0.20	ND	35	105		
	Limit unless otherwise	S,Sludge	TTLC	3.0 mg/kg	5.0	1.0			
	oneans not detected the reporting limit	w	TTLC	0.005 mg/L	0.10	0.01			
			STLC,TCLP	0.2	0.10	0.05			

^{*}soil & sludge samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

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

e EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC from CA Title

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

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

Kleinfelder	•	Clie	nt Project ID	: # 10-3002-84/002	Date Sampled: ()2/15/96	
7133 Koll C	Center Parkway, # 1	00			Date Received: 02/15/96		
Pleasanton	, CA 94566	Clie	nt Contact: K	Cristen Scheller	Date Extracted: 02/26-02/28/96		
		Clie	nt P.O; R328	3	Date Analyzed:	02/28/96	
EPA analytics	ıl methods 6010/200.7, 2	39.2 ⁺	Ī	Metals [*]			
Lab ID	Client ID		Extraction	Zinc		% Rec. Surrogate	
61513	CB-1 96376	Sludge	STLC	110		NA	
61524	CB-3 96388	Słudge	STLC	67		NA	
Reporting I	imit unless otherwise means not detected	S,Sludge	TTLC	1.0			
	he reporting limit	w	TTLC	0.01			
			STLC,TCLP	0.05			

^{*} soil & sludge samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

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

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

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

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

Kleinfelder Date Sampled: 02/15/96 Client Project ID: # 10-3002-84/002 7133 Koll Center Parkway, # 100 Date Received: 02/15/96 Pleasanton, CA 94566 Client Contact: Kristen Scheller Date Extracted: 02/19/96 Client P.O: R3283 Date Analyzed: 02/19/96 pН Analytical methods EPA 150.1, 9040, 9045 Lab ID Client ID Matrix pН 61507 K-9-1 96368 S 7.34 61509 K-8-1 96370 S 7.42 61512 K-7-1 96372 S 7.60 61513 CB-1 96376 7.31 Sludge 61514 K-6-1 96378 S 7.68 61516 K-5-1 96380 S 10.53 61518 CB-2 96382 7.50 Sludge 61519 K-3-1 96384 S 7.89 61521 K-4-1.5 96386 S 7.42 61522 K-2-1 96387 S 7.75 61524 CB-3 96388 Sludge 7.37 61525 CB-4 96392 Sludge 7.60 7.33 61526 K-1 96396 W Reporting Limit or Method Accuracy W ± 0.05 unless otherwise stated; ND means not detected above the report-± 0.1 S,Sludge ing limit; N/A means not applicable

______Edward Hamilton, Lab Director

 $-\log(a_{\rm H}^+)$

Reporting Units

W,S,Sludge

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/17/96

Matrix: Water

_	Concent	ration	(ug/L)	1	* Reco	very	
Analyte	Sample (#61428)	MS	MSD	Amount Spiked 	 Ms 	MSD	RPD
TPH (gas) Benzene	0.0	114.3	112.5	100	114	112	1.6
Toluene	0.0	10.0 10.4	10.0 10.4	10.0 10.0	100.0 104.0	100.0 104.0	0.0
Ethyl Benzene	0.0	10.5	10.6	10.0	105.0	106.0	0.9
Xylenes	0.0	32.2	32.2	30.0	107.3	107.3	0.0
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	n/a
TRPH (oil & grease)	0	22300	24700	23700	94	104	10.2

% Rec. = (MS - Sample) / amount spiked x 100

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/17/96-02/20/96 Matrix: Soil/Water

	Concenti	ation	(ug/L)	[& Reco	very	
Analyte	Sample			Amount			RPD
	(#61570) 	MS	MSD	Spiked	MS	MSD	
TPH (gas)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylene Glycol	0	317	282	300	106	94	11.7
TRPH (oil & grease)	N/A	N/A	N/A	N/A	 N/A 	N/A	N/A

* Rec. = (MS - Sample) / amount spiked x 100

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/16/96-02/17/96 Matrix: Soil

	Concent	ration	(mg/kg)	J	* Reco	very	· -
Analyte	Sample (#59994) 	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	2.036	1.896	2.03	100	93	7.1
Benzene	0.000	0.182	0.176	0.2	91	88	3.4
Toluene	0.000	0.210	0.202	0.2	105	101	3.9
Ethylbenzene	0.000	0.196	0.190	0.2	98	95	3.1
Xylenes	0.000 	0.618	0.602	0.6 	103	100	2.6
TPH (diesel)	0	322	301	300	107	100	6.7
TRPH	0.0	20.7	22.1	20.8	100	106	6.5

% Rec. = (MS - Sample) / amount spiked \times 100

QC REPORT FOR HYDROCARBON ANALYSES

Date:

02/21/96

Matrix: Soil

	Concent	ration	(mg/kg)	1	* Reco	very	
Analyte	Sample (#61109)	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	1.855	1.982	2.03	91	98	6.7
Benzene	0.000	0.160	0.158	0.2	80	79	1.3
Toluene	0.000	0.182	0.178	0.2	91	89	2.2
Ethylbenzene	0.000	0.188	0.194	0.2	94	97	3.1
Xylenes	0.000	0.572	0.576	0.6	95	96	0.7
TPH (diesel)	0	323	323	300	108	108	0.0
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. * (MS - Sample) / amount spiked \times 100

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QC REPORT FOR AA METALS

Date: 02/20/96

Matrix: Soil

	Concent:	ration		1	* Reco	very	
Analyte	(mg	g/kg,mg/	L)	Amount			RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0.0	5.2	5.4	5.0	104	108	3.7
Total Tin	j 0.0	10.2	10.7	10.0	102	107	4.6
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	0.0	5.4	5.6	5.0	108	112	3.6
Total Copper	N/A	N/A	n/a	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Rec. = (MS - Sample) / amount spiked x 100

QC REPORT FOR AA METALS

Date: 02/20/96

Matrix: Water

	Concent	ration	(mg/L)]	& Reco	very	
Analyte	 Sample	MS	MSD	Amount 	MS	MSD	RPD
Total Lead	0.00	5.11	5.21	5.00	102	104	2.0
Total Tin Total Chromium	0.00 N/A	9.73 N/A	10.02 N/A	10.00 N/A	97 N/A	100 N/A	3.0 N/A
Total Nickel Total Zinc	N/A 0.00	N/A 5.27	N/A 5.42	N/A 5.00	N/A 105	N/A 108	N/A 2.7
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. * (MS - Sample) / amount spiked x 100

QC REPORT FOR AA METALS

Date: 02/28/96

Matrix: STLC

	Concent	ration	,		* Reco	very	
Analyte	(mg	g/kg,mg/	L)	Amount	•	_	RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	0.0	5.4	5.3	5.0	107	106	1.4
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked \times 100

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: CB-4

Sample #: 118406 Matrix: SOIL Extracted: February 20, 1996
Sampled: February 15, 1996 Run: 10479-A Analyzed: February 23, 1996

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
Analyte PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE O-METHYLPHENOL BIS (2-CHLOROISOPROPYL) ETHER M+D-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,2,4-FRICHLOROPHENOL 2,2-CHLORONAPHTHALENE 2-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHENE 2,1-DINITROPHENOL 4-DINITROPHENOL 4-NITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE	(ma/Ka)	(mg/Kg)		(%)
PHENOL	N.D.	10	MUNICATION OF THE PROPERTY OF	- -
BIS (2-CHLOROETHYL) ETHER	N.D.	īŏ	N.D.	- -
2-CHLOROPHENOL	N.D.	īŏ	N.D.	81
1.3-DICHLOROBENZENE	N.D.	ĨÔ	N.D.	
1.4-DICHLOROBENZENE	N.D.	10	N.D.	
BÉNZYL ALCOHOL	N.D.	20	N.D.	
1,2-DICHLOROBENZENE	N.D.	10	N.D.	
o-METHYLPHENOL	N.D.	10	N.D.	
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	10	N.D.	
m+p-METHYLPHENOL	N.D.	20	N.D.	
N-NITROSO-DI-N-PROPYLAMINE	N.D.	10	й·Б·	73
HEXACHLOROETHANE	N.D.	10	N.D.	- -
NITROBENZENE	N.D.	10	й.Б.	
ISOPHORONE	$\underline{\mathbf{N}}.\underline{\mathbf{D}}.$	10	N.D.	- -
2-NITROPHENOL	N.D.	10	й.Б.	
2,4-DIMETHYLPHENOL	Ñ.Ď.	ŤÕ	й·Б.	
BIS (2-CHLOROETHOXY) METHANE	ทั.ก.	10	M.D.	
2,4-DICHLOROPHENOL	й ∙Б∙	10	и.р.	69
1,2,4-TRICHLOROBENZENE	M.D.	10	M.D.	69
NAPHTHALENE	N.D.	20	M . D .	
4 - CHLOKOANILINE	M.D.	20	м .р.	
A CULODO 2 MEDINI DURNOL	N.D.	20	M. D.	91
	N.D.	10	и.р.	2 -
ALMETUTENERUTUADENE	M.D.	10	M.D.	
2 A E-TRICUI ODODURNOI.	и.р.	iň	Ŋ.Đ.	
2,4,6-IKICHLOKOPHENOL	M. D.	18	Ŋ.p.	
2,4,5-IRICHDOROFHENOD	M. D.	ξň	N.D.	
	M.D.	าักั	N.D.	
DIMETUVI, DUTUALATE	N D	ξŏ	Ñ.Ď.	
ACENADUTUVIENE	N.D.	ĭŏ	N.D.	
3-NITROANTIINE	N.D.	5ŏ	N.D.	
ACENAPHTHENE	Ñ.D.	ĬŎ	N.D.	81
2.4-DINITROPHENOL	N.D.	50	N.D.	
4-NITROPHENOL	N.D.	50	N.D.	- -
DIBENZOFURAN	N.D.	10	N.D.	
2.4-DINITROTOLUENE	N.D.	10	N.D.	40 ***
2,6-DINITROTOLUENE	N.D.	20	N.D.	
DIETHYL PHTHALATE	N.D.	50	N.D.	
4-CHLOROPHENYL PHENYL ETHER	N.D.	10	Ŋ.D.	- -
FLUORENE	Ŋ.D.	10	й.D.	
4-NITROANILINE	N.D.	11111111111111111111111111111111111111	й.Б.	- -
4,6-DINITRO-2-METHYLPHENOL	N.D.	50	N.D.	

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: CB-4

Sample #: 118406 Matrix: SOIL Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10479-A Analyzed: February 23, 1996

	RESULT	REPORTING LIMIT	BLANK RESULT	RESULT
Analyte	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.		N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	10	N.D.	
HEXACHLOROBENZENE	$\mathbf{N}.\mathbf{D}.$	10	NN	4.2
PENTACHLOROPHENOL	N.D.	50	й.Б.	43
PHENATHRENE	Ñ.Ď.	10	Ν.D.	
ANTHRACENE	й·Б·	10	М.Б.	
DI-N-BUTYL PHTHALATE	й.ნ.	50	M.D.	
FLUORANTHENE	N.D. N.D. N.D. N.D. N.D.	10		57
PYRENE BUTYL BENZYL PHTHALATE	N.D.	ξ.V	M. D.	3 /
3,3'-DICHLOROBENZIDINE	M.D.	30	N.D.	
BÉNZO (A) ANTHRACENE	M.D.	ว์ก	N.D.	
RIGIO-FTHVI.HEXVI.) DHTHAI.ATE	N.D.	50	Ñ.Đ.	
BIS(2-ETHYLHEXYL) PHTHALATE CHRYSENE	N.D. N.D. N.D. N.D.	ĭŏ	N.D.	
DI-N-OCTYL PHTHALATE	N.D.	5ŏ	N.D.	
DI-N-OCTYL PHTHALATE BENZO(B) FLUORANTHENE BENZO(K) FLUORANTHENE	N.D.	ĨÕ	N.D.	
BENZO (K) FLUORANTHENE	N.D.	20	N.D.	
RENZO(A) PYRENE	N.D.	5	N.D. N.D.	
INDENO(1,2,3 C,D) PYRENE	N.D.	20	N.D.	- -
INDENO(1,2,3 C,D) PYRENE DIBENZ(A,H) ANTHRACENE BENZ(G,H,I) PERYLENE	Ŋ.D.	111511511521515125222	Ŋ.D.	
BENZ(G,H,I)PERYLENE	N.D.		N.D.	
For above analyte:	REPORTING LIMITS	RAISED DUE TO	MATRIX INTE	RFERENCE

Alex Tam Chemist

Operations Manager

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3510/8270

SampleID: K-1

Sample #: 118407 Matrix: WATER Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10481-A Analyzed: February 21, 1996

	RESULT	REPORTING LIMIT	BLANK RESULT	RESULT
Analyte	(ug/L)	(ug/L)	(ug/L)	(%)
PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE O-METHYLPHENOL BIS (2-CHLOROISOPROPYL) ETHER m+D-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYL PHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4-DINITROANILINE BINETHYL PHTHALATE ACENAPHTHYLENE 3-NITROANILINE ACENAPHTHENE 2,4-DINITROPHENOL 4-NITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYLPHENYLETHER FLUORENE 4-NITROANILINE 4-OINITROPHENYLPHENYLETHER FLUORENE 4-NITROANILINE	RESULT CONTROL	LIMIT (19000000000000000000000000000000000000	R UNINANANANANANANANANANANANANANANANANANAN	
4-NITROANILINE 4,6-DINITRO-2-METHYLPHENOL	N.D. N.D.	100	N.D.	

