

3-845 = 0.6

ENVIRONMENTAL
PROTECTION **enviros**[®]

95 MAR 29 PM 12:55

March 23, 1995

Mr. Ed Ralston
Unocal Corporation-CERT
P.O. Box 5155
San Ramon, California 94583

- ① Verify ULP filed *yes*
- ② Tank manifests *sets*
- ③ Bills of lading for soil disposal and GW disposal.
- ④ *ok* include location of conductor casing ✓
- ⑤ PSA to delineate extent of soil + GW contamination

RE: STORAGE TANK REPLACEMENT OBSERVATION REPORT
Unocal Service Station No. 7176
7850 Amador Valley Road
Dublin, California

Dear Mr. Ralston:

Enviros, Inc. is pleased to transmit a copy of the Storage Tank Replacement Observation Report dated March 23, 1995. This report documents field activities conducted during underground storage tank replacement.

If you have any questions, please call me at 707-935-4856.

Sincerely,
Enviros, Inc.



David J. Vossler
Project Manager

cc: Ms. Eva Chu, Alameda County Health Care Services Agency
95132.01 files

UNOCAL 76

November 16, 1994

Ms. Eva Chu
Alameda County Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502

RE: UNOCAL SERVICE STATION # 7176
7850 AMADOR VALLEY BLVD @ REGION
DUBLIN, CALIFORNIA 94568

Dear Eva:

Enclosed, please find a completed Underground Storage Tank Unauthorized Release Report for the above referenced Unocal service station.

Petroleum hydrocarbon contamination was detected at this facility during a waste-oil tank removal project today.

Unocal CERT Engineer, Mr. Edward Ralston has been assigned to further investigate this case. Ed can be reached as follows:

Mr. Edward Ralston
Unocal CERT Department
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583
(510) 277-2311

Your cooperation and assistance regarding this matter is greatly appreciated. Should you have any questions, please call me at (714) 572-7653.

Sincerely,

Lynda S. Chalom
Leak Reporting Coordinator

LSC/lc

Enclosure

cc: G. Abramo - T.M.
S. Mui - Dealer
E. Ralston
J.M. Tyson
Leak Reporting File

ALCO
HAZMAT
24 NOV 21 PM 4:24

Prepared for:

*Unocal Corporation
P.O. Box 5155
San Ramon, California*

Prepared by:

Enviros, Inc.

***STORAGE TANK
REPLACEMENT
OBSERVATION REPORT***

***Unocal Service Station No. 7176
7850 Amador Valley Road
Dublin, California***

March 23, 1995

95132.01

March 23, 1995

Mr. Ed Ralston
Unocal Corporation-CERT
P.O. Box 5155
San Ramon, California

RE: STORAGE TANK REPLACEMENT OBSERVATION REPORT
Unocal Service Station No. 7176
7850 Amador Valley Boulevard
Dublin, California

Dear Mr. Ralston:

This report summarizes field activities performed by Enviro, Inc. (Enviros) in November 1994, at the above referenced site (Plates 1 and 2). The activities performed include environmental oversight and soil sampling during the replacement of three gasoline and one diesel underground storage tanks (USTs) and related product piping, and the removal of one waste oil tank and one sand/water separator. The scope of work presented in this document was performed at the request of Unocal Corporation-CERT (Unocal).

Soil samples were collected to evaluate whether petroleum hydrocarbons had impacted the soil in the areas described above. An Enviro geologist was present on-site to observe and monitor field activities. Enviro also acted as liaison between Unocal, Gettler-Ryan Inc. (the construction contractor), and Alameda County Health Care Services Agency (ACHCSA). Field work documented in this report was performed to comply with State of California and ACHCSA guidelines. Storage tank removal operations and sampling results are presented below.

Site Description and Background

The subject property is located at the southwest corner of Amador Valley Boulevard and Regional Street in Dublin, California. The site was initially a former Gulf Service Station and later was operated as a Fill-Em-Fast Service Station. The original service station configuration during these ownership's is unknown. In 1985, Unocal purchased the station and the recent remodeling performed in November 1995 is the only recorded service station upgrade on record.

The gasoline tanks during this investigation were located on the east side of the station building, and the waste oil tank was located on the south side of the service station building. One 280-gallon single-wall steel waste oil tank, and one 10,000-gallon single-wall steel diesel tank were removed on November 8, 1994. One 10,000-gallon single-wall steel regular unleaded gasoline tank, one 10,000-gallon single-wall steel mid-grade unleaded gasoline tank, and one 10,000-gallon single-wall steel super unleaded gasoline tank were removed on November 10, 1994. Two new 12,000-gallon glasteel gasoline USTs were installed in the east end of the enlarged former fuel tank excavation by Gettler-

Ryan in November 1994. Tank removal and related overexcavations and soil sampling were witnessed or approved by representatives from ACHCSA.

Regional and Local Geology/Hydrogeology

The site is located within the Dublin subbasin, which is the west part of the Livermore Valley Basin at the foot of the Dublin Hills. The sediments underlying the Livermore Valley Basin consist of Recent alluvium of Pleistocene to Pliocene age, consisting of thick gravel deposits, interbedded with sand and clay. The Calaveras Fault is located approximately 1/2-mile west of the site (Engineering and Associates Report, Exxon Service Station, February 1992).

Native soils encountered beneath the site are alluvial sediments consisting of sandy to silty clays (CL). An Exxon service station located east of the site has documented sandy to silty clays with lenses of gravelly sand. The depth to groundwater is approximately 20 feet below grade (fbg) and groundwater flow direction is suspected to be topographically controlled, flowing east to southeast.

Removal of Underground Storage Tanks

The five tanks were treated with dry ice prior to removal. The tanks were inspected for holes, cracks, pitting, and signs of failure after removal. The four fuel tanks were in good condition with no visible signs of failure or leaking, and limited rust on the outer surfaces. The waste oil tank had eight holes in the bottom of the tank that ranged in size from a pinhole to 0.5-inches in diameter. All sides of the waste oil tank were rusted and pitted. Associated single-wall steel and fiberglass product piping was inspected before and after removal and had no visible signs of failure or leaking. The tanks were transported by Erickson, Inc. to their Richmond, California facility for disposal.

Soil Sampling Procedures

Representative soil samples were collected by pushing clean stainless steel sample tubes into the soil until completely filled. The tubes were removed, both ends were covered with teflon tape and sealed with plastic end caps. The samples were labeled, placed into a cooler with ice, entered onto a Chain-of-Custody record, and transported to Sequoia Analytical (Sequoia), a state certified environmental laboratory located in Redwood City, California.

Soil samples from the tank excavations, sand/water separator, and product piping trenches were collected with either an excavator bucket or were hand-driven. The top 1 to 3 inches of soil were removed, after which the samples were collected and handled as described above. The soil stockpile samples were collected by removing the top 6 to 12 inches of soil and repeating the procedure described above. The stockpile samples consisted of four subsamples that were composited in the laboratory and analyzed as one sample.

Sampling and Analytical Results

The analytical results for each of the areas sampled are discussed below. Soil sample locations are shown on Plate 3 and soil stockpile locations on Plate 4. Chemical analytical data are summarized in Tables 1 and 2. The laboratory analytical reports are presented in Appendix A.

Fuel Tank Excavation

Fourteen soil samples designated UX-1 through UX-14 were collected from the fuel tank excavation. Samples UX-1 and UX-2, collected from below the former diesel tank at approximately 14 fbg, were analyzed for total petroleum hydrocarbons calculated as diesel (TPH-D) according to EPA Method 8015 (Modified) and benzene, toluene, ethylbenzene and total xylenes (BTEX) according to EPA Method 8020. Samples UX-3 through UX-8, collected from below the gasoline tanks at approximately 15 to 15.5 fbg, were analyzed for total petroleum hydrocarbons calculated as gasoline (TPH-G) according to EPA Method 8015 (Modified) and BTEX. In addition, samples UX-3, UX-4, and UX-8 were analyzed for total lead according to EPA Method 6010. Samples UX-9 through UX-14, collected from the excavation sidewalls at 15 to 17 fbg, were analyzed for TPH-G, TPH-D, and BTEX.

