UNDERGROUND STORAGE TANK REMOVAL REPORT

East Fort Baker, CA

Indefinite Delivery Contract For The Removal and Disposal of
Underground Storage Tanks & PCB Transformers in Northern California

Contract No. DACW05-94-D-0020
Delivery Order No. 15
Remove and Dispose of USTs
East Fort Baker, CA

Prepared for:

William R. Cameron
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P.O. Box 935
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Prepared by:

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3233 Lance Drive, Unit 1
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January 1998

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CLOSURE REPORT

Underground Storage Tank Removal
UST 1 and UST 2
East Fort Baker, CA
January, 1998

I. Introduction

This report describes the underground storage tank (UST) removal activities at East Fort Baker in Marin County, California. This work was performed by Remedial Constructors, Inc. (RCI) as part of contract No. DACW05-94-D-0020, Delivery Order No. 15.

Prior to the start of work, RCI submitted a Project Work Plan (PWP) to the USACE for approval. The General Management Plan (GMP), which had previously been submitted to, and approved by, the USACE, describes the procedures employed by RCI personnel during the execution of Delivery Orders awarded under the contract. The PWP supplements the GMP and relates to the procedures being employed for this specific Delivery Order.

II. Summary of Work

East Fort Baker is located just north of the Golden Gate Bridge overlooking San Francisco Bay in Marin County. Access to the site can be obtained by taking the Sausalito exit from Highway 101, then taking either Bunker Road or East Road into East Fort Baker. Public access to East Fort Baker is unrestricted. The installation was established in 1866 to fortify San Francisco Harbor. East Fort Baker encompasses approximately 91 acres and is currently a sub-installation of Fort Lewis.

Work under this delivery order consisted of the removal and disposal / recycling of two (2) four-in-one underground storage tanks (USTs) and associated 2" underground piping; the removal and disposal / recycling of 746 lineal feet of 1-1/2" underground Fuel Distribution System (FDS) piping; and backfilling, compaction and restoration of

the sites to pre-project conditions. This delivery order called for a separate Closure Report for the UST removals and the FDS piping removals. This Closure Report is concerned with the UST removals and 2" UST fuel piping only. The two USTs were located in the hillside approximately 600 feet to the north of the wharf at Horseshoe Bay at East Fort Baker. Each UST contained four separate 1,000 gallon chambers. The chambers of each tank were connected to a manifold piping system. The manifold system was constructed so that each tank had two 1,000 gallon gasoline and two 1,000 diesel chambers. One gasoline and one diesel fuel line ran from the tank manifold piping at the tanks to fuel dispensers located on the wharf. The dispensers were gravity fed. The dispensers at the wharf had been previously removed and the fuel piping was open at the wharf ends.

On November 15, 1996 RCI removed 2,831 gallons of liquids from UST 1. On November 25, 1996 an additional 475 gallons of liquids was removed from the UST fuel piping. UST 2 did not contain any liquids and appeared to have never been used. On November 26, 1996 1,170 linear feet of UST fuel piping was removed from the pipeline excavation. On November 27, 1996 UST 1 was removed from the excavation using a crane. On December 10, 1997 UST 2 was also removed from the excavation using a crane.

On November 27, 1996 RCI collected two soil samples from the tank excavation beneath UST 1 and ten soil samples from the fuel piping trench. Seven soil samples were also collected from the stockpiled soil generated during the removal activities. In addition, two QA and QC samples were also collected.

On December 10, 1996 RCI collected two soil samples from the tank excavation beneath UST 2 and five additional soil samples from the stockpiled soil. One additional QA and QC sample were also collected.

Table 1 summarizes information on the tanks, dates of excavation and removal, waste handlers, and regulatory personnel present. Figure 1 shows the East Fort Baker Area Map. Figure 2 shows the East Fort Baker Location Map. Figure 3 shows the UST Sample Locations. Appendix A contains photographs which document the tank removal process. Appendix B contains copies of the waste disposal manifests. Appendix C contains the complete laboratory analytical reports and associated Chain of Custody documents.

III. Observations During Tank Removal

UST 1 and UST 2 were custom made 4,000 gallon USTs. Each tank was made with four separate 1,000 gallon chambers. Information provided by Fort Baker personnel indicated that at each tank, two of the chambers were plumbed for diesel and two were plumbed for gasoline. The bottom of UST 1 was installed at a depth of 17 feet bgs. The bottom of UST 2 was installed at a depth of 12 feet bgs. Each of the chambers in UST 1 contained a fuel / water mixture. UST 2 was empty and appeared to have never been used. Both of the tanks were removed from a single irregularly shaped excavation with final dimensions of approximately 50 feet by 30 feet by 20 feet deep. After removal both tanks were inspected. UST 1 was in poor condition and was visible areas of corrosion. The soils beneath UST 1 were visually stained, had a high hydrocarbon odor and were obviously contaminated. UST 2 was in good condition. There was no indication of previous use of this tank or signs of contamination of the soils directly beneath the tank. However, there were indications that the leaks from UST 1 had impacted the soils beneath UST 2 at 17 feet bgs and deeper. The UST fuel piping was also found to be in poor condition with numerous signs of corrosion and obvious contamination at the tank and fuel vault pipe connections.

Initially, the excavations were left open pending direction from the COR. Upon approval from the USACE, RCI remobilized to the site to overexcavate to remove contaminated soils. The clean overburden under UST 2 was removed from the excavation and stockpiled. Approximately three feet of contaminated soil was then removed from the bottom of the excavation from 17 feet bgs to 20 feet bgs. After overexcavation, the bottom and sides of the excavation still showed signs of significant contamination. Under direction from the COR, no further overexcavation was performed. RCI lined the excavation with visquine and backfilled with a mixture of clean native and imported material. A total of 623 tons of contaminated soils were hauled off-site for disposal / recycling. No groundwater was encountered during excavation at this site.

IV. Soil Sampling

On November 27, 1996 nineteen soil samples were collected. Two samples, T1-N and T1-S were collected from beneath the ends of tank UST 1 at a depth of 17 feet

bgs. Ten samples, PL-1, PL-2, PL-3, PL-4, PL-5, PL-6, PL-7, PL-8, PL-9 and PL-10 were collected from the UST fuel piping trench at depths from 2 to 12 feet bgs. Seven samples, SP-1, SP-2, SP-3, SP-4, SP-5, SP-6 and SP-7 were collected from the excavated soil stockpiles. In addition, two QA and two QC samples were also collected.

Soil sample analyses were based on the historical contents of UST 1, reported to be gasoline and diesel. Table 2 presents the sample descriptions, sample depths, analysis performed, and sample locations.

On December 10, 1996 seven soil samples were collected. Two samples, T2-N and T2-S were collected from beneath the ends of tank UST 2 at a depth of 12 feet bgs. Five samples, SP-8, SP-9, SP-10, SP-11 and SP-12 were collected from the excavated soil stockpiles. In addition, one QA and one QC samples were also collected.

Soil sample analyses were based on the historical contents of UST 2, reported to be gasoline and diesel. Table 2 presents the sample descriptions, sample depths, analysis performed, and sample locations.

V. Methods and Procedures - Soil Sample Collection

The soil sampling associated with the UST removals were collected under the oversight of the Marin County Office of Waste Management and conformed with the State of California LUFT Manual guidelines for sampling associated with tank removal. Specifically, the sampling procedures were as follows:

- All sampling equipment was thoroughly cleaned prior to use.

- The soil samples were collected from the backhoe bucket. Approximately three inches of soil were removed from the exposed surface prior to driving a sample tube to collect the soil sample.

- Immediately after the sample was collected, each end of the stainless steel sample tube was capped with Teflon sheet and capped and labeled. Care was taken to assure that no head-space was present in the sample tube.

- After labeling, the soil samples were placed in an airtight bag and immediately placed into a refrigerated ice chest. Samples then delivered to a laboratory certified by the USACE and the State of California to perform the specified analyses.

- Chain of custody documentation was maintained for sampling events. Copies are provided in Appendix C.

VI. Laboratory Analysis

Soil samples collected during this tank removal project were analyzed by EMAX Laboratories.

At UST 1, tank excavation soil sample T1-N contained 16,000 mg/kg TPHg, 8,300 mg/kg TPHd, 3,700 µm/kg Toluene, 4,200 µm/kg Ethylbenzene and 25,000 µm/kg Xylenes. Sample T1-S contained 13,000 mg/kg TPHg, 7,600 mg/kg TPHd, 2,200 µm/kg Ethylbenzene and 12,000 µm/kg Xylenes. All other analytes were not detected above the laboratory's reporting limit.

At UST 2, tank excavation soil sample T2-N contained 14.7 mg/kg Lead. Sample T2-S contained 24 mg/kg TPHd and 67.2 mg/kg Lead. All other analytes were not detected above the laboratory's reporting limit.

At the pipeline trench excavation soil sample PL-1 contained 24,000 mg/kg TPHg, 13,000 mg/kg TPHd, 1,700 µm/kg Toluene, 5,400 µm/kg Ethylbenzene, 26,000 µm/kg Xylenes and 14.8 mg/kg Lead. Sample PL-2 contained 9.9 mg/kg TPHg and 95 mg/kg TPHd. Sample PL-3 contained 45 mg/kg TPHd. Sample PL-5 contained 18.5 mg/kg Lead. Sample PL-6 contained 290 mg/kg TPHd and 51.3 mg/kg Lead. Sample PL-8 contained 25 mg/kg TPHd and 15.3 mg/kg Lead. Sample PL-9 contained 82 mg/kg TPHd and 196 mg/kg Lead. Sample PL-10 contained 865 mg/kg Lead. All other analytes were not detected above the laboratory's reporting limit.

At the soil stockpiles soil sample SP-1 contained 32.5 mg/kg Lead. Sample SP-2 contained 120 mg/kg TPHd and 13.6 mg/kg Lead. Sample SP-3 contained 260 mg/kg TPHd. Sample SP-6 contained 98 mg/kg TPHd and 15.2 mg/kg Lead. Sample SP-7 contained 60 mg/kg TPHd. Sample SP-8 contained 19.2 mg/kg Lead. Sample SP-9 contained 16.5 mg/kg Lead. Sample SP-10 contained 20.6 mg/kg Lead. Sample SP-11 contained 36.7 mg/kg Lead. Sample SP-12 contained 21.4 mg/kg Lead. All other analytes were not detected above the laboratory's reporting limit.

Table 3 presents the laboratory analytical results of all samples. The complete laboratory analytical reports are included in Appendix C.

VII. Excavation Backfilling

The excavations were measured and mapped after the tanks and piping was removed and overexcavation was performed. The excavation volume at was measured at 986 cubic yards. As directed by the COR, the tank excavation was lined with visquine and backfilled with a mixture of clean native and imported soil obtained from a local source. The UST fuel pipe trench was also backfilled with a mixture of clean native and imported soil obtained from a local source. The surfaces at of the tank and pipe trench excavations were graded to match the existing areas. Areas of asphalt pavement and aggregate base were also replaced to matching existing surfaces.

VIII. Conclusions

On the basis of our sampling, analysis and observations during the removal of the underground storage tanks, Remedial Constructors, Inc. concludes that:

- Visual observations of the tank excavation and analytical results for soil samples from UST 1 and UST 2 indicate that obvious hydrocarbon contamination is still present in the tank excavation. Additional work to delineate the extent of soil contamination at this site is recommended.

- Analytical results for soil samples from UST fuel piping at were below the Preliminary Remediation Goal (PRG) of 1,000 mg/kg TPHd at this site. These results indicate that there is no threat to human health and/or the environment at this site and it is expected that this site will be closed.

VIIII. Certification

To the best of our knowledge, all statements and information provided above are true and correct.

Elizabeth Gillis Raley, PE
CA Registered Professional Engineer, No. C34700

2-2-98
Date

TABLES

Remedial Constructors, Inc.

TABLE 1 - SUMMARY OF TANK REMOVAL
UST 1 and UST 2
East Fort Baker, CA

Tank Numbers:	UST 1 and UST 2
Contractor:	Remedial Constructors, Inc.
Date Started:	11/13/96
Permitting Agency:	Marin County Office of Waste Management
Date of Removal Permit:	10/22/96
Regulatory Personnel Oversight:	Tim Underwood

Tank No.	State ID No.	Capacity (Gallons)	Type / Material	Contents	Dimensions		Depth		Date of Removal	Comments
					Diameter (Feet)	Length (Feet)	Top (Feet)	Bottom (Feet)		
UST 1	NA	4 by 1,000	SW / S	Diesel / Gasoline	6	20	11	17	11/27/97	Deteriorated, soils very contaminated
UST 2	NA	4 by 1,000	SW / S	Diesel / Gasoline	6	20	6	12	12/10/97	No holes observed Appeared to be unused

Tank Transporter:	Erickson, Inc.
Final Disposition of Soil:	Contaminated soil recycled at Bay Area Soil's Richmond, CA facility.
Final Disposition of Tanks	Cleaned and disposed of as scrap at Erickson's Richmond, CA yard. Concrete fuel vaults cleaned on-site, broken up and disposed of as scrap at local landfill.
Final Disposition of Appurtenances:	Cleaned and disposed of as scrap at Erickson's Richmond, CA yard.
Final Disposition of Tank Contents:	Recycled at Evergreen Oil's Newark, CA facility and Romic's East Palo Alto, CA facility.

Notes: Tank Type SW = Single Wall; DW = Double Wall
Material: TC = Tar Coated; S = Steel; S-FG = Steel coated with Fiberglass; FG = Fiberglass; C = Concrete
4 by 1,000 = Custom built tank consisting of four separate 1,000 gallon compartments. Two diesel and two gasoline.

Remedial Constructors, Inc.

TABLE 2 - SUMMARY OF SAMPLING
Tank Removal - UST 1 and UST 2
East Fort Baker, CA

Sample ID	Depth (ft)	Analysis	Sample Location	Sample Description
Tank Excavation Soil Samples				
T1-N	17	TPHg, TPHd, BTEX, Lead	UST 1 North End	Sand and Gravel w/ silty clay matrix
T1-S	17	TPHg, TPHd, BTEX, Lead	UST 1 South End	Sand and Gravel w/ silty clay matrix
T2-N	12	TPHg, TPHd, BTEX, Lead	UST 2 North End	Sand and Gravel w/ silty clay matrix
T2-S	12	TPHg, TPHd, BTEX, Lead	UST 2 South End	Sand and Gravel w/ silty clay matrix
Pipeline Trench Excavation Soil Samples				
PL-1	12	TPHg, TPHd, BTEX, Lead	UST Pipeline Trench	Sand and Gravel w/ silty clay matrix
PL-2	2	TPHg, TPHd, BTEX, Lead	UST Pipeline Trench	Sand and Gravel w/ silty clay matrix
PL-3	2	TPHg, TPHd, BTEX, Lead	UST Pipeline Trench	Sand and Gravel w/ silty clay matrix
PL-4	5	TPHg, TPHd, BTEX, Lead	UST Pipeline Trench	Sand and Gravel w/ silty clay matrix
PL-5	5	TPHg, TPHd, BTEX, Lead	UST Pipeline Trench	Sand and Gravel w/ silty clay matrix
PL-6	5	TPHg, TPHd, BTEX, Lead	UST Pipeline Trench	Sand and Gravel w/ silty clay matrix
PL-7	3	TPHg, TPHd, BTEX, Lead	UST Pipeline Trench	Sand and Gravel w/ silty clay matrix
PL-8	3	TPHg, TPHd, BTEX, Lead	UST Pipeline Trench	Sand and Gravel w/ silty clay matrix
PL-9	3	TPHg, TPHd, BTEX, Lead	UST Pipeline Trench	Sand and Gravel w/ silty clay matrix
PL-10	2	TPHg, TPHd, BTEX, Lead	UST Pipeline Trench	Sand and Gravel w/ silty clay matrix
Stockpile Soil Samples				
SP-1	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-2	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-3	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-4	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-5	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-6	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-7	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-8	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-9	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-10	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-11	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix
SP-12	-	TPHg, TPHd, BTEX, Lead	Soil Stockpile	Sand and Gravel w/ silty clay matrix

TPHg = Total petroleum hydrocarbons as gasoline (Modified EPA SW-846 Method 8015).
TPHd = Total petroleum hydrocarbons as diesel (Modified EPA SW-846 Method 8015).
BTEX = Benzene, Toluene, Ethylbenzene, and total Xylenes (Modified SA-845 Methods 5030/8020).
Lead = Lead (Metals by ICP EPA Method 3050 / 6010)

Remedial Constructors, Inc.

TABLE 3 - RESULTS OF SOIL SAMPLE ANALYSIS

Tank Removal - UST 1 and UST 2

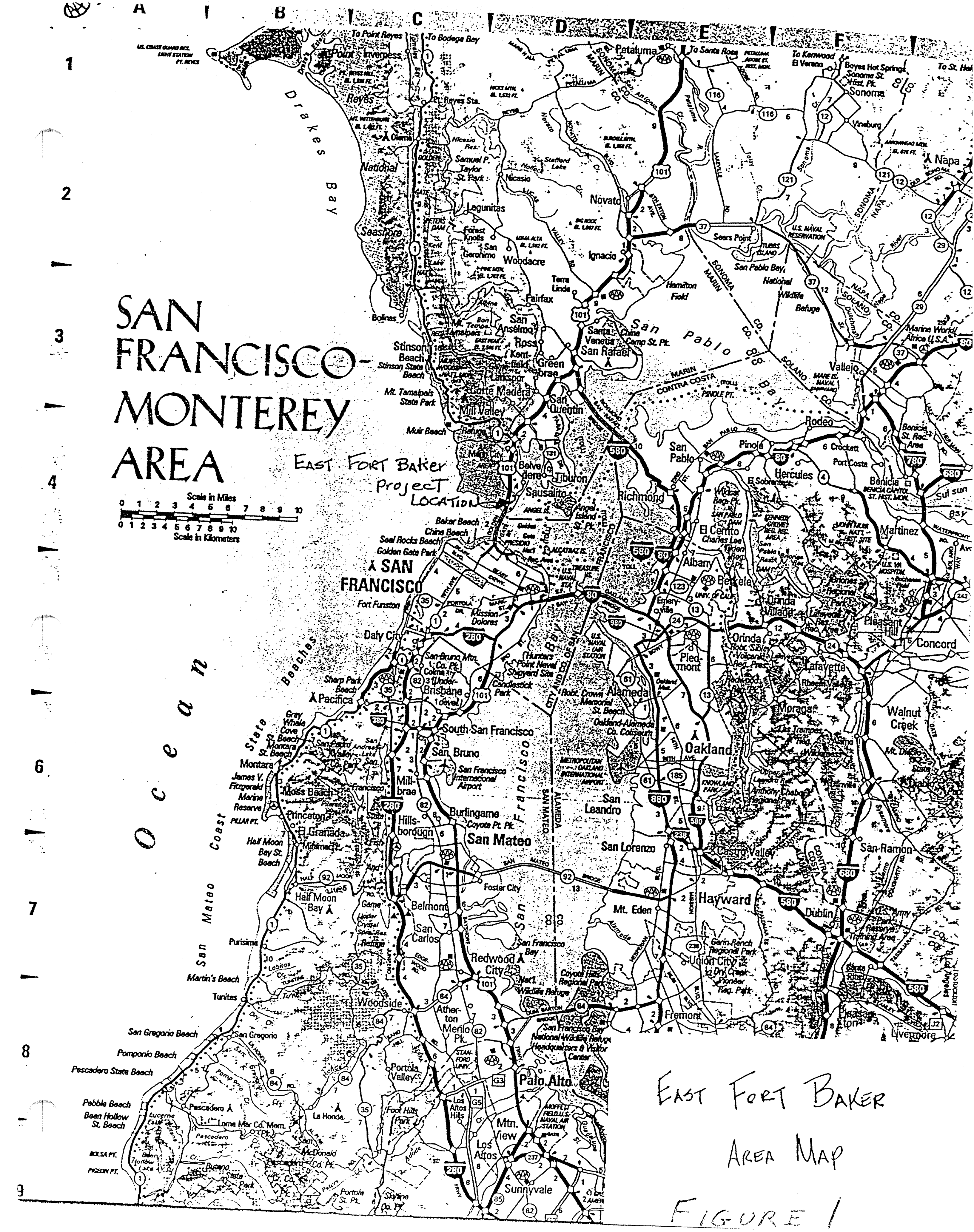
East Fort Baker, CA

Sample ID	Sample Date	TPHg as Gasoline (mg/kg)	TPHd as Diesel (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethyl-benzene (µg/kg)	Total Xylenes (µg/kg)	Lead (mg/kg)
Tank Excavation Soil Samples								
T1-N	11/27/96	16,000	8,300	ND (1210)	3,700	4,200	25,000	ND (12.1)
T1-S	11/27/96	13,000	7,600	ND (1232)	ND (1232)	2,200	12,000	ND (12.3)
T2-N	12/10/96	ND (.67)	ND (2.69)	ND(6.72)	ND(6.72)	ND(6.72)	ND (20,2)	14.7
T2-S	12/10/96	ND (.61)	24	ND (6.08)	ND (6.08)	ND (6.08)	ND (18.2)	67.2
Pipeline Trench Excavation Soil Samples								
PL-1	11/27/97	24,000	13,000	ND (1242)	1,700	5,400	26,000	14.8
PL-2	11/27/97	9.9	95	ND (5.81)	ND (5.81)	ND (5.81)	ND (17.4)	ND (11.6)
PL-3	11/27/97	ND (.67)	45	ND (6.69)	ND (6.69)	ND (6.69)	ND (20.1)	ND (13.4)
PL-4	11/27/97	ND (.67)	ND (2.67)	ND (6.67)	ND (6.67)	ND (6.67)	ND (20)	ND (13.3)
PL-5	11/27/97	ND (.58)	ND (2.31)	ND (5.79)	ND (5.79)	ND (5.79)	ND (17.4)	18.5
PL-6	11/27/97	ND (.61)	290	ND (6.13)	ND (6.13)	ND (6.13)	ND (18.4)	51.3
PL-7	11/27/97	ND (.6)	ND (2.42)	ND (6.05)	ND (6.05)	ND (6.05)	ND (18.1)	ND (12.1)
PL-8	11/27/97	ND (.61)	25	ND (6.12)	ND (6.12)	ND (6.12)	ND (18.4)	15.3
PL-9	11/27/97	ND (.63)	82	ND (6.28)	ND (6.28)	ND (6.28)	ND (18.8)	196
PL-10	11/27/97	ND (.6)	ND (2.39)	ND (5.98)	ND (5.98)	ND (5.98)	ND (17.9)	865
Stockpile Soil Samples								
SP-1	11/27/97	ND (.61)	ND (2.46)	ND (6.14)	ND (6.14)	ND (6.14)	ND (18.4)	32.5
SP-2	11/27/97	ND (.6)	120	ND (5.96)	ND (5.96)	ND (5.96)	ND (17.9)	13.6
SP-3	11/27/97	ND (.56)	260	ND (5.64)	ND (5.64)	ND (5.64)	ND (16.9)	ND (11.3)
SP-4	11/27/97	ND (.6)	ND (2.4)	ND (6.01)	ND (6.01)	ND (6.01)	ND (18)	ND (12)
SP-5	11/27/97	ND (.57)	ND (2.29)	ND (5.71)	ND (5.71)	ND (5.71)	ND (17.1)	ND (11.4)
SP-6	11/27/97	ND (.57)	98	ND (5.66)	ND (5.66)	ND (5.66)	ND (17)	15.2
SP-7	11/27/97	ND (.57)	60	ND (5.74)	ND (5.74)	ND (5.74)	ND (17.2)	ND (11.5)
SP-8	12/10/96	ND (.61)	ND (2.44)	ND (6.11)	ND (6.11)	ND (6.11)	ND (18.3)	19.2
SP-9	12/10/96	ND (.56)	ND (2.26)	ND (5.65)	ND (5.65)	ND (5.65)	ND (16.9)	16.5
SP-10	12/10/96	ND (.65)	ND (2.6)	ND (6.49)	ND (6.49)	ND (6.49)	ND (19.5)	20.6
SP-11	12/10/96	ND (.61)	ND (2.45)	ND (6.13)	ND (6.13)	ND (6.13)	ND (18.4)	36.7
SP-12	12/10/96	ND (.63)	ND (2.53)	ND (6.34)	ND (6.34)	ND (6.34)	ND (19)	21.4

Notes:

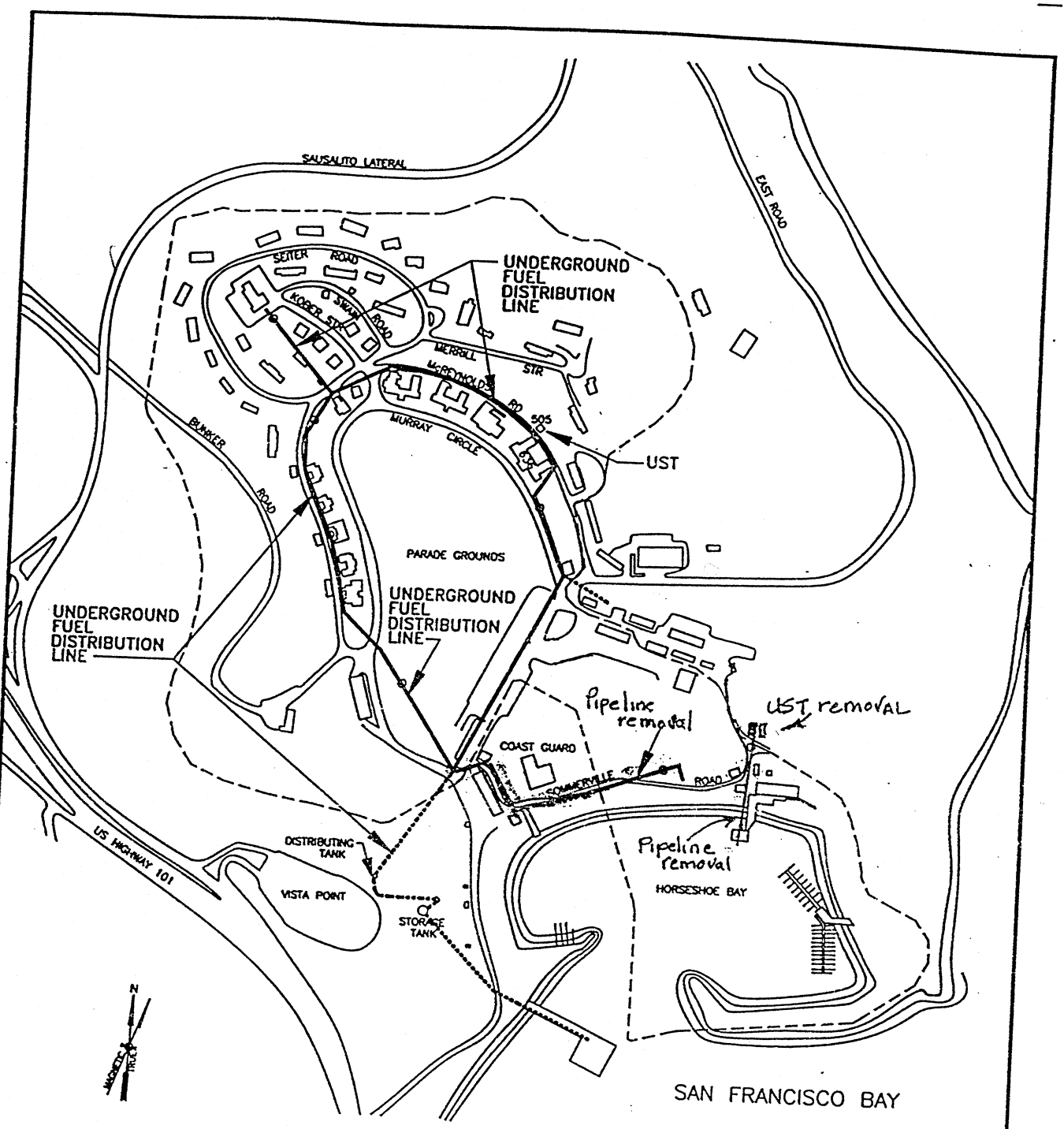
TPHg =	Total petroleum hydrocarbons as gasoline (Modified EPA SW-846 Method 8015).
TPHd =	Total petroleum hydrocarbons as diesel (Modified EPA SW-846 Method 8015).
BTEX =	Benzene, Toluene, Ethylbenzene, and total Xylenes (Modified SA-845 Methods 5030/8020).
Lead =	Lead (Metals by ICP EPA Method 3050 / 6010)
NA =	Not sampled / analyzed
ND =	Not Detected above the method detection limit shown in parenthesis

FIGURES



East Fort Baker Area Map

Figure 1



GRAPHIC SCALE: 1"=500'

0' 250' 500' 1000' 1500' 2000' 2500'

LEGEND:

- PROPOSED EXCAVATION SITES
- BRAC BOUNDRY
- FUEL DISTRIBUTION LINE

DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT,
CORPS OF ENGINEERS
JUNE 1996

EAST FORT BAKER — MARIN COUNTY, CALIFORNIA

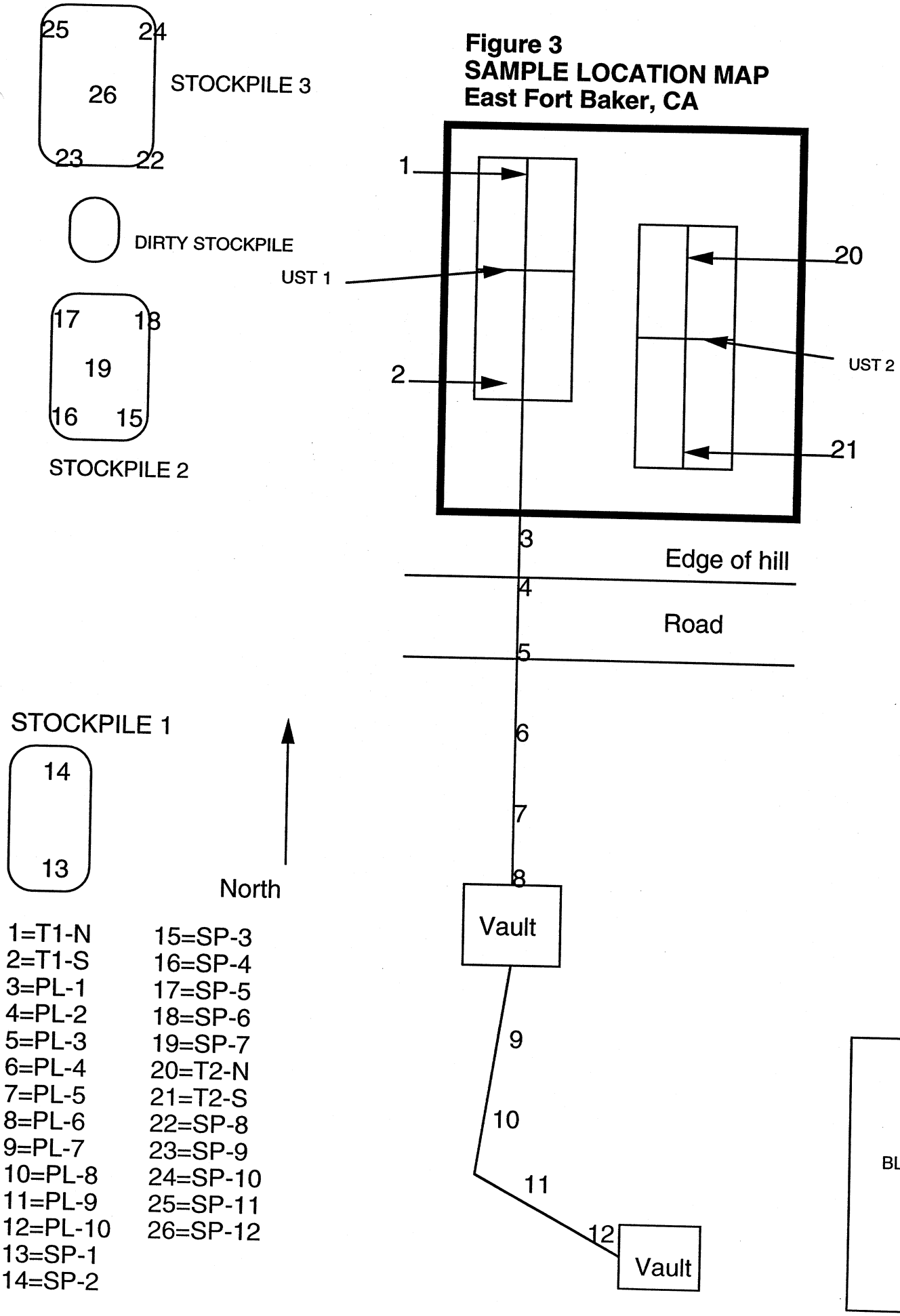
LOCATION MAP

SCALE: 1" = 500'

FIGURE: 2

C:\PROJECTS\M-MAIDR\BAKRMM03.DWG, 1"=500', 6/26/96, 1500

Figure 3
SAMPLE LOCATION MAP
East Fort Baker, CA



1=T1-N
2=T1-S
3=PL-1
4=PL-2
5=PL-3
6=PL-4
7=PL-5
8=PL-6
9=PL-7
10=PL-8
11=PL-9
12=PL-10
13=SP-1
14=SP-2
15=SP-3
16=SP-4
17=SP-5
18=SP-6
19=SP-7
20=T2-N
21=T2-S
22=SP-8
23=SP-9
24=SP-10
25=SP-11
26=SP-12

APPENDICES

APPENDIX A

Photographic Record

Delivery Order No. 15 Contract No. DACW05-94-D-0020
Remove and Dispose of USTs
Fort Baker, California

Remedial Constructors, Inc. Stockton, CA

Photo - 1 November 13, 1996

Exposing USTs in hillside above wharf.

Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc.

Stockton, CA

Photo - 2

November 13, 1996

Pipeline running from USTs to wharf prior to excavation.

Delivery Order No. 15 — Contract No. DACW05-94-D-0020
Remove and Dispose of USTs
Fort Baker, California

Remedial Constructors, Inc. — Stockton, CA

Photo - 3 — November 14, 1996

Exposing pipeline running from USTs to wharf.

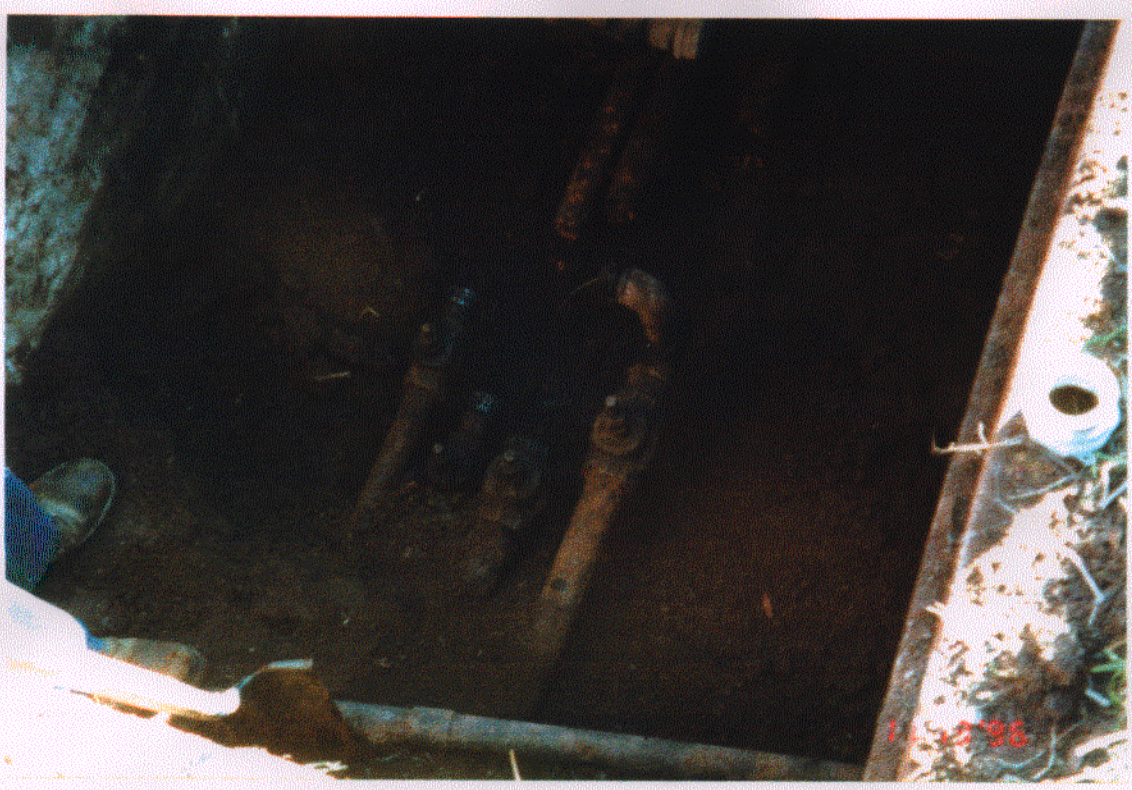
Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc. Stockton, CA

Photo - 4 November 15, 1996

Exposing valve box in pipeline running from USTs to wharf.



Delivery Order No. 15 Contract No. DACW05-94-D-0020
Remove and Dispose of USTs
Fort Baker, California

Remedial Constructors, Inc. Stockton, CA

Photo - 5 November 15, 1996

Valve box after removal of valves.

Delivery Order No. 15 Contract No. DACW05-94-D-0020
Remove and Dispose of USTs
Fort Baker, California

Remedial Constructors, Inc. Stockton, CA

Photo - 6 November 15, 1996

Excavation of UST pipeline from valve box to USTs.

Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc. Stockton, CA

Photo - 7 November 18, 1996

Excavation of UST pipeline at hillside. Note contaminated soil.

Delivery Order No. 15 Contract No. DACW05-94-D-0020
Remove and Dispose of USTs
Fort Baker, California

Remedial Constructors, Inc. Stockton, CA

Photo - 8 November 18, 1996

Excavation of UST pipeline at hillside. Note contaminated soil and free product.

Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc.

Stockton, CA

Photo - 9

November 27, 1996

Placing dry ice in UST 1.

Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc.

Stockton, CA

Photo - 10

November 27, 1996

Checing LEL in UST 1.

Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc.

Stockton, CA

Photo - 11

November 27, 1996

Removal of UST 1 via crane.

Delivery Order No. 15 Contract No. DACW05-94-D-0020
Remove and Dispose of USTs
Fort Baker, California

Remedial Constructors, Inc. Stockton, CA

Photo - 12 November 27, 1996

Loading UST 1 for transportation to disposal facility.

Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc.

Stockton, CA

Photo - 13

December 10, 1996

Removal of UST 2 via crane.

Delivery Order No. 15 Contract No. DACW05-94-D-0020
Remove and Dispose of USTs
Fort Baker, California

Remedial Constructors, Inc. Stockton, CA

Photo - 14 December 10, 1996

Removal of UST 2 via crane. Note dented tank condition.

Delivery Order No. 15 Contract No. DACW05-94-D-0020
Remove and Dispose of USTs
Fort Baker, California

Remedial Constructors, Inc. Stockton, CA

Photo - 15 June 30, 1997

Compacting excavation bottom.

Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc.

Stockton, CA

Photo - 16

June 30, 1997

Compacting excavation bottom.

Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc.

Stockton, CA

Photo - 17

June 30, 1997

Lining excavation with plastic.

Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc.

Stockton, CA

Photo - 18

June 30, 1997

Backfilling excavation.

Delivery Order No. 15
Remove and Dispose of USTs
Fort Baker, California

Contract No. DACW05-94-D-0020

Remedial Constructors, Inc.

Stockton, CA

Photo - 19

July 2, 1997

USTs 1 and 2 final grade.

APPENDIX B

Manifests

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

96958

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAC001311808343		1 of 1	

3. Generator's Name and Mailing Address
U.S ARMY CORP OF ENGINEERS
1325 J ST SACRAMENTO CA 95814-2922

4. Generator's Phone (916) 557-5241

A. State Manifest Document Number 9643413

B. State Generator's ID

5. Transporter 1 Company Name ERICKSON INC

6. US EPA ID Number CAD009466392

C. State Transporter's ID

D. Transporter's Phone (510) 235-1393

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, CA. 94801

10. US EPA ID Number CAD009466392

G. State Facility's ID CAD009466392

H. Facility's Phone (510)235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.	001	TP	14000	P	State CA2
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
Qty. 1 Empty Storage Tank(s) #1932
Tank(s) have been inerted with 15 lbs dry ice per 1000 gallon capacity.

K. Handling Codes for Wastes Listed Above
a. 01 b.
c. d.

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hard hats when working around U.G.S.T.'s 24 Hr. Contact Name. FORT BAKER CAM HALLOCK Phone DAY - 209-964-0282 NIGHT - 916-686-6154
DACW05-94-D-0020 DO#15

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

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

GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
MICHAEL M BAILEY ON BEHALF OF USAE	Michael M Bailey ON BEHALF OF USACE	11	27	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name	Signature	Month	Day	Year
PAUL JACOBO	Paul Jacobo	11	27	96
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year
DAVID SATO	DAVE SATO	12	02	96

DO NOT WRITE BELOW THIS LINE.

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

9643413

DTSC 8022A (1/95)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

State of California—Environmental Protection
Form Approved OMB No. 2050-0039 (Expire 9/96)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.
CAC001311808	93050	1 of 1	

3. Generator's Name and Mailing Address
U.S. ARMY CORP. OF ENGINEERS
~~P.O. BOX 935~~ 1325 J ST. SACRAMENTO CA 95814-2922
~~WEST SACRAMENTO, CA 95691~~

4. Generator's Phone ~~(916) 375-1647~~ (916) 557-5241

A. State Manifest Document Number: 95593050

B. State Generator's ID:

5. Transporter 1 Company Name: ERICKSON INC

6. US EPA ID Number: CAD009466392

C. State Transporter's ID:

D. Transporter's Phone: 510-235-1393

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Erickson, Inc.
255 Parr Blvd.
Richmond, CA. 94801

10. US EPA ID Number: CAD009466392

G. State Facility's ID: CAD009466392

H. Facility's Phone: (510)235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.	001	T P	4000	P	State: 512 / EPA/Other: NONE
b.					State: / EPA/Other:
c.					State: / EPA/Other:
d.					State: / EPA/Other:

J. Additional Descriptions for Materials Listed Above
Qty. 1 Empty Storage Tank(s)# 1937, ____, ____, ____, ____. Tank(s) have been inerted with 15 lbs. Dry Ice Per 1000 Gallon Capacity. t

K. Handling Codes for Wastes Listed Above
a. 01 b. c. d.

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name. Mark Hallock & Phone (916) 686-6154 EVG
(209) 464-0282 DAG

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

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

Printed/Typed Name	Signature	Month	Day	Year
MICHAEL MCALLEY ON BEHALF USACE	ON BEHALF OF USACE	12	10	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Philip Reed	Philip Reed	12	10	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year
DAVID SATO	DAVE SATO	12	10	96

DO NOT WRITE BELOW THIS LINE.

GENERATOR — TRANSPORTER — FACILITY

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

DTSC 8022A (1/95)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 13145

CUSTOMER PENBERTHY CONST

JOB NO. 105681

FOR: ERICKSON, INC. TANK NO. 1934

LOCATION: RICHMOND DATE: 96/12/31 TIME: 11:05

TEST METHOD VISUAL CASTECH/1314 SMEN LAST PRODUCT D

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 4000 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK WAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SUPPLIED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

e undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Francisco Chavez — REPRESENTATIVE

TITLE

Dave Soto — INSPECTOR

CP5995

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 13146

CUSTOMER

JOB NO.

FOR: ERICKSON, INC. TANK NO. 19371

LOCATION: RICHMOND DATE: 96/12/31 TIME: 1105

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 4000 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

e undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Francisco Chavez — REPRESENTATIVE

TITLE

Dave Sato — INSPECTOR

CP5995

Liquid Disposal

Remove and Dispose of USTs
Fort Baker, CA
Delivery Order No. 15
Contract DACW05-94-D-0020

Date	Manifest Number	Gallons	Sludge (gal)	R.T. Miles	Facility	Progress Period
11/15/96	95780547*	1100	-	134	ROMIC	1
11/15/96	96434251*	1731	-	115	Evergreen	
11/25/97	947845585*	475	-	115	Evergreen	2
3/19/97	96417200**	45	-	115	Evergreen	

Total Liquids 3,351

Total Sludge 0

Total Miles 479

* Liquid removed from USTs
** Liquid removed from FDS Pipeline

...ia—Environmental Protection Agency
...ed OMB No. 2050-0039 (Expires 9-30-96)
...or type. · Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC001311809805 4 7 — Manifest Document No.
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
US ARMY CORP OF ENGINEERS
1325 J ST SACRAMENTO CA 95814-2922

4. Generator's Phone (916) 557-5241

A. State Manifest Document Number: 95780547
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: (510) 235-4993
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID: CAD009457654
H. Facility's Phone: (415) 324-1638

5. Transporter 1 Company Name: Erickson, Inc.
6. US EPA ID Number: CAD009466392

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

9. Designated Facility Name and Site Address
Romic Chemical Corp.
2081 Bay Road
East Palo Alto, CA 94303
10. US EPA ID Number: CAD009452657

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Numbers
a. R.Q. Waste Gasloine Mixture, 3, UN 1203 PG II ERG #27 (D001 D018)	001	TT	01100	G	State 223 EPA/Other D001
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
Petroleum Hydrocarbon 70 - 100%
Water 0 - 30%
Profile # 20573 Tank D018

K. Handling Codes for Wastes Listed Above
a. 01
b.

15. Special Handling Instructions and Additional Information
ERG 31
24 Hr. Contact MARK HALLOCK DAY 209-464-0282
24 Hr. Contact NIGHT 916-686-6154

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

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

Printed/Typed Name: MICHAEL M BAILEY FOR U.S.A.C.E. — Signature: Michael M Bailey ON BEHALF OF U.S.A.C.E — Month 1 1 Day 1 5 Year 9 6

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: CHRIS PETERSON — Signature: — Month 1 1 Day 1 5 Year 9 6

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space
Profile should be 205773. G.E.B

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: HERRERA — Signature: — Month 1 1 Day 1 5 Year 9 6

DO NOT WRITE BELOW THIS LINE.

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

GENERATOR — TRANSPORTER — FACILITY

DTSC 8022A (1/95)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances C
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC013118083 — Manifest Document No. 4251 — 2. Page 1 of — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
U.S ARMY CORP OF ENGINEERS
1325 J ST SACRAMENTO CA 95814-2922

4. Generator's Phone (916) 557-6241

A. State Manifest Document Number: 9643425

B. State Generator's ID

5. Transporter 1 Company Name — 6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone (510) 235-1393

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

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address — 10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone (510)795-4401

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA Hazardous Waste Liquids Used Oil	001	TT	011715	G	State 221 / EPA/Other NONE
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: Used Oil

K. Handling Codes for Wastes Listed Above: a. b. c. d.

15. Special Handling Instructions and Additional Information

24 Hour Contact MARK HALLOCK DAY - 209-464-0282 NIGHT - 916-686-6154

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

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

Printed/Typed Name: MICHAEL M BAILEY ON BEHALF OF U.S.A.C.E — Signature: ON BEHALF OF U.S.A.C.E — Month 11 Day 15 Year 9(

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Chris Peterson — Signature — Month 11 Day 15 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

DO NOT WRITE BELOW THIS LINE.

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

9643425 1

GENERATOR

DTSC 8022A (1/95)
EPA 8700—22

Blue: GENERATOR SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 400, Sacramento, CA 95812-0400

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Co
Sacramento, California

95784585

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-0

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.
CAC001131198884	5 8 5 5T	1 of 1	

GENERATOR

3. Generator's Name and Mailing Address
US ARMY CORPS OF ENGINEERS
1325 J ST SACRAMENTO CA 95814-2922

4. Generator's Phone (916) 557-5241

A. State Manifest Document Number: 9578458

B. State Generator's ID:

5. Transporter 1 Company Name: ERICKSON

6. US EPA ID Number: CAD009474633

C. State Transporter's ID:

D. Transporter's Phone: (510) 235-1393

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address:

10. US EPA ID Number:

G. State Facility's ID:

H. Facility's Phone:

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON RCRA HAZARDOUS WASTE LIQUID	001	TT	00475	G	State 221 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
WATER/DIESEL

K. Handling Codes for Wastes Listed Above
a. b.
c. d.

15. Special Handling Instructions and Additional Information
24 HOUR CONTACT MATIK HALLOCK DAY - 209-464-0
NIGHT - 916-686-6

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

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Printed/Typed Name	Signature	Month	Day	Ye
MICHAEL MRAUZ ON BEHALF OF USACE		1	25	9

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Ye
STANLEY D. WILLS	Stanley D Wills	1	25	9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Ye

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Ye

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/95)
EPA 8700—22

Yellow: GENERATOR RETAIN

Soil Disposal

Remove and Dispose of USTs
Fort Baker, CA
Delivery Order No. 15
Contract DACW05-94-D-0020

Date	Manifest Number	Tons	Facility	Progress Period
4/7/97	20591	21.89	Bay area Soils	
4/7/97	20592	26.37	Bay area Soils	
4/7/97	20593	24.09	Bay area Soils	
4/7/97	20594	23.09	Bay area Soils	
4/7/97	20595	21.29	Bay area Soils	
4/7/97	20596	23.33	Bay area Soils	
4/7/97	20597	22.23	Bay area Soils	
4/7/97	20598	24.11	Bay area Soils	
4/7/97	20599	25.83	Bay area Soils	
4/7/97	20600	22.65	Bay area Soils	
4/7/97	20601	26.43	Bay area Soils	
4/7/97	20602	21.98	Bay area Soils	
4/7/97	20603	22.08	Bay area Soils	
4/7/97	20604	23.33	Bay area Soils	2
4/7/97	20605	18.24	Bay area Soils	
4/7/97	20608	21.70	Bay area Soils	
4/7/97	20609	20.85	Bay area Soils	
4/7/97	20610	22.54	Bay area Soils	
4/7/97	20611	20.46	Bay area Soils	
4/7/97	20612	21.55	Bay area Soils	
4/7/97	20613	23.87	Bay area Soils	
4/7/97	20614	21.15	Bay area Soils	
4/7/97	20615	21.01	Bay area Soils	
4/7/97	20616	24.67	Bay area Soils	
4/7/97	20617	17.79	Bay area Soils	
4/7/97	20618	11.84	Bay area Soils	
4/7/97	20619	25.94	Bay area Soils	
4/7/97	20620	22.89	Bay area Soils	

Total Soils 623.11

NON-HAZARDOUS

020591

MATERIALS MANIFEST

Sheet1

GENERATOR

Site Address Army Corps Of Engineers

Mailing Fort Baker

Phone :( ) Sausalito,Ca Contact:

TRANSPORTER

Address Dillard Trucking

P.O.Box 579

Phone :( ) Byron,Ca. Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Henry Hagler Signature

Truck No. 991 - 300 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner

Address RCI

3233 Lance Dr.Unit 1

Phone :( ) Stockton,Ca Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL

2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:

DATE: 4/7/97

Control No: S 9770

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020592

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 578
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Daniel Burgess Signature

Truck No. 1047 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/7/99
Control No: S 9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020593

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: A Diaz Edwards Signature

Truck No. X 189 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/7/97
Control No: S 9770

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020594

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: David R Shephpa Signature

Truck No. 091 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/17/97
Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020595

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: PHIL ROUSE Signature

Truck No. #891 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/7/97
Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020596

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: EDWARD A. ROUSE Signature

Truck No. X 691 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 11/7/96
Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020597

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: [illegible] Signature

Truck No. 1047 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/5/97
Control No: S 0770

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020598

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: D Henry Hastings Signature

Truck No. X 991 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/17/97
Control No: S 0770

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. LL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020599

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: X Don Edwards Signature

Truck No. X 189 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/7/97
Control No: S 0779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020600

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Signature

Truck No. X 891 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 9/12/97
Control No: S 9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020601

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: EDWARD A ROUSE Signature

Truck No. X 691 Ship Date: 0

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE:
Control No: S 9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020602

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Phil Ram Signature

Truck No. #291 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 7/7/97
Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020603

Sheet 1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker
Sausalito, Ca

Mailing _____

Phone :( ) _____ Contact: _____

TRANSPORTER Dillard Trucking

Address P.O. Box 579
Byron, Ca.

Phone :( ) _____ Contact: _____

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: _____ Signature _____

Truck No. 391 Ship Date: _____

Time of Pick-Up: _____ Time of Delivery: _____

Consultant/Owner RCI

Address 3233 Lance Dr. Unit 1
Stockton, Ca.

Phone :( ) _____ Contact: _____

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name _____ Date: _____

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY: _____
DATE: 11/7/97
Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020604

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker
Sausalito,Ca

Mailing _____

Phone :( ) _____ Contact: _____

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) _____ Contact: _____

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: [illegible] Signature _____

Truck No. 991 Ship Date: _____

Time of Pick-Up: _____ Time of Delivery: _____

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) _____ Contact: _____

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name _____ Date: _____

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY: [illegible]
DATE: 11/7/97
Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020605

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: James Bryant Signature

Truck No. 1147 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/7/97
Control No: S 9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020608

Sheet1

MATERIALS MANIFEST

GENERATOR

Site Address ~~Army Corps Of Engineers~~

Mailing Fort Baker

Phone :( ) Sausalito,Ca Contact:

TRANSPORTER

Address ~~Dillard Trucking~~

P.O.Box 579

Phone :( ) Byron,Ca. Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Signature

Truck No. 091 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner

Address ~~RCI~~

3233 Lance Dr.Unit 1

Phone :( ) Stockton,Ca. Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL

2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:

DATE: 11/7/97

Control No:

S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020609

Sheet1

MATERIALS MANIFEST

GENERATOR

Site Address: Army Corps Of Engineers

Mailing: Fort Baker

Phone :( ) Sausalito,Ca Contact:

TRANSPORTER

Address: Dillard Trucking

P.O.Box 579

Phone :( ) Byron,Ca. Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: EDWARD A ROUSE Signature

Truck No. 691 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner

Address: RCI

3233 Lance Dr.Unit 1

Phone :( ) Stockton,Ca. Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL

2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:

DATE: 4/9/97

Control No: S-0779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020610

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker
Sausalito,Ca.

Mailing

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Signature

Truck No. #291 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE:
Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020611

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker
Sausalito,Ca.

Mailing

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Lisa Edwards Signature

Truck No. 189 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4-17-07
Control No: 8979

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020612

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: James Byars Signature

Truck No. X 1047 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 11/2/97
Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020613

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579

Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Henry Haslett Signature

Truck No. 991 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr Unit 1

Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL

2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:

DATE: 4/15/97

Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020614

Sheet 1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito, Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron, Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: X Jina Edwards Signature

Truck No. X 169 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton, Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/7/97
Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020615

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: EDWARD A ROUSE Signature

Truck No. 691 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/7/97
Control No: S-9779

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WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020616

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Signature

Truck No. 091 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/7/97
Control No: S-9779

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WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020617

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker

Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579

Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: X Henry Hesino Signature

Truck No. X 991 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1

Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL

2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:

DATE: 4/7/97

Control No: S-9779

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WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020618

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker
Sausalito,Ca

Mailing

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Signature

Truck No. 391 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/7/97
Control No: S-9779

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WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020619

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker
Mailing Sausalito,Ca

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: X Edward A Rouse Signature

Truck No. X 691 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/2/97
Control No: S-9779

A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD, AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE. DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

NON-HAZARDOUS

020620

Sheet1

MATERIALS MANIFEST

GENERATOR Army Corps Of Engineers

Site Address Fort Baker
Sausalito,Ca

Mailing

Phone :( ) Contact:

TRANSPORTER Dillard Trucking

Address P.O.Box 579
Byron,Ca.

Phone :( ) Contact:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Name: Signature

Truck No. 89 Ship Date:

Time of Pick-Up: Time of Delivery:

Consultant/Owner RCI

Address 3233 Lance Dr.Unit 1
Stockton,Ca.

Phone :( ) Contact:

I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged, and is in proper condition for transport according to applicable regulation.