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3510/8270

SampleID: K-1

Sample #: 118407 Matrix: WATER Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10481-A Analyzed: February 21, 1996

	·	REPORTING	BLANK	BLANK SPIKE
•	RESULT	LIMIT	RESULT	RESULT
Analyte	(ug/L)	(ug/L)	(ug/L)_	(%)
N-NITROSODI-N-PHENYLAMINE	N.Ď.	20	N.D.	
4-BROMOPHENYLPHENYLETHER	N.D.	00000000000000000000000000000000000000	Ŋ.D.	
HEXACHLOROBENZENE	Ŋ.D.	20	N.D. N.D. N.D. N.D.	2.0
PENTACHLOROPHENOL	N.D.	700	M·D.	36
PHENANTHRENE ANTHRACENE	N.D. N.D.	20	й.р.	
DI-N-BUTYL PHTHALATE	N.D.	50	N D	
FLUORANTHENE	N.D.	20	Ñ.D.	
PYRENE	N.D.	20	N.D. N.D. N.D.	56
BUTYL BENZYL PHTHALATE	N.D.	20	N.D.	
BUTYL BENZYL PHTHALATE 3,3'-DICHLOROBENZIDINE	N.D.	50	N.D. N.D. N.D.	
BENZO (A) ANTHRACENE	N.D.	20	Ŋ.D.	
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	20	М.Б.	
CHRYSENE	Ŋ.D.	20	N.D.	
DI-N-OCTYLPHTHALATE BENZO (B) FLUORANTHENE	N.D.	20	M.D.	
BENZO (K) FLUORANTHENE	N.D.	20	N.D. N.D. N.D.	
BENZO (A) PYRENE	N.D. N.D.	20	Ñ.Ď.	- -
INDENO (1.2.3-CD) PYRENE	Ñ.Ď.	2ŏ	N.D.	
INDENO (1,2,3-CD) PYRENE DIBENZO (A, H) ANTHRACENE BENZ (GHI) PERYLENE	N.D.	2 0	N.D. N.D.	
BENZ (GHÍ) ÞERYLENE	N.D. N.D.	20	Ŋ.D.	- -
BENZOIC ACID	N.D.	20	N.D.	
For above analyte:	REPORTING LIMITS	RAISED DUE TO) MATRIX INTE	RFERENCE

Alež Ta Chemist Chip Poalinelli Operations Manager

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: K-9-1

Sample #: 118395 Matrix: SOIL Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10479-A Analyzed: February 22, 1996

Damprou. Ichraary 15, 1550	101. 104	/ J II I I I I I I I I I I I I I I I I I		
		REPORTING	BLANK	BLANK SPIKE
			750TT M	PROTT III
	RESULT	LIMIT	RESULT	RESULT
Analyte	(ma/Ka)	(ma/Ka)	(mg/Kg)	(%)
PHENOL	N D.	0.10	N.D.	
BIS(2-CHLOROETHYL) ETHER	N D	0.10	N.D.	
2-CHLOPOPHENOL	N D	ก็ำกั	N.D.	81
1 3-DICHLOPOBENZENE	M D	0.10	N.D.	
1 A-DICHLOROBENZENE	M.D.	ŎŤŎ	Ñ.D.	 _ ′
PENZYI, ALCOUOT.	N	0.50	Ñ.D.	
1 2 DICULADADENZENE	м.р.	0.10	N D.	
A-MOTUVI DUDNOI.	M.D.	0.10	N D	
DIG() CHIODOIGODDODVI) EMUED	M.D.	N-10	M D	
DIS (Z-CHIOROISOPROFIL) EIRER	M . D .	0.30	и.р.	
M+D-MEINILPHENOL	M.D.	0.20	M. D.	73
N-NITROSO-DI-N-PROPILAMINE	₩.₽.	0.10	М. Б.	, 5
HEXACHLOROETHANE	й.Б.	0.10	м.р.	
NITROBENZENE	й.Б.	0.10	N.D.	
1SOPHORONE	й.Б.	0.10	₩·Ħ·	
2-NITROPHENOL	N.D.	0.10	й.Б.	
2,4-DIMETHYLPHENOL	<u>N</u> .D.	0.10	₩.₽.	
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.10	₩.ħ.	
2,4-DICHLOROPHENOL	N.D.	0.10	<u>й</u> .Б.	==
1,2,4-TRICHLOROBENZENE	N.D.	0.10	й.Б.	69
NAPHTHALENE	N.D.	0.10	й.Б.	
4-CHLOROANILINE	N.D.	0.20	й.Б.	
HEXACHLOROBUTADIENE	N.D.	0.10	й.Б.	
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	Ŋ.D.	91
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.	- -
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	Ŋ.D.	- -
2.4.6-TRICHLOROPHENOL	N.D.	0.10	N.D.	
2.4.5-TRICHLOROPHENOL	N.D.	0.10	N.D.	
2-CHLORONAPHTHALENE	N.D.	0.50	N.D.	
2-NITROANILINE	N.D.	0.10	N.D.	- -
DIMETHYL PHTHALATE	N.D.	0.50	N.D.	- -
ACENAPHTHYLENE	N.D.	0.10	N.D.	- -
3-NTTROANTLINE	N.D.	0.50	N.D.	- -
ACENADUTHENE	N.D.	0.10	N.D.	81
2 A-DINITEODHENOI.	N D	Ŏ.5Ŏ	N.D.	
A_NTTDODUTNOT.	Ŋ.D.	ŏ.5ŏ	N.D.	
DIDENTACIDAN	พ. ก	ňiň	N.D.	- -
	N D	0.10	N.D.	
2,4-DINIIROIODOENE 2,4-DINIIROIODOENE	N D	0.20	N.D.	- -
DIDMINI DUMINI NAE	M.D.	0.50	N.D.	- -
V-CALVOUDDENA! DABMA! ELLED DIFIUIT LUIUWIWIE	И.р.	ŏiŏ	N.D.	
4-CUDOKOLUENIT LUENIT ETUEK	71. L.	ň·1ň	พิทิ	
FLUURENE A NITTEONNII INTE	M.D.	Ϋ́.ξΫ́	N.D.	
4-NIIRUANILINE	M.D.	۷٠ <u>₹</u> ٧	N D	
Analyte PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE 0-METHYLPHENOL BIS (2-CHLOROISOPROPYL) ETHER M+D-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROSUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE 4-CHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2-CHLORONAPHTHALENE 2-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHYLENE 3-NITROANILINE ACENAPHTHENE 2,4-DINITROPHENOL 4-NITROPHENOL 4-NITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLÜORENE 4-NITROANILINE 4,6-DINITRO-2-METHYLPHENOL	M.D.	REPORTING LIMIT (mg/Kg) 01000000000000000000000000000000000	14.2.	

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: K-9-1

Sample #: 118395 Matrix: SOIL Extracted: February 20, 1996
Sampled: February 15, 1996 Run: 10479-A Analyzed: February 22, 1996

BLANK SPIKE REPORTING BLANK RESULT LIMIT RESULT RESULT Analyte
N-NITROSO-DI-N-PHENYLAMINE
4-BROMOPHENYL PHENYL ETHER
HEXACHLOROBENZENE (mg/Kg) (%) (mg/Kg) N.D. N.D. N.D. $0.10 \\ 0.10$ N.D. 0.10 N.D. N.D. N.D. N.D. 0.50 0.10 0.10 PENTACHLOROPHENOL N.D. 43 PHENATHRENE ANTHRACENE DI-N-BUTYL PHTHALATE FLUORANTHENE N.D. N.D. N.D. N.D. PYRENE 57 N.D. BUTYL BENZYL PHTHALATE
3,3'-DICHLOROBENZIDINE
BENZO(A) ANTHRACENE
BIS(2-ETHYLHEXYL) PHTHALATE
CHRYSENE N.D. 0.50 N.D. N.D. N.D. N.D. N.D. N.D. CHRYSENE
DI-N-OCTYL PHTHALATE
BENZO(B) FLUORANTHENE
BENZO(K) FLUORANTHENE
BENZO(A) PYRENE
INDENO(1,2,3 C,D) PYRENE
DIBENZ(A,H) ANTHRACENE
BENZ(G,H,I) PERYLENE N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.

Alex Tam Chemist

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: K-8-1

Sample #: 118396 Matrix: SOIL Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10479-A Analyzed: February 22, 1996

Dampied. February 13, 1990	Run: 104	ry-R mary	Zeu. Publi	dary DE, 1000
Analyte PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE C-METHYLPHENOL BIS (2-CHLOROISOPROPYL) ETHER M+P-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE 1SOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4,0-TRICHLOROPHENOL 2,4-DINITROPHENOL 4-NITROANILINE ACENAPHTHENE 2,4-DINITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE		REPORTING	BLANK 3	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
Analyte	(ma/Ka)	(ma/Ka)	(ma/Ka)	(%)
PHENOL	N.D.	0.10	N.D.	
BIS(2-CHLOROETHYL)ETHER	N.D.	0.10	N.D.	
2-CHLOROPHENOL	N.D.	0.10	Ŋ.D.	81
1,3-DICHLOROBENZENE	Ŋ.D.	0.10	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	
BENZYL ALCOHOL	N.D.	0.20	Ñ.Ď.	
1,2-DICHLOROBENZENE	N.D.	0.10	й.р.	- -
O-METHILPHENOL	М. D.	0.10	N.D.	<u> </u>
min_METUVI.DUENOI.	N.D.	0.20	M. D.	
	и.р.	0.20	и.р.	73
HEXACHIOROETHANE	M.D.	ň iň	N.D.	
NITROBENZENE	M D	ŏ.īŏ	N.D.	
ISOPHORONE	Ñ.Ď.	0.10	N.D.	
2-NITROPHENOL	N.D.	0.10	N.D.	
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.	
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.10	N.D.	
2,4-DICHLOROPHENOL	Ŋ.D.	0.10	Ŋ.D.	
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	69
NAPHTHALENE	N.D.	ğ. <u>Τ</u> Ω	M.D.	
4-CHLUKUANILINE	N.D.	0.20	M.D.	
A_CUI.ODO_3_METUVI.DUENOI.	יים או	0.30	и.р.	91
2-METHVI.NA PHTHAI.ENE	M.D.	0.10	N.D.	
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	Ñ.D.	
2.4.6-TRICHLOROPHENOL	N.D.	ŏ.īŏ	N.D.	
2.4.5-TRICHLOROPHENOL	N.D.	0.10	N.D.	
2-CHLORONAPHTHALENE	N.D.	0.50	Ŋ.D.	
2-NITROANILINE	N.D.	0.10	N.D.	
DIMETHYL PHTHALATE	N.D.	0.50	й.Б.	- -
ACENAPHTHYLENE	<u>N</u> .D.	0.10	й.ħ.	
3-NITROANILINE	N.D.	0.50	м.р.	81
ACENAPHTHENE	N.D.	0.50	M.D.	94
A MITTODUENOI	M.D.	0.50	M.D.	
DIDENSORIDAN	M.D.	0.10	N.D.	
2 4-DINITROTOLIENE	N.D.	0.10	N.D.	
2.6-DINITROTOLUENE	N.D.	0.20	N.D.	
DIETHYL PHTHALATE	N.D.	0.50	N.D.	
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.	
FLUORENE	N.D.	0.10	N.D.	
4-NITROANILINE	N.D.	0.50	ROLLEN CONTROL	
4,6-DINITRO-2-METHYLPHENOL	N.D.	0.50	N.D.	

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: K-8-1

Sample #: 118396 Matrix: SOIL Extracted: February 20, 1996
Sampled: February 15, 1996 Run: 10479-A Analyzed: February 22, 1996

BLANK SPIKE REPORTING BLANK RESULT RESULT RESULT LIMIT (%) Analyte N-NITROSO-DI-N-PHENYLAMINE (mg/Kg) (mg/Kg)<u>(mg/Kg)</u> 0.10 0.10 0.10 0.50 0.10 N.D. 4-BROMOPHENYL PHENYL ETHER HEXACHLOROBENZENE Ν.D. _ _ N.D. PENTACHLOROPHENOL PHENATHRENE 43 N.D. N.D. N.D. N.D. N.D. ANTHRACENE DI-N-BUTYL PHTHALATE FLUORANTHENE N.D. _ -N.D. N.D. N.D. N.D. 0.10 N.D. 0.10 0.50 0.20 N.D. N.D. N.D. 57 PYRENE BUTYL BENZYL PHTHALATE
3,3'-DICHLOROBENZIDINE
BENZO(A)ANTHRACENE
BIS(2-ETHYLHEXYL)PHTHALATE
CHRYSENE 0.10 0.50 0.10 0.50 N.D. N.D. N.D. N.D. N.D. N.D. DI-N-OCTYL PHTHALATE DI-N-OCTYL PHTHALATE BENZO(B) FLUORANTHENE BENZO(K) FLUORANTHENE BENZO(A) PYRENE INDENO(1,2,3 C,D) PYRENE DIBENZ(A,H) ANTHRACENE BENZ(G,H,I) PERYLENE N.D. 0.10 N.D. 0.05 0.20 0.20 0.20 N.D. N.D.

Alex Tam Chemist

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: K-7-1

Sample #: 118397

Matrix: SOIL

Extracted: February 20, 1996

Sample #: 11839/ Sampled: February 15, 1996

Run: 10479-A

Analyzed: February 22, 1996

-	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
Analyte	(mg/Kg)	(ma/Ka)	(mg/Kg)	(%)
Analyte PHENOL BIS(2-CHLOROETHYL)ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE 0-METHYLPHENOL BIS(2-CHLOROISOPROPYL)ETHER m+p-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE 1SOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS(2-CHLOROETHOXY)METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROSITADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,2,4-6-TRICHLOROPHENOL 2,2-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHYLENE 3-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHENE 2,4-DINITROPHENOL 4-NITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE	KODODODODODODODODODODODODODODODODODODOD	7K000000000000000000000000000000000000	MNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	81
4. A-DIMITIO-S-METHITHENDROD	14.10.	0.50		