Initial analytical results (UX-1 through UX-8) indicated TPH-D, TPH-G, and BTEX compounds were present in soils below the former USTs. Therefore, the UST area was overexcavated to approximately 20 fbg and confirmation samples UX-9 through UX-14 ranged from ND to 230 ppm TPH-G, 1.6 to 75 ppm TPH-D, and were ND for benzene.

Waste Oil Tank Excavation and Sand/Water Separator

Soil sample UW-1 was collected from below the waste oil tank at a depth of approximately 8 fbg and was analyzed for TPH-G, TPH-D, BTEX, oil and grease (O&G) according to Standard Methods 5520 E&F, volatile organic compounds according to EPA Method 8240 (8240), semi-volatile organic compounds according to EPA Method 8270 (8270), and 5 ICAP Metals according to EPA Method 6010. The sample results were ND for all analytes.

Soil sample UOW-1 was collected below the sand/water separator at approximately 6 fbg and analyzed for the same waste oil suite analytes as soil sample UW-1. The sample was ND for all analytes except ICAP metals. Low metal concentrations were detected in soils, however, concentrations were below applicable regulatory limits.

Product Piping Trench

Eleven soil samples designated UT-1 through UT-11 were collected from beneath the dispenser islands. All samples were analyzed for TPH-G, TPH-D, and BTEX except for UT-3 and UT-4 which were analyzed for TPH-G and BTEX only. Soil samples UT-1 through UT-4 were collected at approximately 3.5 fbg and sampling results indicated hydrocarbons were detected in the UT-2 and UT-4 sampling areas. These areas were overexcavated and confirmation samples UT-5 through UT-11 were collected at depths ranging from 8 to 19.5 fbg. Analytical results indicate that low levels of TPH-G and TPH-D are present in soils.

Soil Stockpile Samples

A total of 1,863.26 tons of soil were excavated and stockpiled during field activities. Soil stockpile sample UWS-1A-D was collected from the waste oil tank excavation stockpile and analyzed for TPH-G, TPH-D, BTEX, O&G, 8240, 8270, soluble threshold limit concentration (STLC) CAM 17 metals, and reactivity, corrosivity, and ignitability (RCI). Soil stockpile samples US-1A-D through US-16A-D were collected from the fuel tank excavation, product line trenches, and related overexcavations. Soil sample US-1A-D was analyzed for TPH-D and BTEX. Soil samples US-2A-D through US-16A-D were analyzed for TPH-G, TPH-D, BTEX, and total lead. In addition, sample US-3A-D was analyzed for RCI.

Soil and Groundwater Remedial Activities

A total of 1,863.26 tons of hydrocarbon-impacted soils were excavated at the site. These soils were stockpiled and sampled (soil samples UWS-1A-D and US-1A-D through US-16A-D). The impacted soils were transported by Gettler-Ryan to BFI Vasco Road Landfill, an approved disposal facility, located in Livermore, California. A total of 1,048.26 tons of soil were accepted as Class III material and 814.93 tons were accepted as Class II material.

Prior to installation of the new fuel tanks, two 6-inch diameter, 0.020-inch slotted conductor casings were installed in the pea gravel of the fuel tank excavation. These casings are used to monitor depth to water and to remove groundwater from the excavation. To date, approximately 5,000 gallons of hydrocarbon-impacted groundwater have been purged from the UST excavation by Rust Industrial Cleaning Services of Benicia, California using vacuum trucks. The impacted groundwater was transported to the Unocal Refinery, an approved treatment facility, located in Rodeo, California. Additional impacted groundwater will be purged from the site as described in the recommendations section of this report.

Summary

Three 10,000-gallon gasoline tanks, one 10,000-gallon diesel tank, one 280-gallon waste oil tank, and related product piping were removed on November 8, and 10, 1994. A sand/water separator was also decommissioned at this time. After removal, no holes, cracks or signs of failure were observed in the gasoline and diesel tanks, and associated product piping. The waste oil tank contained eight holes in the bottom of the tank ranging in size from a pinhole to 0.5-inches in diameter. Groundwater was encountered in the fuel tank excavation at approximately 20 fbg.

A total of 27 soil samples were collected and analyzed for hydrocarbons in the areas described above. The sampling results indicate that soils in the vicinity of the waste oil tank and sand/water separator were not impacted by petroleum hydrocarbons. Detectable concentrations of TPH-G and TPH-D remain in soils below the fuel tanks and the eastern ends of the product dispensers.

Hydrocarbon remediation efforts include the following: (1) removal of the main hydrocarbon sources which include the USTs, sand/water separator, and related product piping, (2) excavation of 1,863.26 tons of hydrocarbon-impacted soils, and (3) pumping of approximately 5,000 gallons of hydrocarbon-impacted groundwater from the UST excavation for disposal at the Unocal Refinery.

Recommendations

Enviros recommends a limited soil and groundwater investigation be performed. The purpose of the investigation is to provide additional subsurface information to evaluate the extent of hydrocarbon-impacted soils and groundwater on the site. Enviros also recommends continued pumping of hydrocarbon-impacted groundwater from the conductor casings located in the fuel tank area. Vacuum trucks have been scheduled to remove the water on a regular basis and periodic groundwater sampling of the conductor casing and/or monitoring wells will be performed in conjunction with water removal.

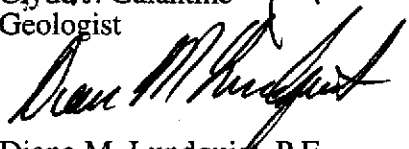
Distribution

Enviros recommends that a copy of this report be sent to Ms. Eva Chu of the ACHCSA.

If you have any questions, please call.

Enviros, Inc.


Clyde J. Galantine
Geologist


Diane M. Lundquist, P.E.
Senior Engineer
C46725



- Attachments: Table 1. Soil Analytical Data
Table 2. Soil Stockpile Analytical Data
- Plate 1. Vicinity Map
Plate 2. Site Plan
Plate 3. Soil Sample Location Map
Plate 4. Soil Stockpile Location Map
- Appendix A: Laboratory Analytical Reports and Chain-of-Custody Records

TABLE 1
SOIL ANALYTICAL DATA

7850 Amador Valley Road
Dublin, California

SAMPLE NO.	SAMPLE DEPTH (FEET)	SAMPLE DATE	ANALYSIS DATE	TPH-D (PPM)	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYL BENZENE (PPM)	XYLENES (PPM)	TTLIC LEAD (PPM)	O&G (PPM)	8270 (PPB)	8240 (PPB)
UW-1	8	11/8/94	11-9-94	ND	ND	ND	ND	ND	ND	ND*	ND ✓	ND ✓	ND ✓
UOW-1	6	11/8/94	11-9-94	ND	ND	ND	ND	ND	ND	7.1*	ND	ND	ND
UT-1	3.5	11/8/94	11-9-94	ND	ND	ND	ND	ND	ND	--	--	--	--
UT-2	3.5	11/8/94	11-9-94	1,300	100**	ND	ND	ND	0.13	--	--	--	--
UT-3	3.5	11/8/94	11-9-94	--	3.1	0.017	0.25	0.097	0.56	--	--	--	--
UT-4	3.5	11/8/94	11-9-94	--	2,200**	ND	26	36	300	--	--	--	--
UT-5 (CS)	11	11/10/94	11-15-94	25***	740**	ND	6.5	20	110	--	--	--	--
UT-6 (CS)	11	11/10/94	11-15-94	1.1***	ND	ND	ND	ND	0.0070	--	--	--	--
UT-7 (CS)	19.5	11/30/94	12/2/94	50***	1,300**	ND	31	26	150	--	--	--	--
UT-8 (CS)	12	11/30/94	12/2/94	24***	180**	ND	3.8	3.0	19	--	--	--	--
UT-9 (CS)	8	11/30/94	12/2/94	ND	180**	ND	ND	ND	0.59	--	--	--	--
UT-10 (CS)	8	11/30/94	12/2/94	12	140**	ND	0.62	0.84	12	--	--	--	--
UT-11 (CS)	11	11/30/94	12/2/94	1.3***	5.1**	ND	ND	0.014	0.078	--	--	--	--
UX-1	14	11/8/94	11-9-94	9,100	--	0.98	1.8	2.7	3.4	--	--	--	--
UX-2	14	11/8/94	11-9-94	ND	--	ND	ND	ND	0.011	--	--	--	--
UX-3	15.5	11/10/94	11-14-94	--	1,600	1.6	54	24	220	ND	--	--	--
UX-4	15.5	11/10/94	11-14-94	--	1,500**	ND	11	16	160	ND	--	--	--
UX-5	15.5	11/10/94	11-14-94	--	5.2**	0.021	0.022	0.030	0.14	--	--	--	--
UX-6	15	11/10/94	11-14-94	--	11**	0.011	0.067	0.046	0.40	--	--	--	--
UX-7	15	11/10/94	11-14-94	--	2.8**	0.0062	ND	0.016	0.16	--	--	--	--
UX-8	15	11/10/94	11-14-94	--	150	0.22	3.5	2.1	21	ND	--	--	--
UX-9 (CS)	16	11/10/94	11-15-94	36	41**	ND	0.074	0.43	0.37	--	--	--	--
UX-10 (CS)	16	11/10/94	11-15-94	75	27**	ND	0.062	0.29	0.049	--	--	--	--
UX-11 (CS)	17	11/11/94	11-18-94	15***	200**	ND	1.2	0.94	13	--	--	--	--
UX-12 (CS)	17	11/11/94	11-18-94	15***	230**	ND	2.6	3.0	24	--	--	--	--
UX-13 (CS)	15	11/11/94	11-18-94	1.6***	ND	ND	ND	ND	0.0060	--	--	--	--
UX-14 (CS)	17	11/11/94	11-19-94	16***	210**	ND	0.78	0.98	9.7	--	--	--	--