Name Date:

Recycling Facility BAY AREA SOIL
2717 GOODRICK AVENUE RICHMOND, CA 94801

RECEIVED BY:
DATE: 4/7/97
Control No: S-9779

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WHITE-FACILITY COPY YELLOW-TRANSPORTER COPY PINK-GENERATOR COPY

APPENDIX C

Certified Analytical Reports

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-13-1996
EMAX Batch No.: 96K145

Attn: Mr. Mike Bailey

RCI
3233 Lance Drive, Unit #1
Stockton, CA 95205

Subject: Laboratory Report
Project: Fort Baker / Project 96-12

Enclosed is the Laboratory report for samples received on 11/29/96. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
T1-N	K145-01	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020 Lead
T1-S	K145-02	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020 Lead
PL-1	K145-03	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020 Lead
PL-2	K145-04	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020 Lead
PL-3	K145-05	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020

Sample ID	Control #	Col Date	Matrix	Analysis
PL-4	K145-06	11/27/96	Soil	Lead EPA 5030/M8015 EPA M8015 EPA 8020
PL-5	K145-07	11/27/96	Soil	Lead EPA 5030/M8015 EPA M8015 EPA 8020
PL-6	K145-08	11/27/96	Soil	Lead EPA 5030/M8015 EPA M8015 EPA 8020
PL-7	K145-09	11/27/96	Soil	Lead EPA 5030/M8015 EPA M8015 EPA 8020
PL-8	K145-10	11/27/96	Soil	Lead EPA 5030/M8015 EPA M8015 EPA 8020
PL-9	K145-11	11/27/96	Soil	Lead EPA 5030/M8015 EPA M8015 EPA 8020
PL-10	K145-12	11/27/96	Soil	Lead EPA 5030/M8015 EPA M8015 EPA 8020
QC-1	K145-13	11/27/96	Soil	Lead EPA 5030/M8015 EPA M8015 EPA 8020
SP-1	K145-14	11/27/96	Soil	Lead EPA 5030/M8015 EPA M8015 EPA 8020
SP-2	K145-15	11/27/96	Soil	Lead EPA 5030/M8015 EPA M8015 EPA 8020

Sample ID	Control #	Col Date	Matrix	Analysis
SP-3	K145-16	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020 Lead
SP-4	K145-17	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020 Lead
SP-5	K145-18	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020 Lead
SP-6	K145-19	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020 Lead
SP-7	K145-20	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020 Lead
QC-2	K145-21	11/27/96	Soil	EPA 5030/M8015 EPA M8015 EPA 8020 Lead

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

CHAIN OF CUSTODY

BC LABORATORIES, INC.
4100 Atlas Court
Bakersfield, California 93308

Report To:		Project: FORT BAKER	Project #: 96-12	Sampler Name: MIKE BAILEY	Other:
Name: R.C.I					
Address: 3233 LANE DR #1					
City: STOCKTON					
State: CA	Zip: 95205				
Attn: MIKE BAILEY					
Phone: 209-464-6282					

Lab#	Sample Description	Date & Time Sampled	Matrix (S) Soil (SL) Sludge (W) Water (Other)	Analysis Requested: 8015 MTPH GAS	8015 MTPH DIESEL	8020 BTEX	6016 LEAD	Samples rec. cold (y/n)	Custody Seals (y/n)	Results Needed by: Date & Time	Number and Container Type
16	SP-3	11-27-96 3-30	S	X	X	X	X				T=2°C
17	SP-4	11-27-96 3-32	S	X	X	X	X				
18	SP-5	11-27-96 3-34	S	X	X	X	X				
19	SP-6	11-27-96 3-36	S	X	X	X	X				
20	SP-7	11-27-96 3-38	S	X	X	X	X				
21	QC-2	11-27-96	S	X	X	X	X				
										11-29-96 14:20	

Comment:
FAX RESULTS TO MIKE BAILEY
209-464-0221

Sample Disposal
☐ BC Disposal @ 5.00 ea.
☐ Return to client

Billing Info:
Name:
Address
City State
Attention:
Time:
Miles:
P.O.#

Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
		11-29-96 14:20
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
		11-29-96 14:20
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:

CHAIN OF CUSTODY

BC LABORATORIES, INC.
4100 Atlas Court
Bakersfield, California 93308

Report To:			
Name: R.C.I	Project: FORT BAKER		
Address: 3233 LANCASTER	Project #: 96-12		
City: STOCKTON	Sampler Name: MIKE BAKER		
State: CA Zip: 95205	Other:		
Attn: MIKE BAKER			
Phone: 209-464-0282			

Lab#	Sample Description	Date & Time Sampled	Matrix (S) Soil (SL) Sludge (W) Water (Other)	Analysis Requested: 8015 M TPH GAS	8015 M TPH DIESEL	8020 BTEX	LEAD	Samples rec. cold (y/n)	Custody Seals (y/n)	Results Needed by: Date & Time	Number and Container Type
1	T1-N	11-27-96 12:45	S	X	X	X	X				T=2°C
2	T1-S	11-27-96 12:50	S	X	X	X	X				
3	PL-1	11-27-96 2:45	S	X	X	X	X				
4	PL-2	11-27-96 2:50	S	X	X	X	X				
5	PL-3	11-27-96 2:55	S	X	X	X	X				
6	PL-4	11-27-96 2:56	S	X	X	X	X				
7	PL-5	11-27-96 3:00	S	X	X	X	X				
8	PL-6	11-27-96 3:02	S	X	X	X	X				
9	PL-7	11-27-96 3:10	S	X	X	X	X				
10	PL-8	11-27-96 3:15	S	X	X	X	X				
11	PL-9	11-27-96 3:20	S	X	X	X	X				
12	PL-10	11-27-96 3:21	S	X	X	X	X				
13	QC-1	11-27-96	S	X	X	X	X				
14	SP-1	11-27-96 3:25	S	X	X	X	X				
15	SP-2	11-27-96 3:26	S	X	X	X	X				

Comment:
FAX RESULTS TO MIKE BAKER
209-464-0221

Sample Disposal
☐ BC Disposal @ 5.00 ea.
☐ Return to client

Billing Info:
Name:
Address
City State
Attention:
Time:
Miles:
P.O.#

Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
	M. Nguyen	11-29-96 14:20
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:

FedEx Airbill 2674439891

96K145 11-29-96
14:20 ML

11-27-96

1963-3567-7

MIKE BAILEY

Phone (209) 464-0282

N.C.I

3233 LANCE DR #1

STOCKTON CA 95205

LAB MANAGER

Phone (310) 618-8889

CKY LABS

630 MAPLE AVE

TORRANCE CA 90503

For Saturday Delivery check here

Express Package Service X

Express Freight Service

Packaging X

Special Handling

Payment

Bill to X

Total Packages 1 Total Weight 62

Release Signature

2 6 7 4 4 3 9 8 9 1

272

Rev. Date 6/96
PART #147957

GBFE 9/96

SAMPLE RECEIPT FORM

CONTROL NO.	96K145
CLIENT	RCI
PROJECT	FORT Baker

DATE	11-29-96
TIME	14:20
RECIPIENT	M. Lynch

SAMPLE TRANSPORTATION TO EMAX LABORATORY:	BY	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS
PICKED-UP BY EMAX COURIER					
DELIVERED BY CLIENT					
SHIPPED/AIRBILL NO: FEDEX 267739891					

SAMPLE BATCH PACKAGING/SEALING UPON RECEIPT:	✓ INTACT	___DAMAGED	___SEALED	✓ NOT SEALED	___NO CONTAINER

CONTAINER:	INSIDE TEMPERATURE (4°C ± 2 °C)	2 °C	CUSTODY SEAL		LOCATION	NUMBER
✓ ___COOLER	PACKAGING	TYPE	SUFFICIENCY	___INTACT	___DAMAGED		
___BOX	INSULATION:			NAME:	the COC		
___OTHER:	ICE/COOLANT:	Regular	> OK	DATE:			
_____	PACKING MATERIAL:	none		TIME:			

SAMPLE DOCUMENTATION/CHAIN-OF-CUSTODY(COC)	___SEALED	✓ ENCLOSED	___HANDCARRIED	___FAXED	___MAILED

SAMPLE LOG-IN:	CRITERIA	COMMENTS	DISCREPANCY
SAMPLE CUSTODY SEAL	EVERY SAMPLE	None	
CONTAINER TYPE/MATERIAL	APPROPRIATE	OK	
SAMPLE AMOUNT	ENOUGH		
HOLDING TIME	SUFFICENT		
SAMPLE PRESERVATION (For appropriate preservative see GP-0001 Appendix I)	NaOH preserved samples pH ≥ 12 HNO_3 / H_2SO_4 preserved samples pH ≤ 2		
HEADSPACE/BUBBLES	ZERO/NONE		
SAMPLE LABEL INFORMATION	SUFFICIENT		
CHAIN-OF-CUSTODY INFORMATION	SUFFICIENT		

SAMPLE INFO.:	SAMPLE ID ✓	DATE ✓	TIME ✓	SIGNATURE	✓ ANALYSES	PRESERVATIVE	✓ CONTAINER

INDIVIDUAL SAMPLE CONTAINER:	___NONE	✓ SEALED PLASTIC BAG	___CAN	___OTHER(SPECIFY): _____

SAMPLE NUMBER	CLIENT ID	DISCREPANCY	ACTION

CLIENT SERVICES COPY RECEIVED BY: Alicia Wright DATE: TIME:

LABORATORY REPORT FOR

RCI

FORT BAKER / PROJECT 96-12

EPA 5030A/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

SDG#: 96K145

DECEMBER 09, 1996

CASE NARRATIVE

CLIENT: RCI

PROJECT: FORT BAKER / PROJECT 96-12

SDG: 96K145

EPA 5030A/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Twenty-one (21) soil samples were received on 11/29/96 to be analyzed for gasoline by 5030A/M8015 accordance with SW846 (1986) and Leaking Underground Fuel Tank (LUFT) Field Manual, SWRCB, Dept. of Health Service, CA (1988).

1. Holding Time

   Analytical holding time was met.

2. Surrogate Recovery

   All surrogate recoveries were within QC limits.

3. Matrix Spike/Matrix Spike Duplicate

   All recoveries and RPDs were within QC limits.

4. Lab Control Sample/Lab Control Sample Duplicate

   All recoveries and RPDs were within QC limits.

5. Method Blank

   Method blanks were free of contamination.

6. Calibration

   Initial calibration was at 5-point, continuing calibrations were carried out at 10-samples interval. All QC requirements were met.

7. Sample Analysis

   Sample analyses met all QC requirements.

001

EPA 5030A/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	12/03/96
MATRIX:	SOIL	DATE ANALYZED:	12/03/96

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	% RECOVERY SURR	DL FACTOR	MOIST (%)	RL (mg/kg)
T1-N	K145-01*	16000	70	500	17.4	305
T1-S	K145-02*	13000	134	500	18.8	310
PL-1	K145-03*	24000	76	500	19.5	310
PL-2	K145-04*	9.9	112	1	14.0	.58
PL-3	K145-05	ND	106	1	25.3	.67
PL-4	K145-06	ND	87	1	25.0	.67
PL-5	K145-07	ND	95	1	13.6	.58
PL-6	K145-08	ND	85	1	18.5	.61
PL-7	K145-09	ND	87	1	17.3	.6
PL-8	K145-10	ND	83	1	18.3	.61
PL-9	K145-11	ND	65	1	20.4	.63
PL-10	K145-12	ND	90	1	16.4	.6
QC-1	K145-13	ND	86	1	16.8	.6
SP-1	K145-14	ND	84	1	18.6	.61
SP-2	K145-15	ND	85	1	16.1	.6
SP-3	K145-16	ND	99	1	11.4	.56
SP-4	K145-17	ND	87	1	16.8	.6
SP-5	K145-18	ND	79	1	12.5	.57
SP-6	K145-19	ND	87	1	11.7	.57
SP-7	K145-20	ND	88	1	12.9	.57
QC-2	K145-21	ND	85	1	12.1	.57
MBLK1S	VAL0214B	ND	98	1	NA	.5
MBLK2S	VAL0314B	ND	106	1	NA	.5
LIMIT:			65-135			

SURR : Bromofluorobenzene
RL : Report Limit

DATE ANALYZED: 12/04/96 for K145-17, -18, -19, -20 & -21.
* Not gasoline pattern, the sample was quantitated against gasoline calibration.

003

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/M8015
MATRIX: SOIL
% MOISTURE: 25.3

BATCH NO.: 96K145
SAMPLE ID: PL-3
CONTROL NO.: K145-05

DATE RECEIVED: 11/29/96
DATE EXTRACTED: 12/03/96
DATE ANALYZED: 12/03/96

ACCESSION: 96K145

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Gasoline	ND	6.69	7.64	114	6.69	6.51	97	16	65-135	40

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT %
Bromofluorobenzene	.334	.339	101	.335	.304	91	65-135

003

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/M8015
MATRIX: SOIL
% MOISTURE: 11.7

BATCH NO.: 96K145
SAMPLE ID: SP-6
CONTROL NO.: K145-19

DATE RECEIVED: 11/29/96
DATE EXTRACTED: 12/03/96
DATE ANALYZED: 12/04/96

ACCESSION: 96K145

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Gasoline	ND	5.66	4.97	88	5.66	5.62	99	12	65-135	40

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT %
Bromofluorobenzene	.283	.247	87	.283	.250	88	65-135

004

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/M8015
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96K145
SAMPLE ID: LCS1S/LCS1SD
CONTROL NO.: VAL0214L/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/03/96
DATE ANALYZED: 12/03/96

ACCESSION: 96K145

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Gasoline	ND	5.00	4.63	93	5.00	4.85	97	5	70-125	40

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT %
Bromofluorobenzene	.250	.277	111	.25	.283	113	65-135

005

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/M8015
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96K145
SAMPLE ID: LCS2S/LCS2SD
CONTROL NO.: VAL0314L/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/03/96
DATE ANALYZED: 12/03/96

ACCESSION: 96K145

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Gasoline	ND	5.00	4.19	84	5.00	4.23	85	1	70-125	40

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT %
Bromofluorobenzene	.250	.264	106	.250	.255	102	65-135

006

SEQUENCE RECORDED IN F:\AL03.SEQ

SEQUENCE FILE: F:\AL03.SEQ

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	VAL0214IB	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
2	DCC1 GAS 1 PPM	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
3	VAL0214B	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
4	VAL0214L	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
5	VAL0214C	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
6	96L004-03 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
7	96L004-02 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
8	96K145-01 10 uL S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
9	96K145-02 10 uL S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
10	96K145-03 10 uL S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
11	96K145-04 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
12	96K145-05 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
13	DCC2 GAS 1 PPM	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
14	96K145-06 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
15	96K145-07 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
16	96K145-08 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
17	96K145-09 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
18	96K145-10 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
19	96K145-11 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
20	96K145-12 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
21	96K145-13 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
22	96K145-14 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
23	96K145-15 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
24	96K145-05M 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
25	96K145-05S 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
26	DCC3 GAS 1 PPM	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
27	VAL0314B	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
28	VAL0314L 1 PPM GAS	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
29	VAL0314C 1 PPM GAS	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
30	96K145-16 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
31	96K145-17 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
32	96K145-18 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
33	96K145-19 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
34	96K145-20 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
35	96K145-21 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
36	96K145-19M 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
37	96K145-19S 1.0gm S	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
38	DCC4 GAS 1 PPM	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
39	96L008-07 5 mL W	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
40	VAL0414B	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
41	96L008-03 1.0gmS	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
42	96L008-04 1.0gmS	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
43	96L008-06 1.0gmS	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
44	96L008-01 10 uLS	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
45	96L008-02 10 uLS	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
46	96L008-05 10 uLS	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
47	96L009-02 1.0gmS	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
48	96L009-03 1.0gmS	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
49	CHECK GAS STD.	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000
50	DCC5 GAS 1 PPM	ADUALJ	AL03-	1.0000	1.0000	1.0000	1.0000

EMAX LABORATORIES

INITIAL CALIBRATION						18-Nov-96
GC#14	GASOLINE			BROMOFLOUROBENZENE		
Data File	Conc. ppb	Area	Response Factor	Conc. ppb	Area	Response Factor
BK18-3	100	218726	4.572E-04	30	49594	6.049E-04
BK18-4	500	971740	5.145E-04	40	63250	6.324E-04
BK18-5	1000	2378843	4.204E-04	50	82270	6.078E-04
BK18-6	3000	6639149	4.519E-04	80	146076	5.477E-04
BK18-7	5000	10379818	4.817E-04	100	189087	5.289E-04
	% Relative Std. Deviation		7%	% Relative Std. Deviatio		7%
	Average Response Factor		4.651E-04	Average Response Factor		5.843E-04

DAILY CALIBRATION CHECK						
DATE	DATA FILE	DCC#	RF(E-04)	%DIFF	%SURR. REC.	COMMENTS
12/3/96	B L03-2	1	4.72V	2	110	
↓	-13	2	5.13V	10	109	
↓	-26	3	5.15V	11	108	
12/4/96	-38	4	5.26V	13	106	
↓	-50	5	4.573	↓	107	

STANDARDS			
ANALYTE	ICAL STD.	BFB	CHECK STD.
Int. Standard	S16A-01-04-0	S16C-01-66-02	S16B-01-01-01
Conc. (ppm)	2500	50	5000
SOURCE	RESTEK	RESTEK	MOBIL

Analyzed By: EAU 11/20/96

Checked By: WTN

LABORATORY REPORT FOR

RCI

FORT BAKER / PROJECT 96-12

EPA M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 96K145

DECEMBER 13, 1996

CASE NARRATIVE

CLIENT: RCI

PROJECT: FORT BAKER / PROJECT 96-12

SDG: 96K145

EPA M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Twenty-one (21) soil samples were received on 11/29/96 to be analyzed for Total Petroleum Hydrocarbons by M8015 in accordance with SW846 and Leaking Underground Fuel Tank (LUFT) Field Manual, SWRCB, Dept. of Health Service, CA (1988).

1. Holding Time

   Analytical holding time was met.

2. Surrogate Recovery

   All recoveries were within the QC limits.

3. Matrix Spike/Matrix Spike Duplicate

   All recoveries and RPD were within the QC limits.

4. Lab Control Sample/Lab Control Sample Duplicate

   All recoveries and RPD were within the QC limits.

5. Method Blank

   Method blank was free of contamination.

6. Calibration

   Initial calibration was at five-point and continuing calibrations were carried out at 10-samples interval. All QC requirements were met.

7. Sample Analysis

   All sample analyses met QC requirements.

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EPA METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	12/02/96
MATRIX:	SOIL	DATE ANALYZED:	12/03/96

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	H-C RANGE	% RECOVERY SURR1	% RECOVERY SURR2	DL FACTOR	MOIST (%)	RL (mg/kg)
T1-N	K145-01	8300	C10-C22	DO	DO	20	17.4	48.43
T1-S	K145-02	7600	C10-C20	DO	DO	20	18.8	49.26
PL-1	K145-03	13000	C10-C22	DO	DO	20	19.5	49.69
PL-2	K145-04	95	C10-C24	101	122	1	14.0	2.33
PL-3	K145-05	45	C14-C24	104	129	1	25.3	2.68
PL-4	K145-06	ND	N.A.	102	120	1	25.0	2.67
PL-5	K145-07	ND	N.A.	106	133	1	13.6	2.31
PL-6	K145-08	290	C14-C24	102	121	1	18.5	2.45
PL-7	K145-09	ND	N.A.	101	121	1	17.3	2.42
PL-8	K145-10	25	C12-C20	102	120	1	18.3	2.45
PL-9	K145-11	82	C13-C18	104	134	5	20.4	12.56
PL-10	K145-12	ND	N.A.	102	123	1	16.4	2.39
MBLK1S	DSL003SB	ND	N.A.	103	124	1	NA	2
QC LIMIT:				65-135	65-135			

SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Report Limit

Sample DSL003SB was analyzed on 12/02/96.

DO: Diluted Out

002

EPA METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	12/05/96
MATRIX:	SOIL	DATE ANALYZED:	12/06/96

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	H-C RANGE	% RECOVERY SURR1	% RECOVERY SURR2	DL FACTOR	MOIST (%)	RL (mg/kg)
QC-1	K145-13	ND	N.A.	96	102	1	16.8	2.4
SP-1	K145-14	ND	N.A.	95	95	1	18.6	2.46
SP-2	K145-15	120	C11-C22	94	95	1	16.1	2.38
SP-3	K145-16	260	C11-C22	94	98	1	11.4	2.26
SP-4	K145-17	ND	N.A.	97	99	1	16.8	2.4
SP-5	K145-18	ND	N.A.	96	98	1	12.5	2.29
SP-6	K145-19	98	C12-C24	95	102	1	11.7	2.27
SP-7	K145-20	60	C17-C24	93	96	1	12.9	2.3
QC-2	K145-21	ND	N.A.	95	97	1	12.1	2.28
MBLK2S	DSL006SB	ND	N.A.	98	95	1	NA	2
QC LIMIT:				65-135	65-135			

SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Report Limit

Sample DSL006SB was analyzed on 12/05/96.

003

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA M8015
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96K145
SAMPLE ID: LCS1S/LCS1SD
CONTROL NO.: DSL003SL/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/02/96
DATE ANALYZED: 12/02/96

ACCESSION: 96K145, 96L001

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Diesel	ND	500.00	522.00	104	500.00	548.00	110	5	70-130	35

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT %
Bromobenzene	100.00	90.00	90	100.00	92.00	92	65-135
Hexacosane	100.00	109.00	109	100.00	112.00	112	65-135

004

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA M8015
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96K145
SAMPLE ID: LCS2S/LCS2SD
CONTROL NO.: DSL006SL/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/05/96
DATE ANALYZED: 12/05/96

ACCESSION: 96K145, 96L017, 96L018, 96L013

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Diesel	ND	500.00	535.00	107	500.00	570.00	114	6	70-130	35

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT %
Bromobenzene	100.00	88.00	88	100.00	89.00	89	65-135
Hexacosane	100.00	87.00	87	100.00	86.00	86	65-135

005

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA M8015
MATRIX: SOIL
% MOISTURE: 11.4

BATCH NO.: 96K145
SAMPLE ID: SP-3
CONTROL NO.: K145-16

DATE RECEIVED: 11/29/96
DATE EXTRACTED: 12/05/96
DATE ANALYZED: 12/06/96

ACCESSION: 96K145

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Diesel	260.00	1130.00	1510.00	111	1130.00	1130.00	77	36	65-135	35

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT %
Bromobenzene	113.00	95.90	85	113.00	94.80	84	65-135
Hexacosane	113.00	100.00	89	113.00	97.10	86	65-135

006

INITIAL CALIBRATION DATA
METHOD M8015 (Diesel)

Lab Name: EMAX

SDG: 96K145

Instrument ID: GC-5

GC Column: DB-5

Date Analyzed: 11/08/96

Date Analyzed: 11/08/96

DATA FILE	DIESEL		
	CONC. ppm	AREA x 10^3	CALIBRATION FACTOR x10^3
KM08-09	10	161.9	16.19
KM08-10	100	1641	16.41
KM08-11	500	8872	17.74
KM08-12	1000	17822	17.82
KM08-13	2000	35695	17.85
	MEAN		17.20
	Relative Std. Dev.		5%

		BROMOBENZENE	HEXACOSANE
DATA FILE	CONC. ppm	CALIBRATION FACTOR x10^3	CALIBRATION FACTOR x10^3
KM08-1	70	11.30	13.70
KM08-2	80	12.07	14.46
KM08-4	100	11.82	14.03
KM08-5	120	12.11	14.60
KM08-6	130	11.94	14.38
MEAN		11.85	14.23
Relative Std. Dev.		3%	3%

DAILY CALIBRATION CHECK				
DATE	DATA FILE	ACF x 10^3	CF x 10^3	% DIFF.
12/02/96	LM02-03	17.20	18.49	7
12/02/96	LM02-17	17.20	18.26	6
12/02/96	LM02-30	17.20	18.47	4
12/02/96	LM02-36	17.20	18.39	7
12/02/96	LM02-50	17.20	17.75	3
12/02/96	LM02-67	17.20	17.56	2
12/02/96	LM02-83	17.20	17.56	10
12/02/96	LM02-95	17.20	17.85	4
12/02/96	LM02-103	17.20	18.12	5
12/02/96	LM02-111	17.20	16.63	3

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SEQUENCE FILE: LM02

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
2	DCC1 D500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
3	DCC1 JP5 500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
4	DCC1 MO 500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
5	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
6	DSL003SB	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
7	DSL003SL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
8	DSL003SC	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
9	96L001-02	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
10	96L001-03	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
11	96L001-04	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
12	96L001-05	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
13	96L001-06	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
14	96L001-07	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
15	96L001-08	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
16	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
17	DCC2 D500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
18	96L001-08M	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
19	96L001-08S	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
20	96L001-09	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
21	96K145-01	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
22	96K145-02	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
23	96K145-03	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
24	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
25	96K145-04	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
26	96K145-05	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
27	96K145-06	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
28	96K145-07	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
29	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
30	DCC3 D500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
31	96K145-08	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
32	96K145-09	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
33	96K145-10	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
34	96K145-12	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
35	96K145-01T 20X	8015M	LM02-	1.0000	1.0000	20.0000	1.0000
36	DCC4 D500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
37	DCC4 JP5 500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
38	DCC4 MO 500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
39	DSL004SB	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
40	DSL004SL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
41	DSL004SC	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
42	96L004-02	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
43	96L004-03	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
44	96K127-05	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
45	96K127-06	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
46	96K127-07	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
47	96K127-08	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
48	96K127-09	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
49	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
50	DCC5 D500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
51	96K127-10	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
52	96K127-11	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
53	96K127-12	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
54	96K127-13	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
55	96K127-14	8015M	LM02-	1.0000	1.0000	1.0000	1.0000

58	96K127-02S	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
59	96K127-03	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
60	96K127-04	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
61	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
62	ZZZZZ	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
63	96K127-01	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
64	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
65	96K127-16	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
66	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
67	DCC7 D500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
68	DCC7 JP5 500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
69	DCC7 M0 500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
70	96K145-02T 20X	8015M	LM02-	1.0000	1.0000	20.0000	1.0000
71	96K145-03T 20X	8015M	LM02-	1.0000	1.0000	20.0000	1.0000
72	96K127-16T 5X	8015M	LM02-	1.0000	1.0000	5.0000	1.0000
73	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
74	96K145-11T 5X	8015M	LM02-	1.0000	1.0000	5.0000	1.0000
75	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
76	DSL005SB	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
77	DSL005SL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
78	DSL005SC	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
79	96L009-02	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
80	96L009-03	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
81	96K140-02	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
82	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
83	DCC8 D500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
84	96K140-02M	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
85	96K140-02S	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
86	96K140-03	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
87	96K140-04	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
88	96K140-05	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
89	96K140-06	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
90	96K140-07	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
91	96K140-08	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
92	96K140-09	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
93	96K140-10	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
94	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
95	DCC9 D200	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
96	96K140-11	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
97	96K140-12	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
98	96K140-13	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
99	96K140-14	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
100	96K140-15	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
101	MECL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
102	DSK030WB	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
103	DCC10 D500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
104	DSK030WL	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
105	DSK030WC	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
106	96K140-16 W	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
107	96K140-16M W	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
108	96K140-16S W	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
109	96K140-17	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
110	96K131-03 W	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
111	DCC11 D500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
112	DCC11 JP5 500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000
113	DCC11 M0 500	8015M	LM02-	1.0000	1.0000	1.0000	1.0000

SEQUENCE FILE: LN05

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	SURR 100	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
2	DCC1 D500	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
3	DCC1 JP-5 500	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
4	DCC1 MO 500	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
5	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
6	DSL0065B	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
7	DSL006SL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
8	DSL006SC	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
9	96L018-01	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
10	96L018-01M	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
11	96L018-01S	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
12	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
13	96L018-02	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
14	96L018-03	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
15	96L018-04	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
16	96L018-05	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
17	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
18	DCC2 D500	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
19	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
20	96L017-02	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
21	96L017-03	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
22	96L017-03M	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
23	96L017-03S	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
24	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
25	96L017-04	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
26	96L017-05	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
27	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
28	96L013-01	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
29	96L013-01T-10X	M8015	LN05-	1.0000	1.0000	10.0000	1.0000
30	96L013-02	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
31	DCC3 D500	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
32	96K145-17	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
33	96K145-13	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
34	96K145-18	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
35	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
36	96K145-19	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
37	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
38	96K145-21	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
39	96K145-14	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
40	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
41	DCC4 D500	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
42	96K145-16	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
43	96K145-16M	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
44	96K145-16S	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
45	96K145-15	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
46	96K145-20	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
47	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
48	DCC5 D500	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
49	DCC5 JP-5 500	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
50	DCC5 MO 500	M8015	LN05-	1.0000	1.0000	1.0000	1.0000
51	MECL	M8015	LN05-	1.0000	1.0000	1.0000	1.0000

EXTRACTION LOG FOR TPH

Prep. Batch DSL006S Method 3550 ☐ 3580 ☐ 3520 ☐ 3540 ☐ CLP ☐ ☐ Book # CKYT-E06-003 Page # 117

Matrix Soil Starting Date 12/5/96 Time 10:00 Ending Date 12/5/96 Time 12:00

Lab Sample ID	Sample Amount (g/ml)	Extract Volume (ml)	Notes
DSL006SB	—	10	* ** MS
SL	-		*
SC	-		*
96 K145 - 13	10.0		
-14			
-15			
-16			
-16M			**
-16S			**
-17			
-18			
-19			
-20			
-21			
96 L017 - 02			
-03			
-03M			
-03S			
-04			
-05			
96 L018 - 01			
01M			
01S			
02			
03			
04			

Standards	ID	Amount Added (ml)
Surrogate	S09C01193	10.0
LCS/MS	S09B010706	1.0
		2.0

Reagent	Lot# / ID
CH_2Cl_2	962656
Na_2SO_4	35289611

SDG #	Extract Location

Comments:

Prepared By: OS

Standard Added By: OS/FY

Checked By: FY

011

Extracts Received By:

EMAX ANALYTICAL LABORATORIES, INC.

EXTRACTION LOG FOR TPH

Prep. Batch OS L006 S | Method 3550 ☐ 3580 ☐ 3520 ☐ 3540 ☐ | CLP ☐ | ☐ | Book # CKYT-E06-003 | Page # 118

Matrix soil | Starting Date 12/05/96 | Time 10:00 | Ending Date 12/05/96 | Time 12:00

Lab Sample ID	Sample Amount (g/ml)	Extract Volume (ml)	Notes
96L018 - 05	10.0	~~10~~ 10.0 OS 12/5/96	
96L013 - 01	10	10	
- 02	10	10	

Standards	ID	Amount Added (ml)
Surrogate	S09SO1193	10.0
LCS/MS	S09BO1070C	1.0

Reagent	Lot# / ID
CH_2Cl_2	962656
Na_2SO_4	35289611

SDG #	Extract Location

Comments: ______

Prepared By: OS/FY

Standard Added By: OS/FY

Checked By: FY

012

Extracts Received By: ______

EXTRACTION LOG FOR TPH

Prep. Batch DSL003 S Method 3550 ☐ 3520 ☐ 3580 ☐ 3540 ☐ CLP ☐ ☐ Book # CKYT-E06-003 Page # 114

Matrix Soil Starting Date 12/02/96 Time 14:00 Ending Date 12/02/96 Time 17:00

Lab Sample ID	Sample Amount (g/ml)	Extract Volume (ml)	Notes
DSL003 - SB	—	10.0	
- SL*	—		
- SC*	—		
96L001 - 02	10.0		
- 03			
- 04			
- 05			
- 06			
- 07			
- 08			
- 08M			
- 08S			
- 09			
96K145 - 01			
- 02			
- 03			
- 04			
- 05			
- 06			
- 07			
- 08			
- 09			
- 10			
- 11			
- 12	↓	↓	

Standards	ID	Amount Added (ml)
Surrogate	S09C-01-19-3	10.0
LCS/MS	S09B-01-07-06	1.0

Reagent	Lot# / ID
CH_2Cl_2	962656
Na_2SO_4	35289611

SDG #	Extract Location

Comments: _____

Prepared By: OS

Standard Added By: OS / NB

Checked By: _____

013

Extracts Received By: _____

LABORATORY REPORT FOR

RCI

FORT BAKER / PROJECT 96-12

EPA 5030A/8020A
BTEX

SDG#: 96K145

DECEMBER 09, 1996

CASE NARRATIVE

CLIENT: RCI

PROJECT: FORT BAKER / PROJECT 96-12

SDG: 96K145

EPA 5030A/8020A
BTEX

Twenty-one (21) soil samples were received on 11/29/96 to be analyzed for volatile organics by EPA Method 8020A in accordance with USEPA SW846.

1. Holding Time

   Analytical holding time was met.

2. Surrogate Recovery

   All surrogate recoveries were within QC limits.

3. Matrix Spike/Matrix Spike Duplicate

   All recoveries and RPDs were within QC limits.

4. Lab Control Sample

   All recoveries were within QC limits.

5. Method Blank

   Method blanks were free of contamination.

6. Calibration

   Initial calibration was at five-point and continuing calibrations were carried out at 10-samples interval. All QC requirements were met.

7. Sample Analysis

   All sample analyses were done within QC requirements.