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

page 2

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: K-7-1

Extracted: February 20, 1996 Matrix: SOIL Sample #: 118397

Analyzed: February 22, 1996 Run: 10479-A Sampled: February 15, 1996

N-NITROSO-DI-N-PHENYLAMINE N.D. 0.10 N.D 4-BROMOPHENYL PHENYL ETHER N.D. 0.10 N.D HEXACHLOROBENZENE N.D. 0.10 N.D PENTACHLOROPHENOL N.D. 0.50 N.D. 43 PHENATHRENE N.D. 0.10 N.D ANTHRACENE N.D. 0.10 N.D BIT HALATE N.D. 0.50 N.D PYRENE N.D. 0.10 N.D PYRENE N.D. 0.10 N.D BENZYL PHTHALATE N.D. 0.10 N.D. 57 BUTYL BENZYL PHTHALATE N.D. 0.50 N.D BIS (2-ETHYLHEXYL) PHTHALATE N.D. 0.20 N.D BIS (2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D BIS (2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D BENZO (A) ANTHRACENE N.D. 0.50 N.D BENZO (B) FLUORANTHENE N.D. 0.50 N.D BENZO (B) FLUORANTHENE N.D. 0.50 N.D BENZO (CB) PLUORANTHENE N.D. 0.50 N.D BENZO (CB) PYRENE N.D. 0.20 N.D	Analyte	RESULT	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
ANTHRACENE N.D. 0.10 N.D DI-N-BUTYL PHTHALATE N.D. 0.50 N.D FLUCRANTHENE N.D. 0.10 N.D. 57 BUTYL BENZYL PHTHALATE N.D. 0.50 N.D 3,3'-DICHLOROBENZIDINE N.D. 0.20 N.D BENZO(A) ANTHRACENE N.D. 0.10 N.D BIS(2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D CHRYSENE N.D. 0.50 N.D DI-N-OCTYL PHTHALATE N.D. 0.50 N.D BENZO(B) FLUCRANTHENE N.D. 0.50 N.D BENZO(K) FLUCRANTHENE N.D. 0.20 N.D BENZO(K) FLUCRANTHENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.05 N.D	N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.10	Ŋ.D.	
ANTHRACENE N.D. 0.10 N.D DI-N-BUTYL PHTHALATE N.D. 0.50 N.D FLUCRANTHENE N.D. 0.10 N.D. 57 BUTYL BENZYL PHTHALATE N.D. 0.50 N.D 3,3'-DICHLOROBENZIDINE N.D. 0.20 N.D BENZO(A) ANTHRACENE N.D. 0.10 N.D BIS(2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D CHRYSENE N.D. 0.50 N.D DI-N-OCTYL PHTHALATE N.D. 0.50 N.D BENZO(B) FLUCRANTHENE N.D. 0.50 N.D BENZO(K) FLUCRANTHENE N.D. 0.20 N.D BENZO(K) FLUCRANTHENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.05 N.D	4-BROMOPHENYL PHENYL ETHER	Ŋ.D.	0.10	M.D.	<u> </u>
ANTHRACENE N.D. 0.10 N.D DI-N-BUTYL PHTHALATE N.D. 0.50 N.D FLUCRANTHENE N.D. 0.10 N.D. 57 BUTYL BENZYL PHTHALATE N.D. 0.50 N.D 3,3'-DICHLOROBENZIDINE N.D. 0.20 N.D BENZO(A) ANTHRACENE N.D. 0.10 N.D BIS(2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D CHRYSENE N.D. 0.50 N.D DI-N-OCTYL PHTHALATE N.D. 0.50 N.D BENZO(B) FLUCRANTHENE N.D. 0.50 N.D BENZO(K) FLUCRANTHENE N.D. 0.20 N.D BENZO(K) FLUCRANTHENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.05 N.D	HEXACHLOROBENZENE	₩.ħ.	0.10	M.D.	<u> </u>
ANTHRACENE N.D. 0.10 N.D DI-N-BUTYL PHTHALATE N.D. 0.50 N.D FLUCRANTHENE N.D. 0.10 N.D. 57 BUTYL BENZYL PHTHALATE N.D. 0.50 N.D 3,3'-DICHLOROBENZIDINE N.D. 0.20 N.D BENZO(A) ANTHRACENE N.D. 0.10 N.D BIS(2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D CHRYSENE N.D. 0.50 N.D DI-N-OCTYL PHTHALATE N.D. 0.50 N.D BENZO(B) FLUCRANTHENE N.D. 0.50 N.D BENZO(K) FLUCRANTHENE N.D. 0.20 N.D BENZO(K) FLUCRANTHENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.20 N.D BENZO(K) PYRENE N.D. 0.05 N.D		й.Б.	0.50	#. P.	
DI-N-BUTYL PHTHALATE N.D. 0.50 N.D. FLUORANTHENE N.D. 0.10 N.D. PYRENE N.D. 0.10 N.D. 57 BUTYL BENZYL PHTHALATE N.D. 0.50 N.D. 3,3'-DICHLOROBENZIDINE N.D. 0.20 N.D. BENZO (A) ANTHRACENE N.D. 0.10 N.D. BIS (2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D. CHRYSENE N.D. 0.10 N.D. DI-N-OCTYL PHTHALATE N.D. 0.50 N.D. BENZO (B) FLUORANTHENE N.D. 0.10 N.D. BENZO (K) FLUORANTHENE N.D. 0.20 N.D. BENZO (A) PYRENE N.D. 0.05 N.D.		N. D.	0.10	N.D.	
PYRENE N.D. 0.10 N.D. 57 BUTYL BENZYL PHTHALATE N.D. 0.50 N.D. 3,3'-DICHLOROBENZIDINE N.D. 0.20 N.D. BENZO(A) ANTHRACENE N.D. 0.10 N.D. BIS(2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D. CHRYSENE N.D. 0.10 N.D. DI-N-OCTYL PHTHALATE N.D. 0.50 N.D. BENZO(B) FLUORANTHENE N.D. 0.10 N.D. BENZO(K) FLUORANTHENE N.D. 0.20 N.D. BENZO(A) PYRENE N.D. 0.05 N.D.		й.р.	ň Šň	N.D.	
PYRENE N.D. 0.10 N.D. 57 BUTYL BENZYL PHTHALATE N.D. 0.50 N.D. 3,3'-DICHLOROBENZIDINE N.D. 0.20 N.D. BENZO(A) ANTHRACENE N.D. 0.10 N.D. BIS(2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D. CHRYSENE N.D. 0.10 N.D. DI-N-OCTYL PHTHALATE N.D. 0.50 N.D. BENZO(B) FLUORANTHENE N.D. 0.10 N.D. BENZO(K) FLUORANTHENE N.D. 0.20 N.D. BENZO(A) PYRENE N.D. 0.05 N.D.	PINOPANTHENE	й.р.	0.10	N.D.	
BÉNZO (A) ANTHRACENE N.D. 0.10 N.D. BIS (2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D. CHRYSENE N.D. 0.10 N.D. DI-N-OCTYL PHTHALATE N.D. 0.50 N.D. BENZO (B) FLUORANTHENE N.D. 0.10 N.D. BENZO (K) FLUORANTHENE N.D. 0.20 N.D. BENZO (A) PYRENE N.D. 0.05 N.D.	DABENE	N.D.	ŏ.īŏ	N.D.	57
BÉNZO (A) ANTHRACENE N.D. 0.10 N.D. BIS (2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D. CHRYSENE N.D. 0.10 N.D. DI-N-OCTYL PHTHALATE N.D. 0.50 N.D. BENZO (B) FLUORANTHENE N.D. 0.10 N.D. BENZO (K) FLUORANTHENE N.D. 0.20 N.D. BENZO (A) PYRENE N.D. 0.05 N.D.	BITTYL BENZYL PHTHALATE	N.D.	0.50	N.D.	
BÉNZO (A) ANTHRACENE N.D. 0.10 N.D. BIS (2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D. CHRYSENE N.D. 0.10 N.D. DI-N-OCTYL PHTHALATE N.D. 0.50 N.D. BENZO (B) FLUORANTHENE N.D. 0.10 N.D. BENZO (K) FLUORANTHENE N.D. 0.20 N.D. BENZO (A) PYRENE N.D. 0.05 N.D.	3.3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.	
BIS (2-ETHYLHEXYL) PHTHALATE N.D. 0.50 N.D CHRYSENE N.D. 0.10 N.D DI-N-OCTYL PHTHALATE N.D. 0.50 N.D BENZO (B) FLUORANTHENE N.D. 0.10 N.D BENZO (K) FLUORANTHENE N.D. 0.20 N.D BENZO (A) PYRENE N.D. 0.05 N.D	BENZO (A) ANTHRACENE	N.D.	0.10	N.D.	
CHRYSENE N.D. 0.10 N.D DI-N-OCTYL PHTHALATE N.D. 0.50 N.D BENZO(B) FLUORANTHENE N.D. 0.10 N.D BENZO(K) FLUORANTHENE N.D. 0.20 N.D BENZO(A) PYRENE N.D. 0.05 N.D	BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.50	N.D.	
BENZO (B) FLUORANTHENE N.D. 0.10 N.D BENZO (K) FLUORANTHENE N.D. 0.20 N.D RENZO (A) PYRENE N.D. 0.05 N.D	CHRYSENE	Ŋ.D.	0.10	Ŋ.D.	
RENZO(A) PYRENE N.D. 0.05 N.D. $-$	DI-N-OCTYL PHTHALATE	$\mathbf{N} \cdot \mathbf{D}$.	0.50	Ñ.Ď.	
RENZO(A) PYRENE N.D. 0.05 N.D. $-$	BENZO (B) FLUORANTHENE	й.Б.	0.10	M.D.	
	BENZO (K) FLUORANTHENE	ĭ. j.	0.20	м.р.	
DIBENZ (A, H) ANTHRACENE N.D. 0.20 N.D BENZ (G, H, I) PERYLENE N.D. 0.20 N.D	BENZO (A) PYRENE	说· 书·	0.05	M.D.	
BENZ (G, H, I) PERYLENE N.D. 0.20 N.D	INDENO(1,2,3 C,D)PIRENE	M.H.	0-20	N.D.	
	BENZ (G, H, I) PERYLENE		0:20	N.D.	

Alex Ta Chemist

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: K-6-1

Sample #: 118398 Matrix: SOIL Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10479-A Analyzed: February 22, 1996

• •	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
Analyte	(ma/Ka)	(mg/Kg)	(mg/Kg)	(%)
Analyte PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE O-METHYLPHENOL BIS (2-CHLOROISOPROPYL) ETHER M+P-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROS-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,2-CHLORONAPHTHALENE DIMETHYL PHTHALATE ACENAPHTHYLENE 3-NITROANILINE ACENAPHTHENE 2,4-DINITROPHENOL 4-NITROPHENOL 4-NITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4-OLINITROTOLUENE DIETHYL PHTHALATE	T (REPORTING LIMIT (mg/Kg) 0100 001100 001200	BLANK T) BLANK T) BLANK T (MINING THE TOTAL THE TOTA	BLANK SPIKE RESULT (%) 81
2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4,6-DINITRO-2-METHYLPHENOL	N.D. N.D. N.D. N.D. N.D. N.D.	0.100 0.250 0.150 0.550	N.D. N.D. N.D. N.D. N.D.	

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: K-6-1

Sample #: 118398 Matrix: SOIL Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10479-A Analyzed: February 22, 1996

Analyte	RESULT	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.10	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D. N.D. N.D. N.D.	
HEXACHLOROBENZENE	N.D. N.D.	0.10	й·Б·	45
PENTACHLOROPHENOL	Ñ·Ď·	0.50 0.10	й·Б·	43
PHENATHRENE	й.Б.	0.10	й·Б.	
ANTHRACENE	N.D. N.D. N.D.	0.10	M.D.	
DI-N-BUTYL PHTHALATE	й. ñ.	0.50 0.10	N.D. N.D.	
FLUORANTHENE	Ŋ.D.	0.10	N.D.	57
PYRENE BUTYL BENZYL PHTHALATE	N.D. N.D.	0.50	N.D. N.D. N.D. N.D.	3/
3,3'-DICHLOROBENZIDINE	N.D.	0.20	M. D.	
ከድክተማለ / አ \ አእነምደርር አ ለነጋልተው	N.D. N.D. N.D.	0.10	M.D.	
DIC (2 - CTUVI DEVVI) DUTUAL ATE	M.P.	0.50	и.р.	
BIS (2-ETHYLHEXYL) PHTHALATE CHRYSENE	M.P.	0.10	N.D.	
DI-N-OCTYL PHTHALATE	N.D. N.D.	ŏ.5ŏ	N.D.	
BENZO (B) FLUORANTHENE	Ñ.Đ.	ŏ.ĭŏ	N.D.	
BENZO (K) FLUORANTHENE	n.ď.	0.20	N.D.	
BENZO (A) PYRENE	Ñ.Ď.	Ŏ.ŌŠ	N.D.	- -
INDENO (1.2.3 C.D) PYRENE	Ñ.D.	0.20	N.D.	
INDENO (1,2,3 C,D) PYRENE DIBENZ (A,H) ANTHRACENE	Ñ.D.	0.20	N.D.	- -
BENZ (G, H, I) PERYLENE	N.D.	0.20	N.D.	
	-			

Alex Tam Chemist

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: K-5-1

Sample #: 118399 Matrix: SOIL Extracted: February 20, 1996
Sampled: February 15, 1996 Run: 10479-A Analyzed: February 22, 1996

_	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE O-METHYLPHENOL BIS (2-CHLOROISOPROPYL) ETHER M+D-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE 2,4,5-TRICHLOROPHENOL 2,4-DINITROPHENOL 4-NITROANILINE ACENAPHTHENE 3-NITROANILINE ACENAPHTHENE 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIBENZOFURAN 2,4-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4,6-DINITRO-2-METHYLPHENOL	(mg/Kg)	(mg/Kg)		
DHENOI.	N D	10	\overline{N} , \overline{D} ,	
PIC()-CULODOETUVI) ETUED	M.D.	วีดั	N.D.	
2_CUI_ODODDENOI.	M. P.	īδ	N.D.	81
1 2 DICUI ODODENZENE	M. D.	iδ	M.D.	
1,3-DICHLORODENZENE	M. P.	50	M.D.	
1,4-DICHLOROBENZENE	й·Б.	72	M. D.	
RENZIT WITCOHOT	й·Б.	40	N.D.	
1,2-DICHLOROBENZENE	₩·ñ·	10	N.D.	
O-METHYLPHENOL	й.Б.	10	N.D.	
BIS (2-CHLOROISOPROPYL) ETHER	й.Б.	ĬŎ	й∙ ₽∙	
m+p-METHYLPHENOL	N.D.	20	й.Б.	<u>-</u> -
N-NITROSO-DI-N-PROPYLAMINE	N.D.	10	й·Б·	73
HEXACHLOROETHANE	N.D.	10	<u>и.р.</u>	
NITROBENZENE	N.D.	10	N.D.	
ISOPHORONE	N.D.	10	N.D.	
2-NITROPHENOL	N.D.	10	N.D.	
2.4-DIMETHYLPHENOL	N.D.	10	N.D.	
BIS (2-CHLOROETHOXY) METHANE	N.D.	10	N.D.	
2.4-DICHLOROPHENOL	N.D.	10	N.D.	
1 2 4-TRICHLOROBENZENE	N D	īŏ	N.D.	69
NADUTHALENE	N.D.	โด้	N.D.	
A - CHI OPOANTI TNE	N D	วิดั	N.D.	
A CHIOCOMILLIANT PAIR	M.D.	์ กัก	N.D.	
A CIT ODO 3 METUVI DUENO!	# · P ·	วีดี	N D	91
4 - CHECKO-3 - MEIRIDEROD	M.D.	10	M D	
Z-MEINILNAPHINALENE	14.15.	10	M.D.	
HEXACHLOROCYCLOPENTADIENE	₩.ħ.	10	#. P.	
2,4,6-TRICHLOROPHENOL	ਲਾ.ਜ.	1 %	#. p.	
2,4,5-TRICHLOROPHENOL	₩·ñ·	ŦΧ	M . D .	
2-CHLORONAPHTHALENE	₩.ñ.	20	M.D.	-
2-NITROANILINE	นั.กั.	Ŧρ	₩·Ħ·	
DIMETHYL PHTHALATE	<u>N</u> .D.	50	₩.₽.	- -
ACENAPHTHYLENE	N.D.	10	й·Б·	
3-NITROANILINE	N.D.	50	й.ñ.	5-7
ACENAPHTHENE	Ŋ.D.	70	й·ñ.	81
2,4-DINITROPHENOL	N.D.	50	й·Б·	
4-NITROPHENOL	N.D.	50	й.Б.	
DIBENZOFURAN	N.D.	10	$\underline{\mathbf{N}}.\underline{\mathbf{D}}.$	
2.4-DINITROTOLUENE	N.D.	10	N.D.	
2.6-DINITROTOLUENE	N.D.	20	N.D.	- -
DIETHYL PHTHALATE	N.D.	50	N.D.	
4-CHLOROPHENYL PHENYL ETHER	N.D.	10	N.D.	
FLUORENE	N.D.	10	N.D.	
4-NITROANTLINE	N.D.	111111211121111111111112121211515151511251155	N.D.	
4.6-DINITRO-2-METHYLPHENOL	N.D.	50	N.D.	 .
-,				