TABLE 1
SOIL ANALYTICAL DATA

7850 Amador Valley Road
Dublin, California

CS	= Confirmation Sample
TPH-G	= Total Petroleum Hydrocarbons calculated as Gasoline
TPH-D	= Total Petroleum Hydrocarbons calculated as Diesel
TTLC	= Total Threshold Limit Concentration
O&G	= Oil and Grease
8270	= Semi-Volatile Organics
8240	= Volatile Organics
PPM	= Parts Per Million
PPB	= Parts Per Billion
UW	= Waste Oil Excavation Sample Designation
UOW	= Sand/Water Separator Sample Designation
UT	= Trench Sample Designation
UX	= UST Excavation Sample Designation
*	= See Appendix A for remaining metals analytical data.
**	= Non Gas Mix and/or Weathered Gas
***	= Non Diesel Mix

Note: Analyses designated as ND were reported as not detected. See analytical reports for detection limits.

**TABLE 2
SOIL STOCKPILE ANALYTICAL DATA**

7850 Amador Valley Road
Dublin, California

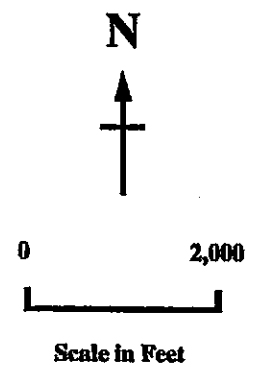
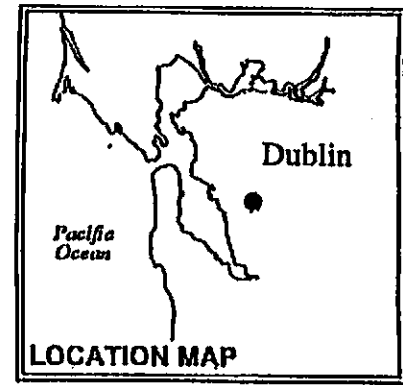
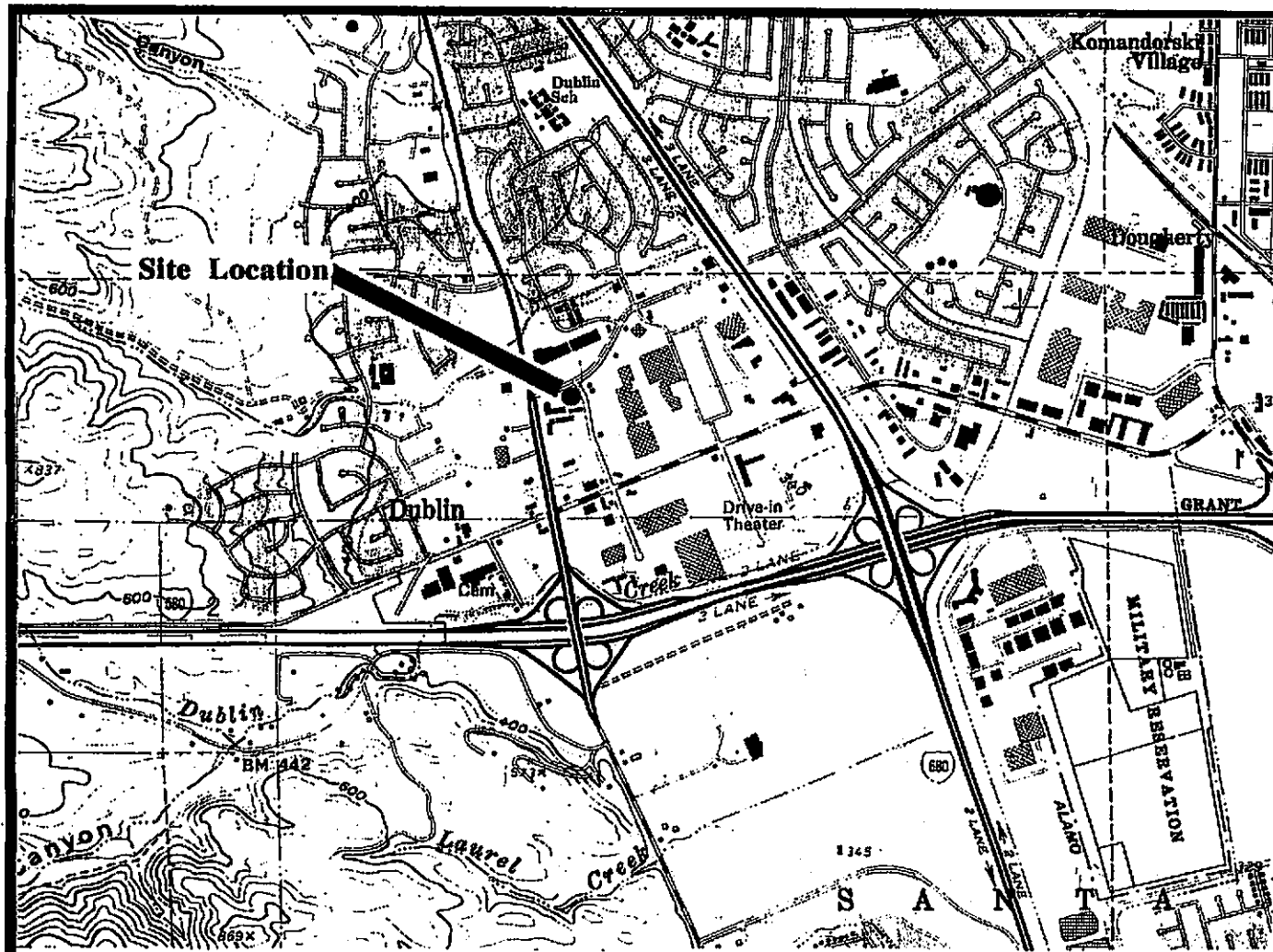
SAMPLE NO.	SAMPLE DATE	ANALYSIS DATE	TPH-D (PPM)	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYL BENZENE (PPM)	XYLENES (PPM)	TILEC LEAD (PPM)	RCI	O&G (PPM)	8270 (PPB)	8240 (PPB)
UWS-1A-D	11/9/94	11-14-94	ND	ND	ND	ND	ND	ND	*	**	ND	ND	ND
US-1A-D	11/9/94	11-10-94	33***	--	ND	0.054	0.072	0.63	--	--	--	--	--
US-2A-D	11/9/94	11-10-94	3.5***	2.3	ND	0.013	0.0062	0.16	ND	--	--	--	--
US-3A-D	11/10/94	11-14-94	340	110****	ND	0.22	0.81	4.3	ND	**	--	--	--
US-4A-D	11/10/94	11-11-94	58	54****	ND	ND	0.35	1.4	ND	--	--	--	--
US-5A-D	11/10/94	11-11-94	27***	ND	ND	ND	ND	ND	--	--	--	--	--
US-6A-D	11/10/94	11-11-94	46***	21****	ND	ND	ND	0.11	ND	--	--	--	--
US-7A-D	11/13/94	11-14-94	35***	140****	ND	ND	0.55	8.8	ND	--	--	--	--
US-8A-D	11/13/94	11-14-94	130	130****	ND	0.57	1.0	9.4	ND	--	--	--	--
US-9A-D	11/13/94	11-14-94	160***	160****	ND	1.7	1.8	15	ND	--	--	--	--
US-10A-D	11/13/94	11-14-94	11***	66****	ND	0.55	0.61	5.1	ND	--	--	--	--
US-11A-D	11/13/94	11-14-94	13***	79****	ND	0.71	0.85	8.5	ND	--	--	--	--
US-12A-D	11/13/94	11-14-94	29***	230****	ND	0.69	0.78	18	ND	--	--	--	--
US-13A-D	11/13/94	11-14-94	12***	50****	ND	0.15	0.13	3.8	ND	--	--	--	--
US-14A-D	12-6-94	12/7/94	24***	390****	ND	5.9	3.8	43	ND	--	--	--	--
US-15A-D	12-6-94	12/7/94	21***	1,600****	ND	47	25	170	ND	--	--	--	--
US-16A-D	12-6-94	12/7/94	3.6***	ND	ND	ND	ND	0.0053	ND	--	--	--	--