001

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	T1-N	DATE ANALYZED:	12/03/96
CONTROL NO.:	K145-01	MATRIX:	SOIL
% MOISTURE:	17.4	DILUTION FACTOR:	200

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	1210
Toluene	3700	1210
Ethylbenzene	4200	1210
Total Xylenes	25000	3640

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	100	65-135

RL: Report Limit

002

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	T1-S	DATE ANALYZED:	12/03/96
CONTROL NO.:	K145-02	MATRIX:	SOIL
% MOISTURE:	18.8	DILUTION FACTOR:	200

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	1232
Toluene	ND	1232
Ethylbenzene	2200	1232
Total Xylenes	12000	3700

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	91	65-135

RL: Report Limit

003

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	PL-1	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-03	MATRIX:	SOIL
% MOISTURE:	19.5	DILUTION FACTOR:	200

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	1242
Toluene	1700	1242
Ethylbenzene	5400	1242
Total Xylenes	26000	3720
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	111	65-135

RL: Report Limit

004

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	PL-2	DATE ANALYZED:	12/03/96
CONTROL NO.:	K145-04	MATRIX:	SOIL
% MOISTURE:	14.0	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.81
Toluene	ND	5.81
Ethylbenzene	ND	5.81
Total Xylenes	ND	17.4
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	89	65-135

RL: Report Limit

005

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	PL-3	DATE ANALYZED:	12/03/96
CONTROL NO.:	K145-05	MATRIX:	SOIL
% MOISTURE:	25.3	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.69
Toluene	ND	6.69
Ethylbenzene	ND	6.69
Total Xylenes	ND	20.1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	102	65-135

RL: Report Limit

006

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	PL-4	DATE ANALYZED:	12/03/96
CONTROL NO.:	K145-06	MATRIX:	SOIL
% MOISTURE:	25.0	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.67
Toluene	ND	6.67
Ethylbenzene	ND	6.67
Total Xylenes	ND	20

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	96	65-135

RL: Report Limit

007

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	PL-5	DATE ANALYZED:	12/03/96
CONTROL NO.:	K145-07	MATRIX:	SOIL
% MOISTURE:	13.6	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.79
Toluene	ND	5.79
Ethylbenzene	ND	5.79
Total Xylenes	ND	17.4
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	96	65-135

RL: Report Limit

008

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	PL-6	DATE ANALYZED:	12/03/96
CONTROL NO.:	K145-08	MATRIX:	SOIL
% MOISTURE:	18.5	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.13
Toluene	ND	6.13
Ethylbenzene	ND	6.13
Total Xylenes	ND	18.4

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	77	65-135

RL: Report Limit

009

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	PL-7	DATE ANALYZED:	12/03/96
CONTROL NO.:	K145-09	MATRIX:	SOIL
% MOISTURE:	17.3	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.05
Toluene	ND	6.05
Ethylbenzene	ND	6.05
Total Xylenes	ND	18.1
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	90	65-135

RL: Report Limit

010

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	PL-8	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-10	MATRIX:	SOIL
% MOISTURE:	18.3	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.12
Toluene	ND	6.12
Ethylbenzene	ND	6.12
Total Xylenes	ND	18.4
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	82	65-135

RL: Report Limit

011

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	PL-9	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-11	MATRIX:	SOIL
% MOISTURE:	20.4	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.28
Toluene	ND	6.28
Ethylbenzene	ND	6.28
Total Xylenes	ND	18.8

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	79	65-135

RL: Report Limit

012

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	PL-10	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-12	MATRIX:	SOIL
% MOISTURE:	16.4	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.98
Toluene	ND	5.98
Ethylbenzene	ND	5.98
Total Xylenes	ND	17.9

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	87	65-135

RL: Report Limit

013

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	QC-1	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-13	MATRIX:	SOIL
% MOISTURE:	16.8	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.01
Toluene	ND	6.01
Ethylbenzene	ND	6.01
Total Xylenes	ND	18

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	84	65-135

RL: Report Limit

014

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	SP-1	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-14	MATRIX:	SOIL
% MOISTURE:	18.6	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.14
Toluene	ND	6.14
Ethylbenzene	ND	6.14
Total Xylenes	ND	18.4

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	83	65-135

RL: Report Limit

015

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	SP-2	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-15	MATRIX:	SOIL
% MOISTURE:	16.1	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.96
Toluene	ND	5.96
Ethylbenzene	ND	5.96
Total Xylenes	ND	17.9
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	95	65-135

RL: Report Limit

016

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	SP-3	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-16	MATRIX:	SOIL
% MOISTURE:	11.4	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.64
Toluene	ND	5.64
Ethylbenzene	ND	5.64
Total Xylenes	ND	16.9

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	92	65-135

RL: Report Limit

017

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	SP-4	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-17	MATRIX:	SOIL
% MOISTURE:	16.8	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.01
Toluene	ND	6.01
Ethylbenzene	ND	6.01
Total Xylenes	ND	18

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	82	65-135

RL: Report Limit

018

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	SP-5	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-18	MATRIX:	SOIL
% MOISTURE:	12.5	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.71
Toluene	ND	5.71
Ethylbenzene	ND	5.71
Total Xylenes	ND	17.1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	104	65-135

RL: Report Limit

019

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	SP-6	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-19	MATRIX:	SOIL
% MOISTURE:	11.7	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.66
Toluene	ND	5.66
Ethylbenzene	ND	5.66
Total Xylenes	ND	17
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	98	65-135

RL: Report Limit

020

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	SP-7	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-20	MATRIX:	SOIL
% MOISTURE:	12.9	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.74
Toluene	ND	5.74
Ethylbenzene	ND	5.74
Total Xylenes	ND	17.2
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	102	65-135

RL: Report Limit

021

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	QC-2	DATE ANALYZED:	12/04/96
CONTROL NO.:	K145-21	MATRIX:	SOIL
% MOISTURE:	12.1	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.69
Toluene	ND	5.69
Ethylbenzene	ND	5.69
Total Xylenes	ND	17.1

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	100	65-135

RL: Report Limit

022

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	NA
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	NA
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	MBLK1S	DATE ANALYZED:	12/03/96
CONTROL NO.:	VAL037B	MATRIX:	SOIL
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	15

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	102	65-135

RL: Report Limit

023

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	NA
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	NA
BATCH NO.:	96K145	DATE EXTRACTED:	NA
SAMPLE ID:	MBLK2S	DATE ANALYZED:	12/04/96
CONTROL NO.:	VAL047B	MATRIX:	SOIL
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	15

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	103	65-135

RL: Report Limit

024

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/8020A
MATRIX: SOIL
% MOISTURE: 25.3

BATCH NO.: 96K145
SAMPLE ID: PL-3
CONTROL NO.: K145-05

DATE RECEIVED: 11/29/96
DATE EXTRACTED: NA
DATE ANALYZED: 12/03/96

ACCESSION: 96K145

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Benzene	ND	334.67	322.10	96	334.67	308.89	92	4	65-135	40
Toluene	ND	334.67	322.60	96	334.67	308.29	92	5	65-135	40
Ethylbenzene	ND	334.67	317.89	95	334.67	308.10	92	3	65-135	40
Total Xylenes	ND	1004.02	947.76	94	1004.02	921.81	92	3	65-135	40

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Bromofluorobenzene	334.67	356.92	107	334.67	340.44	102	65-135

025

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/8020A
MATRIX: SOIL
% MOISTURE: 11.7

BATCH NO.: 96K145
SAMPLE ID: SP-6
CONTROL NO.: K145-19

DATE RECEIVED: 11/29/96
DATE EXTRACTED: NA
DATE ANALYZED: 12/04/96

ACCESSION: 96K145

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Benzene	ND	283.13	281.44	99	283.13	275.97	97	2	65-135	40
Toluene	ND	283.13	282.66	100	283.13	274.78	97	3	65-135	40
Ethylbenzene	ND	283.13	281.08	99	283.13	272.37	96	3	65-135	40
Total Xylenes	ND	849.38	847.28	100	849.38	825.04	97	3	65-135	40

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Bromofluorobenzene	283.13	266.22	94	283.13	291.19	103	65-135

026

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/8020A
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96K145
SAMPLE ID: LCS1S/LCS1SD
CONTROL NO.: VAL037L/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/03/96

ACCESSION: 96K145

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Benzene	ND	250.00	253.71	101	250.00	250.85	100	1	70-125	40
Toluene	ND	250.00	251.74	101	250.00	248.88	100	1	70-125	40
Ethylbenzene	ND	250.00	254.60	102	250.00	251.48	101	1	70-125	40
Total Xylenes	ND	750.00	746.49	100	750.00	737.37	98	1	70-125	40

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT %
Bromofluorobenzene	250.00	273.22	109	250.00	274.42	110	65-135

027

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/8020A
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96K145
SAMPLE ID: LCS2S/LCS2SD
CONTROL NO.: VAL047L/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/04/96

ACCESSION: 96K145

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Benzene	ND	250.00	232.60	93	250.00	248.15	99	6	70-125	40
Toluene	ND	250.00	232.61	93	250.00	247.57	99	6	70-125	40
Ethylbenzene	ND	250.00	229.66	92	250.00	245.60	98	7	70-125	40
Total Xylenes	ND	750.00	710.34	95	750.00	752.48	100	6	70-125	40

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT %
Bromofluorobenzene	250.00	252.13	101	250.00	259.67	104	65-135

028

Sample Table

Vial Num.	Sample Name	Sample Amount	Multiplier	ISTD Amount
1	VAL037IB			
2	DCC1 8020A			
3	VAL037B			
4	VAL037L			
5	VAL037C			
6	K145-04 1.0gm S			
7	K145-05 1.0gm S			
8	K145-05M 1.0gm S			
9	K145-05S 1.0gm S			
10	K145-06 1.0gm S			
11	K145-07 1.0gm S			
12	K145-08 1.0gm S			
13	DCC2 8020A			
14	K145-09 1.0gm S			
15	K145-02 5 uL S			
16	K145-01 5 uL S			
17	BLK			
18	K145-03 5 uL S			
	K145-10 1.0gm S			
	K145-11 1.0gm S			
21	K145-12 1.0gm S			
22	K145-13 1.0gm S			
23	K145-14 1.0gm S			
24	DCC3 8020A			
25	K145-15 1.0gm S			
26	K145-16 1.0gm S			
27	K145-17 1.0gm S			
28	DCC4 8020A			
29	VAL047B			
30	VAL047L			
31	VAL047C			
32	K145-1S 1.0gm S			
33	K145-19 1.0gm S			
34	K145-19M 1.0gm S			
35	K145-19S 1.0gm S			
36	K145-20 1.0gm S			
37	K145-21 1.0gm S			
38	L008-07 5 mL W			
39	DCC5 8020A			
40	L008-01 10 uL S			
41	L008-02 10 uL S			
42	L008-03 25 uL S			
43	L008-04 1.0gm S			
44	L008-05 10 uL S			
	L008-06 1.0gm S			
46	L009-03 1.0gm S			
47	L009-02 1.0gm S			
48	L009-01 5 mL W			
49	DCC6 8020A			

030

8020A QC RESULT

QC SAMPLE	DCC1	DCC2	DCC3	DCC4	DCC5
Filename(L03-)	002R0101	013R0101	024R0101	028R0101	039R0101
Analytical Batch	VAL037	VAL037	VAL037	VAL037	VAL047
Analysis Date	3-Dec-96	3-Dec-96	4-Dec-96	4-Dec-96	4-Dec-96
Analysis Time	16:09	22:32	3:15	10:37	15:39

Accession: 96K145, 96L008

Calibration Ref. BK06

Standard ID S16C-01-68-01

Analyzed By

Reviewed By

ANALYTE	True Value (ug/L)	DCC1		DCC2		DCC3		DCC4		DCC5	
		Found Value (ug/L)	Recovery (%)	Found Value (ug/L)	Recovery (%)	Found Value (ug/L)	Recovery (%)	Found Value (ug/L)	Recovery (%)	Found Value (ug/L)	Recovery (%)
Benzene	50	43.53	87%	47.27	95%	51.63	103%	47.72	95%	53.11	106%
Toluene	50	43.19	86%	46.73	93%	50.88	102%	47.28	95%	52.42	105%
Ethylbenzene	50	43.59	87%	47.22	94%	51.22	102%	46.96	94%	52.85	106%
m,p,o-Xylene	150	128.24	85%	138.00	92%	149.92	100%	142.77	95%	157.08	105%
BFB	50	50.85	102%	54.48	109%	53.82	108%	47.74	95%	53.84	108%

Comments:

VOLATILE ORGANIC ANALYSIS

INITIAL CALIBRATION

METHOD: BK06.MTH (8020A) Initial Calibration Date: 6-Nov-96

CONCENTRATION, ug/L	2	10	50	100	200	Relative	CALIBRATION
Data Filename (K06-)	001R0101	002R0101	003R0101	004R0101	005R0101	Standard	FACTOR
Analysis Time	17:03	17:28	17:53	18:19	18:44	Deviation	(1/AVE. RF)
	RUN1	RUN2	RUN3	RUN4	RUN5	(%)	
Meth-Tert-Butyl Ether	3.2245E+04	3.1211E+04	2.9744E+04	3.0814E+04	3.0949E+04	3%	3.2255E-05
Benzene	9.3726E+04	9.1528E+04	8.7535E+04	9.2949E+04	8.7955E+04	3%	1.0937E-05
Toluene	8.7552E+04	8.4346E+04	8.0622E+04	8.5364E+04	8.1505E+04	3%	1.1838E-05
Chlorobenzene	8.4660E+04	8.1537E+04	7.7675E+04	8.3233E+04	7.9589E+04	3%	1.2228E-05
Ethylbenzene	7.7866E+04	7.5335E+04	7.0879E+04	7.4755E+04	7.1153E+04	3%	1.3385E-05
m,p-Xylene	9.1880E+04	8.9245E+04	8.3364E+04	8.7332E+04	8.1946E+04	4%	1.1369E-05
o-Xylene	7.3451E+04	7.2457E+04	6.9517E+04	7.4303E+04	7.1206E+04	2%	1.3806E-05
1,3-Dichlorobenzene	8.4104E+04	6.8411E+04	6.6613E+04	7.2236E+04	6.9414E+04	9%	1.3729E-05
1,4-Dichlorobenzene	8.1732E+04	7.5563E+04	7.3559E+04	7.9301E+04	7.6649E+04	4%	1.2897E-05
1,2-Dichlorobenzene	6.0360E+04	5.3425E+04	5.3438E+04	5.7455E+04	5.6623E+04	5%	1.7803E-05
Surrogate Parameter Bromofluorobenzene	6.0171E+04	6.1942E+04	6.4938E+04	6.7777E+04	6.5231E+04	5%	1.5697E-05
CONCENTRATION(BFB), ug/L	30	40	50	80	100		

ANALYTE	BFB	ICAL	CHK.STD.
Intermediate Standard	S16C-01-64-01	S16C-01-64-02	S16C-01-63-02
Concentration (ppm)	50	50	50
Source	RESTEK	ULTRA	ACCU

Analyzed By: EAU 11/7/96

Checked By: WTN 11/8/96

031

LABORATORY REPORT FOR

RCI

FORT BAKER / PROJECT 96-12

EPA 3050A/6010A
TOTAL LEAD BY TRACE ICP

SDG#: 96K145

DECEMBER 13, 1996

CASE NARRATIVE

CLIENT: RCI

PROJECT: FORT BAKER / PROJECT 96-12

SDG: 96K145

EPA 3050A/6010A
TOTAL LEAD BY TRACE

Twenty-one (21) soil samples were received on 11/29/96 for total lead by trace ICP in accordance with USEPA SW846.

1. **Holding Time**

   Analytical holding time was met.

2. **Method Blank**

   All preparation blanks were free of contamination.

3. **Matrix Spike/Matrix Spike Duplicate**

   All recoveries and RPD were within the QC limits.

4. **Laboratory Control Sample/Laboratory Control Sample Duplicate**

   Found values of all elements in the lab control samples were within control limits.

5. **Sample Analysis**

   All sample analyses were done within QC requirements.

EPA METHOD 3050A/6010A
TOTAL LEAD BY TRACE ICP

CLIENT:	RCI	DATE COLLECTED:	11/27/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	11/29/96
BATCH NO.:	96K145	DATE EXTRACTED:	12/04/96
MATRIX:	SOIL	DATE ANALYZED:	12/10/96

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	DL FACTOR	MOIST (%)	RL (mg/kg)
T1-N	K145-01	ND	1	17.4	12.1
T1-S	K145-02	ND	1	18.8	12.3
PL-1	K145-03	14.8	1	19.5	12.4
PL-2	K145-04*	ND	1	14.0	11.6
PL-3	K145-05	ND	1	25.3	13.4
PL-4	K145-06	ND	1	25.0	13.3
PL-5	K145-07	18.5	1	13.6	11.6
PL-6	K145-08	51.3	1	18.5	12.3
PL-7	K145-09	ND	1	17.3	12.1
PL-8	K145-10	15.3	1	18.3	12.2
PL-9	K145-11	196	1	20.4	12.6
PL-10	K145-12	865	1	16.4	12
QC-1	K145-13	19.3	1	16.8	12
SP-1	K145-14	32.5	1	18.6	12.3
SP-2	K145-15	13.6	1	16.1	11.9
SP-3	K145-16	ND	1	11.4	11.3
SP-4	K145-17	ND	1	16.8	12
SP-5	K145-18	ND	1	12.5	11.4
SP-6	K145-19	15.2	1	11.7	11.3
SP-7	K145-20	ND	1	12.9	11.5
QC-2	K145-21**	12.6	1	12.1	11.4
MBLK1S	IPL004SB	ND	1	NA	10
MBLK2S	IPL005SB**	ND	1	NA	10
MBLK3S	IPL010SB*	ND	1	NA	10

RL: Reporting Limit

NOTE: - K145-21 and IPL005SB were analyzed on 12/05/96.
- K145-04 and IPL010SB were extracted and analyzed on 12/13/96.

002

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 3050A/6010A
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96K145
SAMPLE ID: LCS2S/LCS2SD
CONTROL NO.: IPL005SL/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/04/96
DATE ANALYZED: 12/05/96

ACCESSION: 96K145

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Lead	ND	100.00	86.80	87	100.00	78.80	79	10	75-125	20

003

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 3050A/6010A
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96K145
SAMPLE ID: LCS3S/LCS3SD
CONTROL NO.: IPL010SL/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/13/96
DATE ANALYZED: 12/13/96

ACCESSION: 96K145

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Lead	ND	100.00	89.70	90	100.00	89.50	90	0	75-125	20

004

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 3050A/6010A
MATRIX: SOIL
% MOISTURE: 16.8

BATCH NO.: 96K145
SAMPLE ID: PL-2
CONTROL NO.: K145-04

DATE RECEIVED: 11/29/96
DATE EXTRACTED: 12/13/96
DATE ANALYZED: 12/13/96

ACCESSION: 96K145

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	QC LIMIT (%)
Lead	ND	120.00	91.50	76	75-125

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 3050A/6010A
MATRIX: SOIL
% MOISTURE: 16.8

BATCH NO.: 96K145
SAMPLE ID: QC-1
CONTROL NO.: K145-13

DATE RECEIVED: 11/29/96
DATE EXTRACTED: 12/04/96
DATE ANALYZED: 12/10/96

ACCESSION: 96K145

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	QC LIMIT (%)
Lead	19.30	120.00	115.00	80	75-125

006

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 3050A/6010A
MATRIX: SOIL
% MOISTURE: 16.8

BATCH NO.: 96K145
SAMPLE ID: PL-2
CONTROL NO.: K145-04

DATE RECEIVED: 11/29/96
DATE EXTRACTED: 12/13/96
DATE ANALYZED: 12/13/96

ACCESSION: 96K145

PARAMETER	SAMPLE (mg/kg)	DUP. SAMPLE (mg/kg)	RPD (%)	RPD LIMIT (%)
Lead	ND	ND	0	20

007

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 3050A/6010A
MATRIX: SOIL
% MOISTURE: 16.8

BATCH NO.: 96K145
SAMPLE ID: PL-3
CONTROL NO.: K145-05

DATE RECEIVED: 11/29/96
DATE EXTRACTED: 12/13/96
DATE ANALYZED: 12/13/96

ACCESSION: 96K145

PARAMETER	SAMPLE* (mg/kg)	DUP. SAMPLE (mg/kg)	RPD (%)	RPD LIMIT (%)
Lead	ND	ND	0	20

* Sample was analyzed on 12/10/96

008

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 3050A/6010A
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96K145
SAMPLE ID: LCS1S/LCS1SD
CONTROL NO.: IPL004SL/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/04/96
DATE ANALYZED: 12/10/96

ACCESSION: 96K145

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Lead	ND	100.00	86.90	87	100.00	86.40	86	1	75-125	20

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ANALYSIS RUN LOG FOR ICP

Analytical Batch 312010 Method CLP ☐ 6010 ☑ 200.7 ☐ Book # T-A08-001 Page #

Mthod File MULT Autosampler Table Starting Date 12/10/96 Time Ending Date 12.10.96 Time

Seq.	Lab Sample ID	DF	Analysis	Matrix
1	ICV HIGH 1		Pb	
2	ICV HIGH 2			
3	ICV			
4	ICB			
5	ICSAB 1			
6	CCV1			
7	CCB1			
8	IPL004 SB			
9	SL			
10	SC			
11	K145-01			
12	-02			
13	-03			
14	-04			
15	-05			
16	-06			
17	-07			
18	CCV2			
19	CCB2			
20	K145-08			
21	-09			
22	-10			
23	-11			
24	-12			
25	-13			
26	-13D			
27	-13M			
28	-13T	5		
29	CCV3			
30	CCB3			
31	K145-14			
32	-15			
33	-16			
34	-17			
35	-18			
36	-19			
37	K145-20			
38	~~MB-CV~~ ICSABF			
39	~~CCB4~~ CCV4			
40	CCB4			

Seq.	Lab Sample ID	DF	Analysis	Matrix
41	IPH022 SB		Pb	
42	SL			
43	SC			
44	K118-04			
45	05			
46	06			
47	06M			
48	06T	5X		
49	~~ICSABF~~ CCV5			
50	~~CCB5~~ CCB5			
51	~~CCB5~~ IPL006WB			
52	WL			
53	WC			
54	L022-02			
55	ICSABF			
56	CCV6			
57	CCB6			
58	IPK034 WB			
59	WL			
60	WC			
61	K110-01			
62	ICSABF			
63	CCV7			
64	CCB7			
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				

Std.	ID
S1	S01B-06-14-01
S2	-02
S3	-03
S4	S01B-06-10-02
S5	03
S6	04
ICV High 1	S01B-06-14-B
ICV High 2	10-04
ICV	S01C-06-31-02
CCV	S01B-06-10-05
ICSA	S01C-06-34-03
ICSAB	07
CRI	

Comments:

Analyzed By: NB/MSC

Checked By: _____

Date: _____

#	Sample Name	File	Method	Date	Time	OplD	Type	Mode
1	S0	I31L010	MULTI	12/10/96	11:22		X	IR
2	S1	I31L010	MULTI	12/10/96	11:26		X	IR
3	S2	I31L010	MULTI	12/10/96	11:30		X	IR
4	S3	I31L010	MULTI	12/10/96	11:34		X	IR
5	S4	I31L010	MULTI	12/10/96	11:38		X	IR
6	S5	I31L010	MULTI	12/10/96	11:41		X	IR
7	S6	I31L010	MULTI	12/10/96	11:44		X	IR
8	ICV HIGH1	I31L010	MULTI	12/10/96	11:50	TV	S	CONC
9	ICV HIGH2	I31L010	MULTI	12/10/96	11:55	TV	S	CONC
10	ICV	I31L010	MULTI	12/10/96	12:01	TV	S	CONC
11	ICB	I31L010	MULTI	12/10/96	12:06	TV	S	CONC
12	ICSABI	I31L010	MULTI	12/10/96	12:10	TV	S	CONC
13	CCV1	I31L010	MULTI	12/10/96	12:38	TV	S	CONC
14	CCB1	I31L010	MULTI	12/10/96	12:44	TV	S	CONC
15	IPL004SB	I31L010	MULTI	12/10/96	12:51	TV	S	CONC
16	IPL004SL	I31L010	MULTI	12/10/96	12:55	TV	S	CONC
17	IPL004SC	I31L010	MULTI	12/10/96	12:59	TV	S	CONC
18	K145-01	I31L010	MULTI	12/10/96	13:05	TV	S	CONC
19	K145-02	I31L010	MULTI	12/10/96	13:08	TV	S	CONC
20	K145-03	I31L010	MULTI	12/10/96	13:12	TV	S	CONC
21	K145-04	I31L010	MULTI	12/10/96	13:16	TV	S	CONC
22	K145-05	I31L010	MULTI	12/10/96	13:20	TV	S	CONC
23	K145-06	I31L010	MULTI	12/10/96	13:24	TV	S	CONC
24	K145-07	I31L010	MULTI	12/10/96	13:28	TV	S	CONC
25	CCV2	I31L010	MULTI	12/10/96	13:39	TV	S	CONC
26	CCB2	I31L010	MULTI	12/10/96	13:45	TV	S	CONC
27	K145-08	I31L010	MULTI	12/10/96	13:49	TV	S	CONC
28	K145-09	I31L010	MULTI	12/10/96	13:53	TV	S	CONC
29	K145-10	I31L010	MULTI	12/10/96	13:57	TV	S	CONC
30	K145-11	I31L010	MULTI	12/10/96	14:01	TV	S	CONC
31	K145-12	I31L010	MULTI	12/10/96	14:05	TV	S	CONC
32	K145-13	I31L010	MULTI	12/10/96	14:09	TV	S	CONC
33	K145-13D	I31L010	MULTI	12/10/96	14:13	TV	S	CONC
34	K145-13M	I31L010	MULTI	12/10/96	14:17	TV	S	CONC
35	K145-13T	I31L010	MULTI	12/10/96	14:22	TV	S	CONC
36	CCV3	I31L010	MULTI	12/10/96	14:34	TV	S	CONC
37	CCB3	I31L010	MULTI	12/10/96	14:40	TV	S	CONC
38	K145-14	I31L010	MULTI	12/10/96	14:44	TV	S	CONC
39	K145-15	I31L010	MULTI	12/10/96	14:48	TV	S	CONC
40	K145-16	I31L010	MULTI	12/10/96	14:51	TV	S	CONC
41	K145-17	I31L010	MULTI	12/10/96	14:55	TV	S	CONC
42	K145-18	I31L010	MULTI	12/10/96	14:59	TV	S	CONC
43	K145-19	I31L010	MULTI	12/10/96	15:03	TV	S	CONC
44	K145-20	I31L010	MULTI	12/10/96	15:07	TV	S	CONC
45	ICSABF	I31L010	MULTI	12/10/96	15:13	TV	S	CONC
46	CCV4	I31L010	MULTI	12/10/96	15:24	TV	S	CONC
47	CCB4	I31L010	MULTI	12/10/96	15:34	TV	S	CONC
48	IPK022SB	I31L010	MULTI	12/10/96	16:02	TV	S	CONC
49	IPK022SL	I31L010	MULTI	12/10/96	16:26	TV	S	CONC
50	IPK022SC	I31L010	MULTI	12/10/96	16:30	TV	S	CONC
51	K118-04	I31L010	MULTI	12/10/96	16:36	TV	S	CONC
52	K118-05	I31L010	MULTI	12/10/96	16:40	TV	S	CONC
53	K118-06	I31L010	MULTI	12/10/96	16:44	TV	S	CONC

Analysis Report Summary Wed 12-11-96 01:47:14 PM

#	Sample Name	File	Method	Date	Time	OpID	Type	M
54	K118-06M	I31L010	MULTI	12/10/96	16:48	TV	S	C
55	K118-06T	I31L010	MULTI	12/10/96	16:53	TV	S	C
56	CCV5	I31L010	MULTI	12/10/96	17:05	TV	S	C
57	CCB5	I31L010	MULTI	12/10/96	17:13	TV	S	C
58	IPL006WB	I31L010	MULTI	12/10/96	17:17	TV	S	C
59	IPL006WL	I31L010	MULTI	12/10/96	17:21	TV	S	C
60	IPL006WC	I31L010	MULTI	12/10/96	17:25	TV	S	C
61	L022-02	I31L010	MULTI	12/10/96	17:31	TV	S	C
62	ICSABF	I31L010	MULTI	12/10/96	17:37	TV	S	C
63	CCV6	I31L010	MULTI	12/10/96	17:42	TV	S	C
64	CCB6	I31L010	MULTI	12/10/96	17:51	TV	S	C
65	IPK034WB	I31L010	MULTI	12/10/96	18:08	TV	S	C
66	IPK034WL	I31L010	MULTI	12/10/96	18:12	TV	S	C
67	IPK034WC	I31L010	MULTI	12/10/96	18:16	TV	S	C
68	K110-01	I31L010	MULTI	12/10/96	18:22	TV	S	C
69	ICSABF	I31L010	MULTI	12/10/96	18:36	TV	S	C
70	CCV7	I31L010	MULTI	12/10/96	18:44	TV	S	C
71	CCB7	I31L010	MULTI	12/10/96	18:53	TV	S	C