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: K-5-1

Extracted: February 20, 1996 Sample #: 118399 Matrix: SOIL

Analyzed: February 22, 1996 Sampled: February 15, 1996 Run: 10479-A

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
Analyte	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.		N.D.	- -
4-BROMOPHENYL PHENYL ETHER	N.D. N.D.	10	N.D. N.D.	
HEXACHLOROBENZENE	Ŋ.D.	10	й.Б.	43
PENTACHLOROPHENOL	N.D.	50	N.D.	4.3
PHENATHRENE	N.D.	10	M.D.	
ANTHRACENE DI-N-BUTYL PHTHALATE	N.D. N.D.	<u> </u>	M.D.	
FLUORANTHENE	N.D.	10	N.D.	
PYRENE	N.D.	īŏ	Ñ.D.	57
RITTYL RENZYL PHTHALATE	N.D. N.D. N.D. N.D.	111511511521515120		
3,3'-DICHLOROBENZIDINE BENZO(A)ANTHRACENE	N.D.	20	Ŋ.D.	
BÉNZO (A) ANTHRACENE	N.D.	10	N.D.	
BIS(2-ETHYLHEXYL) PHTHALATE CHRYSENE	N.D.	50	Ŋ.D.	
CHRYSENE	Ŋ.D.	10	й.Б.	
DI-N-OCTYL PHTHALATE BENZO(B) FLUORANTHENE	й.Б.	50	M.D.	
BENZO (B) FLUORANTHENE	N.D. N.D. N.D. N.D.	70	N.D. N.D.	
BENZO (K) FLUCRANTHENE BENZO (A) PYRENE	N.D.	6 5	M.D.	
INDENO(1 2 3 C D) DVDENE	N.D.	žň	N.D. N.D.	
DIBENZ A HIANTHRACENE	N.D.	20 20	Ŋ.D.	
INDENO(1,2,3 C,D) PYRENE DIBENZ(A,H) ANTHRACENE BENZ(G,H,I) PERYLENE	N.D.	20	N.D.	
For above analyte:	REPORTING LIMITS	RAISED DUE TO	MATRIX INTE	RFERENCE

Chemist

Chip Poalinelli

Operations Manager

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: K-3-1

Sample #: 118400 Matrix: SOIL Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10479-A Analyzed: February 23, 1996

Damprou. repractj 20, 2000	2022			•
		REPORTING	BLANK	BLANK SPIKE
	SBATT M	LIMIT		
	RESULT	TITWIT	KESULI	
Analyte	(mq/Kg)	(mq/Kg)	(mg/Kg)	(%)
PHENOL	N.D.	10	N.D.	- -
BIS (2-CHLOROETHYL) ETHER	N.D.	10	N.D.	= =
2-CHLOROPHENOL	N.D.	10	N.D.	81
1.3-DICHLOROBENZENE	N.D.	10	N.D.	
1.4-DICHLOROBENZENE	N.D.	Ī0	N.D.	
BENZYI, ALCOHOL	N.D.	20	N.D.	
1 2-DICHLOROBENZENE	ND	īŏ	N.D.	
A-METHYLDURNOL.	ห์ กั	īŏ	N.D.	
DIG (2-CHIODOT CODDODY) FTHED	N.D.	กัก	N.D.	
m+n-METHVI.DHENOI.	M D	วิดั	N.D.	- -
W-WITTENCE DISTURDED ON A WINE	M.D.	วีดั	N.D.	73
REAVERI ODCEMBY ME WHITEODCE DIENEROLITATION	₩.₽.	วีดั	Ñ.D.	<u></u>
NITERACTIONOSITAME	N. 5.	วีดั	N D.	
NIIRODENZENE	M.P.	10	M.D.	
15UPHURUNE 2 NITEDADIENAI	M.D.	10	N.D.	
Z-NITROPHENOL	M.D.	10	M.D.	
Z,4-DIMETHYLPHENOL	M.D.	10	M. D.	
BIS (2-CHLOROETHOXY) METHANE	₩.H.	47	M.D.	
2,4-DICHLOROPHENOL	ŭ·∺.	10	N.D.	69
1,2,4-TRICHLOROBENZENE	й.Б.	10	N.D.	0.5
NAPHTHALENE	. ŭ.ħ.	70	M.D.	
4-CHLOROANILINE	Ν.D.	20	N.D.	
HEXACHLOROBUTADIENE	<u>й</u> .Б.	7.0	₩.Ħ.	91
4-CHLORO-3-METHYLPHENOL	й.Б.	20	й.Б.	91
2-METHYLNAPHTHALENE	<u>N</u> .₽.	70	₩.ħ.	
HEXACHLOROCYCLOPENTADIENE	N.D.	10	₩.ħ.	
2,4,6-TRICHLOROPHENOL	N.D.	10	й. h.	
2,4,5-TRICHLOROPHENOL	N.D.	10	й·Б·	
2-CHLORONAPHTHALENE	N.D.	50	มี.ก.	- -
2-NITROANILINE	N.D.	10	Й·Ä·	·
DIMETHYL PHTHALATE	Ŋ.D.	50	й.Б.	
ACENAPHTHYLENE	N.D.	10	<u>й</u> .Б.	
3-NITROANILINE	N.D.	50	й·ñ.	
ACENAPHTHENE	N.D.	10	$\underline{\mathbf{N}}.\underline{\mathbf{D}}.$	81
2.4-DINITROPHENOL	N.D.	50	N.D.	- -
4-NITROPHENOL	N.D.	50	N.D.	
DIBENZOFURAN	N.D.	10	N.D.	
2.4-DINITROTOLUENE	N.D.	10	N.D.	
2.6-DINITROTOLUENE	N.D.	20	$\mathbf{N}.\mathbf{D}.$	- -
DIETHYL PHTHALATE	N.D.	50	Й.D.	
4-CHLOROPHENYL PHENYL ETHER	N.D.	10	N.D.	 (
FLUORENE	N.D.	10	Ņ.D.	
Analyte PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE O-METHYLPHENOL BIS (2-CHLOROISOPROPYL) ETHER M+P-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2-CHLORONAPHTHALENE 2-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHYLENE 3-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHENE 2,4-DINITROPHENOL 4-NITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4,6-DINITRO-2-METHYLPHENOL	N.D.	(mg/Kg) 1100000000000000000000000000000000000	MUNICAL CONTROL CONTRO	
4 6-DINITRO-2-METHYLPHENOL	Ň.D.	50	N.D.	
	 -	- ·		

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133 page 2

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: K-3-1

Sample #: 118400 Matrix: SOIL Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10479-A Analyzed: February 23, 1996

Analyte	RESULT	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	10	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	1151151152151512022 5 200000000000000000	N.D.	
HEXACHLOROBENZENE	N.D.	10	Ŋ.D.	7.7
PENTACHLOROPHENOL	N.D.	50	Ŋ.D.	43
PHENATHRENE	N.D.	10	Ŋ.D.	
ANTHRACENE	Ŋ.D.	10	Ŋ.D.	
DI-N-BUTYL PHTHALATE	Ŋ.D.	50	Ŋ.D.	
FLUORANTHENE	N.D.	10	N.D.	57
PYRENE DIMENT DIMENTAL AME	N.D.	ξÖ	N.D. N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	20	N.D.	
3,3'-DICHLOROBENZIDINE BENZO(A)ANTHRACENE	N.D. N.D.	20 10	N.D.	
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	ξŏ	N.D.	
CHRYSENE	N.D.	าัก	N.D.	
DI-N-OCTYL PHTHALATE	N.D.	รีกั	N.D.	
BENZO (B) FLUORANTHENE	Ñ.D.	ĭň	N.D.	 -
BENZO (K) FLUORANTHENE	N.D.	2ŏ	N.D.	
BENZO (A) PYRENE	Ñ.D.	ō.5	N.D.	- -
INDENO (1,2,3 C,D) PYRENE	N.D.	20	N.D.	
INDENO (1,2,3 C,D) PYRENE DIBENZ (A,H) ANTHRACENE	N.D.	20	N.D.	- -
BENZ(G,H,I)PERYLENE	N.D.	20	N.D.	
For above analyte:	REPORTING LIMITS	RAISED DUE TO	MATRIX INTE	RFERENCE

Alex Tam Chemist

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: K-4-1.5

Sample #: 118401 Matrix: SOIL Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10479-A Analyzed: February 23, 1996

	RESULT	REPORTING LIMIT	RESULT	BLANK SPIKE RESULT
Analyte	(mq/Kq)	(mg/Kg)	(mg/Kg)	(%)
Analyte PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE O-METHYLPHENOL BIS (2-CHLOROISOPROPYL) ETHER M+D-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2-CHLORONAPHTHALENE 2-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHENE 2-NITROANILINE ACENAPHTHENE 2,4-DINITROPHENOL 4-NITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE		(NOOOOO 000 0000000000 0 0000 0 0 00 00 00	MUNICATION OF THE PROPERTY OF	81
FLUORENE 4-NITROANILINE	N.D. N.D.	0.50 2.5	N.D.	
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.5	N.D.	

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: K-4-1.5

Sample #: 118401 Matrix: SOIL Extracted: February 20, 1996
Sampled: February 15, 1996 Run: 10479-A Analyzed: February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.50	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	0.50	N.D.	
HEXACHLOROBENZENE	N.D.	0.50	N.D.	
PENTACHLOROPHENOL	N.D.	2.5	N.D. N.D.	43
PHENATHRENE	N.D.	0.50	Ŋ.D.	
ANTHRACENE	N.D. N.D.	0.50	N.D.	
DI-N-BUTYL PHTHALATE	N.D.	000000000000000000000000000000000000000	N.D.	
FLUORANTHENE	N.D.	0.50	Ŋ.D.	 -7
PYRENE	N.D.	0.50	Ŋ.D.	57
BUTYL BENZYL PHTHALATE	N.D.	2.5	Ŋ.D.	
3,3'-DICHLOROBENZIDINE	Ŋ.D.	7.50	N.D. N.D.	
BENZO (A) ANTHRACENE	Ŋ.D.	ŭ. Đ	N.D.	
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	4.5	M.D.	
CHRYSENE DI-N-OCTYL PHTHALATE	N.D.	9.50	N.D. N.D.	
DI-N-OCLID PHINADALE	N.D. N.D.	ก็รัก	N.D.	
BENZO (B) FLUORANTHENE BENZO (K) FLUORANTHENE	N.D.	1.0	Ñ.Ď.	
BENZO (A) PYRENE	N.D.	0.25	N.D.	
INDENO(1 2 3 C D) PYRENE	N.D.	1.0	N.D.	
INDENO(1,2,3 C,D) PYRENE DIBENZ(A,H) ANTHRACENE BENZ(G,H,I) PERYLENE	N.D.	ī.ŏ	N.D.	
BENZ (G.H. I) PERYLENE	Ñ.Ď.	ī.ŏ	N.D.	
For above analyte:		RAISED DUE TO		RFERENCE

Alex Tam Chemist

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: K-2-1

Sample #: 118402 Matrix: SOIL Extracted: February 20, 1996
Sampled: February 15, 1996 Run: 10479-A Analyzed: February 23, 1996

BLANK BLANK SPIKE REPORTING RESULT RESULT LIMIT RESULT (mq/Kq)(mq/Kq)(%) <u>Analyte</u> (mq/Kq) 0.50 0.50 0.50 N.D. N.D. N.D. N.D. N.D. PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL N.D. 81 2-CHLOROPHENOL
1,3-DICHLOROBENZENE
1,4-DICHLOROBENZENE
BENZYL ALCOHOL
1,2-DICHLOROBENZENE
0-METHYLPHENOL
BIS (2-CHLOROISOPROPYL) ETHER N.D. N.D. 0.50 N.D. N.D. N.D. N.D. 0.50 0.50 N.D. N.D. m+p-METHYLPHENOL 0.50 73 N.D. N-NITROSO-DI-N-PROPYLAMINE N.D. HEXACHLOROETHANE N.D. N.D. N.D. NITROBENZENE ISOPHORONE N.D. N.D. 2-NITROPHENOL 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS(2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE N.D. 0.50 N.D. $\underline{N}.\underline{D}.$ N.D. - -N.D. N.D. 0.50 N.D. N.D. _ --4-CHLOROANILINE N.D. 4-CHLOROANILINE
HEXACHLOROBUTADIENE
4-CHLORO-3-METHYLPHENOL
2-METHYLNAPHTHALENE
HEXACHLOROCYCLOPENTADIENE
2,4,6-TRICHLOROPHENOL
2,4,5-TRICHLOROPHENOL
2-CHLORONAPHTHALENE
2-NITROANILINE
DIMETHYL PHTHALATE 0.50 N.D. N.D. N.D. N.D. 91 N.D. 0.50 N.D. N.D. N.D. N.D. N.D. 0.50 N.D. N.D. 0.50 20.50 20.50 ACENAPHTHYLENE 3-NITROANILINE N.D. N.D. N.D. 81 N.D. **ACENAPHTHENE** 2,4-DINITROPHENOL 4-NITROPHENOL N.D. N.D. N.D. N.D. N.D. DIBENZOFURAN 0.50 N.D. 2.4-DINITROTOLUENE 2.6-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER 0.5Ŏ N.D. N.D. 1.0 N.D. N.D. N.D. N.D. N.D. FLUORENE 4-NITROANILINE