TABLE 2
SOIL STOCKPILE ANALYTICAL DATA

7850 Amador Valley Road
Dublin, California

TPH-G	= Total Petroleum Hydrocarbons calculated as Gasoline.
TPH-D	= Total Petroleum Hydrocarbons calculated as Diesel.
TTLIC	= Total Threshold Limiting Concentration
RCI	= Reactivity, Corrosivity and Ignitability.
O&G	= Oil and Grease.
8270	= Semi-Volatile Organics.
8240	= Volatile Organics.
PPM	= Parts Per Million
PPB	= Parts Per Billion
UWS	= Waste Oil Soil Stockpile Designation.
US	= Soil Stockpile Designation
*	= Reported as Soluble Threshold Limit Concentration for dissolved metals. See Appendix A for remaining metals analytical data.
**	= See Appendix A for analytical data.
***	= Non Diesel Mix
****	= Weathered Gasoline

Note: Analyses designated as ND were reported as not detected. See analytical reports for detection limits.



Base Map: USGS 7.5 Minute Topographic Map

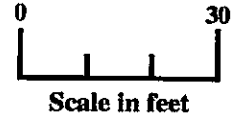
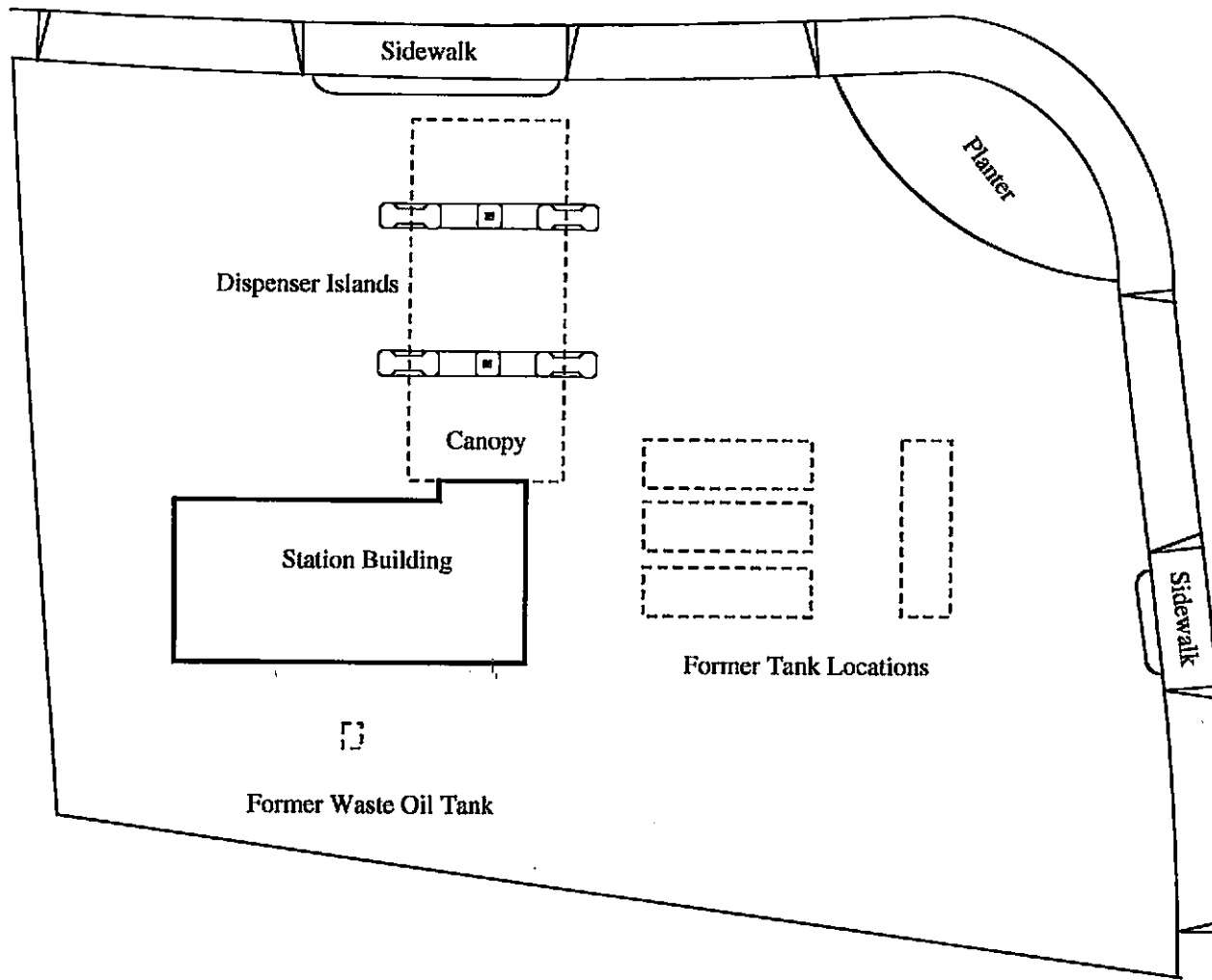
<p>PLATE</p>	<p>VICINITY MAP Unocal Service Station No. 7176 7850 Amador Valley Road Dublin, California</p>
<p>1</p>	