#	Sample Name	2203/1	2203/2	1960/1	1960/2	As	Tl
1	S0	.22188	.15842	-.14192	.03798	.02848	-.16541
2	S1	42.5048	30.5452	7.09995	4.68465	8.25837	11.9125
3	S2	86.7796	64.1819	15.0505	10.0805	17.2214	25.1524
4	S3	121.878	89.9016	21.6822	14.8691	24.4333	36.0525
5	S4						
6	S5						
7	S6						
8	ICV HIGH1	1387.	1480.	1386.	1464.	1443.	1450.
9	ICV HIGH2	-6.998	.1679	3.615	16.22	.9412	2.757
10	ICV	444.8	485.1	468.0	514.1	520.1	481.9
11	ICB	-.1536	-2.467	7.659	11.92	-2.304	5.422
12	ICSABI	699.9	949.9	770.4	852.3	903.0	848.0
13	CCV1	986.5	1054.	971.6	1020.	989.6	941.9
14	CCB1	3.116	-2.451	11.52	9.823	-2.995	2.937
15	IPL004SB	-.5588	-251.7	1488.	166.9	-146.3	302.0
16	IPL004SL	82530.	89050.	162000.	184600.	89300.	178000.
17	IPL004SC	80970.	89050.	159100.	183800.	89520.	178700.
18	K145-01	2086.	5656.	-7262.	-3425.	-98.75	3078.
19	K145-02	2870.	6979.	-8205.	-4031.	-455.8	3023.
20	K145-03	9033.	13300.	-8108.	-4616.	-505.8	3384.
21	K145-04	-551.9	2083.	-7828.	-3325.	-240.1	1805.
22	K145-05	676.0	4187.	-10090.	-4838.	231.6	1586.
23	K145-06	6560.	10350.	-10030.	-4380.	29.63	2959.
24	K145-07	12630.	17660.	-9168.	-4804.	129.1	2975.
25	CCV2	1038.	1051.	1028.	1013.	1004.	956.8
26	CCB2	1.955	-.4188	3.288	14.39	.5191	4.017
27	K145-08	39660.	42830.	-8307.	-1948.	382.8	2903.
28	K145-09	4669.	7873.	-9816.	-2634.	49.79	1862.
29	K145-10	11040.	13210.	-8684.	-1916.	45.10	1033.
30	K145-11	152600.	157900.	-7084.	-2914.	122.3	2687.
31	K145-12	702900.	732700.	-14160.	-6338.	886.9	4734.
32	K145-13	13650.	17260.	-8048.	-2694.	263.5	1966.
33	K145-13D	21670.	26330.	-7091.	-2237.	605.9	2548.
34	K145-13M	89260.	98310.	120100.	139300.	72280.	159800.
35	K145-13T	16500.	18570.	-4827.	-1405.	-938.3	3108.
36	CCV3	989.4	1027.	979.9	979.8	990.1	961.3
37	CCB3	3.882	-1.027	10.65	12.51	1.630	3.833
38	K145-14	23300.	28070.	-7140.	-2204.	268.3	2700.
39	K145-15	8874.	12640.	-8368.	-1905.	163.2	2751.
40	K145-16	3481.	7425.	-8764.	-3368.	-514.3	2490.
41	K145-17	3898.	8118.	-7817.	-2924.	-457.4	2948.
42	K145-18	6059.	9562.	-8148.	-2989.	-409.5	2880.
43	K145-19	10640.	14810.	-8726.	-2980.	134.9	2604.
44	K145-20	6714.	9572.	-6793.	-3404.	-277.3	2235.
45	ICSABF	709.2	925.7	772.0	829.9	882.1	840.7
46	CCV4	924.2	982.7	939.6	964.2	961.7	921.3
47	CCB4	-3.201	.0079	1.491	11.62	-2.034	3.237
48	IPK022SB	177.6	-66.51	-661.0	1065.	-5.152	-26.00
49	IPK022SL	80950.	87800.	158000.	174000.	87440.	177000.
50	IPK022SC	80430.	87630.	155100.	176400.	87400.	177500.
51	K118-04	-2711.	-2105.	139.1	389.6	547.0	441.3
52	K118-05	-2009.	-1639.	-270.0	405.8	270.6	103.9
53	K118-06	-645.0	692.0	370.8	-228.8	218.8	21.41

#	Sample Name	2203/1	2203/2	1960/1	1960/2	As	Tl
54	K118-06M	57750.	66280.	135500.	154300.	76280.	132000.
55	K118-06T	-3603.	-440.2	-4787.	4014.	-432.7	1540.
56	CCV5	919.8	988.9	956.2	982.9	962.7	920.5
57	CCB5	3.086	-1.669	3.490	9.307	.9996	1.654
58	IPL006WB	2.206	-.6846	-3.323	7.415	-2.334	.0021
59	IPL006WL	829.5	885.3	1743.	1854.	911.0	1786.
60	IPL006WC	835.2	894.6	1773.	1893.	919.7	1818.
61	L022-02	-3.221	-2.098	46.44	51.21	6.555	5.092
62	ICSABF	691.3	915.2	787.4	831.2	863.6	834.6
63	CCV6	891.1	975.2	936.0	977.1	955.9	919.3
64	CCB6	1.413	.8526	-.3399	9.925	.6693	1.023
65	IPK034WB	1.067	-1.549	-8.340	9.004	-.4119	.5130
66	IPK034WL	786.7	883.3	1654.	1825.	919.6	1800.
67	IPK034WC	789.9	894.0	1655.	1867.	908.9	1793.
68	K110-01	1.768	-.9057	16.20	18.75	3.192	5.042
69	ICSABF	724.4	913.2	832.6	852.6	875.8	849.8
70	CCV7	907.4	937.5	980.4	982.6	954.0	913.5
71	CCB7	4.170	-2.081	1.524	5.481	-1.103	1.678

#	Sample Name	Al	Ca	Fe	Mg	Cd	Cu
1	S0	.37381	.03948	.00199	.00549	.12893	.2[illegible]
2	S1					144.445	81.3[illegible]
3	S2					301.981	88.[illegible]
4	S3					425.288	81.[illegible]
5	S4	13.5532	36.083	.7931	32.0365		
6	S5	28.017	73.1709	1.5382	66.5617		
7	S6	38.8611	102.918	2.27686	94.2404		
8	ICV HIGH1	.1101	-16.53	175.1	-5.723	1453.	1441.
9	ICV HIGH2	14590.	L142400.	L14190.	143800.	.5359	3.052
10	ICV	4944.	50250.	5040.	48400.	501.8	471.[illegible]
11	ICB	28.44	41.89	-13.39	47.53	.2027	-.4[illegible]
12	ICSABI	437800.	422500.	178800.	453000.	893.6	432.1
13	CCV1	9573.	95430.	9875.	98210.	970.0	911.7
14	CCB1	30.77	93.59	5.798	50.83	.5898	.5[illegible]
15	IPL004SB	2080.	-8211.	904.3	490.8	7.826	-9.813
16	IPL004SL	931400.	4928e3	989800.	4871e3	90400.	85490.
17	IPL004SC	952200.	4957e3	980300.	4702e3	90240.	88460.
18	K145-01	19e6	14e6	42e6	10e6	153.7	55490.
19	K145-02	21e6	15e6	45e6	12e6	185.0	61450.
20	K145-03	19e6	13e6	42e6	11e6	161.4	40880.
21	K145-04	15e6	15e6	33e6	8043e3	149.5	28170.
22	K145-05	18e6	4323e3	48e6	5625e3	107.8	35430.
23	K145-06	19e6	12e6	46e6	8296e3	168.3	34830.
24	K145-07	18e6	12e6	41e6	7331e3	195.1	43960.
25	CCV2	9592.	96980.	9848.	96970.	977.8	933.7
26	CCB2	34.35	31.87	25.02	49.08	.1694	.1354
27	K145-08	17e6	14e6	40e6	8869e3	242.2	37840.
28	K145-09	19e6	3931e3	54e6	4625e3	141.2	26080.
29	K145-10	16e6	5260e3	47e6	4859e3	87.98	27190.
30	K145-11	18e6	11e6	47e6	6806e3	215.5	31820.
31	K145-12	34e6	21e6	81e6	16e6	1255.	125600.
32	K145-13	19e6	8918e3	44e6	5745e3	184.4	43870.

#	Sample Name	Al	Ca	Fe	Mg	Cd	Cu
33	K145-13D	19e6	8487e3	43e6	5762e3	174.8	59320.
34	K145-13M	19e6	16e6	39e6	12e6	84030.	138900.
35	K145-13T	21e6	10e6	51e6	6566e3	337.0	47190.
36	CCV3	9513.	96050.	9679.	96140.	977.5	923.7
37	CCB3	H204.9	346.7	85.75	232.8	1.015	.1435
38	K145-14	21e6	13e6	48e6	8233e3	256.5	61050.
39	K145-15	18e6	12e6	39e6	7160e3	168.1	43690.
40	K145-16	23e6	14e6	52e6	10e6	167.2	42890.
41	K145-17	20e6	14e6	44e6	10e6	159.9	37310.
42	K145-18	20e6	14e6	48e6	9477e3	176.7	44160.
43	K145-19	18e6	12e6	43e6	9142e3	140.9	40160.
44	K145-20	18e6	13e6	43e6	10e6	130.0	43550.
45	ICSABF	430900.	414200.	173100.	445600.	885.5	426.3
46	CCV4	9430.	93330.	9340.	93260.	949.3	L892.4
47	CCB4	49.61	109.7	28.09	106.4	.9812	.6106
48	IPK022SB	5411.	14270.	3141.	-206.9	-2.533	-50.08
49	IPK022SL	914900.	4793e3	969900.	4539e3	89460.	87300.
50	IPK022SC	906900.	4809e3	968000.	4548e3	89460.	87110.
51	K118-04	162500.	162500.	226200.	6384e3	34.05	3049.
52	K118-05	168500.	168500.	271700.	4434e3	17.48	3380.
53	K118-06	754800.	754800.	632600.	5325e3	9.489	9409.
54	K118-06M	1109e3	1109e3	1172e3	8676e3	77370.	75170.
55	K118-06T	888400.	888400.	767700.	6467e3	37.69	8602.
56	CCV5	9507.	94080.	9491.	94810.	952.4	L888.4
57	CCB5	33.41	49.41	-7.000	11.11	.0040	-.8785
58	IPL006WB	17.23	24.86	12.16	19.83	.2132	-.5473
59	IPL006WL	9187.	47890.	9667.	46720.	907.8	888.1
60	IPL006WC	9346.	48400.	9776.	47240.	919.7	887.8
61	L022-02	43.46	43530.	-4.279	39680.	-.1088	-.6411
62	ICSABF	422500.	403300.	169600.	436200.	870.4	416.2
63	CCV6	9232.	92880.	9300.	92820.	946.8	L889.8
64	CCB6	43.95	88.89	2.802	16.06	-.0837	-1.111
65	IPK034WB	24.94	-80.18	8.958	7.231	-.1280	-.4.444
66	IPK034WL	9214.	46930.	9527.	46690.	916.0	887.6
67	IPK034WC	9185.	47420.	9492.	46030.	912.3	881.7
68	K110-01	69.34	31470.	17.49	13800.	1.272	.4414
69	ICSABF	419400.	401500.	169600.	434100.	881.3	430.4
70	CCV7	9306.	93580.	9457.	94030.	940.6	L882.1
71	CCB7	38.86	39.59	-3.775	18.08	-.1184	-.8768

#	Sample Name	Mn	V	Zn	Pb	Se
1	S0	.01049	-.01949	.09545		
2	S1	17.7002	19.4593	6.35432		
3	S2	35.9265	39.6352	13.1724		
4	S3	50.4168	55.5702	18.4868		
5	S4					
6	S5					
7	S6					
8	ICV HIGH1	L1352.	L1354.	1452.	1449.	1438.
9	ICV HIGH2	.4143	3.322	24.09	-2.218	12.02
10	ICV	L434.1	452.5	496.5	471.7	498.7
11	ICB	.1938	.0994	-1.469	-1.696	H10.50

#	Sample Name	Mn	V	Zn	Pb	Se	
12	ICSABI	L351.8	L387.7	894.0	868.7	825.0	
13	CCV1	L852.3	L885.3	973.4	1031.	1004.	
14	CCB1	.2366	.5242	4.510	-.5968	H10.39	
15	IPL004SB	-27.64	-27.99	-650.0	-168.1	H606.8	
16	IPL004SL	75990.	77120.	88970.	86880.	177100.	
17	IPL004SC	75000.	76000.	88710.	86360.	175600.	
18	K145-01	661500.	121100.	80260.	4467.	-4702.	
19	K145-02	648600.	139200.	92290.	5610.	-5421.	
20	K145-03	619800.	116800.	76510.	11880.	-5779.	
21	K145-04	637700.	74770.	56110.	1206.	-4824.	
22	K145-05	658200.	129700.	46070.	3018.	-6588.	
23	K145-06	773700.	124700.	64330.	9085.	-6263.	
24	K145-07	618300.	106700.	78020.	15990.	-6257.	
25	CCV2	908.0	939.1	989.8	1046.	1018.	
26	CCB2	.3367	.1973	-2.738	.3715	H10.70	
27	K145-08	483800.	130800.	76860.	41770.	-3398.	
28	K145-09	735900.	172700.	48300.	6806.	-4959.	
29	K145-10	382200.	144700.	47120.	12490.	-4170.	
30	K145-11	743300.	143500.	61400.	158100.	-4302.	
31	K145-12	1616e3	247100.	450400.	722800.	-8941.	
32	K145-13	822400.	133200.	74710.	16060.	-4477.	
33	K145-13D	911100.	136400.	89400.	24780.	-3854.	
34	K145-13M	825800.	190300.	158800.	95830.	133900.	
35	K145-13T	913600.	143400.	87710.	17880.	-2544.	
36	CCV3	L838.0	L864.1	989.7	1015.	979.9	
37	CCB3	.8019	1.044	7.870	.8079	H11.89	
38	K145-14	919000.	146300.	88430.	26480.	-3848.	
39	K145-15	791800.	119200.	74710.	11380.	-3391.	
40	K145-16	968500.	149700.	77920.	6112.	-5499.	
41	K145-17	824200.	139200.	74260.	6713.	-4554.	
42	K145-18	1072e3	142800.	80150.	8598.	-4707.	
43	K145-19	732800.	132900.	73000.	13420.	-4894.	
44	K145-20	768500.	122600.	75300.	8620.	-4535.	
45	ICSABF	L340.2	L368.4	872.3	853.8	810.8	
46	CCV4	L771.0	L790.1	937.5	983.2	956.0	
47	CCB4	1.478	2.750	.9447	-1.081	H8.250	
48	IPK022SB	129.6	44.26	949.9	14.78	490.3	
49	IPK022SL	71730.	71470.	87270.	85520.	168700.	
50	IPK022SC	71660.	71800.	87020.	85230.	169300.	
51	K118-04	9298.	472.3	1092.	-2307.	306.2	
52	K118-05	12100.	527.7	1320.	-1762.	180.8	
53	K118-06	20540.	1110.	8688.	248.8	-29.15	
54	K118-06M	71380.	55410.	80940.	63440.	148000.	
55	K118-06T	23830.	1418.	9653.	-1493.	1083.	
56	CCV5	L761.7	L773.0	944.8	965.9	974.0	
57	CCB5	-.1194	.3577	2.412	-.0853	H7.370	
58	IPL006WB	-.0339	1.368	-1.945	.2781	3.839	
59	IPL006WL	L720.5	L712.7	884.6	866.7	1817.	
60	IPL006WC	L723.7	L716.1	894.8	874.9	1853.	
61	L022-02	.9936	9.897	-5.509	-2.472	49.62	
62	ICSABF	L314.7	L340.0	855.6	840.6	816.6	
63	CCV6	L697.2	L702.9	942.7	947.2	963.4	
64	CCB6	-.1482	.3303	2.253	1.039	H6.507	
65	IPK034WB	-.1907	.6275	-6.381	-.6780	3.229	

#	Sample Name	Mn	V	Zn	Pb	Se	
66	IPK034WL	L657.8	L649.0	893.0	851.1	1768.	
67	IPK034WC	L648.4	L636.8	888.0	859.3	1797.	
68	K110-01	.1481	22.52	3.202	-.0152	17.90	
69	ICSABF	L358.3	L381.5	865.5	850.3	846.0	
70	CCV7	L762.0	L766.7	929.8	927.5	981.8	
71	CCB7	-.0768	-.1483	2.253	.0008	4.150	

ANALYSIS RUN LOG FOR ICP

Analytical Batch J31L001 Method CLP ☐ 6010 ☒ 200.7 ☐ Book # T-A08-001 Page # 097

Mthod File Multi Autosampler Table Starting Date 12.5.96 Time Ending Date 12.5.96 Time

Seq.	Lab Sample ID	DF	Analysis	Matrix
1	ICV HIGH1			
2	ICV HIGH2			
3	ICV			
4	ICB			
5	ICSABI			
6	CCV1			
7	CCB1			
8	IPL002WB			
9	WL			
10	WC			
11	K142-02			
12	-02D			
13	-02M ~~-02T (114)~~			
14	~~-05~~ -02T	5X		
15	~~-07~~ -05			
16	~~K110-01~~ -07			
17	~~ICSABF~~ K110-01			
18	~~CCV2~~ ICSABF			
19	~~CCB2~~ CCV2			
20	~~IPL0055B~~ CCB2			
21	IPL005SB			
22	SC			
23	~~K145-21~~ SC			
24	~~ICSABF~~ K145-21			
25	~~CCV3~~ ICSABF			
26	~~CCB3~~ CCV3			
27	CCB3			
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Seq.	Lab Sample ID	DF	Analysis	Matrix
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Std.	ID
S1	S01B-06.14-01
S2	.02
S3	.03
S4	S01B-06-10.02
S5	.03
S6	.04
ICV High 1	S01B-06.14-03
ICV High 2	S01B-06-10.04
ICV	S01C-06.31.02
CCV	S01B-06.10.05
ICSA	S01C.06-36.03
ICSAB	36.04
CRI	

Comments:

EMAX TJ31

Analyzed By: TJ/ab

Checked By: 018

Date:

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	S0	I31L001	MULTI	12/05/96	20:53		X	IR
2	S1	I31L001	MULTI	12/05/96	20:57		X	IR
3	S2	I31L001	MULTI	12/05/96	21:00		X	IR
4	S3	I31L001	MULTI	12/05/96	21:04		X	IR
5	S4	I31L001	MULTI	12/05/96	21:08		X	IR
6	S5	I31L001	MULTI	12/05/96	21:11		X	IR
7	S6	I31L001	MULTI	12/05/96	21:14		X	IR
8	ICV HIGH1	I31L001	MULTI	12/05/96	21:18		S	CONC
9	ICV HIGH2	I31L001	MULTI	12/05/96	21:23		S	CONC
10	ICV	I31L001	MULTI	12/05/96	21:28		S	CONC
11	ICB	I31L001	MULTI	12/05/96	21:33		S	CONC
12	ICSABI	I31L001	MULTI	12/05/96	21:37		S	CONC
13	CCV1	I31L001	MULTI	12/05/96	21:41		S	CONC
14	CCB1	I31L001	MULTI	12/05/96	21:47		S	CONC
15	IPL002WB	I31L001	MULTI	12/05/96	21:51		S	CONC
16	IPL002WL	I31L001	MULTI	12/05/96	21:55		S	CONC
17	IPL002WC	I31L001	MULTI	12/05/96	21:59		S	CONC
18	K142-02	I31L001	MULTI	12/05/96	22:05		S	CONC
19	K142-02D	I31L001	MULTI	12/05/96	22:09		S	CONC
20	K142-02M	I31L001	MULTI	12/05/96	22:13		S	CONC
21	K142-02T	I31L001	MULTI	12/05/96	22:18		S	CONC
22	K142-05	I31L001	MULTI	12/05/96	22:22		S	CONC
23	K142-07	I31L001	MULTI	12/05/96	22:26		S	CONC
24	~~ICSABF~~ K110-01	I31L001	MULTI	12/05/96	22:32		S	CONC
25	~~CCV2~~ ICSABF	I31L001	MULTI	12/05/96	22:37		S	CONC
26	~~CCB2~~ CCV2	I31L001	MULTI	12/05/96	22:42		S	CONC
27	~~IPL005SB~~ CCB2	I31L001	MULTI	12/05/96	22:46		S	CONC
28	~~IPL005SL~~ IPLW5 SB	I31L001	MULTI	12/05/96	22:50		S	CONC
29	~~IPL005SC~~ SL	I31L001	MULTI	12/05/96	22:54		S	CONC
30	~~K145-21~~ SC	I31L001	MULTI	12/05/96	23:00		S	CONC
31	~~ICSABF~~ K145-21	I31L001	MULTI	12/05/96	23:05		S	CONC
32	~~CCV3~~ ICSABF	I31L001	MULTI	12/05/96	23:11		S	CONC
33	~~CCB3~~ CCV3	I31L001	MULTI	12/05/96	23:16		S	CONC
34	CCB3	I31L001	MULTI	12/05/96	23:21		S	CONC

#	Sample Name	2203/1	2203/2	1960/1	1960/2	As	Tl
1	S0	.66066	.06746	-.27436	.09595	-.05747	-.11894
2	S1	32.5187	19.5277	7.00049	4.95302	8.42678	8.47976
3	S2	66.1464	39.984	15.6662	10.2828	17.5142	17.8291
4	S3	95.3133	57.3533	22.4678	15.3303	24.6132	25.2249
5	S4						
6	S5						
7	S6						
8	ICV HIGH1	1474.	1456.	1474.	1469.	1467.	1480.
9	ICV HIGH2	-1.017	-1.472	13.67	15.18	6.682	2.077
10	ICV	494.5	509.0	510.1	509.6	517.2	489.7
11	ICB	-2.317	.5751	10.88	8.566	2.594	-.4294
12	ICSABI	876.4	1012.	869.1	896.7	899.0	912.4
13	CCV1	948.0	980.2	995.8	987.6	969.8	962.8
14	CCB1	-1.433	-2.394	20.57	8.425	5.976	4.064
15	IPL002WB	4.797	-.3814	11.24	2.582	3.035	-.3707
16	IPL002WL	899.2	895.3	1789.	1780.	891.6	1792.
17	IPL002WC	961.6	968.3	1924.	1942.	948.9	1930.
18	K142-02	5.235	-2.852	10.52	9.769	3.123	2.479
19	K142-02D	2.023	.3605	5.000	4.830	.3006	-.9767
20	K142-02M	914.7	905.8	1811.	1801.	894.4	1819.
21	K142-02T	-7.136	-1.558	84.43	36.87	7.972	22.48
22	K142-05	-.4771	3.101	2.795	4.843	.5944	.5743
23	K142-07	3.855	.3209	4.275	1.896	-1.258	-.6018
24	ICSABF	-.5880	-.2921	10.22	2.585	L6.329	L-1.146
25	CCV2	933.5	1030.	905.0	884.3	916.0	920.1
26	CCB2	967.4	958.7	1020.	972.1	H966.9	H949.3
27	IPL005SB	58.16	123.9	2024.	1236.	532.9	581.9
28	IPL005SL	651.6	-98.87	185.0	1018.	L282.9	L130.1
29	IPL005SC	89240.	85640.	170100.	167200.	84550.	176300.
30	K145-21	80970.	77720.	151300.	148800.	74840.	156400.
31	ICSABF	113.0	110.2	-34.14	31.18	L2.708	L22.88
32	CCV3	932.8	1006.	931.2	877.1	903.8	918.4
33	CCB3	971.4	953.8	1026.	966.1	H958.5	H948.3
34	CCB3	-9.298	1.854	4.770	-5.343	7.917	-.5802

#	Sample Name	Al	Ca	Fe	Mg	Cd	Cu
1	S0	.72913	.04197	.00149	.01149	.17341	.41829
2	S1					112.839	22.6647
3	S2					230.981	45.3068
4	S3					327.763	65.1609
5	S4	9.81209	25.2384	.56671	25.1499		
6	S5	21.0605	52.5417	1.16641	53.4273		
7	S6	29.6792	74.5377	1.69665	76.7801		
8	ICV HIGH1	-25.20	-.6846	141.1	29.89	1476.	1492.
9	ICV HIGH2	14760.	144400.	14630.	146300.	.6544	1.920
10	ICV	4685.	49010.	4947.	47280.	512.8	516.1
11	ICB	-5.573	15.05	.2226	22.25	.0091	.3818
12	ICSABI	451000.	434800.	187100.	470400.	944.6	500.1
13	CCV1	10090.	98860.	10080.	98860.	996.5	1022.
14	CCB1	7.657	23.89	30.85	40.64	.1331	.7777
15	IPL002WB	-29.96	-56.69	4.630	13.54	.0596	.0726

#	Sample Name	Al	Ca	Fe	Mg	Cd	Cu
16	IPL002WL	8884.	46740.	9443.	45600.	908.7	940.0
17	IPL002WC	9485.	50070.	10130.	48890.	971.6	1003.
18	K142-02	-22.94	-38.02	22.08	30.96	.5374	1.400
19	K142-02D	-31.77	-61.61	17.74	13.54	-.2142	.6872
20	K142-02M	8979.	47400.	9617.	46250.	918.2	952.0
21	K142-02T	-45.99	198.1	88.50	116.1	2.020	7.621
22	K142-05	56.17	48630.	127.0	20550.	.5322	2.407
23	K142-07	31.26	42480.	83.38	18030.	.0259	1.999
24	ICSABF	L-28.39	L29880.	L11.68	L13190.	L.7527	L4.737
25	CCV2	H466600.	H445200.	H192700.	H481300.	962.6	L519.5
26	CCB2	H9935.	H98600.	H10020.	H98640.	H983.0	H1021.
27	IPL005SB	-634.0	5239.	2204.	5709.	20.07	151.3
28	IPL005SL	6186.	-7537.	7026.	1838.	L-15.12	46.09
29	IPL005SC	870200.	4561e3	930700.	4421e3	88340.	93630.
30	K145-21	764800.	4140e3	828300.	3993e3	78890.	83040.
31	ICSABF	L210600.	L158100.	H472500.	L108000.	L1.934	501.5
32	CCV3	H462800.	H441900.	H190500.	H477300.	949.7	L516.4
33	CCB3	H9879.	H98060.	H9967.	H97850.	H974.2	H1016.
34	CCB3	-105.4	59.28	22.00	18.37	.2391	-2.763

#	Sample Name	Mn	V	Zn	Pb	Se
1	S0	.00849	.00349	.10594		
2	S1	13.9485	15.926	5.55372		
3	S2	28.2454	32.1939	11.2059		
4	S3	39.8516	45.3368	15.8346		
5	S4					
6	S5					
7	S6					
8	ICV HIGH1	1470.	1473.	1473.	1462.	1471.
9	ICV HIGH2	1.076	.3963	2.862	-1.321	14.68
10	ICV	499.3	512.9	495.2	504.2	509.8
11	ICB	.1033	-1.147	-.2727	-.3881	H9.335
12	ICSABI	442.3	463.2	916.6	966.6	887.5
13	CCV1	959.6	994.0	973.5	969.4	990.3
14	CCB1	.1390	-.7541	-.3664	-2.074	H12.47
15	IPL002WB	-.0414	-1.561	-4.011	1.343	H5.465
16	IPL002WL	906.6	919.2	888.1	896.6	1783.
17	IPL002WC	970.0	983.0	938.7	966.0	1936.
18	K142-02	.3569	-.3392	-4.381	-.1592	10.02
19	K142-02D	.1762	-1.070	-5.120	.9140	4.887
20	K142-02M	927.9	941.2	889.2	908.8	1804.
21	K142-02T	1.061	-2.090	5.558	-3.415	52.71
22	K142-05	24.47	1.649	-1.341	1.909	4.162
23	K142-07	13.89	-.7461	-1.200	1.498	2.688
24	ICSABF	L-.3576	L32.64	L2.220	L-.3907	L5.127
25	CCV2	L465.9	L487.9	931.5	997.9	L891.2
26	CCB2	H989.1	H1026.	H958.6	H961.6	H988.2
27	IPL005SB	59.18	28.12	18.81	102.0	H1498.
28	IPL005SL	12.16	-125.3	-697.0	L151.0	L740.8
29	IPL005SC	91540.	93770.	84370.	86840.	168200.
30	K145-21	81510.	83260.	74940.	78800.	149600.
31	~~ICSABF~~ K145-21	H11740.	H1695.	L786.9	L111.1	L9.429

02

11110 ug/kg = 11.1 mg/kg

#	Sample Name	Mn	V	Zn	Pb	Se	
32	CCV3	L468.2	L488.7	919.3	981.4	L895.1	
33	CCB3	H996.5	H1035.	H947.6	H959.6	H986.1	
34	CCB3	.3030	1.745	3.145	-1.860	-1.975	

ANALYSIS RUN LOG FOR ICP

Analytical Batch I31L021 Method CLP ☐ 6010 ☑ 200.7 ☐ Book # T-A08-001 Page #

Mthod File MULT | Autosampler Table Starting Date 12-13 Time Ending Date 12.13.0 Time

Seq.	Lab Sample ID	DF	Analysis	Matrix
1	ICV HIGH			
2	ICV ICV HIGH 2			
3	ICB			
4	ICSA1			
5	ICSAB1			
6	CCV1			
7	CCB1			
8	IPL010 SB			
9	SL			
10	SC			
11	K145-04			
12	-04D			
13	04M			
14	04I	5x		
15	CCV2			
16	CCB2			
17	K145-05			
18	05D			
19	05M			
20	05I	5x		
21	ICSAF			
22	ICSABF			
23	CCV3			
24	CCB3			
25				
26				
27				
28				
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36				
37				
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Seq.	Lab Sample ID	DF	Analysis	Matrix
41				
42				
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Std.	ID
S1	501B.06.14.01
S2	.02
S3	.03
S4	501B.06.10.02
S5	.03
S6	.04
ICV High 1	501B.06.14.03
ICV High 2	10.04
ICV	501C.06.31.07
CCV	501B.06.10.05
ICSA	501C.06.36.03
ICSAB	.04
CRI	NA

Comments:

EMVT I31

Analyzed By: ABC

023

Checked By: _____

Date: _____

#	Sample Name	File	Method	Date	Time	Int'D	Type	Note
1	S0	I31L021	MULTI	12/13/96	21:13		X	IB
2	S1	I31L021	MULTI	12/13/96	21:17		X	IB
3	S2	I31L021	MULTI	12/13/96	21:21		X	IB
4	S3	I31L021	MULTI	12/13/96	21:24		X	IB
5	S4	I31L021	MULTI	12/13/96	21:28		X	IB
6	S5	I31L021	MULTI	12/13/96	21:31		X	IB
7	S6	I31L021	MULTI	12/13/96	21:34		X	IB
8	ICV HIGH1	I31L021	MULTI	12/13/96	21:41	ABC	S	CONC
9	ICV HIGH2	I31L021	MULTI	12/13/96	21:48	ABC	S	CONC
10	ICV	I31L021	MULTI	12/13/96	21:51	ABC	S	CONC
11	ICB	I31L021	MULTI	12/13/96	21:57	ABC	S	CONC
12	ICSAI	I31L021	MULTI	12/13/96	22:01	ABC	S	CONC
13	ICSABI	I31L021	MULTI	12/13/96	22:05	ABC	S	CONC
14	CCV1	I31L021	MULTI	12/13/96	22:11	ABC	S	CONC
15	CCB1	I31L021	MULTI	12/13/96	22:18	ABC	S	CONC
16	IPL010SB	I31L021	MULTI	12/13/96	22:20	ABC	S	CONC
17	IPL010SL	I31L021	MULTI	12/13/96	22:24	ABC	S	CONC
18	IPL010SC	I31L021	MULTI	12/13/96	22:28	ABC	S	CONC
19	K145-04	I31L021	MULTI	12/13/96	22:34	ABC	S	CONC
20	K145-04D	I31L021	MULTI	12/13/96	22:38	ABC	S	CONC
21	K145-04M	I31L021	MULTI	12/13/96	22:43	ABC	S	CONC
22	K145-04T	I31L021	MULTI	12/13/96	22:47	ABC	S	CONC
23	CCV2	I31L021	MULTI	12/13/96	22:53	ABC	S	CONC
24	CCB2	I31L021	MULTI	12/13/96	22:59	ABC	S	CONC
25	K145-05	I31L021	MULTI	12/13/96	23:03	ABC	S	CONC
26	K145-05D	I31L021	MULTI	12/13/96	23:07	ABC	S	CONC
27	K145-05M	I31L021	MULTI	12/13/96	23:11	ABC	S	CONC
28	K145-05T	I31L021	MULTI	12/13/96	23:16	ABC	S	CONC
29	ICSAF	I31L021	MULTI	12/13/96	23:21	ABC	S	CONC
30	ICSABF	I31L021	MULTI	12/13/96	23:26	ABC	S	CONC
31	CCV3	I31L021	MULTI	12/13/96	23:31	ABC	S	CONC
32	CCB3	I31L021	MULTI	12/13/96	23:36	ABC	S	CONC
33	1	I31L021	MULTI	12/13/96	23:43	ABC	S	CONC
34	1	I31L021	MULTI	12/13/96	23:52	ABC	S	CONC

#	Sample Name	2203/1	2203/2	1820/1	1820/2	As	Ti
1	S0	.1989	.33798	-.13043	.05647	-.00599	-.00846
2	S1	44.5457	32.2909	8.00799	5.9848	8.356807	12.6201
3	S2	91.3472	66.8825	17.8292	11.7036	18.5003	27.2269
4	S3	130.756	94.1049	24.1924	16.02	26.5827	39.2946
5	S4						
6	S5						
7	S6						
8	ICV HIGH1	1471.	1454.	1446.	1448.	1458.	1469.
9	ICV HIGH2	-7.551	2.106	-2.022	6.383	1.799	1.744
10	ICV	523.9	521.1	514.3	507.0	521.4	475.9
11	ICB	1.327	-.3011	.2231	1.048	-.9015	-.7144
12	ICSAI	-50.77	97.98	-1.188	-8.757	-.8291	-3.942
13	ICSABI	950.8	1000.	928.0	949.0	897.2	939.3
14	CCV1	1032.	1011.	1052.	1018.	1024.	975.3
15	CCB1	2.133	.3769	4.400	3.779	3.910	.4627
16	IPL010SB	670.7	-30.66	-914.4	519.1	-19.91	-83.03
17	IPL010SL	93080.	88040.	174700.	172100.	92020.	186400.
18	IPL010SC	92090.	88240.	173700.	174400.	90030.	183200.
19	K145-04	-788.1	2150.	-3787.	-568.4	-825.4	1240.
20	K145-04D	-821.5	2610.	-5014.	-1011.	-202.3	854.8
21	K145-04M	74750.	78820.	138130.	131400.	71950.	154200.
22	K145-04T	-545.5	2145.	-8805.	-136.5	-1699.	1384.
23	CCV2	1048.	997.5	1053.	982.8	1010.	980.3
24	CCB2	1.650	-1.245	8.148	3.413	-.3950	-.2583
25	K145-05	1396.	4712.	-7155.	17.86	351.5	792.9
26	K145-05D	230.4	2724.	-8395.	312.7	20.15	580.5
27	K145-05M	72790.	72040.	113100.	116500.	69790.	141300.
28	K145-05T	3423.	4581.	-7486.	1787.	663.8	940.4
29	ICSAF	-64.97	102.3	-25.39	-4.869	.5890	-.2697
30	ICSABF	866.9	999.1	960.5	933.4	886.1	931.5
31	CCV3	1062.	995.8	1079.	1000.	1018.	971.9
32	CCB3	2.968	-.0672	-8.592	4.456	-.3733	1.199
33	1	-26.06	10.16	-39.70	11.67	3.330	6.560
34	1	-26.23	11.38	-44.64	11.86	3.326	4.861

#	Sample Name	Al	Ca	Fe	Mg	Cd	Cu
1	S0	.45477	.01849	.00149	.00899	.13243	.30739
2	S1					156.901	94.871
3	S2					324.845	69.832
4	S3					452.965	99.999
5	S4	15.1639	37.8911	.83908	34.057		
6	S5	30.958	75.7971	1.66466	70.2134		
7	S6	43.1074	108.107	2.36781	98.972		
8	ICV HIGH1	-10.59	54.39	181.4	-10.27	1449.	1474.
9	ICV HIGH2	14690.	144700.	14560.	146900.	.1097	1.321
10	ICV	4955.	50930.	5146.	49060.	496.5	485.7
11	ICB	-1.112	10.53	2.216	5.476	.1073	.3617
12	ICSAI	435200.	422500.	174800.	455100.	.1184	5.978
13	ICSABI	440300.	423400.	183200.	457700.	984.3	451.4
14	CCV1	10010.	99600.	10150.	99690.	997.2	984.3
15	CCB1	15.36	72.80	17.46	87.49	.1002	.6687

#	Sample Name	Al	Ca	Fe	Mg	Cd	Cu
16	IPL010SB	686.8	376.9	2859.	1381.	8.481	144.9
17	IPL010SL	1011e3	5312e3	1072e3	4946e3	92270.	97130.
18	IPL010SC	954500.	5230e3	1048e3	4873e3	90410.	94710.
19	K145-04	15e6	14e6	35e6	9202e3	126.0	31710.
20	K145-04D	15e6	14e6	35e6	9064e3	120.1	35820.
21	K145-04M	18e6	20e6	37e6	14e6	80560.	129600.
22	K145-04T	17e6	16e6	40e6	11e6	258.2	34710.
23	CCV2	9699.	98780.	10180.	99580.	992.9	987.4
24	CCB2	-1.447	52.37	14.39	20.89	.0874	.6765
25	K145-05	16e6	5509e3	54e6	6142e3	132.0	36700.
26	K145-05D	14e6	3171e3	43e6	4852e3	67.08	21580.
27	K145-05M	17e6	9163e3	47e6	9424e3	73600.	103300.
28	K145-05T	18e6	6339e3	62e6	7092e3	178.0	39850.
29	ICSAF	445600.	432400.	179300.	466100.	.1387	5.856
30	ICSABF	442800.	425500.	184500.	459400.	878.2	457.1
31	CCV3	10020.	100300.	10250.	100100.	992.9	995.7
32	CCB3	5.000	30.77	2.197	19.42	-.0810	.2012
33	1	-95.75	-25.27	108.7	23.21	.7701	1.229
34	1	-107.0	-29.99	72.22	15.74	.5887	.1501

#	Sample Name	Mn	V	Zn	Pb	Se
1	S0	.00599	.00849	.02098		
2	S1	17.5792	19.1259	8.78561		
3	S2	35.8936	38.8596	18.3833		
4	S3	50.4038	54.5897	19.2309		
5	S4					
6	S5					
7	S6					
8	ICV HIGH1	1481.	1481.	1444.	1459.	1447.
9	ICV HIGH2	.8509	1.868	14.98	-1.110	3.921
10	ICV	503.5	525.3	490.9	522.0	509.4
11	ICB	.0042	-.8140	.4295	.2411	.7713
12	ICSAI	7.004	22.68	28.07	45.45	-6.240
13	ICSABI	437.1	476.8	874.4	950.5	938.0
14	CCV1	1011.	1068.	995.4	1018.	1028.
15	CCB1	.0178	-.2464	.3021	.9818	3.986
16	IPL010SB	23.37	-.9910	87.86	202.9	41.78
17	IPL010SL	100200.	103500.	90180.	89710.	173000.
18	IPL010SC	98330.	101400.	88190.	89520.	174100.
19	K145-04	748400.	102600.	55110.	1171.	-1639.
20	K145-04D	956600.	108500.	58880.	1434.	-2044.
21	K145-04M	937400.	214300.	136700.	76130.	129600.
22	K145-04T	874700.	115000.	66430.	1249.	-2390.
23	CCV2	1049.	H1104.	983.4	1014.	1008.
24	CCB2	.3483	-.1006	3.119	-.2807	3.991
25	K145-05	926700.	185800.	45140.	3775.	-2371.
26	K145-05D	845600.	152400.	32210.	1894.	-1588.
27	K145-05M	1045e3	251900.	106500.	72290.	114700.
28	K145-05T	1078e3	207900.	51650.	4122.	-1301.
29	ICSAF	8.988	21.36	28.49	46.94	-11.70
30	ICSABF	467.7	510.4	885.6	955.1	942.4
31	CCV3	1085.	H1150.	981.9	1018.	1027.

#	Sample Name	Mn	V	Zn	Pb	Se
32	CCB3	.0899	-.2837	.8776	.9435	-.2218
33	1	.4054	5.587	-.5437	-1.902	-5.461
34	1	.2049	3.511	-.8409	-1.146	-7.088

DIGESTION LOG FOR ICP METALS

Batch IPL005S Method 3005 ☐ 3010 ☐ 3050 ☐ CLP ☐ ☐ Book # T-E08-001 Page #

Matrix Soil Starting Date 12/07/96 Time 12:00 Ending Date 12/08/96 Time 17:00

Lab Sample ID	Matrix Description: Color	Texture / Clarity	Artifacts	Sample Amount (g/ml)	pH	Extract Volume (ml)	Digestate Description: Color	Clarity
IPL005-SB				—		100.0		
SL				—				
SC				—				
96K145-21				1.0				
96L003-C1								
96K129-C1								
-C2								
96K085-C1								
-C2								
96K044-C1								
-C2								
96K085-11,14,16 PLP								
-11,14,16 M								

Standards	ID	Amount Added (ml)
LCS	SOIA-06-03-09	1.0
MS	SOIA-06-04-04	1.0
	SOIC-06-26-05	1.0

Reagent	Lot# / ID
HNO_3	116080
HCl	356040
H_2O_2	M157K034

SDG #	Extract Location
	ICP Lab

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Bn = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown Gn = Green	Fn = Fine	Td = Turbid	Vg = Vegetation
Og = Orange Rd = Red Yw = Yellow			

Comments: 96K129-C1 - comp. 8,10,12; K129-C2 comp. 14,16

96K085 - comp 1 - 11,14,16
C-2 - 17,19

96K044 - C1 - 6,8,10
C2 - 12,14,16

L003-C1 - 6,8,10

Prepared By: FY/05

Standard Added By: FY/05

Checked By: FY

Extracts Received By: ~~028~~

DIGESTION LOG FOR ICP METALS

Prep. Batch IPL004S Method 3005 ☐ 3010 ☐ 3050 ☐ CLP ☐ ☐ Book # T-E08-001 Page # 114

Matrix Soil P Starting Date 12/04/96 Time 12:00 Ending Date 12/04/96 Time 17:00

Lab Sample ID	Matrix Description			Sample Amount (g/ml)	pH	Extract Volume (ml)	Digestate Description	
	Color	Texture / Clarity	Artifacts				Color	Clarity
IPL004-SB				—		100.0		
-SL				—				
-SC				—				
96K145-01				1.0				
-02								
-03								
-04								
-05								
-06								
-07								
-08								
-09								
-10								
-11								
-12								
-13								
-13Dup								
-13MS								
-14								
-15								
-16								
-17								
-18								
-19								
-20								

EMAX

Standards	ID	Amount Added (ml)
LCS	SOIA-06-03-05	2.0 1.0
MS	SOIA-06-27-04 SOIA-06-03-05	2.0 1.0
	SOIC-06-26-05	1.0

Reagent	Lot# / ID
HNO_3	116080
HCl	356040
H_2O_2	M057 EP04

SDG #	Extract Location
	ICPLAB

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Bn = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown Gn = Green	Fn = Fine	Td = Turbid	Vg = Vegetation
Og = Orange Rd = Red Yw = Yellow			

Comments: _____

020

Prepared By: FY/05

Standard Added By: FY/05

Checked By: FY

Extracts Received By: _____

DIGESTION LOG FOR ICP METALS

Prep. Batch IPL011S / IPL010S Method 3005 ☐ 3010 ☐ 3050 ☐ CLP ☐ ☐ Book # T-E08-001 Page # 120

Matrix Soil Starting Date 12/13/96 Time 11:30 Ending Date 12/13/96 Time 17:00

Lab Sample ID	Matrix Description: Color	Texture / Clarity	Artifacts	Sample Amount (g/ml)	pH	Extract Volume (ml)	Digestate Description: Color	Clarity
IPL010-SB				—		100.0		
IPL010-SL				—			*	
IPL010-SC				—			*	
IPL011-SL				—			A	
IPL011-SC				—			A	
961039-02				1.0				
-04								
-06								
-08								
-10								
-12								
-14								
-16								
-18								
-20								
-22								
-27								
-29								
-29M*							*	
-29S*							*	
-29M^							^	
-29S^							^	
-31								
96K145-04								
-04M*							*	
-04DUP								

Standards	ID	Amount Added (ml)
LCS	S01A-06-01-09	1.0
MS	S01A-06-04-04	1.0
	S01C-06-25-03	1.0
GFAA	S01C-06-33-01	2.0

Reagent	Lot# / ID
HNO_3	116080
HCl	416101 / 356040 OS 12/13/96
H_2O_2	M151KP04
	/

SDG #	Extract Location

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Bn = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown Gn = Green	Fn = Fine	Td = Turbid	Vg = Vegetation
Og = Orange Rd = Red Yw = Yellow			

Comments:

030

Prepared By: OS

Standard Added By: OS / FY

Checked By: FY

Extracts Received By:

DIGESTION LOG FOR ICP METALS

Prep. Batch ~~IPL0105~~ IPL011S   Method 3005 ☐ 3010 ☐ 3050 ☐ CLP ☐ ☐   Book # T-E08-001 Page # 121

Matrix Soil   Starting Date 12/13/96   Time 11:30   Ending Date 12/15/96   Time 17:00

Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Sample Amount (g/ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
96K145-05				1.0		100.0		
-05M				↓		↓	*	
-05Dup				↓		↓		

Standards	ID	Amount Added (ml)
LCS	S01A-06-03-09	1.0
MS	S01A-06-04-04	1.0
	S01C-06-26-03	1.0
GFAA	S01C-06-33-01	2.0

Reagent	Lot# / ID
HNO_3	116080
HCl	416101
H_2O_2	M151KP04

SDG #	Extract Location

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Bn = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown Gn = Green	Fn = Fine	Td = Turbid	Vg = Vegetation
Og = Orange Rd = Red Yw = Yellow			

Comments:

031

Prepared By: OS

Standard Added By: OS/FY

Checked By: FY

Extracts Received By:

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-24-1996
EMAX Batch No.: 96L035

Attn: Mr. Mike Bailey

RCI
3233 Lance Drive, Unit #1
Stockton, CA 95205

Subject: Laboratory Report
Project: Fort Baker / Project 96-12

Enclosed is the Laboratory report for samples received on 12/11/96. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
T2-N	L035-01	12/10/96	Soil	EPA 5030/M8015 EPA 8020 EPA M8015 Lead
T2-S	L035-02	12/10/96	Soil	EPA 5030/M8015 EPA 8020 EPA M8015 Lead
SP-8	L035-03	12/10/96	Soil	EPA 5030/M8015 EPA 8020 EPA M8015 Lead
SP-9	L035-04	12/10/96	Soil	EPA 5030/M8015 EPA 8020 EPA M8015 Lead
SP-10	L035-05	12/10/96	Soil	EPA 5030/M8015 EPA 8020 EPA M8015

Sample ID	Control #	Col Date	Matrix	Analysis
SP-11	L035-06	12/10/96	Soil	Lead EPA 5030/M8015 EPA 8020 EPA M8015
SP-12	L035-07	12/10/96	Soil	Lead EPA 5030/M8015 EPA 8020 EPA M8015
PL-11	L035-08	12/10/96	Soil	Lead EPA 5030/M8015 EPA 8020 EPA M8015
PL-12	L035-09	12/10/96	Soil	Lead EPA 5030/M8015 EPA 8020 EPA M8015
PL-13	L035-10	12/10/96	Soil	Lead EPA 5030/M8015 EPA 8020 EPA M8015
QC-3	L035-11	12/10/96	Soil	Lead EPA 5030/M8015 EPA 8020 EPA M8015

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

961035 L1

CHAIN OF CUSTODY RECORD
REQUEST FOR ANALYSIS

DATE: 12-10-96
PAGE 1 OF 1

C K Y incorporated
Analytical Laboratories
630 Maple Ave.
Torrance, Calif. 90503
Tel: 310-618-8889
Fax: 310-618-0818

CLIENT NAME: R.C.I
ADDRESS: 3233 LANCE DR UNIT-I STOCKTON CA 95205
PHONE NO. 209-464-6822 FAX NO. 209-464-0221
PROJECT NAME: FORT BAKER DACW-94-D-0020 DO#15
SEND REPORT TO: MIKE BAILEY

SAMPLER NAME/SIGNATURE: MICHAEL BAILEY [signature]

TURN AROUND TIME: NORMAL ☒ RUSH ☐

	SAMPLE NUMBER	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	CONTAINER SIZE/TYPE	WATER	SOIL	OTHER	418.1	(M8015) GAS	8010/601	(8020)/602 BTEX	8080/608	8240/624	8270/625	CAM Metals	M8015 DIESEL	6010 LEAD
1	T2-N	12-10-96	11:30		2" BRASS		X			X		X					X	X
2	T2-S	12-10-96	11:35		↓		X			X		X					X	X
3	SP-8	12-10-96	1:06				X			X		X					X	X
4	SP-9	12-10-96	1:03				X			X		X					X	X
5	SP-10	12-10-96	1:10				X			X		X					X	X
6	SP-11	12-10-96	1:15				X			X		X					X	X
7	SP-12	12-10-96	1:23				X			X		X					X	X
8	PL-11	12-10-96	2:00				X			X		X					X	X
9	PL-12	12-10-96	2:10				X			X		X					X	X
10	PL-13	12-10-96	2:20				X			X		X					X	X
11	QC-3	12-10-96			↓		X			X		X					X	X

COMMENTS: FAX RESULTS TO MIKE BAILEY 209-464-0221 T=4°C

Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:	Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:
[signature]	12-10-96	[signature]	12-11-96				
Company: R.C.I	Time:	Company: EMAX	Time: 10:00 AM	Company:	Time:	Company:	Time:

Storage/Disposal of Samples: Sample will be stored at CKY for 30 days at no charge and at $10/sample/month thereafter. Disposal of sample by the Laboratory will be charged at $10/sample.

FedEx USA Airbill

Tracking Number 236868694

12-11-96 10:00AM Y

Recipient's Copy

From
Date 12-10-96
Sender's Name MIKE BAILEY Phone (209) 543-97-96
Company N.C.I Dept/Floor/Suite/Room
Address 3233 LANCE DR UNIT-1
City STOCKTON State CA Zip 95205

2 Your Internal Billing Reference Information

3 To
Recipient's Name LAB MANAGER Phone (310) 618-8889
Company EMAX Dept/Floor/Suite/Room
Address 630 MAPLE AVE
(Do NOT use P.O. Box or FedEx location, print FedEx address here)
City TORRANCE State CA Zip 90503

For HOLD at FedEx Location check here
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(Call for delivery schedule. See back for detailed descriptions of freight products.)

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6 Special Handling
Does this shipment contain dangerous goods? ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)
☐ Dry Ice Dry Ice, 9, UN 1845 III ____ x ____ kg. 904 (Dangerous Goods Shipper's Declaration not required)
CA ☐ Cargo Aircraft Only

7 Payment
Bill to: ☒ Sender (Account no. in section 1 will be billed) ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check
☐ Obtain Recipient FedEx Account No.
(Enter FedEx account no. or Credit Card no. below)

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	8	$ .00	$

*When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY section for further information.

Credit Card Auth.

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Questions? Call 1-800-Go-FedEx (1-800-463-3339)

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2368686994

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1 of 2 Courier

FedEx USA Airbill

Tracking Number 236868723O

96L035 12-11-96 10:00AM

Recipient's Copy

From
Date 12-10-96
Sender's Name MIKE BAILEY Phone (209) 543-9796
Company N.C.I Dept/Floor/Suite/Room
Address 3233 LANCE DR UNIT-1
City STOCKTON State CA Zip 95205

2 Your Internal Billing Reference Information

3 To
Recipient's Name LAB MANAGER Phone (310) 618-8889
Company EMAX Dept/Floor/Suite/Room
Address 630 MAPLE AVE
(Do NOT use P.O. Box or FedEx location, print FedEx address here)
City TORRANCE State CA Zip 90503

For HOLD at FedEx Location check here
☐ Hold Weekday (Not available with FedEx First Overnight)
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☐ (Extra Charge. Not available to all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.
☒ FedEx Priority Overnight (Next business morning)
☐ FedEx Standard Overnight (Next business afternoon)
☐ FedEx 2Day* (Second business day)
☐ NEW FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)
*FedEx Letter Rate not available. Minimum charge. One pound FedEx 2Day rate.

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.
☐ FedEx Overnight Freight (Next business-day service for any distance)
☐ FedEx 2Day Freight (Second business-day service for any distance)
☐ FedEx Express Saver Freight (Up to 3 business-day service based upon distance)
(Call for delivery schedule. See back for detailed descriptions of freight products.)

5 Packaging
☐ FedEx Letter ☐ FedEx Pak (Declared value limit $500) ☐ FedEx Box ☐ FedEx Tube ☒ Other Pkg.

6 Special Handling
Does this shipment contain dangerous goods? ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)
☐ Dry Ice Dry Ice, 9, UN 1845 III ____ x ____ kg. 904 (Dangerous Goods Shipper's Declaration not required)
CA ☐ Cargo Aircraft Only

7 Payment
Bill to: ☒ Sender (Account no. in section 1 will be billed) ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check
☐ Obtain Recipient FedEx Account No.
(Enter FedEx account no. or Credit Card no. below)

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	13	$ .00	$

*When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY section for further information.

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2368687230

SAMPLE RECEIPT FORM

CONTROL NO.	96L035
CLIENT	R.C.I
PROJECT	FORT BAKER DACN-94-par DO #15

DATE	12-11-96
TIME	10:00 AM.
RECIPIENT	I. PATEL

SAMPLE TRANSPORTATION TO EMAX LABORATORY:		BY	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS
PICKED-UP BY EMAX COURIER						
DELIVERED BY CLIENT						
SHIPPED/AIRBILL NO:	FedEx 2368687230, 2368686994	See Airbills				

SAMPLE BATCH PACKAGING/SEALING UPON RECEIPT:			✓ INTACT	___DAMAGED	___SEALED	✓ NOT SEALED	___NO CONTAINE
CONTAINER:	INSIDE TEMPERATURE (4°C ± 2 °C)		4 °C	CUSTODY SEAL		LOCATION	NUMBER
2 COOLERS	PACKAGING	TYPE	SUFFICIENCY	✓ INTACT	___DAMAGED		
___BOX	INSULATION:		OK.	NAME:	See COC		
___OTHER:	ICE/COOLANT:	Regular		DATE:			
_____	PACKING MATERIAL:	None		TIME:			

SAMPLE DOCUMENTATION/CHAIN-OF-CUSTODY(COC)	___SEALED	✓ ENCLOSED	___HANDCARRIED	___FAXED	___MAILED

SAMPLE LOG-IN:	CRITERIA	COMMENTS	DISCREPANCY
SAMPLE CUSTODY SEAL	EVERY SAMPLE	None	
CONTAINER TYPE/MATERIAL	APPROPRIATE	OK	
SAMPLE AMOUNT	ENOUGH		
HOLDING TIME	SUFFICENT		
SAMPLE PRESERVATION (For appropriate preservative see GP-0001 Appendix I)	NaOH preserved samples pH ≥ 12 HNO_3 / H_2SO_4 preserved samples pH ≤ 2		
HEADSPACE/BUBBLES	ZERO/NONE		
SAMPLE LABEL INFORMATION	SUFFICIENT		
CHAIN-OF-CUSTODY INFORMATION	SUFFICIENT		

SAMPLE INFO.:	SAMPLE ID	DATE	TIME	SIGNATURE	ANALYSES	PRESERVATIVE	CONTAINER

INDIVIDUAL SAMPLE CONTAINER: ___NONE ✓ SEALED PLASTIC BAG ___CAN ___OTHER(SPECIFY):_____

SAMPLE NUMBER	CLIENT ID	DISCREPANCY	ACTION
ALL		NO. S. DATE ON THE LABELS	
-11		NO S. DATE & TIME ON THE LABEL	

CLIENT SERVICES COPY RECEIVED BY		DATE	12/11/96	TIME	

LABORATORY REPORT FOR

RCI

FORT BAKER / PROJECT 96-12

EPA 5030A/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

SDG#: 96L035

DECEMBER 19, 1996

CASE NARRATIVE

CLIENT: RCI

PROJECT: FORT BAKER / PROJECT 96-12

SDG: 96L035

EPA 5030A/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Eleven (11) soil samples were received on 12/11/96 to be analyzed for gasoline by 5030/M8015 accordance with SW846 (1986) and Leaking Underground Fuel Tank (LUFT) Field Manual, SWRCB, Dept. of Health Service, CA (1988).

1. Holding Time

   Analytical holding time was met.

2. Surrogate Recovery

   All surrogate recoveries were within QC limits.

3. Matrix Spike/Matrix Spike Duplicate

   All recoveries and RPD were within QC limits.

4. Lab Control Sample

   Recoveries were within QC limits.

5. Method Blank

   Method blank was free of contamination.

6. Calibration

   Initial calibration was at 5-point, continuing calibrations were carried out at 10-samples interval. All QC requirements were met.

7. Sample Analysis

   All sample analyses were done within QC limits.