,6-DINITRO-2-METHYLPHENOL

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

page 2

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: K-2-1

Extracted: February 20, 1996 Sample #: 118402 Matrix: SOIL Analyzed: February 23, 1996 Sampled: February 15, 1996 Run: 10479-A

BLANK SPIKE REPORTING BLANK RESULT RESULT RESULT LIMIT Analyte
N-NITROSO-DI-N-PHENYLAMINE
4-BROMOPHENYL PHENYL ETHER
HEXACHLOROBENZENE
DENTA CULOROPHENOL (mg/Kg) N.D. (%) (mg/Kg) (mg/Kg) 0.50 N.D. N.D. ___ N.D. 0.50 N.D. PENTACHLOROPHENOL PHENATHRENE ANTHRACENE 43 N.D. N.D. N.D. N.D. 0.50 N.D. N.D. N.D. DI-N-BUTYL PHTHALATE FLUORANTHENE N.D. 57 N.D. PYRENE BUTYL BENZYL PHTHALATE
3,3'-DICHLOROBENZIDINE
BENZO(A)ANTHRACENE
BIS(2-ETHYLHEXYL)PHTHALATE
CHRYSENE 2.5 N.D. N.D. 1.0 0.50 N.D. N.D. N.D. N.D. N.D. N.D. 0.50 N.D. N.D. DI-N-OCTYL PHTHALATE BENZO (B) FLUORANTHENE BENZO (A) PYRENE BENZO (A) PYRENE 2.50 N.D. N.D. N.D. 0.25 N.D. INDENO (1,2,3 C,D) PYRENE DIBENZ (A,H) ANTHRACENE 1.0 N.D. ___ N.D. 1.0 N.D. BENZ (G, H, I) PERYLENE N.D. 1.0 REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE For above analyte:

Alex Tam Chemist

Chip Poalinelli

Operations Manager

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: CB-1

Extracted: February 20, 1996 Matrix: SOIL Sample #: 118403 Analyzed: February 23, 1996 Sampled: February 15, 1996 Run: 10479-A

BLANK BLANK SPIKE REPORTING RESULT RESULT RESULT LIMIT (ma/Ka) (%) $\frac{(mg/Kg)}{N.D.}$ (mg/Kg)Analyte PHENOL N.D. N.D. N.D. PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE īŌ N.D. 81 10 N.D. 10000 N.D. N.D. N.D.N.D. 1,2-DICHLOROBENZENE
0-METHYLPHENOL
BIS(2-CHLOROISOPROPYL)ETHER
m+p-METHYLPHENOL
N-NITROSO-DI-N-PROPYLAMINE
HEXACHLOROETHANE
NITROBENZENE
ISOPHORONE N.D. N.D. 73 N.D. N.D. N.D. 2-NITROPHENOL 2.4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2.4-DICHLOROPHENOL 1.2.4-TRICHLOROBENZENE NAPHTHALENE 11111212121 N.D. 69 N.D. N.D. N.D. 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE N.D. N.D. N.D. N.D. N.D. HEXACHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2-CHLORONAPHTHALENE 1000000 N.D. N.D. N.D. N.D. 2-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHYLENE N.D. N.D. N.D. 3-NITROANILINE ACENAPHTHENE N.D. N.D. 2,4-DINITROPHENOL N.D. N.D. N.D. 4-NITROPHENOL 10 DIBENZOFURAN 2,4-DINITROTOLUENE N.D. 6-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER N.D. N.D. N.D. N.D. FLUORENE N.D. 4-NITROANILINE 4,6-DINITRO-2-METHYLPHENOL

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: CB-1

Sample #: 118403

Matrix: SOIL

Sampled: February 15, 1996 Run: 10479-A

Extracted: February 20, 1996
Analyzed: February 23, 1996

		REPORTING		BLANK SPIKE
	RESULT	LIMIT	result	RESULT
3-07	(mg/Kg)	(mq/Kq)	(mq/Kq)	<u>(%)</u>
Analyte N-NITROSO-DI-N-PHENYLAMINE	N.D.	10	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	10	N.D.	
HEXACHLOROBENZENE	N.D.	10	N.D.	45
PENTACHLOROPHENOL	N.D.	50	N.D. N.D.	43
PHENATHRENE	N.D.	10	N.D.	
ANTHRACENE	N.D.	10	N.D.	
DI-N-BUTYL PHTHALATE	N.D.	50	Ŋ.D.	- -
FLUORANTHENE	N.D. N.D.	1151151152151512522	Ŋ.D.	57
PYRENE	Ŋ.D.	10	N.D. N.D. N.D.	<i>J 1</i>
BUTYL BENZYL PHTHALATE	Ŋ.D.	50	и.р.	- -
3.3'-DICHLOROBENZIDINE	Ŋ.D.	20	й.Б.	
BENZO (A) ANTHRACENE	Ŋ.D.	<u> </u>	Ñ.D.	
BIS(2-ETHYLHEXYL) PHTHALATE	Ŋ.D.	10	Ñ.Ď.	
CHRYSENE	N.D. N.D.	芸り	N.D.	
DI-N-OCTYL PHTHALATE	й.D.	วัก	Ñ.D.	
BENZO (B) FLUORANTHENE BENZO (K) FLUORANTHENE	N.D.	20	N.D.	- -
BENZO (K) FLOOKAN I DENE	N.D.	5	N.D.	
BENZO (A) PYRENE	N.D.	Ž0	N.D.	
DIDENO(1,2,3 C,D)FIRENE	N.D.	20	N.D.	
INDENO(1,2,3 C,D) PYRENE DIBENZ(A,H) ANTHRACENE BENZ(G,H,I) PERYLENE	ת זא	20	N.D.	
For above analyte:	REPORTING LIMITS	RAISED DUE I	O MATRIX INTE	RFERENCE

Alex Tam Chemist

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: CB-2

Extracted: February 20, 1996 Matrix: SOIL Sample #: 118404

Analyzed: February 23, 1996 Sampled: February 15, 1996 Run: 10479-A

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
Analyta	(mg/Kg)	(mg/Kg)	(mq/Kq)	<u>(</u> %)
PHENOL	N.D.	0.50	N.D.	
BIS (2-CHLOROETHYL) ETHER	Ŋ.D.	0.50	M.D.	81
2-CHLOROPHENOL	й.р.	0.50	Ñ.Ď.	
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	
DEMOVI. ALCOHOL.	N.D.	1.0	Ŋ.D.	
1.2-DICHLOROBENZENE	N.D.	0.50	M.D.	
O-METHYLPHENOL	Ŋ.D.	0.50	M.D.	
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	1.0	Ñ.Ď.	
m+p-METHYLPHENOL	M.D.	ō.šo	N.D.	73
N-MITROSO-DI-N-PROFITMINE	Ñ.Đ.	0.50	Ŋ.D.	- -
NITROBENZENE	N.D.	0.50	Ŋ.D.	
ISOPHORONE	Ŋ.D.	0.50	M.D.	
2-NITROPHENOL	М·Б.	0.50	N.D.	
2.4-DIMETHYLPHENOL	M.D.	0.50	N.D.	
BIS (S-CHPOKOFIHOVI) METURATE	N.D.	Ŏ.50	Ŋ.D.	
1 2 4 - TRICHLOROBENZENE	N.D.	0.50	Ŋ.D.	69
NAPHTHALENE	Ŋ.D.	0.50	M.D.	
4-CHLOROANILINE	N.D.	7.50	N.D.	
HEXACHLOROBUTADIENE	N.D.	1.0	N.D.	91
4-CHLORO-3-MEIDIDERGROD	N.D.	0.50	Ŋ.D.	
HEXACHLOROCYCLOPENTADIENE	N.D.	0.50	й.Б.	
2,4,6-TRICHLOROPHENOL	Ŋ.D.	0.50	M.D.	- -
2,4,5-TRICHLOROPHENOL	M.D.	0.50	N.D.	
2-CHLORONAPHTHALENE	M.D.	0.50	N.D.	- -
Z-NITKOANILINE	N.D.	2.5	Ŋ.D.	
ACENAPHTHYLENE	Ŋ.D.	0.50	Ŋ.p.	
3-NITROANILINE	й.Б.	2.5	M.D.	81
ACENAPHTHENE -	N.D.	0.50	N.D.	
2,4-DINITROPHENOL	N.D.	2.5	N.D.	
4-NITROPHENOL DIDENZOPHRAN	Ñ.Ď.	0.50	Ŋ.D.	
2.4-DINITROTOLUENE	Ŋ.D.	0.50	Ŋ.D.	
2,6-DINITROTOLUENE	Ŋ.D.	7.6	и.р.	
DIETHYL PHTHALATE	N.D.	6.5 0	N.D.	
4-CHLOROPHENIL PHENIL EINER	N.D.	ŏ.5ŏ		
A-NITROANILINE	N.D.	000000 000 000000000 0 0000 0 0 0000000	N.D. N.D.	
Analyte PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE O-METHYLPHENOL O-METHYLPHENOL BIS (2-CHLOROISOPROPYL) ETHER M+P-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE 1SOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROSUTADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,2,4-TRICHLOROPHENOL 2,4-TRICHLOROPHENOL 2,4-TRICHLOROPHENOL 2,4-TRICHLOROPHENOL 2,4-DINITROPHENOL 2-CHLORONAPHTHALENE 3-NITROANILINE ACENAPHTHYLENE 3-NITROANILINE ACENAPHTHENE 2,4-DINITROPHENOL 4-NITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4-NITROANILINE	N.D.	2.5	N.D.	

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133 page 2

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: CB-2

Sample #: 118404 Matrix: SOIL Extracted: February 20, 1996

Sampled: February 15, 1996 Run: 10479-A Analyzed: February 23, 1996

			-	-
Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.50	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	0.50	N.D.	
HEXACHLOROBENZENE	N.D. N.D.	0.50 2.5 0.50	N.D.	
PENTACHLOROPHENOL	N.D.	2.5	N.D.	43
PHENATHRENE	N.D.	0.50	N.D.	
ANTHRACENE	N.D.	0.50	Ŋ.D.	
DI-N-BUTYL PHTHALATE	N.D.	00 00 0 0 0 555555555555555555555555555	Ŋ.D.	
FLUORANTHENE	N.D.	0.50	N.D.	
PYRENE	N.D.	0.50	N.D.	57
BUTYL BENZYL PHTHALATE	12_	2.5	N.D.	
3,3'-DICHLOROBENZIDINE BENZO(A) ANTHRACENE	N.D.	1.0	N.D.	
BENZO (A) ANTHRACENE	N.D.	0.50	Ŋ.D.	
BIS (2-ETHYLHEXYL) PHTHALATE	16_	2.5	Ŋ.D.	
CHRYSENE	N.D.	0.50	Ŋ.D.	
DI-N-OCTYL PHTHALATE	N.D.	2.5	Ŋ.D.	
BENZO (B) FLUORANTHENE	Ŋ.D.	ບູ.ວັບ	N.D.	
BENZO (K) FLUORANTHENE	Ŋ.D.	4. 0	14.2.	
BENZO (A) PYKENE	Ŋ.D.	0.25	N.D. N.D.	
DIDENC(1,2,3 C,D)PYRENE	Ŋ.D.	1.0	N.D.	
BENZO (A) PYRENE INDENO (1,2,3 C,D) PYRENE DIBENZ (A,H) ANTHRACENE BENZ (G,H,I) PERYLENE	N.D.	1.0 1.0 1.0	N.D.	
DENZ (G, A, I) FERILENE	N.D. REPORTING LIMITS	DATEED DIE TO		ロママロマババマ
For above analyte:	REPORTING LIMITS	KWIDEN DOE 10	MAIRIA INIE	CT. THEFTHER CT.

Alex Tam Chemist

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.