enviros[®]
E4/94132

Drawn By: CJG Date: 12-22-94

Approved By: CJG Date: 12/22/94

AMADOR VALLEY ROAD



REGIONAL STREET

PLATE
2

SITE PLAN
Unocal SS No. 7176
7850 Amador Valley Boulevard
Dublin, California

enviros[®]
95132.01

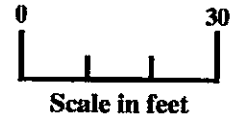
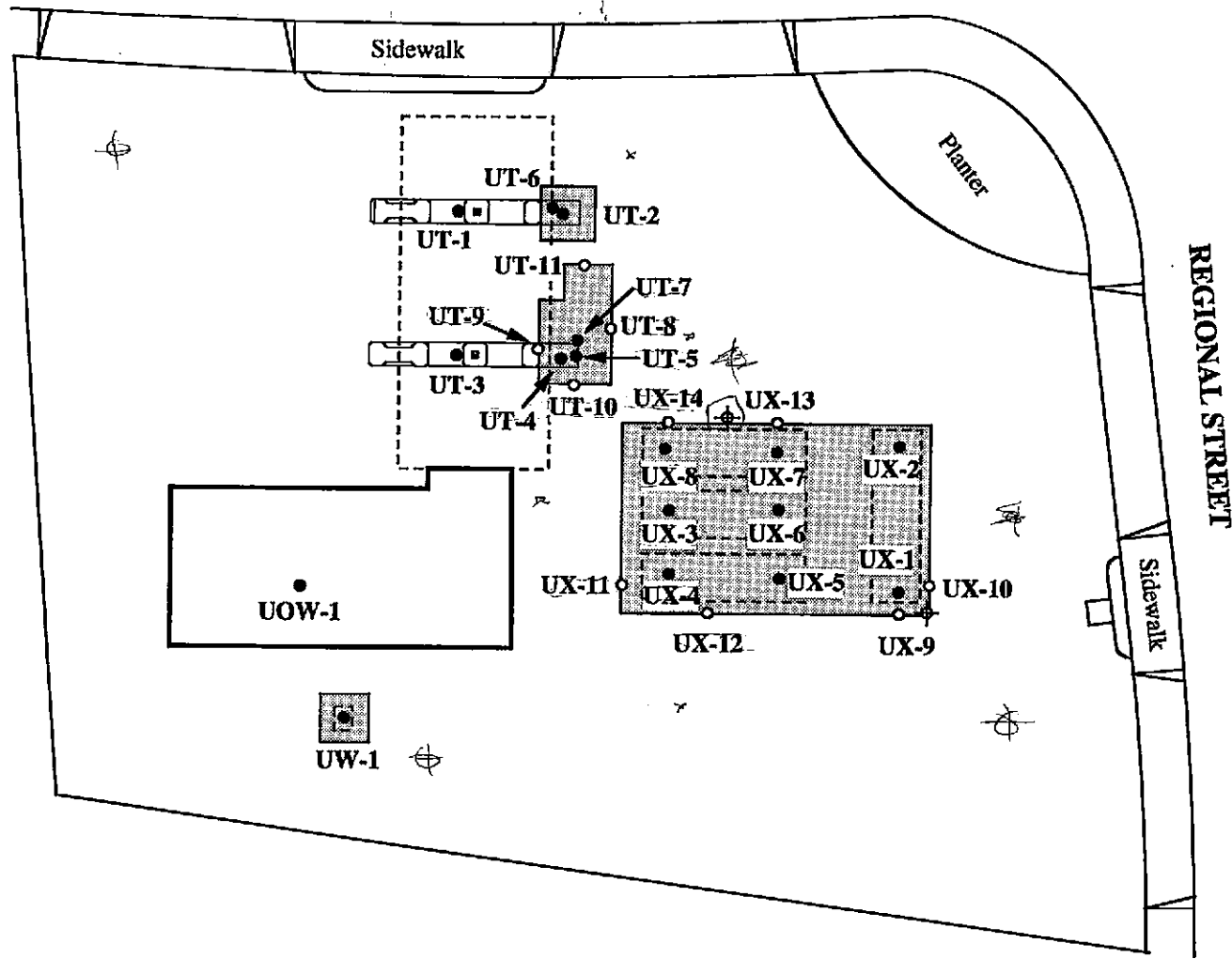
Drawn By: GLV

Date: 11-26-94

Approved By: [Signature]

Date: 3/23/95

AMADOR VALLEY ROAD



EXPLANATION

- Sidewall Sample
- Bottom Sample
- ⊕ Conductor Casing
- UX Excavation Sample
- UT Trench Sample
- UW Waste Oil Sample
- UOW Oil/Water Separator Sample
- ⬢ Excavation Location

PLATE
3
SOIL SAMPLE LOCATION MAP
Unocal SS No. 7176
7850 Amador Valley Boulevard
Dublin, California

enviros[®]
95132.01

Drawn By: GLV

Date: 11-26-94

Approved By: *[Signature]*

Date: 3/23/95

AMADOR VALLEY ROAD

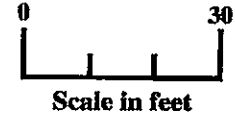
Sidewalk

Planter

Station Building

Sidewalk

REGIONAL STREET



EXPLANATION



Soil Stockpile
Location

PLATE

4

SOIL STOCKPILE LOCATION MAP

Unocal SS No. 7176
7850 Amador Valley Boulevard
Dublin, California

enviros[®]

95132.01

Drawn By: GLV

Date: 11-26-94

Approved By: 

Date: 3/23/95

APPENDIX A

**Laboratory Analytical Reports and
Chain-of-Custody Records**



RECEIVED
NOV 14 1994

Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin

Sampled: 11/08/94
Received: 11/08/94
Analyzed: see below

Lab Proj. ID: 9411490

Attention: CGalantine/DVossler

Reported: 11/09/94

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9411490-04 Sample Desc: SOLID, UW-1				
TRPH (SM 5520 E&F)	mg/Kg	11/09/94	50	N.D.

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UT-1
Matric: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411490-01

Sampled: 11/08/94
Received: 11/08/94
Extracted: 11/08/94
Analyzed: 11/09/94
Reported: 11/09/94

Attention: CGalantine/DVossler

Instrument ID: GCHP5A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	92

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UT-1
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411490-01

Sampled: 11/08/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/09/94
Reported: 11/09/94

Attention: CGalantine/DVossler

GC Batch Number: GC110994BTEXEXA
Instrument ID: GCHP-01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.

Chromatogram Pattern:

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	100

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

David Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UT-3
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411490-02

Sampled: 11/08/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/09/94
Reported: 11/09/94

Attention: CGalantine/DVossler

GC Batch Number: GC110994BTEXEXA
Instrument ID: GCHP-01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	3.1
Benzene	0.0050	0.017
Toluene	0.0050	0.25
Ethyl Benzene	0.0050	0.097
Xylenes (Total)	0.0050	0.56
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	104

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-2
Matrix: SOLID
Analysis Method: EPA 8020
Lab Number: 9411490-03

Sampled: 11/08/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/09/94
Reported: 11/09/94

Attention: CGalantine/DVossler

GC Batch Number: GC1109948BTEXEXA
Instrument ID: GCHP-18

BTEX Distinction

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.011

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-2
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411490-03

Sampled: 11/08/94
Received: 11/08/94
Extracted: 11/08/94
Analyzed: 11/09/94
Reported: 11/09/94

Attention: CGalantine/DVossler

Instrument ID: GCHP5A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	93

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



**Sequoia
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Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UW-1
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411490-04

Sampled: 11/08/94
Received: 11/08/94
Extracted: 11/08/94
Analyzed: 11/09/94
Reported: 11/09/94

Attention: CGalantine/DVossler

Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte

Detection Limit
mg/Kg

Sample Results
mg/Kg

TEPH as Diesel
Chromatogram Pattern:

1.0

N.D.

Surrogates
n-Pentacosane (C25)

Control Limits %
50 150

% Recovery
95

Results reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UW-1
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411490-04

Sampled: 11/08/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/09/94
Reported: 11/09/94

Attention: CGalantine/DVossler

GC Batch Number: GC110994BTEXEXA
Instrument ID: GCHP-07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.

Chromatogram Pattern:

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	80

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrix: Solid
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler Work Order #: 9411490 -01, 03, 04 Reported: Nov 10, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: GC1108940HBTEXA
Analy. Method: EPA 8015 Mod.
Prep. Method: EPA 3550

Analyst: B.All
MS/MSD #: 9411216-9
Sample Conc.: 27
Prepared Date: 11/8/94
Analyzed Date: 11/9/94
Instrument I.D.#: GCHP5B
Conc. Spiked: 15 mg/kg

Result: 37.3
MS % Recovery: 67

Dup. Result: 28.4
MSD % Recov.: 9.3

RPD: 27
RPD Limit:

LCS #: BLK110894
Prepared Date: 11/8/94
Analyzed Date: 11/9/94
Instrument I.D.#: GCHP4B
Conc. Spiked: 15 mg/kg
LCS Result: 9.9
LCS % Recov.: 66

MS/MSD 28-122
LCS
Control Limits

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.



Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrxc: Solid
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler Work Order #: 9411490 -01 -04 Reported: Nov 10, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC110994BTEXEXA	GC110994BTEXEXA	GC110994BTEXEXA	GC110994BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R.Geckler	R.Geckler	R.Geckler	R.Geckler
MS/MSD #:	G9411380-1	G9411380-1	G9411380-1	G9411380-1
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/9/94	11/9/94	11/9/94	11/9/94
Analyzed Date:	11/9/94	11/9/94	11/9/94	11/9/94
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.18	0.19	0.19	0.57
MS % Recovery:	90	95	95	95
Dup. Result:	0.19	0.19	0.19	0.57
MSD % Recov.:	95	95	95	95
RPD:	5.4	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

T.O.
Todd Olive
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411490.EEE <2>



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Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Project ID: Unocal #7176, Dublin
Matrix: Solid

Attention: C. Galantine/D. Vossler Work Order #: 9411490 - 04

Reported: Nov 10, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte: Total Recoverable
Petroleum Hyd.