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

LAB CHRONICLE
EPA 5030/M8015

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12

SDG/BATCH NO.: 96L035
MATRIX: Soil

SAMPLE ID	CONTROL NO	%H2O	PREPARATION BATCH/DATE/TIME	ANALYTICAL BATCH/DATE/TIME	CALIB REF	FILE ID
T2-N	L035-01	25.6	VAL0914	BL10 | 12-11-96 | @ 1324	BL10-2	BL10-1
T2-S	L035-02	17.8		1353		1
SP-8	L035-03	18.2		1422		1
SP-9	L035-04	11.5		1520	BL10-13	1
SP-10	L035-05	23.0		1549		1
SP-11	L035-06	18.4		1618		1
SP-12	L035-07	21.1		1647		1
PL-11	L035-08	7.3		1716		1
PL-12	L035-09	8.5		1745		1
PL-13	L035-10	20.3		1814		1
QC-3	L035-11	19.8		1843		1
BLK	VAL0914B			BL10 | 12-11-96 | @ 0932	BL10-2	3
LCS	L			1001		4
LCSD	C			1030		5
MS	L035-03M			1157		8
MSD	03S			1227		9

EPA 5030A/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
MATRIX:	SOIL	DATE ANALYZED:	12/11/96

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	% RECOVERY SURR	DL FACTOR	MOIST (%)	RL (mg/kg)
T2-N	L035-01	ND	90	1	25.6	.67
T2-S	L035-02	ND	94	1	17.8	.61
SP-8	L035-03	ND	92	1	18.2	.61
SP-9	L035-04	ND	87	1	11.5	.56
SP-10	L035-05	ND	86	1	23.0	.65
SP-11	L035-06	ND	84	1	18.4	.61
SP-12	L035-07	ND	86	1	21.1	.63
PL-11	L035-08	ND	88	1	7.3	.54
PL-12	L035-09	ND	81	1	8.5	.55
PL-13	L035-10	ND	75	1	20.3	.63
QC-3	L035-11	ND	85	1	19.8	.62
MBLK1S	VAL0914B	ND	82	1	NA	.5

QC LIMIT: 65-135
SURR : Bromofluorobenzene
RL : Report Limit

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/M8015
MATRIX: SOIL
% MOISTURE: 5.3

BATCH NO.: 96L035
SAMPLE ID: 18575-515
CONTROL NO.: L033-03

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/11/96

ACCESSION: 96L035 L033

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Gasoline	ND	5.28	4.87	92	5.28	5.06	96	4	65-135	40

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT %
Bromofluorobenzene	.264	.274	104	.264	.220	83	65-135

004

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
'OD: EPA 5030A/M8015
IX: SOIL
MOISTURE: NA

BATCH NO.: 96L035
SAMPLE ID: LCS1S/LCS1SD
CONTROL NO.: VAL0914L/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/11/96

ACCESSION: 96L035 L033

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Gasoline	ND	5.00	4.76	95	5.00	4.95	99	4	70-125	40

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT %
Bromofluorobenzene	.250	.227	91	.250	.225	90	65-135

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

EMAX LABORATORIES

INITIAL CALIBRATION						4-Dec-96
GC#14	GASOLINE			BROMOFLOUROBENZENE		
Data File	Conc. ppb	Area	Response Factor	Conc. ppb	Area	Response Factor
BL04-1	100	288128	3.471E-04	30	49570	6.052E-04
BL04-2	500	1453040	3.441E-04	40	69482	5.757E-04
BL04-3	1000	2721260	3.675E-04	50	83466	5.990E-04
BL04-4	3000	8985053	3.339E-04	80	155993	5.128E-04
BL04-5	5000	12809429	3.903E-04	100	200549	4.986E-04
	% Relative Std. Deviation		6%	% Relative Std. Deviation		8%
	Average Response Factor		3.566E-04	Average Response Factor		5.583E-04

DAILY CALIBRATION CHECK					11-Dec-96
DATA FILE	DCC#	RF	%DIFF	%SURR. REC.	COMMENTS
BL10-2	1	3.62E-04	2	90	DCC PASSED SURR. PASSED
BL10-13	2	3.43E-04	4	101	DCC PASSED SURR. PASSED
BL10-22	3	3.25E-04	9	96	DCC PASSED SURR. PASSED

STANDARDS			
ANALYTE	ICAL STD.	BFB	CHECK STD.
Int. Standard	S16A-01-04-02	S16C-01-69-02	S16B-01-01-01
Conc. (ppm)	2500	50	5000
SOURCE	RESTEK	RESTEK	MOBIL

Analyzed By: EAU

Checked By: WTN

INITIAL CALIBRATION						4-Dec-96
GC-#14	GASOLINE			BROMOFLOUROBENZENE		
Data File	Conc. ppb	Area	Response Factor	Conc. ppb	Area	Response Factor
BL04-1	100	288128	3.471E-04	30	49570	6.052E-04
BL04-2	500	1453040	3.441E-04	40	69482	5.757E-04
BL04-3	1000	2721260	3.675E-04	50	83466	5.990E-04
BL04-4	3000	8985053	3.339E-04	80	155993	5.128E-04
BL04-5	5000	12809429	3.903E-04	100	200549	4.986E-04
	% Relative Std. Deviation		6%	% Relative Std. Deviation		8%
	Average Response Factor		3.566E-04	Average Response Factor		5.583E-04

STANDARDS			
ANALYTE	ICAL STD.	BFB	CHECK STD.
Int. Standard	S16A-01-04-02	S16C-01-69-02	S16B-01-01-01
Conc. (ppm)	2500	50	5000
SOURCE	RESTEK	RESTEK	MOBIL

Analyzed By: EU 12/5/96

Checked By: WTN 12/5/96

SEQUENCE RECORDED IN F:\AL11.SEQ

SEQUENCE FILE: F:\AL11.SEQ

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	VAL0914IB	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
2	DCC1 GAS 1 PPM	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
3	VAL0914B	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
4	VAL0914L	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
5	VAL0914C	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
6	96L033-02 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
7	96L033-03 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
8	96L033-03M 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
9	96L033-03S 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
10	96L035-01 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
11	96L035-02 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
12	96L035-03 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
13	DCC2 GAS 1 PPM	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
14	96L035-04 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
15	96L035-05 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
16	96L035-06 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
17	96L035-07 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
18	96L035-08 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
19	96L035-09 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
20	96L035-10 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
21	96L035-11 1.0gm S	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000
22	DCC3 GAS 1 PPM	ADUALJ	AL10-	1.0000	1.0000	1.0000	1.0000

LABORATORY REPORT FOR

RCI

FORT BAKER / PROJECT 96-12

EPA M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 96L035

DECEMBER 24, 1996

CASE NARRATIVE

CLIENT: RCI

PROJECT: FORT BAKER / PROJECT 96-12

SDG: 96L035

EPA M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Eleven (11) soil samples were received on 12/11/96 for Total Petroleum Hydrocarbons by M8015 in accordance with SW846 and Leaking Underground Fuel Tank (LUFT) Field Manual, SWRCB, Dept. of Health Service, CA (1988).

1. Holding Time

   Analytical holding time was met.

2. Surrogate Recovery

   Bromobenzene and Hexacosane were used as surrogates in method blank, samples, LCS, MS and MSD. The recoveries were all within QC limits.

3. Matrix Spike/Matrix Spike Duplicate

   All recoveries and RPD were within QC limits.

4. Lab Control Sample/Lab Control Samples Duplicate

   All recoveries and RPD were within QC limits.

5. Method Blank

   Method blank was free of contamination.

6. Calibration

   Initial calibration was at five-point and continuing calibration were carried out at 10-samples interval. All QC requirements were met.

7. Sample Analysis

   Sample analyses met QC requirements.

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

EPA METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	12/13/96
MATRIX:	SOIL	DATE ANALYZED:	12/13/96

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	H-C RANGE	% RECOVERY SURR1	% RECOVERY SURR2	DL FACTOR	MOIST (%)	RL (mg/kg)
T2-N	L035-01	ND	N.A.	98	104	1	25.6	2.69
T2-S	L035-02	24+	C19-C23	97	104	1	17.8	2.43
SP-8	L035-03	ND	N.A.	98	103	1	18.2	2.44
SP-9	L035-04	ND	N.A.	98	103	1	11.5	2.26
SP-10	L035-05	ND	N.A.	98	103	1	23.0	2.6
SP-11	L035-06	ND	N.A.	97	102	1	18.4	2.45
SP-12	L035-07	ND	N.A.	99	103	1	21.1	2.53
PL-11	L035-08	ND	N.A.	97	100	1	7.3	2.16
PL-12	L035-09	170*	C18-C32	95	102	2	8.5	4.37
PL-13	L035-10	99*	C18-C32	96	100	1	20.3	2.51
QC-3	L035-11	ND	N.A.	100	103	1	19.8	2.49
MBLK1S	DSL011SB	ND	N.A.	99	101	1	NA	2
QC LIMIT:				65-135	65-135			

SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Report Limit
* : Motor-oil like pattern, quantitated as diesel.
+ : Non-typical fuel pattern, quantitated as diesel.
DATE ANALYZED: 12/14/96, for L035-05 to 11

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA M8015
MATRIX: SOIL
MOISTURE: NA

BATCH NO.: 96L035
SAMPLE ID: LCS1S/LCS1SD
CONTROL NO.: DSL011SL/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/13/96
DATE ANALYZED: 12/13/96

ACCESSION: 96L035 96L047

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Diesel	ND	500.00	513.00	103	500.00	574.00	115	11	70-130	35

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT %
Bromobenzene	100.00	89.00	89	100.00	89.00	89	65-135
Hexacosane	100.00	93.00	93	100.00	91.00	91	65-135

003

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA M8015
MATRIX: SOIL
% MOISTURE: 19.8

BATCH NO.: 96L035
SAMPLE ID: QC-3
CONTROL NO.: L035-11

DATE RECEIVED: 12/11/96
DATE EXTRACTED: 12/13/96
DATE ANALYZED: 12/14/96

ACCESSION: 96L035 96L047

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Diesel	ND	623.00	675.00	108	623.00	691.00	111	2	65-135	35

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT %
Bromobenzene	125.00	111.00	89	125.00	110.00	88	65-135
Hexacosane	125.00	118.00	95	125.00	115.00	92	65-135

004

INITIAL CALIBRATION DATA
METHOD M8015 (Diesel)

Lab Name: EMAX **SDG:** 96L035

Instrument ID: GC-4 **GC Column:** DB-1

Date Analyzed: 10/08/96 Date Analyzed: 10/08/96

DATA FILE	DIESEL CONC. ppm	DIESEL AREA x 10^3	DIESEL CALIBRATION FACTOR x10^3	DATA FILE	BROMOBENZENE CONC. ppm	BROMOBENZENE CALIBRATION FACTOR x10^3	HEXACOSANE CALIBRATION FACTOR x10^3
JN07-18	10	101	10.10	JN07-13	70	7.74	13.04
JN07-19	100	1012	10.12	JN07-14	80	7.99	13.42
JN07-20	500	5546	11.09	JN07-15	100	7.76	13.95
JN07-21	1000	11615	11.62	JN07-16	120	7.91	14.95
JN07-22	2000	23906	11.95	JN07-17	130	8.64	9.84
	MEAN		10.98	MEAN		8.01	13.04
	Relative Std. Dev.		8%	Relative Std. Dev.		4%	15%

DAILY CALIBRATION CHECK				
DATE	DATA FILE	ACF x 10^3	CF x 10^3	% DIFF.
12/13/96	LN13-2	10.98	11.24	2
12/14/96	LN13-16	10.98	11.51	5
12/14/96	LN13-27	10.98	11.67	6

SEQUENCE RECORDED IN J:\LN13.SEQ

SEQUENCE FILE: J:\LN13.SEQ

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	MECL	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
2	DCC1 D500	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
3	DCC1 JP5 500	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
4	DCC1 MO 500	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
5	DSL011SB	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
6	DSL011SL	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
7	DSL011SC	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
8	96L035-01	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
9	96L035-02	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
10	96L035-03	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
11	96L035-04	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
12	96L035-05	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
13	96L035-06	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
14	96L047-02	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
15	MECL	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
16	DCC2 D500	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
17	96L035-07	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
18	96L035-11	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
19	96L035-11M	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
20	96L035-11S	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
21	96L035-08	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
22	96L035-10	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
23	MECL	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
24	96L035-09T 2X	M8015	LN13-	1.0000	1.0000	2.0000	1.0000
25	MECL	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
26	96L014-01T 5X	M8015	LN13-	1.0000	1.0000	5.0000	1.0000
27	DCC3 D500	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
28	DCC3 JP5 500	M8015	LN13-	1.0000	1.0000	1.0000	1.0000
29	DCC3 MO 500	M8015	LN13-	1.0000	1.0000	1.0000	1.0000

EXTRACTION LOG FOR TPH

Prep. Batch DSL011S Method 3550 ☐ 3520 ☐ 3580 ☐ 3540 ☐ CLP ☐ ☐ Book # CKYT-E06-003 Page # 123

Matrix Soil Starting Date 12/10/96 Time 16:00 Ending Date 12/13/96 Time 17:30

Lab Sample ID	Sample Amount (g/ml)	Extract Volume (ml)	Notes
DSL011 - SB	—	10.0	
- SL	—		
- SC	—		
96L047 - 02	10.0		
96L035 - 01			
- 02			
- 03			
- 04			
- 05			
- 06			
- 07			
- 08			
- 09			
- 10			
- 11			
- 11M			
- 11S			

Standards	ID	Amount Added (ml)
Surrogate	S04c101193	10.0
LCS/MS	S09B01-07-96	1.0

Reagent	Lot# / ID
CH_2Cl_2	962656
Na_2SO_4	352406 35

SDG #	Extract Location

Comments:

Prepared By: OS

Standard Added By: OS/FY

Checked By: FY

Extracts Received By: 007

LABORATORY REPORT FOR

RCI

FORT BAKER / PROJECT 96-12

EPA 5030A/8020A
BTEX

SDG#: 96L035

DECEMBER 19, 1996

CASE NARRATIVE

CLIENT: RCI

PROJECT: FORT BAKER / PROJECT 96-12

SDG: 96L035

EPA 5030A/8020A
BTEX

Eleven (11) soil samples were received on 12/11/96 to be analyzed for aromatic volatile organics (BTEX) EPA Method 8020 analysis in accordance with USEPA SW846.

1. Holding Time

   Analytical holding time was met.

2. Surrogate Recovery

   All surrogate recoveries were within QC limits.

3. Matrix Spike/Matrix Spike Duplicate

   All recoveries and RPD were within QC limits.

4. Lab Control Sample

   All recoveries were within QC limits.

5. Method Blanks

   Method blanks were free of contamination.

6. Calibration

   Initial was at 5-point and continuing calibrations were carried out at 10-samples interval. All QC requirements were met.

7. Sample Analysis

   All sample analyses were done within QC requirements.

001

LAB CHRONICLE
EPA 8020

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12

SDG/BATCH NO.: 96L035
MATRIX: Soil

SAMPLE ID	CONTROL NO	%H2O	PREPARATION BATCH/DATE/TIME	ANALYTICAL BATCH/DATE/TIME	CALIB REF	FILE ID
T2-N	L035-01	25.6	VAL107	L11-~~024~~R / 12-12-96 @ 0052	L11-028R	L11-03
T2-S	L035-02	17.8	VAL097	/ 12-11-96 @ 1752	L11-013R	L11-02
SP-8	L035-03	18.2		1818	↓	2
SP-9	L035-04	11.5		1907	L11-024R	2
SP-10	L035-05	23.0		1932		2
SP-11	L035-06	18.4		1952		2
SP-12	L035-07	21.1	VAL107	2226	L11-028R	33
PL-11	L035-08	7.3		2251		34
PL-12	L035-09	8.5		2340		36
PL-13	L035-10	20.3		/ 12-12-96 / @ 00:05		37
QC-3	L035-11	19.8		0030		38
BLK1	VAL097B		VAL097	12-11-96 @ 0916	L11-002R	3
LCS1	C					4
LCSD1	C					5
MS	L035-01M		VAL107	12-12-96 @ 0142	L11-040R	41
MSD	01S			0207		42
BLK2	VAL107B		VAL107	12-11-96 @ 2112	L11-028R	03
LCS2	C			2136		3
LCSD2	C			2201		3

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	T2-N	DATE ANALYZED:	12/11/96
CONTROL NO.:	L035-01	MATRIX:	SOIL
% MOISTURE:	25.6	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.72
Toluene	ND	6.72
Ethylbenzene	ND	6.72
Total Xylenes	ND	20.2

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	100	65-135

RL: Report Limit

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EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	T2-S	DATE ANALYZED:	12/11/96
CONTROL NO.:	L035-02	MATRIX:	SOIL
% MOISTURE:	17.8	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.08
Toluene	ND	6.08
Ethylbenzene	ND	6.08
Total Xylenes	ND	18.2
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	102	65-135

RL: Report Limit

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	SP-8	DATE ANALYZED:	12/11/96
CONTROL NO.:	L035-03	MATRIX:	SOIL
% MOISTURE:	18.2	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.11
Toluene	ND	6.11
Ethylbenzene	ND	6.11
Total Xylenes	ND	18.3
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	101	65-135

RL: Report Limit

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EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	SP-9	DATE ANALYZED:	12/11/96
CONTROL NO.:	L035-04	MATRIX:	SOIL
% MOISTURE:	11.5	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.65
Toluene	ND	5.65
Ethylbenzene	ND	5.65
Total Xylenes	ND	16.9

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	93	65-135

RL: Report Limit

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EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	SP-10	DATE ANALYZED:	12/11/96
CONTROL NO.:	L035-05	MATRIX:	SOIL
% MOISTURE:	23.0	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.49
Toluene	ND	6.49
Ethylbenzene	ND	6.49
Total Xylenes	ND	19.5
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	99	65-135

RL: Report Limit

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EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	SP-11	DATE ANALYZED:	12/11/96
CONTROL NO.:	L035-06	MATRIX:	SOIL
% MOISTURE:	18.4	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.13
Toluene	ND	6.13
Ethylbenzene	ND	6.13
Total Xylenes	ND	18.4
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	88	65-135

RL: Report Limit

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EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	SP-12	DATE ANALYZED:	12/11/96
CONTROL NO.:	L035-07	MATRIX:	SOIL
% MOISTURE:	21.1	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.34
Toluene	ND	6.34
Ethylbenzene	ND	6.34
Total Xylenes	ND	19
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	87	65-135

RL: Report Limit

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EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	PL-11	DATE ANALYZED:	12/11/96
CONTROL NO.:	L035-08	MATRIX:	SOIL
% MOISTURE:	7.3	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.39
Toluene	ND	5.39
Ethylbenzene	ND	5.39
Total Xylenes	ND	16.2
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	90	65-135

RL: Report Limit

010

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	PL-12	DATE ANALYZED:	12/11/96
CONTROL NO.:	L035-09	MATRIX:	SOIL
% MOISTURE:	8.5	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5.46
Toluene	ND	5.46
Ethylbenzene	ND	5.46
Total Xylenes	ND	16.4
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	81	65-135

RL: Report Limit

011

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	PL-13	DATE ANALYZED:	12/12/96
CONTROL NO.:	L035-10	MATRIX:	SOIL
% MOISTURE:	20.3	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.27
Toluene	ND	6.27
Ethylbenzene	ND	6.27
Total Xylenes	ND	18.8
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	89	65-135

RL: Report Limit

012

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	QC-3	DATE ANALYZED:	12/12/96
CONTROL NO.:	L035-11	MATRIX:	SOIL
% MOISTURE:	19.8	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	6.23
Toluene	ND	6.23
Ethylbenzene	ND	6.23
Total Xylenes	ND	18.7
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	92	65-135

RL: Report Limit

013

EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	NA
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	NA
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	MBLK1S	DATE ANALYZED:	12/11/96
CONTROL NO.:	VAL097B	MATRIX:	SOIL
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	15
SURROGATE PARAMETER	**% RECOVERY**	**QC LIMIT**
Bromofluorobenzene	93	65-135

RL: Report Limit

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EPA METHOD 5030A/8020A
BTEX

CLIENT:	RCI	DATE COLLECTED:	NA
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	NA
BATCH NO.:	96L035	DATE EXTRACTED:	NA
SAMPLE ID:	MBLK2S	DATE ANALYZED:	12/11/96
CONTROL NO.:	VAL107B	MATRIX:	SOIL
% MOISTURE:	NA	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	15

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Bromofluorobenzene	108	65-135

RL: Report Limit

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EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/8020A
MATRIX: SOIL
MOISTURE: 25.6

BATCH NO.: 96L035
SAMPLE ID: T2-N
CONTROL NO.: L035-01

DATE RECEIVED: 12/11/96
DATE EXTRACTED: NA
DATE ANALYZED: 12/11/96

ACCESSION: 96L035

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Benzene	ND	336.02	317.84	95	336.02	310.38	92	2	65-135	40
Toluene	ND	336.02	319.13	95	336.02	311.63	93	2	65-135	40
Ethylbenzene	ND	336.02	317.30	94	336.02	309.09	92	3	65-135	40
Total Xylenes	ND	1008.06	815.90	81	1008.06	790.62	78	3	65-135	40

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Bromofluorobenzene	336.02	341.33	102	336.02	316.63	94	65-135

C16

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 5030A/8020A
MATRIX: SOIL
MOISTURE: NA

BATCH NO.: 96L035
SAMPLE ID: LCS1S/LCS1SD
CONTROL NO.: VAL097L/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/11/96

ACCESSION: 96L035 L033 L036

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Benzene	ND	250.00	267.61	107	250.00	273.13	109	2	70-125	40
Toluene	ND	250.00	271.07	108	250.00	275.96	110	2	70-125	40
Ethylbenzene	ND	250.00	264.45	106	250.00	269.97	108	2	70-125	40
Total Xylenes	ND	750.00	694.36	93	750.00	709.34	95	2	70-125	40

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT %
Bromofluorobenzene	250.00	267.42	107	250.00	260.09	104	65-135

C17

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
MOD: EPA 5030A/8020A
MX: SOIL
MOISTURE: NA

BATCH NO.: 96L035
SAMPLE ID: LCS2S/LCS2SD
CONTROL NO.: VAL107L/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/11/96

ACCESSION: 96L035 L036

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Benzene	ND	250.00	264.10	106	250.00	245.26	98	7	70-125	40
Toluene	ND	250.00	267.32	107	250.00	249.27	100	7	70-125	40
Ethylbenzene	ND	250.00	262.41	105	250.00	245.10	98	7	70-125	40
Total Xylenes	ND	750.00	686.57	92	750.00	643.61	86	6	70-125	40

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT %
Bromofluorobenzene	250.00	264.99	106	250.00	260.29	104	65-135

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

VOLATILE ORGANIC ANALYSIS

INITIAL CALIBRATION

METHOD: BL06.MTH (8020A) Initial Calibration Date: 6-Dec-96

CONCENTRATION, ug/L	2	10	50	100	200	Relative Standard Deviation (%)	Calibration Factor (1/AVE. RF)
Data Filename (L06-)	019R0101	021R0101	022R0101	023R0101	024R0101		
Analysis Time	18:51	19:40	20:05	20:30	16:05		
	RF	RF	RF	RF	RF		
Methyl Tert-Butyl Ether	30069.00	34510.30	30828.96	30616.43	28231.86	7%	3.2414E-05
Benzene	82881.50	95538.60	85182.04	85655.99	81000.00	6%	1.1621E-05
Toluene	75435.50	86883.40	77549.90	77800.85	73500.00	6%	1.2782E-05
Chlorobenzene	73496.00	83392.20	74714.42	75916.92	71000.00	6%	1.3209E-05
Ethylbenzene	70350.00	78267.80	68922.52	68970.24	64500.00	6%	1.4245E-05
m,p-Xylene	85723.00	96511.45	83907.65	104004.38	139473.50	20%	9.8112E-06
o-Xylene	64395.50	75094.20	66439.30	67453.06	63500.00	6%	1.4842E-05
1,3-Dichlorobenzene	58899.50	59566.10	57992.30	61281.79	58500.00	2%	1.6878E-05
1,4-Dichlorobenzene	85218.00	85791.20	74463.68	73728.10	68500.00	9%	1.2897E-05
1,2-Dichlorobenzene	55356.50	56565.30	51925.94	51280.45	48546.79	5%	1.8963E-05
Surrogate Parameter Bromoflurobenzene	55088.40	58937.13	62486.28	62600.50	60523.92	5%	1.6687E-05
CONCENTRATION(BFB), ug/L	30	40	50	80	100		

ANALYTE	BFB	ICAL	CHK.STD.
Intermediate Standar	S16C-01-69-02	S16C-01-70-01	S16C-01-70-02
Concentration (ppm)	50	50	50
Source	RESTEK	RESTEK	ULTRA

Analyzed By: EAU 12/8/96

Checked By: WTN 12/9/96

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EMAX Laboratories, Inc.

8020A QC RESULT

QC SAMPLE	DCC1	DCC2	DCC3	DCC4	DCC5	DCC6
Filename(L11-)	002R0101	013R0101	024R0101	028R0101	040R0101	046R0101
Analytical Batch	VAL097	VAL097	VAL097	VAL097	VAL107	VAL107
Analysis Date	11-Dec-96	11-Dec-96	11-Dec-96	11-Dec-96	12-Dec-96	12-Dec-96
Analysis Time	8:51	14:05	18:42	20:22	1:17	3:46

Accession: 96L036, 96L035, 96L033

Calibration Ref. BL06

Standard ID S16C-01-70-01

Analyzed By

ANALYTE	True Value (ug/L)	DCC1 8020A		DCC2 8020A		DCC3 8020A		DCC4 8020A		DCC5 8020A		DCC6 8020A	
		Found Value (ug/L)	Recovery (%)	Found Value (ug/L)	Recovery (%)	Found Value (ug/L)	Recovery (%)	Found Value (ug/L)	Recovery (%)	Found Value (ug/L)	Recovery (%)	Found Value (ug/L)	Recovery (%)
Benzene	50	53.34	107%	50.41	101%	51.35	103%	51.02	102%	49.27	99%	51.10	102%
Toluene	50	53.53	107%	50.53	101%	51.55	103%	51.22	102%	49.38	99%	51.26	103%
Ethylbenzene	50	53.26	107%	50.37	101%	51.16	102%	50.85	102%	49.31	99%	51.05	102%
m,p,o-Xylene	150	143.05	95%	135.93	91%	137.37	92%	136.64	91%	131.89	88%	136.99	91%
BFB	50	51.46	103%	51.14	102%	54.06	108%	52.90	106%	55.17	110%	51.60	103%

Comments:

uence: C:\HPCHEM\1\SEQUENCE\L11.SEQ

Sample Table

Vial Num.	Sample Name	Sample Amount	Multiplier	ISTD Amount
1	INST. BLK.			
2	DCC1 8020A			
3	VAL097B			
4	VAL097L			
5	VAL097C			
6	L033-02	1.0gm	S	
7	L033-03	1.0gm	S	
8	L033-01	5 mL	W	
9	L033-03M	1.0gm	S	
10	L033-03S	1.0gm	S	
11	L036-01	5 mL	W	
12	L036-02	5 mL	W	
13	DCC2 8020A			
14	L036-03	5 mL	W	
15	L036-04	5 mL	W	
16	L036-05	5 mL	W	
17	L036-06	5 mL	W	
18	L036-07	5 mL	W	
	L036-08	5 mL	W	
	L036-09	5 mL	W	
21	L035-01	1.0gm	S	
22	L035-02	1.0gm	S	
23	L035-03	1.0gm	S	
24	DCC3 8020A			
25	L035-04	1.0gm	S	
26	L035-05	1.0gm	S	
27	L035-06	1.0gm	S	
28	DCC4 8020A			
29	VAL107IB			
30	VAL107B			
31	VAL107L			
32	VAL107C			
33	L035-07	1.0gm	S	
34	L035-08	1.0gm	S	
35	BLK			
36	L035-09	1.0gm	S	
37	L035-10	1.0gm	S	
38	L035-11	1.0gm	S	
39	L035-01R	1.0gm	S	
40	DCC5 8020A			
41	L035-01M	1.0gm	S	
42	L035-01S	1.0gm	S	
43	L036-07	5 mL	W	
44	L036-07M	5 mL	W	
	L036-07S	5 mL	W	
	DCC6 8020A			

Run started on Dec 11/96 @ 0820 AM

12/18/96

LABORATORY REPORT FOR

RCI

FORT BAKER / PROJECT 96-12

LEAD

SDG#: 96L035

DECEMBER 24, 1996

CASE NARRATIVE

CLIENT: RCI

PROJECT: FORT BAKER / PROJECT 96-12

SDG: 96L035

LEAD

Eleven (11) soil samples were received on 12/11/96 to be analyzed for Lead by ICP in accordance with USEPA SW846 (1994).

1. **Holding Time**

   Digestion and analysis met holding time criteria.

2. **Blank**

   A preparation blank was free of contamination.

3. **Matrix Spike**

   Recovery was within QC limit.

4. **Duplicate**

   Duplicate result was out of QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control sample results and RPD were within the control limits.

6. **Sample Analyses**

   Sample analyses met QC requirements.

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

EPA METHOD 3050A/6010A
TOTAL LEAD BY ICP

CLIENT:	RCI	DATE COLLECTED:	12/10/96
PROJECT:	Fort Baker / Project 96-12	DATE RECEIVED:	12/11/96
BATCH NO.:	96L035	DATE EXTRACTED:	12/14/96
MATRIX:	SOIL	DATE ANALYZED:	12/19/96

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	DL FACTOR	MOIST (%)	RL (mg/kg)
T2-N	L035-01	14.7	1	25.6	13.4
T2-S	L035-02	67.2	1	17.8	12.2
SP-8	L035-03	19.2	1	18.2	12.2
SP-9	L035-04	16.5	1	11.5	11.3
SP-10	L035-05	20.6	1	23.0	13
SP-11	L035-06	36.7	1	18.4	12.3
SP-12	L035-07	21.4	1	21.1	12.7
PL-11	L035-08	19.6	1	7.3	10.8
PL-12	L035-09	18.1	1	8.5	10.9
PL-13	L035-10	23.7	1	20.3	12.5
QC-3	L035-11	31.5	1	19.8	12.5
MBLK1S	IPL017SB	ND	1	NA	10

RL: Reporting Limit

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 3050A/6010A
MATRIX: SOIL
° MOISTURE: 25.6

BATCH NO.: 96L035
SAMPLE ID: T2-N
CONTROL NO.: L035-01

DATE RECEIVED: 12/11/96
DATE EXTRACTED: 12/14/96
DATE ANALYZED: 12/19/96

ACCESSION: 96L035

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	QC LIMIT (%)
Lead	14.70	134.00	123.00	80	75-125

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 3050A/6010A
MATRIX: SOIL
% MOISTURE: 25.6

BATCH NO.: 96L035
SAMPLE ID: T2-N
CONTROL NO.: L035-01

DATE RECEIVED: 12/11/96
DATE EXTRACTED: 12/14/96
DATE ANALYZED: 12/19/96

ACCESSION: 96L035

PARAMETER	SAMPLE (mg/kg)	DUP. SAMPLE (mg/kg)	RPD (%)	RPD LIMIT (%)
Lead	14.70	22.00	40L	20

L : Out of control limit probably due to sample inhomogeneity.