Method: EPA 3550/8270

SampleID: CB-3

Extracted: February 20, 1996 Matrix: SOIL Sample #: 118405

Analyzed: February 23, 1996 Run: 10479-A Sampled: February 15, 1996

Sampled. February 15, 1550	Run. 101	, , , , , , , , , , , , , , , , , , , ,	,	·
		REPORTING	BLANK	BLANK SPIKE
	5500TT T	I TATE		RESULT
	RESULT	LIMIT	YPOOP1	
Analyte	(mg/Kg)	(mg/Kg)	(mg/Kg)	(왕)
DHENOI.	N.D.	50	N.D.	
RIG (2 - CHI.OPORTHYI.) ETHER	M D	50	N.D.	
2_CUI OBODURNOI.	M.D.	รัก	N.D.	81
1 2 DIONICHENCH	M. D.	รัก	N.D.	==
1,3-DICHDORODENZENE	¥. £.	ξň .	N.D.	
T,4-DICHDORODENZENE	₩.₽.	รีกัก	Ŋ.Ľ	- -
BENZIL ALCONOL	₩.H.	£00	M.D.	
1,2-DICHLOROBENZENE	Ŋ.D.	50	M.D.	- -
O-WELHATTHENOT	₩.Ħ.	50	M. D.	
BIS (2-CHLOROISOPROPYL) ETHER	₩-₽-	500	M.D.	
m+b-WEIHAPBHENOP	й·Б·	± 00	M.D.	73
N-NITROSO-DI-N-PROPYLAMINE	<u>N</u> .D.	50	₩.F.	, 3
HEXACHLOROETHANE	N.D.	50	₩·Ħ·	- -
NITROBENZENE	N.D.	50	й·Б·	
ISOPHORONE	N.D.	50	й.Б.	 .
2-NITROPHENOL	N.D.	50	Ŋ.D.	~ ~
2.4-DIMETHYLPHENOL	N.D.	50	N.D.	
BIS (2-CHLOROETHOXY) METHANE	N.D.	50	N.D.	- -
2.4-DICHLOROPHENOL	N.D.	50	N.D.	==
1.2.4-TRICHLOROBENZENE	N.D.	50	N.D.	69
NAPHTHALENE	N.D.	50	N.D.	
A-CHLOROANTITHE	N.D.	100	N.D.	
TEANCRI UDUSTINUL LEME	N D	50	N.D.	
A_CUI ODO_3_METUVI.DUENOI.	N D	วัดัก	N.D.	91
5 METURO S - METITIE TIENOS	N.D.	รีกั	N.D.	
TEANCAL OBOCACI OBEMANDIEME	M.D.	รักั	Ñ.D.	==
TEVACUTOROCICHOLEMIANTEME	#.P.	ξŏ	N.D.	
2,4,6-IKICHLOROPHENOL	M.P.	ξň	N.D.	
2,4,5-TRICHLOROPHENOL	₩.₽.	วีรัก	N D	
2-CHLORONAPHTHALENE	¥. P.	£20	Ν̈́T.	= =
Z-NITROANILINE	₩.₩.	357	M.D.	
DIMETHYL PHTHALATE	₩·Ħ·	.250	M.D.	
ACENAPHTHYLENE	₩.₽.	25,	#. K.	
3-NITROANILINE	₩·Ħ·	43 ₀	M. P.	81
ACENAPHTHENE	<u>N</u> .₽.	550	₩·Ħ·	0 T
2,4-DINITROPHENOL	<u>N</u> .D.	<u> </u>	₩·Ħ·	- -
4-NITROPHENOL	<u>м</u> .Б.	250	₩.ħ.	
DIBENZOFURAN	N.D.	50	₩·ñ·	
2,4-DINITROTOLUENE	N.D.	50	ีห∙ก∙	
2.6-DINITROTOLUENE	Ŋ.D.	100	й·Б.	
DIETHYL PHTHALATE	N.D.	. 250	й.D.	
4-CHLOROPHENYL PHENYL ETHER	N.D.	50	Ŋ.D.	
FLUORENE	N.D.	50	${ t N.D.}$	- -
4-NTTROANTLINE	N.D.	250	N.D.	- -
Analyte PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE O-METHYLPHENOL BIS (2-CHLOROISOPROPYL) ETHER M+P-METHYLPHENOL N-NITROSO-DI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE 2-NITROPHENOL 2,4-DIMETHYLPHENOL BIS (2-CHLOROETHOXY) METHANE 2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 4-CHLOROANILINE HEXACHLOROSUTADIENE 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,1-CHLORONAPHTHALENE 3-NITROANILINE ACENAPHTHYLENE 3-NITROANILINE ACENAPHTHENE 2,4-DINITROPHENOL 4-NITROPHENOL DIBENZOFURAN 2,4-DINITROTOLUENE DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4-CHLOROPHENYL PHENYL ETHER FLUORENE 4-NITROANILINE 4,6-DINITRO-2-METHYLPHENOL	N.D.	MS MS MS MS MS MS MS MS		
-,	. — -			

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133

page 2

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84/002

Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.

Method: EPA 3550/8270

SampleID: CB-3

Extracted: February 20, 1996 Sample #: 118405 Matrix: SOIL

Analyzed: February 23, 1996 Sampled: February 15, 1996 Run: 10479-A

Analyte	RESULT	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	50	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	50 50 250	N.D.	
HEXACHLOROBENZENE	N.D.	50	N.D. N.D. N.D.	43
PENTACHLOROPHENOL	N.D.	250	พ.ก.	43
PHENATHRENE	N.D. N.D.	50	MD	
ANTHRACENE DI-N-BUTYL PHTHALATE	N.D.	50 50 250	N.D.	
FLUORANTHENE	N.D.	50	N.D. N.D. N.D. N.D. N.D.	
PYRENE	N.D.	50 50	N.D.	57
BUTYL BENZYL PHTHALATE	N.D. N.D. N.D.	250	Ŋ.D.	
3,3'-DICHLOROBENZIDINE	N.D.	100	Ŋ.D.	
BÉNZO (A) ANTHRACENE	Ŋ.D.	50 250	M.D.	
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	250 E0	M.D.	
CHRYSENE DI-N-OCTYL PHTHALATE	N.D.	50 250	N.D. N.D. N.D.	
DI-N-OCLID PRIDADALE	й.р.	50	N.D.	
BENZO (B) FLUORANTHENE BENZO (K) FLUORANTHENE	N.D. N.D. N.D.	100	N.D.	
BENZO (A) PYRENE	N.D.	25	N.D.	
INDENO(1,2,3 C,D) PYRENE DIBENZ(A,H) ANTHRACENE BENZ(G,H,I) PERYLENE	N.D.	100	N.D. N.D.	
DIBENZ (A, H) ANTHRACENE	N.D.	100	й. р.	
BENZ (G, H, I) PERYLENE	N.D.	100 RAISED DUE TO	N.D. MATRIX INTE	 DPFD TN/TT
For above analyte:	REPORTING LIMITS	KAISED DUE 10	MAIRIA INIC	RF ERENCE

Chemist

Operations Manager

133/118395-118407 McCAMPBELL ANALYTICAL CHAIN OF CUSTODY RECORD 110 2nd AVENUE, # D7 TURN AROUND TIME PACHECO, CA 94553 (510) 798-1620 FAX (510) 798-1622 RUSH 24 HOUR 48 HOUR 5 DAY REPORT TOICE Hamily BILL TO MAZ ANALYSIS REQUEST DTHER COMPANYI MAZ SUBM #: 9602133 REP: GC CLIENT: MCCAM DUE: 02/26/96 TELE: REF. ##26484 PROJECT NUMBERI 10.3002-14/02-PROJECT NAME: K/S-440 Pollutant Metals ŝ SAMPLER SIGNATURE PROJECT LOCATION: COMMENTS METHOD TYPE CONTAINERS MATRIX SAMPLING PRESERVED EPA 608/8080 EPA 601/8010 SAMPLE LUCATION ID VATER DRGANIC DATE TIME 로 AIR 3 5 V-9-7 96364 K-9-1-18864 2-15-96 SIAS 1507 Fee 96370# X 1704 1-7-1 96372 ¥ B. 111/2 (8-1 94376 × 4 1513 1-6-196378 1374 1-5-1 96360 1176 CB-2 96382 6 $\boldsymbol{\chi}$ 1178 4.3-1 86384 15-19 16-4-1.5- 96346 15-2/ 16-2-1 96357 1522 13-3 94386 M. 15-24 LB-# 84342 1525 11-1 96396 1526 4-11 DATE TIME RECEIVED BY RELINGUISHED BY REMARKS: 150 KELIMOUISHED BY

Environmental Services (SDB)

February 27, 1996

Submission #: 9602587

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84-002

Received: February 20, 1996

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.

Method: EPA 3550/8270

Client Sample ID: K-10

Spl#: 79674 Matrix: SOIL Extracted: February 22, 1996
Sampled: February 15, 1996 Run#: 715 Analyzed: February 24, 1996

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
PHENOL	N.D.	0.0971	N.D.		1
BIS (2-CHLOROETHYL) ETHER	N.D.	0.0971	N.D.		
2-CHLOROPHENOL	N.D.	0.0971	N.D.	92.0	ī
1,3-DICHLOROBENZENE	N.D.	0.0971	N.D.		ī
1,4-DICHLOROBENZENE	N.D. N.D.	0.0971	N.D.		1
BENZYL ALCOHOL	N.D.	0.194	N.D.		11111111111111111111111111111111
1,2-DICHLOROBENZENE	N.D. N.D. N.D.	0.0971	N.D.		1
2-METHYLPHENOL	N.D.	0.0971	N.D.		1
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.0971	N.D.		1
4-METHYLPHENOL	N.D.	0.194	N.D.		1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.0971	N.D.	75.5	ī
HEXACHLOROETHANE	N.D.	0.0971	N.D.		1
NITROBENZENE	N.D.	0.0971	N.D.		1
ISOPHORONE	N.D.	0.0971	N.D.		1
2-NITEOPHENOI.	N.D.	0.0971	N.D.		1
2,4-DIMETHYLPHENOL	N.D. N.D.	0.0971	N.D.		1
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.0971	N.D.		1
2,4-DICHLOROPHENOL	N.D.	0.0971	N.D.		1
1,2,4-TRICHLOROBENZENE	N.D. N.D.	0.0971	N.D.	83.2	1
NAPHTHALENE	N.D.	0.0971	N.D.		1
4-CHLOROANILINE	N.D. N.D.	0.194	N.D.		1
HEXACHLOROBUTADIENE	N.D.	0.0971	N.D.		1
4-CHLORO-3-METHYLPHENOL	N.D.	0.194	N.D.	75.2	1
2-METHYLNAPHTHALENE	N.D.	0.0971	N.D.		1
HEXACHLOROCYCLOPENTADIENE	N.D.	0.0971	N.D.		1
2,4,6-TRICHLOROPHENOL	N.D. N.D.	0.0971	N.D.		1
2,4,5-TRICHLOROPHENOL	N.D.	0.0971	N.D.		1
2-CHLORONAPHTHALENE	N.D.	0.0971	N.D.		1
2-NITROANILINE	N.D.	0.486	N.D.		1
DIMETHYL PHTHALATE	N.D.	0.486	N.D.		
ACENAPHTHYLENE	N.D.	0.0971	N.D.		1
3-NITROANILINE	N.D.	0.0971	N.D.		1
ACENAPHTHENE	N.D.	0.0971	N.D.	90.4	1
2,4-DINITROPHENOL	N.D.	0.486	N.D.		1
4-NITROPHENOL	N.D. N.D.	0.486	N.D.		1
DIBENZOFURAN	N.D.	0.0971	N.D.		1
2,4-DINITROTOLUENE	N.D.	0.0971	N.D.		1 1 1 1 1 1
2,6-DINITROTOLUENE	N.D.	0.194	N.D.		1
DÍETHYL PHTHALATE	N.D.	0.486	N.D.		1

Environmental Services (SDB)

February 27, 1996

Submission #: 9602587

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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840

Project#: 10-3002-84-002

Received: February 20, 1996

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis,

continued.

Method:

EPA 3550/8270

Client Sample ID: K-10

Spl#: 79674 Matrix: SOIL Extracted: February 22, 1996
Sampled: February 15, 1996 Run#: 715 Analyzed: February 24, 1996

Sampled: February 15, 1996	kun#:	715 An	alyzeu: :	entuary	
		REPORTING	BLANK	BLANK	DILUTION
	RESULT	LIMIT	RESULT		
ANALYTE	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)	
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.0971	N.D.		1
FLUORENE	N.D.	0.0971	N.D.		1
4-NITROANILINE	N.D.	0.486	N.D.		1
4,6-DINITRO-2-METHYLPHENOL	N.D.	0.486	N.D.		1
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.0971	N.D.		1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.0971	N.D.		1
HEXACHLOROBENZENE	N.D.	0.0971	N.D.		1
PENTACHLOROPHENOL	N.D.	0.486	N.D.	32.8	1
PHENANTHRENE	N.D.	0.0971	N.D.		1
ANTHRACENE	N.D.	0.0971	N.D.		1
DI-N-BUTYL PHTHALATE	0.977	0.486	0.530		1
FLUORANTHENE	N.D.	0.0971	N.D.	. _	1
PYRENE	N.D.	0.0971	N.D.	67.5	1
BUTYL BENZYL PHTHALATE	N.D.	0.486	N.D.		1
3,3'-DICHLOROBENZIDINE	N.D.	0.194	N.D.		1 .
BĚNZO (A) ANTHRACENE	N.D.	0.0971	N.D.		. 1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.486	N.D.		· <u>1</u>
CHRYSENE	N.D.	0.0971	N.D.		1
DI-N-OCTYL PHTHALATE	N.D.	0.486	N.D.		1
BENZO (B) FLUORANTHENE	N.D.	0.0971	N.D.		1
BENZO (K) FLUORANTHENE	N.D.	0.194	N.D.		1
BENZO (A) PYRENE	N.D.	0.0486	N.D.		1
INDENO(1,2,3 C,D) PYRENE	N.D.	0.194	N.D.		1
DIBENZO (A, H) ANTHRACENE	N.D.	0.194	N.D.		1
BENZO (G, H, I) PERYLENE	N.D.	0.194	N.D.	- -	1
BENZOIC ACID	N.D.	0.486	N.D.		1

Alex Tam Chemist

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Client Project ID: #10-3002-84/003; Date Sampled: 04/30/96 Kleinfelder McGrath Rent Corp. 7133 Koll Center Parkway, # 100 Date Received: 04/30/96 Pleasanton, CA 94566 Date Extracted: 04/30/96 Client Contact: Dan Carroll Date Analyzed: 04/30/96 Client P.O: # R3574 Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX* EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030) % Rec. Ethylben-TPH(g)⁺ **Xylenes** Lab ID Client ID Matrix Benzene Toluene zene Surrogate 99 98 45 300 64601-05 T1-T5 W 1300,a 26 0.5 W 50 ug/L 0.5 0.5 0.5 Reporting Limit unless otherwise stated; ND means not detected above the reporting limit S 1.0 mg/kg 0.005 0.005 0.005 0.005

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

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

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

Kleinfelder				ID: #10-3002-84/003;	Date Sampled: 04/30/96				
7133 Koll Ce	nter Parkway, # 1	00 Mc	Grath Rent Co	огр.	Date Received: 04/30/96				
Pleasanton, (CA 94566	Clie	ent Contact: D	an Carroll	Date Extracted: 04/30/96				
		Clie	ent P.O: # R35	574	Date Analyzed: 05/01/96				
		<u>k</u>	Met	tals by ICP*	<u> </u>				
EPA analytical	methods 6010, 200.7								
Lab ID	Client ID	Matrix	Extraction®		Zinc*				
64601	Ti	W	TTLC		31,i				
64602	T2	w	TTLC		11,i				
64603	Т3	w	TTLC		9.2,i				
64604	T4	W	TTLC		28				
6 4605	T5	w	TTLC		9.9				
6 4606	T6A-T6B	Sludge	TTLC	,	3800				
64607	Т7А-Т7В	Sludge	TTLC		4500				
,									
	nit unless otherwise leans not detected	w	TTLC		0.05				
	reporting limit	S	TTLC		1.0				
1	Ī		1						