QC Batch#: OP1108945520EXA
Analy. Method: SM5520EF
Prep. Method:

Analyst: A.Pina
MS/MSD #: 9411219-01
Sample Conc.: N.D.
Prepared Date: 11/8/94
Analyzed Date: 11/9/94
Instrument I.D.#: MANUAL
Conc. Spiked: 1000 mg/kg

Result: 1000
MS % Recovery: 100

Dup. Result: 1100
MSD % Recov.: 110

RPD: 9.5
RPD Limit: 0-50

LCS #: BLK110894

Prepared Date: 11/8/94
Analyzed Date: 11/9/94
Instrument I.D.#: MANUAL
Conc. Spiked: 1000 mg/kg

LCS Result: 940
LCS % Recov.: 94

MS/MSD 60-140
LCS 70-110
Control Limits

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


Todd Otive
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411490.EEE <3>

Company Name: <u>Enviros</u>			Project Name: <u>Unocal # 7176</u>		
Address: <u>P.O. Box 259</u>			UNOCAL Project Manager: <u>Ed Ralston</u>		
City: <u>Sonoma</u>	State: <u>CA</u>	Zip Code: <u>95476</u>	Release #:		
Telephone: <u>707-935-4850</u>		FAX #: <u>707-935-4855</u>		Site #: <u>7850 Amador Valley Rd Dublin</u>	
Report To: <u>C Galantino/DV. Syster</u>		Sampler: <u>Clyde Galantino</u>		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Work Days 5 Work Days 3 Work Days
 Time: 2 Work Days 1 Work Day 2-8 Hours
 CODE: Misc. Detect. Eval. Remed. Demol. Closure

Drinking Water Waste Water Other
 Analyses Requested:

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested							Comments	
						TPH-G	BTEX	TPH-D	O&G	SS20	8240	8270		ICAPS metal
1. <u>UT-1</u>	<u>11/8/94 3:45</u>	<u>Soil</u>	<u>1</u>	<u>tube</u>		X	X							<u>9411490-01</u>
2. <u>UT-3</u>	<u>11/8/94 4:10</u>	<u>''</u>	<u>1</u>	<u>''</u>		X								<u>-02</u>
3.														
4. <u>UX-2</u>	<u>11/8/94 4:30</u>	<u>''</u>	<u>1</u>	<u>''</u>			X					X		<u>-03</u>
5.														
6. <u>UW-1</u>	<u>11/8/94 3:30</u>	<u>''</u>	<u>1</u>	<u>''</u>		X	X	X	X	X	X			<u>-04 Run 8240, 8270, ICAP on 5 Day TAT (Normal)</u>
7.														
8.														
9.														
10.														<u>11-0</u>

Relinquished By: <u>Clyde Galantino</u>	Date: <u>11/8/94</u>	Time: <u>18:15</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>Shannell</u>	Date: <u>11-8-94</u>	Time: <u>18:15</u>

Were Samples Received in Good Condition? Yes No
 Samples on Ice? Yes No
 Method of Shipment: _____
 Page ___ of ___

To be completed upon receipt of report:
 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____
 Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Laboratory

White - Laboratory



Sequoia Analytical

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RECEIVED
NOV 18 1994

Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin

Sampled: 11/08/94

Received: 11/08/94

Analyzed: see below

Lab Proj. ID: 9411491

Attention: CGalantine/DVossler

Reported: 11/15/94

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9411491-01				
Sample Desc: SOLID, UW-1				
Cadmium	mg/Kg	11/09/94	0.50	0.56
Chromium	mg/Kg	11/09/94	0.50	35
Lead	mg/Kg	11/09/94	5.0	N.D.
Nickel	mg/Kg	11/09/94	2.5	39
Zinc	mg/Kg	11/09/94	0.50	37

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UW-1
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9411491-01

Sampled: 11/08/94
Received: 11/08/94
Extracted: 11/11/94
Analyzed: 11/11/94
Reported: 11/15/94

Attention: CGalantine/DVossler

JC Batch Number: MS1109948240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	100	N.D.



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Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UW-1
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9411491-01


Sampled: 11/08/94
Received: 11/08/94
Extracted: 11/11/94
Analyzed: 11/11/94
Reported: 11/15/94

QC Batch Number: MS1109948240EXA
Instrument ID: F3

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	70	121
Toluene-d8	81	117
4-Bromofluorobenzene	74	121

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UW-1
Matrix: SOLID
Analysis Method: EPA 8270
Lab Number: 9411491-01

Sampled: 11/08/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/10/94
Reported: 11/15/94

Attention: CGalantine/DVossler

QC Batch Number: MS1107948270EXA
Instrument ID: F4

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
4-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
4-Chloro-3-methylphenol	250	N.D.
2-Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Dibenzo(a,h)anthracene	250	N.D.
Dibenzofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
2,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.



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Enviros
 19411 Riverside Dr.
 Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
 Sample Descript: UW-1
 Matrix: SOLID
 Analysis Method: EPA 8270
 Lab Number: 9411491-01

Sampled: 11/08/94
 Received: 11/08/94
 Extracted: 11/09/94
 Analyzed: 11/10/94
 Reported: 11/15/94

QC Batch Number: MS1107948270EXA
 Instrument ID: F4

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,4-Dinitrotoluene	250	N.D.
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
2-Methylphenol	250	N.D.
4-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	74
Phenol-d5	24	113	73
Nitrobenzene-d5	23	120	71
2-Fluorobiphenyl	30	115	60
2,4,6-Tribromophenol	19	122	61
p-Terphenyl-d14	18	137	67

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
 Project Manager



Sequoia Analytical

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Enviros Client Project ID: **Unocal #7176, Dublin**
19411 Riverside Dr. Matrix: **Solid**
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler Work Order #: **9411491 01** Reported: **Nov 16, 1994**

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1109946010MD	ME1109946010MD	ME1109946010MD	ME1109946010MD
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	941149101	941149101	941149101	941149101
Sample Conc.:	N.D.	0.56	35	39
Prepared Date:	11/9/94	11/9/94	11/9/94	11/9/94
Analyzed Date:	11/9/94	11/9/94	11/9/94	11/9/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	110	110	140	140
MS % Recovery:	110	110	105	101
Dup. Result:	110	110	130	130
MSD % Recov.:	110	110	95	91
RPD:	0.0	0.0	7.4	7.4
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK110994	BLK110994	BLK110994	BLK110994
Prepared Date:	11/9/94	11/9/94	11/9/94	11/9/94
Analyzed Date:	11/9/94	11/9/94	11/9/94	11/9/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	100	100	100	100
LCS % Recov.:	100	100	100	100

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


Todd Olive
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411491.EEE <1>



Sequoia Analytical

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Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrix: Solid
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler Work Order #: 9411491 01
Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS1109948240EXA	MS1109948240EXA	MS1109948240EXA	MS1109948240EXA	MS1109948240EXA
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240

Analyst:	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	941149204	941149204	941149204	941149204	941149204
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/9/94	11/9/94	11/9/94	11/9/94	11/9/94
Analyzed Date:	11/10/94	11/10/94	11/10/94	11/10/94	11/10/94
Instrument I.D.#:	F2	F2	F2	F2	F2
Conc. Spiked:	2500 µg/kg	2500 µg/kg	2500 µg/kg	2500 µg/kg	2500 µg/kg
Result:	1800	2100	2400	2200	2200
MS % Recovery:	72	84	96	88	88
Dup. Result:	2000	2100	2400	2200	2200
MSD % Recov.:	80	84	96	88	88
RPD:	11	0.0	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	DL-234	71-157	37-151	47-150	37-160
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Please Note:

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL

TOD
Todd Olive
Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrbc Solid
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler Work Order #: 9411491 01 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550