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: RCI
PROJECT: Fort Baker / Project 96-12
METHOD: EPA 3050A/6010A
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96L035
SAMPLE ID: LCS1S/LCS1SD
CONTROL NO.: IPL017SL/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/14/96
DATE ANALYZED: 12/19/96

ACCESSION: 96L035

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Lead	ND	100.00	85.80	86	100.00	84.30	84	2	75-125	20

005

ANALYSIS RUN LOG FOR ICP

Analytical Batch 1on W1C Method CLP ☐ 6010 ☒ 200.7 ☐ Book # T-A08-002 Page # 138

Mthod Fiie MISU41 Autosampler Table MOM Starting Date 12.19.96 Time Ending Date 12.19.96 Time

Seq.	Lab Sample ID	DF	Analysis	Matrix
1	ICV HIGH			
2	ICV			
3	ICB			
4	ICSAB1			
5	CCV1			
6	CCB1			
7	IPL017 SB			
8	SL			
9	SL			
10	W45 - 05			
11	05D			
12	05M			
13	05T	5X		
14	06			
15	07			
16	08			
17	CCV2			
18	CCB2			
19	IPL020 WB			
20	WL			
21	WL			
22	W42 - 01			
23	02			
24	03			
25	ICSABF			
26	CCV3			
27	CCB3			
28	W35 - 01			
29	01D			
30	01M			
31	01T	5X		
32	02			
33	03			
34	04			
35	05			
36	06			
37	07			
38	CCV4			
39	CCB4			
40	W35 - 08			

Seq.	Lab Sample ID	DF	Analysis	Matrix
41	W35 - 09			
42	10			
43	11			
44	W11 - 01			
45	02			
46	CCV5			
47	CCBT			
48	W11 - 03			
49	03D			
50	03M			
51	03S			
52	03T	5X		
53	CCV6 ICSABF			
54	CCB6 CCV6			
55	CCB6			
56				
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80				

Std.	ID
S1	S01B-06.07.06
S2	.07
S3	10.01
S4	NA
S5	1
S6	↓
ICV High 1	S01B-06.10.01
ICV High 2	NA
ICV	S01C-06.19.04
CCV	S01B-06.07.07
ICSA	S01C-06.35.01
ICSAB	34.4
CRI	NA

Comments:

EMETI 07

Analyzed By: ABC

Checked By: _____

Date: 12/19

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	S0	I07L014	MULTI1	12/19/96	21:26		X	IR
2	S1	I07L014	MULTI1	12/19/96	21:30		X	IR
3	S2	I07L014	MULTI1	12/19/96	21:33		X	IR
4	S3	I07L014	MULTI1	12/19/96	21:37		X	IR
5	ICV HIGH1	I07L014	MULTI1	12/19/96	21:42	ABC	S	CONC
6	ICV	I07L014	MULTI1	12/19/96	21:47	ABC	S	CONC
7	ICB	I07L014	MULTI1	12/19/96	21:53	ABC	S	CONC
8	ICSABI	I07L014	MULTI1	12/19/96	21:56	ABC	S	CONC
9	CCV1	I07L014	MULTI1	12/19/96	22:02	ABC	S	CONC
10	CCB1	I07L014	MULTI1	12/19/96	22:07	ABC	S	CONC
11	IPL017SB	I07L014	MULTI1	12/19/96	22:11	ABC	S	CONC
12	IPL017SL	I07L014	MULTI1	12/19/96	22:15	ABC	S	CONC
13	IPL017SC	I07L014	MULTI1	12/19/96	22:18	ABC	S	CONC
14	L045-05	I07L014	MULTI1	12/19/96	22:24	ABC	S	CONC
15	L045-05D	I07L014	MULTI1	12/19/96	22:27	ABC	S	CONC
16	L045-05M	I07L014	MULTI1	12/19/96	22:31	ABC	S	CONC
17	L045-05T	I07L014	MULTI1	12/19/96	22:36	ABC	S	CONC
18	L045-06	I07L014	MULTI1	12/19/96	22:40	ABC	S	CONC
19	L045-07	I07L014	MULTI1	12/19/96	22:44	ABC	S	CONC
20	L045-08	I07L014	MULTI1	12/19/96	22:47	ABC	S	CONC
21	CCV2	I07L014	MULTI1	12/19/96	22:53	ABC	S	CONC
22	CCB2	I07L014	MULTI1	12/19/96	22:58	ABC	S	CONC
23	IPL020WB	I07L014	MULTI1	12/19/96	23:02	ABC	S	CONC
24	IPL020WL	I07L014	MULTI1	12/19/96	23:06	ABC	S	CONC
25	IPL020WC	I07L014	MULTI1	12/19/96	23:09	ABC	S	CONC
26	L042-01	I07L014	MULTI1	12/19/96	23:15	ABC	S	CONC
27	L042-02	I07L014	MULTI1	12/19/96	23:18	ABC	S	CONC
28	L042-03	I07L014	MULTI1	12/19/96	23:22	ABC	S	CONC
29	ICSABF	I07L014	MULTI1	12/19/96	23:27	ABC	S	CONC
30	CCV3	I07L014	MULTI1	12/19/96	23:32	ABC	S	CONC
31	CCB3	I07L014	MULTI1	12/19/96	23:37	ABC	S	CONC
32	L035-01	I07L014	MULTI1	12/19/96	23:41	ABC	S	CONC
33	L035-01D	I07L014	MULTI1	12/19/96	23:45	ABC	S	CONC
34	L035-01M	I07L014	MULTI1	12/19/96	23:48	ABC	S	CONC
35	L035-01T	I07L014	MULTI1	12/19/96	23:54	ABC	S	CONC
36	L035-02	I07L014	MULTI1	12/19/96	23:58	ABC	S	CONC
37	L035-03	I07L014	MULTI1	12/20/96	00:01	ABC	S	CONC
38	L035-04	I07L014	MULTI1	12/20/96	00:05	ABC	S	CONC
39	L035-05	I07L014	MULTI1	12/20/96	00:09	ABC	S	CONC
40	L035-06	I07L014	MULTI1	12/20/96	00:12	ABC	S	CONC
41	L035-07	I07L014	MULTI1	12/20/96	00:16	ABC	S	CONC
42	CCV4	I07L014	MULTI1	12/20/96	00:21	ABC	S	CONC
43	CCB4	I07L014	MULTI1	12/20/96	00:27	ABC	S	CONC
44	L035-08	I07L014	MULTI1	12/20/96	00:31	ABC	S	CONC
45	L035-09	I07L014	MULTI1	12/20/96	00:34	ABC	S	CONC
46	L035-10	I07L014	MULTI1	12/20/96	00:38	ABC	S	CONC
47	L035-11	I07L014	MULTI1	12/20/96	00:42	ABC	S	CONC
48	L011-01	I07L014	MULTI1	12/20/96	00:45	ABC	S	CONC
49	L011-02	I07L014	MULTI1	12/20/96	00:49	ABC	S	CONC
50	CCV5	I07L014	MULTI1	12/20/96	00:54	ABC	S	CONC
51	CCB5	I07L014	MULTI1	12/20/96	01:00	ABC	S	CONC
52	L011-03	I07L014	MULTI1	12/20/96	01:03	ABC	S	CONC
53	L011-03D	I07L014	MULTI1	12/20/96	01:07	ABC	S	CONC

Analysis Report Summary Fri 12-20-96 11:11:48 AM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	L011-03M	I07L014	MULTI1	12/20/96	01:11	ABC	S	CONC
55	L011-03S	I07L014	MULTI1	12/20/96	01:15	ABC	S	CONC
56	L011-03T	I07L014	MULTI1	12/20/96	01:20	ABC	S	CONC
57	ICSABF	I07L014	MULTI1	12/20/96	01:25	ABC	S	CONC
58	CCV5	I07L014	MULTI1	12/20/96	01:31	ABC	S	CONC
59	CCB5	I07L014	MULTI1	12/20/96	01:36	ABC	S	CONC
60	Blank	I07L014	MULTI1	12/20/96	01:40	ABC	B	CONC

#	Sample Name	Al	Sb	As	Ba	Be	B
1	S0	.141	.00499	.003	-.0005	.0265	.004
2	S1	5.0325	.8255	.53399	7.25749	11.5115	1.467
3	S2	7.67249	1.2265	.82299	11.006	16.854	2.205
4	S3	10.186	1.6675	1.069	14.3375	22.079	2.907
5	ICV HIGH1	10.05	1.947	2.031	1.956	1.941	1.968
6	ICV	4.930	1.040	1.027	.9878	.9878	1.015
7	ICB	-.0061	-.0234	-.0545	-.0001	.0001	.0034
8	ICSABI	505.2	.9771	2.079	.4609	.4566	.5070
9	CCV1	7.335	1.460	1.484	1.475	1.458	1.478
10	CCB1	-.0005	.0126	-.0066	.0002	.0000	.0027
11	IPL017SB	.3498	-.8995	-5.544	.0186	.0068	2.220
12	IPL017SL	917.8	454.3	91.00	97.65	91.42	109.5
13	IPL017SC	903.4	452.2	84.07	96.12	90.01	110.2
14	L045-05	1700.	.9498	1.393	57.58	.1297	2.853
15	L045-05D	1701.	-.7816	1.206	53.38	.1232	2.862
16	L045-05M	2641.	368.0	84.74	130.8	81.06	89.76
17	L045-05T	391.9	-2.147	-2.328	12.95	.0251	.8019
18	L045-06	1006.	-.4391	-2.809	43.45	.0637	2.076
19	L045-07	885.9	-1.626	-1.325	24.42	.0637	3.003
20	L045-08	937.2	.2911	-2.996	34.32	.0642	1.758
21	CCV2	7.189	1.432	1.414	1.458	1.422	1.453
22	CCB2	-.0037	.0023	-.0197	.0000	.0000	.0010
23	IPL020WB	-.0126	-.0011	-.0206	.0002	-.0001	.0017
24	IPL020WL	H17.81	H8.937	H1.708	H1.748	H1.765	H1.795
25	IPL020WC	H17.65	H8.885	H1.703	H1.735	H1.733	H1.809
26	L042-01	.1338	.0062	.0243	.0447	.0002	.2210
27	L042-02	.3886	-.0071	-.0033	.0450	.0010	.2235
28	L042-03	.1321	.0210	-.0133	.0000	-.0001	.0051
29	ICSABF	488.2	.9153	1.808	.4480	.4236	.4842
30	CCV3	7.233	1.417	L1.334	1.438	1.363	1.417
31	CCB3	.0055	.0156	-.0536	.0006	.0004	.0003
32	L035-01	18790.	.5914	-4.875	62.78	.1952	1.642
33	L035-01D	14110.	.1707	3.202	65.78	.1466	1.184
34	L035-01M	18630.	227.5	68.70	158.5	78.51	80.24
35	L035-01T	20930.	-.4424	8.870	71.32	.1760	1.715
36	L035-02	14210.	4.426	-.2757	50.87	.1303	2.778
37	L035-03	12030.	2.828	3.987	37.54	.1154	3.072
38	L035-04	13820.	-4.034	1.023	42.91	.1085	4.333
39	L035-05	14390.	2.715	2.192	45.57	.1363	4.176
40	L035-06	14890.	-3.118	3.275	58.46	.1341	3.277
41	L035-07	12020.	.5471	5.137	41.12	.1050	2.275
42	CCV4	7.181	1.390	1.447	1.468	1.374	1.433
43	CCB4	.0040	-.0076	.0047	.0009	.0001	.0024
44	L035-08	3676.	.4861	2.581	147.7	.0816	3.746
45	L035-09	8127.	.2134	2.296	200.9	.1393	4.282
46	L035-10	8854.	-2.447	-2.757	204.7	.1272	4.674
47	L035-11	16020.	-2.530	1.895	56.40	.1460	3.194
48	L011-01	.0999	.0083	-.0274	.1094	-.0002	.9411
49	L011-02	.0146	.0162	.0084	.0848	-.0002	.0974
50	CCV5	7.058	1.369	1.358	1.451	L1.336	1.413
51	CCB5	-.0217	-.0166	.0292	.0004	-.0001	.0003
52	L011-03	-.0123	.0009	-.0159	.6114	-.0001	1.241
53	L011-03D	-.0438	-.0165	-.0206	.6059	-.0002	1.344

#	Sample Name	Al	Sb	As	Ba	Be	B
54	L011-03M	17.82	8.547	1.518	2.218	1.568	2.886
55	L011-03S	15.80	7.578	1.426	2.014	1.391	2.652
56	L011-03T	-.1092	.0723	-.1126	.6832	.0052	1.347
57	ICSABF	484.0	.9030	1.697	.4462	L.3985	.4584
58	CCV5	7.244	1.398	1.353	1.456	L1.311	1.402
59	CCB5	-.0142	.0023	.0076	.0003	-.0000	.0010
60	Blank	-.0012	-.0370	-.0197	.0006	.0000	.0028

#	Sample Name	Cd	Ca	Cr	Co	Cu	Fe
1	S0	.00449	.13549	.00199	.001	.00099	.00499
2	S1	1.7755	63.646	1.437	2.9735	1.68799	8.9265
3	S2	2.6465	93.96	2.09249	4.34299	2.59849	13.225
4	S3	3.5	127.52	2.76649	5.73799	3.399	17.636
5	ICV HIGH1	1.981	100.3	1.962	1.956	1.976	9.894
6	ICV	.9755	48.88	.9860	.9654	.9810	4.943
7	ICB	-.0014	-.0262	.0045	.0034	.0021	.0012
8	ICSABI	1.035	523.4	.4829	.4589	.5045	186.0
9	CCV1	1.469	72.07	1.451	1.456	1.479	7.267
10	CCB1	-.0008	-.0424	.0031	.0023	.0018	.0010
11	IPL017SB	-.0524	-9.101	.5594	.5251	1.673	.9146
12	IPL017SL	92.01	4198.	89.37	87.52	100.5	913.1
13	IPL017SC	91.20	4144.	88.12	86.72	98.61	902.6
14	L045-05	.0624	12660.	4.072	2.175	4.339	3465.
15	L045-05D	-.1686	13190.	3.248	2.183	10.81	3166.
16	L045-05M	83.73	12440.	82.50	79.78	93.63	3615.
17	L045-05T	-.1809	3095.	1.162	.3833	.9409	829.0
18	L045-06	-.0398	8493.	2.295	1.147	3.196	1845.
19	L045-07	.0843	6374.	2.266	1.193	6.065	2186.
20	L045-08	-.0291	7270.	2.588	1.265	2.142	2357.
21	CCV2	1.463	70.38	1.412	1.413	1.449	7.077
22	CCB2	-.0005	-.0507	.0056	.0049	.0033	.0041
23	IPL020WB	-.0014	-.0973	.0013	.0002	-.0003	.0012
24	IPL020WL	H1.765	H87.76	H1.682	H1.668	H1.764	H16.99
25	IPL020WC	H1.734	H87.40	H1.684	H1.641	H1.752	H16.86
26	L042-01	-.0020	134.4	-.0041	.0204	-.0011	22.71
27	L042-02	-.0031	102.6	-.0027	.0097	-.0043	41.60
28	L042-03	-.0004	.0157	-.0008	.0014	.0003	.0320
29	ICSABF	.9946	473.3	.4330	.4181	.4980	172.1
30	CCV3	1.421	L66.98	L1.335	L1.340	1.427	6.865
31	CCB3	.0017	-.0056	.0031	-.0001	.0018	.0122
32	L035-01	.0812	6994.	45.31	26.17	40.74	38290.
33	L035-01D	-.1400	3658.	53.64	27.30	40.33	37920.
34	L035-01M	86.45	7902.	137.2	106.6	149.6	41000.
35	L035-01T	.2409	8489.	53.90	31.89	40.32	48450.
36	L035-02	.1194	6686.	29.53	27.68	35.65	35580.
37	L035-03	-.2134	6239.	24.89	18.68	34.84	28360.
38	L035-04	-.1509	7437.	29.43	21.32	38.27	34620.
39	L035-05	-.0000	7128.	33.84	20.28	36.16	36950.
40	L035-06	-.0469	7076.	34.34	23.25	56.22	37930.
41	L035-07	-.3347	6193.	21.32	20.22	28.17	26590.
42	CCV4	1.432	L67.40	L1.336	L1.332	1.437	6.911
43	CCB4	-.0007	-.0452	.0049	.0028	.0021	.0272

#	Sample Name	Cd	Ca	Cr	Co	Cu	Fe
44	L035-08	.1565	2173.	6.927	5.202	28.47	14670.
45	L035-09	.2397	4623.	11.90	12.67	52.60	27930.
46	L035-10	.2531	5507.	15.24	13.18	50.29	26780.
47	L035-11	.0958	7614.	39.24	27.56	48.82	38660.
48	L011-01	-.0013	154.2	-.0037	-.0011	.0018	.1537
49	L011-02	-.0022	37.08	.0056	.0032	.0030	.0893
50	CCV5	1.408	L65.40	L1.284	L1.290	1.412	L6.677
51	CCB5	-.0028	-.0590	-.0005	.0013	.0006	.0092
52	L011-03	-.0015	178.9	.0006	.0022	.0015	.0212
53	L011-03D	.0003	202.5	-.0151	.0013	.0003	.0120
54	L011-03M	1.712	251.1	1.478	1.484	1.733	15.28
55	L011-03S	1.519	234.7	1.311	1.329	1.530	13.62
56	L011-03T	.0003	187.8	-.0076	.0107	.0119	.0957
57	ICSABF	.9663	443.4	L.3991	L.3928	.4907	161.8
58	CCV5	1.382	L63.33	L1.247	L1.251	1.419	L6.575
59	CCB5	-.0010	-.0535	-.0001	.0014	.0009	.0029
60	Blank	-.0006	-.0108	.0024	-.0013	.0009	1.189

#	Sample Name	Pb	Mg	Mn	Mo	Ni	K
1	S0	-.00449	.0135	.002	.00249	-.02199	.5625
2	S1	1.46199	22.4755	3.187	.281	2.16249	14.839
3	S2	2.08799	34.117	4.67299	.4275	3.1675	23.612
4	S3	2.7915	45.2265	6.1875	.55949	4.19849	29.855
5	ICV HIGH1	1.989	99.91	1.960	1.971	1.960	101.7
6	ICV	.9667	49.08	.9776	.9693	.9683	51.75
7	ICB	.0020	-.0190	.0002	-.0053	.0034	.0014
8	ICSABI	1.083	458.4	.5337	.9604	.9161	58.86
9	CCV1	1.473	73.48	1.447	1.457	1.457	73.11
10	CCB1	.0318	-.0036	-.0001	-.0089	.0079	-.1645
11	IPL017SB	2.757	-.1336	.0556	-.7130	.0827	22.16
12	IPL017SL	85.82	4472.	87.68	93.40	87.82	4642.
13	IPL017SC	84.35	4401.	86.44	92.33	84.76	4648.
14	L045-05	2.231	2292.	101.8	-.2689	3.889	420.8
15	L045-05D	4.930	2262.	106.7	-.4712	2.908	393.8
16	L045-05M	81.05	5651.	152.1	80.40	80.32	4626.
17	L045-05T	-1.973	535.3	24.55	-1.364	.9017	112.7
18	L045-06	1.771	1508.	76.81	-.0366	2.067	261.6
19	L045-07	5.068	1119.	51.88	-.3674	3.051	214.0
20	L045-08	2.810	1241.	63.43	.1826	2.232	234.5
21	CCV2	1.414	72.99	1.412	1.412	1.414	72.09
22	CCB2	.0058	.0154	.0001	.0000	.0039	.4281
23	IPL020WB	.0205	-.0080	-.0006	-.0089	.0037	.0759
24	IPL020WL	H1.704	H90.44	H1.688	H1.780	H1.671	H90.58
25	IPL020WC	H1.680	H91.29	H1.661	H1.775	H1.646	H91.81
26	L042-01	-.0157	44.04	1.865	-.0125	.0333	13.04
27	L042-02	-.0034	30.05	1.653	-.0092	.0206	6.195
28	L042-03	.0121	-.0034	.0012	.0000	-.0078	-.5201
29	ICSABF	.9744	440.7	.4958	.9129	.8545	56.99
30	CCV3	1.374	71.79	L1.348	L1.346	L1.347	74.23
31	CCB3	.0090	.0319	.0004	-.0036	.0013	-.2763
32	L035-01	10.90	8490.	797.8	-3.813	29.19	136.6
33	L035-01D	16.42	7374.	891.2	-2.593	26.60	125.8

#	Sample Name	Pb	Mg	Mn	Mo	Ni	K
34	L035-01M	91.15	11440.	1164.	68.47	107.6	4623.
35	L035-01T	33.27	10260.	950.6	-6.939	30.73	-78.0
36	L035-02	55.23	8131.	1018.	-2.425	25.48	127.8
37	L035-03	15.67	6310.	661.7	-.8337	18.77	137.1
38	L035-04	14.58	7032.	790.6	-3.922	21.23	145.8
39	L035-05	15.83	7317.	751.2	-2.133	21.93	146.4
40	L035-06	29.97	7318.	883.5	-3.140	23.77	337.3
41	L035-07	16.88	6962.	732.9	-1.686	19.62	130.9
42	CCV4	1.396	72.24	1.359	L1.346	1.382	76.00
43	CCB4	.0023	.0197	.0010	-.0053	.0048	.3655
44	L035-08	18.19	1663.	2040.	.2500	10.25	224.5
45	L035-09	16.60	3656.	2400.	-.8629	15.36	397.6
46	L035-10	18.89	4213.	2573.	-.5965	19.11	398.2
47	L035-11	25.29	8419.	998.5	-2.007	28.30	215.2
48	L011-01	.0055	55.73	3.414	-.0053	-.0053	8.041
49	L011-02	.0161	22.43	.0106	.0125	-.0034	1.574
50	CCV5	1.360	70.41	L1.320	L1.292	1.357	78.50
51	CCB5	.0090	-.0036	.0006	-.0089	.0034	-.266
52	L011-03	.0325	67.81	2.184	-.0018	-.0001	7.767
53	L011-03D	.0037	72.66	2.411	-.0125	-.0038	7.967
54	L011-03M	1.627	149.1	3.580	1.573	1.534	105.2
55	L011-03S	1.504	137.8	3.320	1.411	1.372	94.54
56	L011-03T	.1958	73.36	2.370	-.0089	-.0122	8.338
57	ICSABF	.9468	429.1	.4735	.8371	.8178	64.66
58	CCV5	L1.338	70.75	L1.283	L1.271	L1.329	H83.87
59	CCB5	.0044	-.0112	.0001	-.0036	-.0029	.1877
60	Blank	.0335	.0243	.0105	.0001	.0062	-.476

#	Sample Name	Se	Ag	Na	Sr	Tl	Sn
1	S0	-.02349	-.00799	.04699	.2985	-.00599	-.007
2	S1	.583	2.7525	4.17399	18.678	.6725	1.362
3	S2	.85749	4.162	6.616	28.1375	1.0605	2.043
4	S3	1.13849	5.539	8.25149	36.744	1.364	2.733
5	ICV HIGH1	1.920	1.988	99.92	1.961	2.010	9.935
6	ICV	.9954	.9777	53.62	.9851	.9876	4.805
7	ICB	.0651	-.0036	-.0049	-.0007	-.0015	.0164
8	ICSABI	3.515	.9478	56.38	.4641	4.452	.9279
9	CCV1	1.438	1.479	73.94	1.470	1.499	7.294
10	CCB1	.0167	-.0058	-.0109	-.0007	.0059	.0493
11	IPL017SB	4.346	.2923	.1012	-.1235	3.444	7.662
12	IPL017SL	185.5	89.80	4995.	95.87	176.0	89.75
13	IPL017SC	179.0	88.79	4932.	94.14	177.3	87.19
14	L045-05	-6.158	-1.741	732.9	40.72	16.43	1.029
15	L045-05D	-4.645	-1.483	722.8	42.20	11.84	2.940
16	L045-05M	160.7	81.07	4910.	112.8	168.5	76.74
17	L045-05T	5.588	-.5485	160.1	9.187	2.355	5.674
18	L045-06	-2.242	-1.238	364.1	25.63	12.08	9.775
19	L045-07	1.054	-1.371	315.4	17.21	5.607	3.090
20	L045-08	-3.441	-1.443	266.6	21.71	7.335	4.239
21	CCV2	L1.336	1.469	71.93	1.448	1.444	7.022
22	CCB2	.0535	.0007	-.0228	-.0010	-.0279	.0274
23	IPL020WB	.0191	-.0051	.0010	-.0010	-.0418	.0201

#	Sample Name	Se	Ag	Na	Sr	Tl	Sn
24	IPL020WL	H3.331	H1.730	H88.89	H1.784	H3.419	H1.736
25	IPL020WC	H3.310	H1.706	H90.39	H1.801	H3.375	H1.723
26	L042-01	-.0128	-.0232	106.4	.8233	.1121	.0300
27	L042-02	-.0288	-.0308	133.1	.2475	.2239	.0187
28	L042-03	.0033	-.0062	.3817	-.0007	-.0280	.0366
29	ICSABF	L3.178	.9214	54.76	.4481	4.169	.8729
30	CCV3	L1.340	1.431	71.88	1.421	1.373	6.810
31	CCB3	.0543	-.0043	-.0109	-.0009	.0132	.0183
32	L035-01	-99.49	-14.58	242.8	14.12	237.5	-2.032
33	L035-01D	-92.37	-13.70	190.4	12.59	221.1	-4.368
34	L035-01M	21.02	72.27	4549.	98.79	412.9	68.91
35	L035-01T	-87.34	-19.11	280.1	15.86	202.1	22.90
36	L035-02	-86.99	-13.03	218.4	12.46	208.7	1.087
37	L035-03	-63.29	-10.78	152.4	11.06	153.2	2.295
38	L035-04	-87.79	-13.06	179.1	12.50	200.7	3.706
39	L035-05	-89.83	-13.89	198.8	12.73	218.7	.3688
40	L035-06	-91.85	-14.58	188.7	14.47	228.7	1.409
41	L035-07	-68.00	-9.568	169.0	11.84	141.6	4.896
42	CCV4	L1.340	1.449	73.06	1.448	1.442	6.799
43	CCB4	.0259	.0013	-.0228	-.0009	.0021	.0456
44	L035-08	-34.67	-5.087	95.27	6.451	70.70	7.642
45	L035-09	-67.94	-9.904	179.1	12.39	147.1	3.522
46	L035-10	-65.45	-9.462	190.4	12.96	141.4	2.473
47	L035-11	-98.91	-14.57	205.9	15.44	219.6	1.351
48	L011-01	.0093	-.0304	245.3	1.234	.0597	.0256
49	L011-02	.0151	-.0108	48.77	.3417	.0562	.0438
50	CCV5	L1.320	1.426	73.90	1.428	1.440	L6.622
51	CCB5	.0075	-.0073	-.0287	-.0012	-.0470	.0712
52	L011-03	.0175	-.0314	273.3	2.172	.0116	.0365
53	L011-03D	-.0001	-.0347	280.1	2.286	.0362	.0237
54	L011-03M	.6639	1.644	331.4	3.715	3.171	1.675
55	L011-03S	.5100	1.447	312.8	3.435	2.810	1.465
56	L011-03T	.3554	-.0355	333.5	2.378	-.0251	.2922
57	ICSABF	L2.841	.9035	57.54	.4440	3.971	.8374
58	CCV5	L1.220	1.416	76.53	1.426	L1.302	L6.478
59	CCB5	.0736	-.0049	-.0347	-.0013	.0162	.0475
60	Blank	.0723	-.0005	.1200	-.0009	-.0109	.0368

#	Sample Name	Ti	V	Zn
1	S0	.00249	0	.0795
2	S1	3.66949	.9465	5.88949
3	S2	5.473	1.40499	8.696
4	S3	7.20399	1.85299	11.4715
5	ICV HIGH1	1.959	1.967	1.967
6	ICV	.9808	.9829	.9689
7	ICB	-.0007	.0029	-.0059
8	ICSABI	.9114	.4672	.9684
9	CCV1	1.454	1.455	1.461
10	CCB1	.0008	.0012	-.0052
11	IPL017SB	.0094	.1775	-.8361
12	IPL017SL	91.44	88.95	90.30
13	IPL017SC	89.73	87.88	89.35

#	Sample Name	Ti	V	Zn
14	L045-05	43.26	5.887	10.30
15	L045-05D	48.62	5.208	11.38
16	L045-05M	123.1	84.39	90.56
17	L045-05T	10.15	1.333	1.789
18	L045-06	15.25	3.075	6.528
19	L045-07	26.60	4.341	6.539
20	L045-08	24.95	4.209	6.048
21	CCV2	1.422	1.424	1.423
22	CCB2	.0004	.0041	-.0034
23	IPL020WB	.0006	-.0004	-.0094
24	IPL020WL	H1.742	H1.685	H1.689
25	IPL020WC	H1.745	H1.656	H1.656
26	L042-01	-.0036	.0005	.0347
27	L042-02	-.0028	.0001	.0391
28	L042-03	.0015	.0010	-.0087
29	ICSABF	.8518	.4309	.9001
30	CCV3	1.375	1.368	1.354
31	CCB3	.0006	-.0002	-.0065
32	L035-01	482.2	135.6	64.30
33	L035-01D	504.3	153.5	68.89
34	L035-01M	740.7	247.4	157.2
35	L035-01T	559.1	158.6	69.12
36	L035-02	767.4	121.0	77.79
37	L035-03	803.1	103.5	52.31
38	L035-04	1202.	126.0	68.50
39	L035-05	1406.	134.7	72.71
40	L035-06	1243.	144.2	94.16
41	L035-07	592.5	96.24	47.49
42	CCV4	1.383	1.375	1.356
43	CCB4	.0015	.0029	-.0076
44	L035-08	450.6	32.50	20.37
45	L035-09	775.4	68.47	47.26
46	L035-10	916.5	66.82	43.09
47	L035-11	1062.	143.4	84.32
48	L011-01	.0005	.0023	.0115
49	L011-02	.0037	.0199	.0158
50	CCV5	1.353	L1.336	L1.310
51	CCB5	.0015	-.0009	-.0074
52	L011-03	-.0029	.0040	.0166
53	L011-03D	-.0051	.0010	.0160
54	L011-03M	1.595	1.534	1.551
55	L011-03S	1.424	1.369	1.379
56	L011-03T	.0073	.0122	-.0091
57	ICSABF	.8144	.4066	.8364
58	CCV5	L1.331	L1.302	L1.278
59	CCB5	.0008	.0019	-.0080
60	Blank	.0030	.0010	-.0056

DIGESTION LOG FOR ICP METALS

Prep. Batch IPL017S Method 3005 ☐ 3010 ☐ 3050 ☑ CLP ☐ ☐ Book # T-E08-001 Page # 125

Matrix Soil Starting Date 12/14/96 Time 10:00 Ending Date 12/14/96 Time 16:00

Lab Sample ID	Matrix Description: Color	Texture / Clarity	Artifacts	Sample Amount (g/ml)	pH	Extract Volume (ml)	Digestate Description: Color	Clarity
IPL017SB				—		100		
SL				—			K	
SC				—			K	
~~96L048-01~~								
~~FY12/14-02~~								
96L035-01				1.00				
-02								
-03								
-04								
-05								
-06								
-07								
-08								
-09								
-10								
-11								
96L045-05								
-05Dup								
-05M							K	
-06								
-07								
-08				↓		↓		
96L035-01Dup				1.00		100		
-01M				↓		↓	K	

Standards	ID	Amount Added (ml)
LCS	SO1A-060308	1.0
MS	SO1A-060404	1.0
	SO1C 06 26 03	1.0

Reagent	Lot# / ID
HNO_3	116080
HCl	416040
H_2O_2	M157 KPDV

SDG #	Extract Location
	IDEA LAB

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Bn = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown Gn = Green	Fn = Fine	Td = Turbid	Vg = Vegetation
Og = Orange Rd = Red Yw = Yellow			

Comments: _____

Prepared By: FY

Standard Added By: FY/MC

Checked By: MC

Extracts Received By: 015