^{*} soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

STLC,TCLP

0.05

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

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

Kleinfelder				# 10-3002-84/003;	Date Sampled: 04/30/96						
7133 Koll Center Parkway	# 100	МсСта	th Rent Corp.		Date Received: 04/30/96						
Pleasanton, CA 94566		Client (Contact: Dan Ca	arroll	Date Ex	Date Extracted: 04/30/96					
		Client F	O:#R3574		Date Analyzed: 05/01-05/04/						
			Metal								
EPA methods 6010/200.7; 7060/2	1		2 (Se); 239.2 (Pb, w	rater matrix)							
Lab ID		01-05				Re	porting Li	mit			
Client ID	+	1-T5									
Matrix	.	W			_	S	W	STLC / TCLP			
Extraction	T	TLC				TTLC	TTLC	ICLF			
Compound		. <u> </u>	Concen	tration		mg/kg	mg/L	mg/L			
Arsenic (As)	1	ND				2.5	0.005	0.25			
Cadmium (Cd)	,	ND				0.5	0.01	0.01			
Chromium (Cr)	0	.025				0.5	0.005	0.05			
Copper (Cu)	0	.045				2.0	0.02	0.05			
Lead (Pb)		ND			-	3.0	0.005	0.2			
Nickel (Ni)	0	.033				2.0	0.02	0.05			
Selenium (Se)		ND				2.5	0.005	0.25			
Silver (Ag)		ND				1.0	0.01	0.05			
Zinc (Zn)		14				1.0	0.05	0.05			
% Recovery Surrogate		105									
Comments											

[•] water samples are reported in mg/L, soil samples in mg/kg and all TCLP & STLC extracts in mg/L

ND means not detected above the reporting limit

Edward Hamilton, Lab Director

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

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

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

Kleinfe lde r			Client Project ID: #10-3002-84/003	Date Sampled: 04/30/96				
7133 Koll Ce	nter Parkway, #	100	McGrath Rent Corp.	Date Received: 04/30/96				
Pleasanton, C	CA 94566	(Client Contact: Dan Carroll	Date Extracted: 05/02/96				
			Client P.O: # R3574	Date Analyzed: 05/02/96				
			Total Cys	mide				
	Analytical methods	3	EPA 335.2, 90	10, 9011				
Lab ID	Client ID	Mati	ix Cyanid	e•				
64601-05	T1-T5	w	ND					
	 							
		†						
		 -						
		-	<u></u>					
		-						
Reporting Limi	t unless otherwises	- w	0.02 m	½/L				
tuted; ND m	eans not detected reporting limit	S	1.0 mg					
*	ere reported in ma	of end	oil samples in mg/kg					
_		=	with CA Title 22, Chapter 11, Appendix II					
A Street Security 2	ere evrigoren mi sor	wi wand	mini oze zano sa, onapier 11, Appendix ii					
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QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/30/96

Matrix: Water

	Concent	ration	(ug/L)		% Reco	very	
Analyte	Sample			Amount			RPD
	(#64533) 	MS	MSD	Spiked	MS	MSD	
TPH (gas)	0.0	103.0	104.6	100.0	103.0	104.6	1.5
Benzene	0.0	11.4	11.1	10.0	114.0	111.0	2.7
Toluene	0.0	11.6	11.1	10.0	116.0	111.0	4.4
Ethyl Benzene	0.0	11.6	11.2	10.0	116.0	112.0	3.5
Xylenes	0.0	34.8	33.8	30.0 	116.0	112.7	2.9
TPH (diesel)	0	160	160	150	107	107	0.0
TRPH (oil & grease)	0	20600	21400	23700	 87 	90	3.8

% Rec. - (MS - Sample) / amount spiked x 100

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

QC REPORT FOR METALS

Date: 05/01/96

Matrix: Water

Extraction: TTLC

_	Concent	ration			* Reco	very	
Analyte	(m	g/L)		Amount		•	RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Arsenic	0.0	5.6	5.6	5.0	112	112	
Selenium	0.0	5.2	5.3	5.0	104	105	0.1
Molybdenum	0.0	5.5	5.3	5.0	104		0.7
Silver	0.0	0.5	0.5	0.5	96	107	2.4
Thallium	0.0	4.9	4.9	5.0	99	96	0.3
Barium	0.0	5.0	5.0	5.0		98	0.7
Nickel	0.0	5.5	5.5	5.0	101	100	0.3
Chromium	0.0	5.6	5.4	5.0 5.0	110	109	0.5
Vanadium	0.0	5.4	5.5	5.0 5.0	111	108	2.5
Beryllium	0.0	5.6	5.6		109	110	0.6
Zinc	0.0	5.6	5.6	5.0 5.0	113	113	0.1
Copper	0.0	5.2	5.2	5.0	112	113	0.6
Antimony	0.0	5.4	5.2	5.0	104	104	0.0
Lead	0.0	5.4	5.4	5.0	107	104	3.0
Cadmium	0.0	6.0	5.9	5.0	108	108	0.8
Cobalt	0.0	5.5	5.4	•	120	119	0.7
Mercury	0.000	0.208	0.201	5.0 0.2	111 104	108 101	2.3 3.4

* Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

QC REPORT FOR AA METALS

Date: 05/04/96

Matrix: Water

	Concentration (mg/L)			1	* Reco	* Recovery	
Analyte	Sample	MS	MSD	Amount	MS	MSD	RPD
Total Lead	0.00	4.63	4.54	5.00	93	91	2.0
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

McCAMPBELL ANALYTICAL 110 2ND AVE. SOUTH, #D7 PACHECO, CA 94553

ATTN: EDWARD HAMILTON CLIENT PROJ. ID: 6287 CLIENT PROJ. NAME: K-MRC REPORT DATE: 05/03/96

DATE(S) SAMPLED: 04/30/96

DATE RECEIVED: 05/01/96

AEN WORK ORDER: 9605012

PROJECT SUMMARY:

On May 1, 1996, this laboratory received 1 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larky Klein

Laboratory Director

PAGE 2

McCAMPBELL ANALYTICAL

SAMPLE ID: COMPOSITE 1 - WATER

AEN LAB NO: 9605012-01 AEN WORK ORDER: 9605012 CLIENT PROJ. ID: 6287 DATE SAMPLED: 04/30/96 DATE RECEIVED: 05/01/96 REPORT DATE: 05/03/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT UNITS	DATE ANALYZED
Phenols	EPA 420.1	ND	0.05 mg/L	05/02/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

PAGE OR-1

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9605012 CLIENT PROJECT ID: 6287

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spikes(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analyses.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behaviour, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrument performance.

- D: Surrogates diluted out.
- !: Indicates result outside of established laboratory QC limits.

WORK ORDER: 9605012

QUALITY CONTROL REPORT

PAGE QR-2

ANALYSIS: Phenols

MATRIX: Water

METHOD BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Me INSTRUMENT: Novaspec uv/vis UNITS: mg/L	edia blank		LAB ID: PREPARED:	PHNL_BLNK		INSTR RUN: UV VIS\96050 BATCH ID: DISP050296 DILUTION: 1.000000	03160000/1/
METHOD: EPA 420.1 ANALYTE Total Phenols	RESULT ND	REF Result	REPORTING LIMIT 0.05	SPIKE VALUE	RECOVERY	REC LIMITS (%) LOW HIGH RPD (%)	RPD LIMIT (%)

METHOD SPIKE SAMPLES

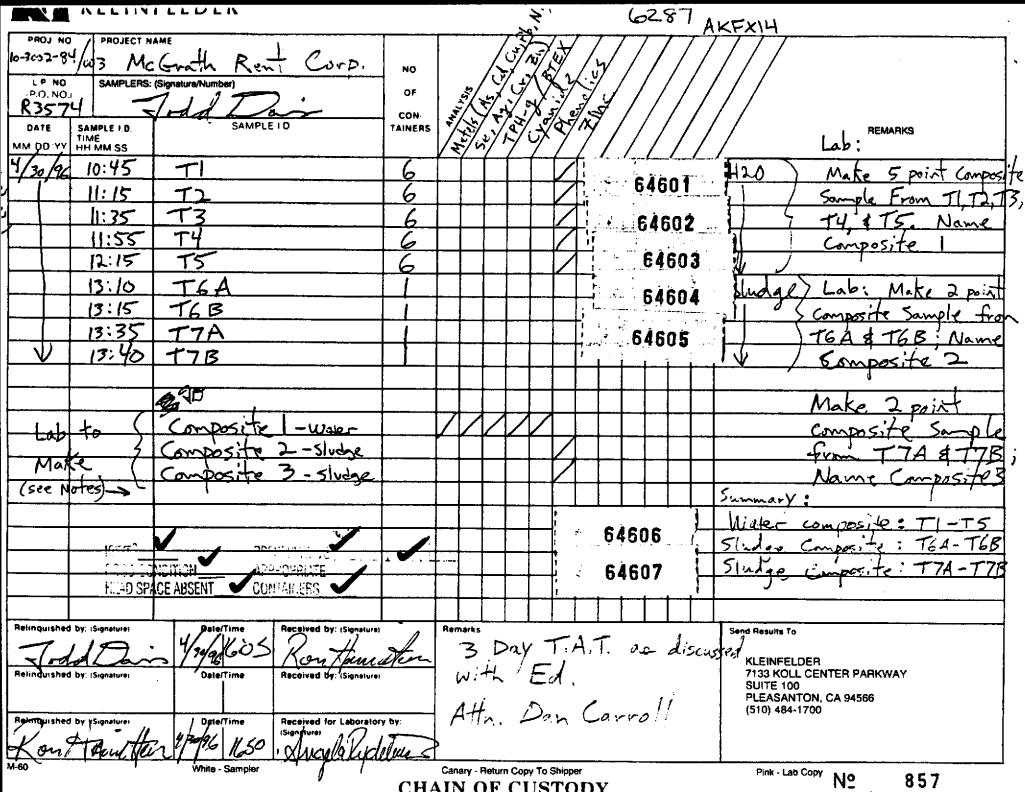
INSTRUMENT: UNITS:	Spike-Method/Me Novaspec uv/vis mg/L			LAB ID: PREPARED ANALYZED	PHNL_MD : : 05/03/96		INSTR RUN: UV VIS\960503160000/3/1 BATCH ID: DISP050296 DILUTION: 1.000000
METHOD:	EPA 420.1	DECIU T	REF	REPORTING	SPIKE VALUE	RECOVERY (*)	REC LIMITS (%) RPD LOW HIGH RPD (%) LIMIT (%)
ANALYTE Total Phenol:	\$	RESULT 0.486	RESULT ND	LIMIT 0.05	0.500	97.2	80 120
	· · · · · · · · · · · · · · · · · · ·						TAKETE DIN 181 VIC DECED 2150000 /2/1
INSTRUMENT: Units:	Spike-Method/Me Novaspec uv/vis mg/L	dia blank spect.		LAB ID: PREPARED ANALYZED	PHNL_MS : 05/03/96		INSTR RUN: UV VIS\960503160000/2/1 BATCH ID: DISP050296 DILUTION: 1.000000
METHOD:	EPA 420.1	BECH! T	REF	REPORTING	SPIKE VALUE	RECOVERY	REC LIMITS (%) RPD LOW HIGH RPD (%) LIMIT (%)
ANALYTE Total Phenol:	s	RESULT 0.499	RESULT ND	LIMIT 0.05	0.500	(*) 99.8	80 120

METHOD SPIKE DUPLICATES

SAMPLE TYPE: Method Spike Samp INSTRUMENT: Novaspec uv/vis S UNITS: mg/L	ole Duplicat		LAB ID: PREPARED:	PHNL_MR 05/03/96		INSTR RUN: UV VIS\96 BATCH ID: DISP05029 DILUTION: 1.000000	
METHOD: EPA 420.1 ANALYTE Total Phenols	RESULT 0.486	REF RESULT 0.499	REPORTING LIMIT 0.05	SPIKE VALUE	RECOVERY	REC LIMITS (%) LOW HIGH RPD (2.64	15

----- End of Quality Control Report -----

R1,54 9605012. CHAIN OF CUSTODY RECORD McCAMPBELL ANALYTICAL 110 2nd AVENUE, # D7 RUSH 24 HOUR 48 HOUR TURN AROUND TIME: PACHECO, CA 94553 (510) 798-1620 FAX (510) 798-1622 5 DAY REPORT TO Sol Hamilton BILL TO: ANALYSIS REQUEST COMPANY, M'Campbell Analytical Total Petroleum Hydrocarbons (418.1) TELE (510) 798-1620 FAX 1 (510) 798-1622 PROJECT NAME: K-MRC - Priority Pollutant Hetals PROJECT NUMBER LEAD (7240/7421/239.2/6010) PROJECT LOCATION CPA 608/8080 - PCBs DNY SAMPLER SIGNATURE COMMENTS THP as Diesel (8015) EPA 624/8240/8260 METHOD TYPE CONTAINERS MATRIX SAMPLING CONTAINERS PRESERVED CAM - 17 Netals BTEX & TPH as <u>Phenolics</u> ORGANGC LEAD RC1 HND, OTHER H.S. EPA 625/8278 EPA 602/8020 EPA 608/8080 SAMPLE EPA 601/8010 LOCATION 10 SLUDGE VATER DT.F.R DATE TIME SOIL AIR 호 4/30/96 10:45 omposite1-OIA 64601water 64605 Medal (DATE TIME REMARKS 5/196 2:05 DATE TIME TIME RECEIVED BY LABORATORY 5-1-96 [1420]



CHAIN OF CUSTODY

Kleinfelder		Client Pr	oject ID:#1	0-3002-84/0	003	Date Samp	led: 03/29/	96			
7133 Koll Cer	nter Parkway, # 100			-		Date Received: 03/29/96					
Pleasanton, C	CA 94566	Client Co	ontact: Kriste	en Scheller	Date Extracted: 03/30-04/03/96						
		Client P.O: Date Analyzed: 03/30-04/03									
EPA methods 5		e (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX* 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)									
Lab I D	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate			
62873	10 E 1700	w	ND	ND	2.3	ND	ND	98			
62874	20 E 1704	w	ND	ND	ND	ND	ND	93			
62875	20 E 1693	s	ND	ND	ND	ND	ND	96			
62876	20 W 1694	S	ND	ND	ND	ND	ND	99			
62877	10 W 1697	s	ND	ND	ND	ND	ND	99			
62878	10 E 1692	S	ND	ND	ND	ND	ND	96			
						1					
Reporting	Limit unless other-	w	50 ug/L	0.5	0.5	0.5	0.5				
wise stated:	ND means not de- e the reporting limit	S	1.0 mg/kg	0.005	0.005	0.005	0.005	1			