Analyst:	L Duong	L Duong	L Duong	L Duong
MS/MSD #:	941103709	941103709	941103709	941103709
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/7/94	11/7/94	11/7/94	11/7/94
Analyzed Date:	11/7/94	11/7/94	11/7/94	11/7/94
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	5000 µg/kg	5000 µg/kg	5000 µg/kg	5000 µg/kg
Result:	3200	3300	3000	3900
MS % Recovery:	64	66	60	78
Dup. Result:	3200	3300	3100	4000
MSD % Recov.:	64	66	62	80
RPD:	0.0	0.0	3.3	2.5
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	5-112	23-134	20-124	DL-230
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Please Note:

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** MS = Matrix Spikes, MSD = MS Duplicates, RPD = Relative % Difference

SEQUOIA ANALYTICAL

TOD
Todd Olive
Project Manager



Enviros Client Project ID: **Unocal #7176, Dublin**
 19411 Riverside Dr. Matrbc: **Solid**
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: **9411491 01** Reported: **Nov 16, 1994**

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol	Acenaphthene	N-Nitrophenol
QC Batch#:	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550

Analyst:	L Duong	L Duong	L Duong	L Duong
MS/MSD #:	941103709	941103709	941103709	941103709
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/7/94	11/7/94	11/7/94	11/7/94
Analyzed Date:	11/7/94	11/7/94	11/7/94	11/7/94
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	5000 µg/kg	5000 µg/kg	5000 µg/kg	5000 µg/kg
Result:	3200	3500	3000	3400
MS % Recovery:	64	70	60	68
Dup. Result:	3300	3500	3000	3300
MSD % Recov.:	66	70	60	66
RPD:	3.1	0.0	0.0	3.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

MS/MSD LCS Control Limits	44-142	22-147	47-145	DL-132
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SEQUOIA ANALYTICAL

T.O.
 Todd Olive
 Project Manager

Please Note:

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** MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference





Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrbc: Solid
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: 9411491 01 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro- toluene	Pentachloro- phenol	Pyrene
QC Batch#:	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550

Analyst:	L. Duong	L. Duong	L. Duong
MS/MSD #:	941103709	941103709	941103709
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	11/7/94	11/7/94	11/7/94
Analyzed Date:	11/7/94	11/7/94	11/7/94
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	5000 µg/kg	5000 µg/kg	5000 µg/kg
Result:	3300	3100	3400
MS % Recovery:	66	62	68
Dup. Result:	3400	3100	3300
MSD % Recov.:	68	62	66
RPD:	3.0	0.0	3.0
RPD Limit:	0-50	0-50	0-50

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

MS/MSD LCS Control Limits	39-139	14-176	52-115
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Please Note:

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** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

T.O.
 Todd Olive
 Project Manager



Company Name: <u>Enviros</u>			Project Name: <u>Unocal # 7176</u>		
Address: <u>P.O. Box 259</u>			UNOCAL Project Manager: <u>Ed Ralston</u>		
City: <u>Sonoma</u>	State: <u>CA</u>	Zip Code: <u>95476</u>	Release #:		
Telephone: <u>707-935-4850</u>		FAX #: <u>707-935-4855</u>	Site #: <u>7850 Amador Valley Rd Dublin</u>		
Report To: <u>C Galantine/D Vossler</u>		Sampler: <u>Clyde Galantine</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Work Days 5 Work Days 3 Work Days
 Time: 2 Work Days 1 Work Day 2-8 Hours
 CODE: Misc. Detect. Eval. Remed. Demol. Closure

Drinking Water **Analyses Requested**
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested							Comments		
						TPH-G, BTEX	TPH-D	OTG 5520	8240	8270	ICAPS metal	BTEX			
1. <u>UT-1</u>	<u>11/8/94 3:45</u>	<u>Soil</u>	<u>1</u>	<u>tube</u>		X	X								
2. <u>UT-3</u>	<u>11/8/94 4:10</u>	<u>"</u>	<u>1</u>	<u>"</u>		X									
3.															
4. <u>UX-2</u>	<u>11/8/94 4:30</u>	<u>"</u>	<u>1</u>	<u>"</u>			X				X				
5.															
6. <u>UW-1</u>	<u>11/8/94 3:30</u>	<u>"</u>	<u>1</u>	<u>"</u>		X	X	X	X	X	X				
7.															
8.															
9.															
10.															

Relinquished By: <u>Clyde Galantine</u>	Date: <u>11/8/94</u>	Time: <u>18:15</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: <u>Shannan</u>	Date: <u>11/8/94</u>	Time: <u>18:15</u>

Were Samples Received in Good Condition? Yes No
 Samples on Ice? Yes No
 Method of Shipment: _____
 Page ___ of ___

To be completed upon receipt of report:
 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____
 Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
 Yellow - Laboratory
 White - Laboratory



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RECEIVED
NOV 18 1994

Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin

Lab Proj. ID: 9411492

Sampled: 11/07/94
Received: 11/08/94
Analyzed: see below

Attention: CGalantine/DVossler

Reported: 11/16/94

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No:	9411492-04			
Sample Desc:	SOLID,UOW-1			
Cadmium	mg/Kg	11/09/94	0.50	N.D.
Chromium	mg/Kg	11/09/94	0.50	31
Lead	mg/Kg	11/09/94	5.0	7.1
Nickel	mg/Kg	11/09/94	2.5	35
TRPH (SM 5520 E&F)	mg/Kg	11/09/94	50	N.D.
Zinc	mg/Kg	11/09/94	0.50	35

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UT-2
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411492-01

Sampled: 11/07/94
Received: 11/08/94
Extracted: 11/11/94
Analyzed: 11/15/94
Reported: 11/16/94

Attention: CGalantine/DVossler

Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	50	1300
Chromatogram Pattern:		Diesel

Surrogates	Control Limits %	% Recovery
Pentacosane (C25)	50 150	0 Q

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UT-2
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411492-01

Sampled: 11/07/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/09/94
Reported: 11/16/94

GC Batch Number: GC110994BTEXEXA
Instrument ID: GCHP-18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	20	100
Benzene	0.10	N.D.
Toluene	0.10	N.D.
Ethyl Benzene	0.10	N.D.
Xylenes (Total)	0.10	0.13
Chromatogram Pattern: Non Gas Mix		>C8

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	101

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UT-4
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411492-02

Sampled: 11/07/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/09/94
Reported: 11/16/94

Batch Number: GC110994BTEXEXA
Instrument ID: GCHP-18


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	500	2200
Benzene	2.5	N.D.
Toluene	2.5	26
Ethyl Benzene	2.5	36
Xylenes (Total)	2.5	300
Chromatogram Pattern: Weathered Gas		C7-C12

Surrogates	Control Limits %	% Recovery
1,1-Difluorotoluene	70 130	101

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-1
Matrix: SOLID
Analysis Method: EPA 8020
Lab Number: 9411492-03

Sampled: 11/07/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/09/94
Reported: 11/16/94

GC Batch Number: GC110994BTEXEXA
Instrument ID: GCHP-18

BTEX Distinction

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Benzene	0.10	0.98
Toluene	0.10	1.8
Ethyl benzene	0.10	2.7
Xylenes (Total)	0.10	3.4

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	222 Q

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-1
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411492-03

Sampled: 11/07/94
Received: 11/08/94
Extracted: 11/11/94
Analyzed: 11/15/94
Reported: 11/16/94

Instrument ID: GCHP4A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	500	9100 Diesel

Surrogates	Control Limits %	% Recovery
Pentacosane (C25)	50 150	0 Q

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UOW-1
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9411492-04

Sampled: 11/07/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/11/94
Reported: 11/16/94

GC Batch Number: MS1109948240EXA
Instrument ID: F2

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
1-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
2-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	100	N.D.



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Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UOW-1
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9411492-04

Sampled: 11/07/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/11/94
Reported: 11/16/94

Batch Number: MS1109948240EXA
Instrument ID: F2

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.

Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	70	80
Toluene-d8	81	91
4-Bromofluorobenzene	74	86

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UOW-1
Matrx: SOLID
Analysis Method: EPA 8270
Lab Number: 9411492-04

Sampled: 11/07/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/10/94
Reported: 11/16/94

Batch Number: MS1107948270EXA
Instrument ID: F4

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
1-Chloronaphthalene	250	N.D.
1-Chloro-3-methylphenol	250	N.D.
2-Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Fluorene	250	N.D.
Fluoranthene	250	N.D.
Fluoranthene	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
1,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
2,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
2,6-Dinitro-2-methylphenol	500	N.D.
4-Dinitrophenol	500	N.D.