^{*} water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

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

Kleinfelde	r		Client Project	ID: # 10-3002-84/003	Date Sampled: 03/	29/96	
7133 Koll (Center Parkway,	, # 100			Date Received: 03	/29/96	
Pleasantor	ı, CA 94566		Client Contac	t: Kristen Scheller	Date Extracted: 03/29/96		
			Client P.O:		Date Analyzed: 03	3/29/96	
EPA analytic	cal methods 6010/20	0. 7 , 239 .2 ¹		Zinc [*]			
Lab ID	Client 1D		Extraction	Zinc		% Rec. Surrogate	
62875	20 E 1693	s	TTLC	270		92	
62876	20 W 1694	s	TTLC	2900		89	
62877	10 W 1697	S	TTLC	1400		97	
62878	10 E 1692	S	TTLC	1200		91	
		-					
wise stated	Limit unless other- i; ND means not de-		TTLC	1.0		-	
tected abov	e the reporting limi	t W	TTLC	0.01		-	
		-	STLC,TCLP	0.05		<u> </u>	

^{*} soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

e EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC from CA Title

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

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

Kleinfe k le	T		Client Projec	t ID: # 10-3002-84/003	Date Sampled: 03	/29/96	
7133 Kol l	Center Parkway,	# 100			Date Received: 03	3/29/96	
Pleas anto :	a, CA 94566		Client Contac	ct: Kristen Scheller	Date Extracted: 03/29/96		
			Client P.O:		Date Analyzed: 0	3/29/96	
EPA analyti	cal methods 6010/200	7. 239 2+		issolved Zinc*			
Lab ID	Client ID		Extraction	Zinc		% Rec. Surrogate	
62873	10 E 1700	w	TTLC	0.27		NA	
62874	20 E 1704	w	TTLC	0.086		NA	
				the sector of th			
_					· · ·		
Reporting	Limit unless other-	S	TTLC	1.0			
wise stated tected abov	; ND means not de- e the reporting limit	w	TTLC	0.01]	
		_	STLC,TCLP	0.05			

[•] soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

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

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/30/96

Matrix: Water

	Concent	ration	(ug/L)	1	* Reco	very	
Analyte	Sample			Amount	!		RPD
	(#62829) _	MS	MSD	Spiked	MS 	MSD	
TPH (gas)	0.0	100.9	99.4	100.0	100.9	99.4	1.5
Benzene	0.0	9.5	9.7	10.0	95.0	97.0	2.1
Toluene	j 0.0	9.5	9.7	10.0	95.0	97.0	2.1
Ethyl Benzene	0.0	9.4	9.6	10.0	94.0	96.0	2.1
Xylenes	0.0	27.6	28.2	30.0	92.0	94.0	2.2
TPH (diesel)	0	146	145	150	97	97	0.8
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

t Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/01/96

Matrix: Soil

	Concent	ration	(mg/kg)	1	* Reco	very	
Analyte	Sample (#62725)	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	1.843	1.643	 2.03	91	81	11.5
Benzene	0.000	0.196	0.198	0.2	98	99	1.0
Toluene	0.000	0.210	0.208	0.2	105	104	1.0
Ethylbenzene	0.000	0.208	0.204	j 0.2 j	104	102	1.9
Xylenes	0.000	0.606	0.602	0.6	101	100	0.7
TPH (diesel)	0	305	295	300	102	98	3.4
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked \times 100

QC REPORT FOR HYDROCARBON ANALYSES

Date:

04/02/96

Matrix: Soil

	Concent	ration	(mg/kg)	1	* Reco	very	
Analyte	Sample			Amount			RPD
	(#62725) 	MS —	MSD	Spiked 	MS	MSD	
TPH (gas)	0.000	1.984	2.085	2.03	98	103	4.9
Benzene	0.000	0.186	0.198	0.2	93	99	6.3
Toluene	0.000	0.188	0.206	i 0.2 i	94	103	9.1
Ethylbenzene	0.000	0.186	0.206	i 0.2	93	103	10.2
Xylenes	0.000	0.546	0.608	0.6	91	101	10.7
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil and grease)	N/A	N/A	N/A	N/A	n/a	N/A	N/A

* Rec. = (MS - Sample) / amount spiked x 100

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/02/96-04/03/96 Matrix: Water

	Concent	ration	(ug/L)		Reco	very	
Analyte	Sample (#62941)	MS	MSD	Amount Spiked 	 MS 	MSD	RPD
TPH (gas) Benzene	0.0	105.2	107.0	100.0	105.2	107.0	1.7
Toluene	0.0	10.9 11.0	11.2	10.0	109.0	112.0	2.7
Ethyl Benzene	0.0	11.0	11.2 11.2	10.0 10.0	110.0 110.0	112.0 112.0	1.8 1.8
Xylenes	0.0	33.3	34.0	30.0	111.0	113.3	2.1
TPH (diesel)	0	147	147	150	98	98	0.3
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

QC REPORT FOR AA METALS

Date: 03/29/96

Matrix: Water

	Concent	ration	(mg/L)		* Reco	very	· · · · · ·
Analyte	Sample	MS	MSD	Amount 	MS	MSD	RPD
Total Lead	0.00	5.43	5.14	5.00	109	103	5.5
Total Cadmium Total Chromium	0.00	5.87 5.46	5.80 5.44	[5.00] 5.00	117 109	116 109	1.3 0.3
Total Nickel Total Zinc	0.00	5.24	5.18	5.00	105	104	1.2
	0.00 -	5.56	5.54	5.00 	111	111	0.4
Total Copper	N/A	N/A	N/A	N/A N/A	N/A	N/A	n/a
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Rec. = (MS - Sample) / amount spiked x 100

QC REPORT FOR AA METALS

Date: 03/29/96

Matrix: Soil

	Concent	ration		j	% Reco	very	
Analyte	(mg	g/kg,mg/	L)	Amount			RPD
	Sample	MS	MSD	Spiked 	MS	MSD	
Total Lead	0.0	4.79	4.79	5.0	96	96	0.1
Total Cadmium	0.0	5.19	5.16	5.0	104	103	0.4
Total Chromium	0.0	4.88	4.83	5.0	98	97	1.0
Total Nickel	0.0	4.76	4.80	j 5.0 j	95	96	0.9
Total Zinc	0.0	4.98	4.94	5.0	100	99	0.7
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	n/a	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

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PROJ NO		3002-84/003	NO			Ž	Y	/	7	$\overline{/}$					/		
100 NO.1 13537	SAMPLERS:	(Signature/Number)	OF CON	A A A			/ 2						/				
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3.29.96	1210	10 E 1700	4	V		V										Dissolut Zn	62873
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	1200	20'W 1694	1	V		v											62875
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	1205	10°E 1672	1.	$ \nu $	_	-	\dashv								_		62877
						7				_							62878
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Kleinfelder		Client Pr	oject ID:#1	0-3002-84.0	Date Sampled: 04/17/96					
7133 Koll Cer	nter Parkway, # 100					Date Rece	Date Received: 04/17/96 Date Extracted: 04/17/96 Date Analyzed: 04/17/96 *, with BTEX* GCFID(5030) Ethylbenzene Xylenes Surrog ND ND 101			
Pleasanton, C	A 94566	Client Co	ontact: Kriste	n Scheller		Date Extra				
		Client P.	O: # R3540			Date Anal	yzed: 04/17	//96		
EPA methods 50	Gasoline Range 30, modified 8015, and 80	(C6-C12) 20 or 602; C	Volatile Hyd California RWQ	lrocarbons CB (SF Bay R	as Gasolin egion) metho	e*, with BT d GCFID(503	EX* 0)			
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben-		% Rec. Surrogate		
63306	E30	S	ND	ND	ND	ND	ND	101		
63307	E40	S	ND	ND	ND	ND	ND	101		
					10000					
-										
	·							-		
					<u></u>	1				
			j .		<u></u>					
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				1						
Reporting	Limit unless other-	w	50 ug/L	0.5	0.5	0.5	0.5			
tected above	ND means not de- the reporting limit	S	1.0 mg/kg	0.005	0.005	0.005	0.005			

[•] water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] chattered chromatogram; sample peak coelutes with surrogate peak

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

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Kleinfelder			Client Project II	D: # 10-3002-84.003	Date Sampled: 04/17/96				
7133 Koll C	enter Parkway, #	100			Date Received: 04/17/96				
Pleasanton,	CA 94566	Ī	Client Contact:	Kristen Scheller	Date Extracted: 04/17/96 Date Analyzed: 04/18/96				
			Client P.O: # R3	3540					
CD4 seeksissi		,		Zinc					
EPA analytical methods 6010/200.7 Lab ID Client ID M			Extraction	Zinc		% Rec. Surrogate			
63306	E30	S	TTLC	100		96			
63307	E40	S	TTLC	69		96			
			1						
						- ··· · · · · · · · · · · · · · · · · ·			
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					·····				
Reporting L	imit unless other- ND means not de-	S	TTLC	1.0					
tected above	the reporting limit	w	TTLC	0.01					
			STLC,TCLP	0.05					

^{*} soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

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

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/16/96-04/17/96 Matrix: Soil

_	Concent	ration	(mg/kg)	1	* Reco	very	
Analyte	Sample (#62721) 	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	1.912	2.046	2.03	94	101	6.8
Benzene Toluene	0.000 0.000	0.194	0.196 0.208	0.2	97	98	1.0
Ethylbenzene	0.000	0.210	0.208	0.2	102 105	104 107	1.9 1.9
Xylenes	0.000	0.628	0.640	0.6	105	107	1.9
TPH (diesel)	0	295	296	300	98	99	0.5
TRPH (oil and grease)	0.0	22.2	22.6	20.8	107	109	1.8

[%] Rec. = (MS - Sample) / amount spiked x 100

RPD = $(MS - MSD) / (MS + MSD) \times 2 \times 100$

QC REPORT FOR METALS

Date: 04/18/96

Matrix: Soil

Extraction: TTLC

	Concent:	ration			* Reco	very	
Analyte	(ms	g/kg)		Amount		RPD	
	Sample	MS	MSD	Spiked	MS	MSD	
Arsenic	0.00	4.71	4.82	5.0	94	96	2.4
Selenium	0.00	4.39	4.56	5.0	88	96 91	2.4
Molybdenum	0.00	4.54	4.64	5.0	91	93	3.9
Silver	0.00	0.40	0.41	0.5	80	93 83	3.0
Thallium	0.0	4.85	4.84	, 5.0 5.0	97	97	0.0
Barium	0.00	4.10	4.20	. 5.0 l	82	84	2.3
Nickel	0.00	4.70	4.82	5.0	94	96	2.5
Chromium	0.00	4.64	4.77	5.0	93	95	2.8
Vanadium	0.00	4.53	4.62	5.0	91	92	1.9
Beryllium	0.00	4.66	4.76	5.0	93	95	2.2
Zinc	0.00	4.68	4.84	5.0	94	97	3.4
Copper	0.00	4.25	4.34	5.0	85	87	2.1
Antimony	0.00	4.48	4.62	5.0 i	90	92	3.1
Lead	0.00	4.45	4.56	5.0 i	89	91	2.4
Cadmium	0.00	4.87	4.99	5.0	97	100	2.6
Cobalt	0.00	4.57	4.66	5.0	91	93	2.1
Mercury	0.000	0.255	0.270	0.25	102	108	5.7

^{*} Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

PROJ NO	PROJECT I	NAME		,				, .	,	,	,						6229 A KFX13
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	g i g i mini		America ny, taignatura					•									7133 KOLL CENTER PARKWAY SUITE 100
Relinguished I	hy (Sinnative)	Detection .	Decelored for A. S														PLEASANTON, CA 94566 (510) 484-1700
	uy. (algnai((e)	Date/Time	Received for Laboratory (Signature)	by:													484 5838 FAX
1-60		White Samples												<u> </u>			<u></u>

White - Sampler

Canary - Return Copy To Shipper

Pink - Lab Copy No.

Kleinfelder		Client 1	Project ID	: # 10-300	Date Sampled: 05/07/96					
7133 Koll Cer	nter Parkway, # 100	McGrath	1 			Date Rece	ived: 05/08	/96		
Pleasanton, C	A 94566	Client Co	ontact: Dan	Carroll		Date Extra	acted: 05/08	3/96		
		Client P.	O: # R3599		Date Analyzed: 05/08/96					
EPA methods 50	Gasoline Range 030, modified 8015, and 80	(C6-C12) 220 or 602; C	Volatile Hyd Selifornia RWQ	irocarbons CB (SF Bay R	as Gasolin egion) metho	e*, with BT dGCFID(503	EX*			
Lab ID	Client ID	Matrix	TPH(g) [†]	Benzene	Toluene	Ethylben- zene	Xyicnes	% Rec. Surrogate		
64870	Composite 6	S	1.4,b,d	ND	0.005	ND	0.008	103		
				•						
						-				
					:					
					-					
Reporting 1	Limit unless other-	W	50 ug/L	0.5	0.5	0.5	0.5			
tected above	ND means not de- the reporting limit	S	1.0 mg/kg	0.005	0.005	0.005	0.005			

^{*} water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

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

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100			Client Proj McGrath	ect ID: #10-3002-84/003;	Date Sampled: 05/07/96 Date Received: 05/08/96			
Pleasanto	n, CA 94566		Client Contac	et: Dan Carroli	Date Extracted: 05/09/96 Date Analyzed: 05/10/96			
			Client P.O:#	R3599				
EPA analyti	cal methods 6010/20	0.7		Total Zinc				
Lab ID	Client ID	Matrix	Extraction	Zinc		% Rec. Surrogate		
64867	Composite 2	S	TTLC	100		93		
64868	Composite 3	S	TTLC	230		96		
64869	Composite 1	Ş	TTLC	260		92		
64870	Composite 6	S	TTLC	190	· · · · · · · · · · · · · · · · · · ·	92		
64871	Composite 5	S	TTLC	170	•	94		
64872	Composite 4	S	TTLC	260		94		
		- · · · ·						
Reporting I	imit unless other- ND means not de-	\$	TTLC	1.0				
ected above	the reporting limit	w	TILC	0.01				
			STLC,TCLP	0.05				

soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

DHS Certification No. 1644

Bdward Hamilton, Lab Director

o EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC from CA Trile

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

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

Pink - Lab Copy NO

65-12-1996

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McCampbell

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