Sequoia Analytical

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Enviros 19411 Riverside Dr. Sonoma, CA 95476 Attention: CGalantine/DVossler	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UOW-1 Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9411492-04	Sampled: 11/07/94 Received: 11/08/94 Extracted: 11/09/94 Analyzed: 11/10/94 Reported: 11/16/94
--	---	--


QC Batch Number: MS1107948270EXA
Instrument ID: F4

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
1,4-Dinitrotoluene	250	N.D.
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
1-Methylnaphthalene	250	N.D.
1-Methylphenol	250	N.D.
4-Methylphenol	250	N.D.
Naphthalene	250	N.D.
1-Nitroaniline	500	N.D.
2-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
1-Nitrophenol	250	N.D.
2-Nitrophenol	500	N.D.
N-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
1,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	66
Phenol-d5	24	113	77
Nitrobenzene-d5	23	120	66
2-Fluorobiphenyl	30	115	65
2,4,6-Tribromophenol	19	122	61
1-Terphenyl-d14	18	137	65

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UOW-1
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411492-04

Sampled: 11/07/94
Received: 11/08/94
Extracted: 11/11/94
Analyzed: 11/14/94
Reported: 11/16/94

Attention: CGalantine/DVossler

Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.

Surrogates	Control Limits %	% Recovery
Pentacosane (C25)	50 150	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UOW-1
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411492-04

Sampled: 11/07/94
Received: 11/08/94
Extracted: 11/09/94
Analyzed: 11/09/94
Reported: 11/16/94

Attention: CGalantine/DVossler

GC Batch Number: GC110994BTEXEXA
Instrument ID: GCHP-18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Swiros
19411 Riverside Dr.
Sonoma, CA 95476
Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin

Received: 11/08/94

Lab Proj. ID: 9411492

Reported: 11/16/94

LABORATORY NARRATIVE

Q- Diesel surrogate was diluted below detection limit.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476
Attention: C Galantine/D Vossler

Client Project ID: Unocal #7176, Dublin
Matrix: Solid

Work Order #: 9411492 -04

Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1109946010MD	ME1109946010MD	ME1109946010MD	ME1109946010MD
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	94114911	94114911	94114911	94114911
Sample Conc.:	N.D.	0.56	35	39
Prepared Date:	11/9/94	11/9/94	11/9/94	11/9/94
Analyzed Date:	11/9/94	11/9/94	11/9/94	11/9/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	110	110	140	140
MS % Recovery:	110	110	105	101
Dup. Result:	110	110	130	130
MSD % Recov.:	110	110	95	91
RPD:	0.0	0.0	7.4	7.4
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK110994	BLK110994	BLK110994	BLK110994
Prepared Date:	11/9/94	11/9/94	11/9/94	11/9/94
Analyzed Date:	11/9/94	11/9/94	11/9/94	11/9/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	100	100	100
LCS % Recov.:	100	100	100	100

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

Please Note:

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SEQUOIA ANALYTICAL


Todd Olive
Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrix: Solid
Sonoma, CA 95476
Attention: C Galantine/D Vossler Work Order #: 9411492 -04 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte: TRPH

QC Batch#: OP1108945520EXA
Analy. Method: SM 5520 EF
Prep. Method: N/A

Analyst: A. Pina
MS/MSD #: 941121901
Sample Conc.: N.D.
Prepared Date: 11/8/94
Analyzed Date: 11/9/94
Instrument I.D.#: Manual
Conc. Spiked: 1000mg/Kg

Result: 1000
MS % Recovery: 100

Dup. Result: 1100
MSD % Recov.: 110

RPD: 9.5
RPD Limit: 50

LCS #: BLK110894

Prepared Date: 11/8/94
Analyzed Date: 11/9/94
Instrument I.D.#: Manual
Conc. Spiked: 1000mg/Kg

LCS Result: 940
LCS % Recov.: 94

MS/MSD 60-140
LCS 70-110
Control Limits

Please Note:

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SEQUOIA ANALYTICAL

Todd Olive
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411492.EEE <2>



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Project ID: Unocal #7176, Dublin
Matrix: Solid

Attention: C Galantine/D Vossler

Work Order #: 9411492 -01-04

Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
GC Batch#:	GC110994BTEXEXA	GC110994BTEXEXA	GC110994BTEXEXA	GC110994BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	G94113801	G94113801	G94113801	G94113801
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/9/94	11/9/94	11/9/94	11/9/94
Analyzed Date:	11/9/94	11/9/94	11/9/94	11/9/94
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg

Result:	0.18	0.19	0.19	0.57
MS % Recovery:	90	95	95	95

Dup. Result:	0.19	0.19	0.19	0.57
MSD % Recov.:	95	95	95	95

RPD:	5.4	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD					
LCS	71-133	72-128	72-130	71-120	L
Control Limits	55-145	47-149	47-155	56-140	S

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

T.O.
Todd Olive
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9411492.EEE <3>



Enviros
19411 Riverside Dr.
Sonoma, CA 95476
Attention: C Galantine/D Vossler

Client Project ID: Unocal #7176, Dublin
Matrix: Solid

Work Order #: 9411492 -01, 03, 04

Reported: Nov 17, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC1111940HBPEXA
Analy. Method: EPA 8015 Mod.
Prep. Method:

Analyst: N.Herrera
MS/MSD #:
Sample Conc.:
Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

Result:
MS % Recovery:

Dup. Result:
MSD % Recov.:

RPD:
RPD Limit:

LCS #: BLK111194BS

Prepared Date: 11/11/94
Analyzed Date: 11/11/94
Instrument I.D.#: GCHP5B
Conc. Spiked: 15 mg/kg

LCS Result: 12.7
LCS % Recov.: 85

MS/MSD
LCS 28-122
Control Limits

Please Note:

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SEQUOIA ANALYTICAL


Todd Olive
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411492.EEE <4>



Enviros Client Project ID: **Unocal #7176, Dublin**
19411 Riverside Dr. Matrxc: **Solid**
Sonoma, CA 95476
Attention: C Galantine/D Vossler Work Order #: **9411492 -04** Reported: **Nov 17, 1994**

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS1109948240EXA	MS1109948240EXA	MS1109948240EXA	MS1109948240EXA	MS1109948240EXA
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:	8240	8240	8240	8240	8240

Analyst:	B.P.	B.P.	B.P.	B.P.	B.P.
MS/MSD #:	941149204	941149204	941149204	941149204	941149204
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/9/94	11/9/94	11/9/94	11/9/94	11/9/94
Analyzed Date:	11/10/94	11/10/94	11/10/94	11/10/94	11/10/94
Instrument I.D.#:	F2	F2	F2	F2	F2
Conc. Spiked:	2500 ug/kg	2500 ug/kg	2500 ug/kg	2500 ug/kg	2500 ug/kg
Result:	1800	2100	2400	2200	2200
MS % Recovery:	72	84	96	88	88
Dup. Result:	2000	2100	2400	2200	2200
MSD % Recov.:	80	84	96	88	88
RPD:	11	0.0	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	DL-234	71-157	37-151	47-150	37-160
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Please Note:

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL

T.O.
Todd Olive
Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrix: Solid
Sonoma, CA 95476
Attention: C Galantine/D Vossler Work Order #: 9411492 -04 Reported: Nov 17, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3350	EPA 3350	EPA 3350	EPA 3350

Analyst:	LDuong	LDuong	LDuong	LDuong
MS/MSD #:	9411037-09	9411037-09	9411037-09	9411037-09
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/7/94	11/7/94	11/7/94	11/7/94
Analyzed Date:	11/7/94	11/7/94	11/7/94	11/7/94
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	5000 ug/kg	5000 ug/kg	5000 ug/kg	5000 ug/kg

Result:	3200	3300	3000	3900
MS % Recovery:	64	66	60	78

Dup. Result:	3200	3300	3100	4000
MSD % Recov.:	64	66	62	80

RPD:	0.0	0.0	3.3	2.5
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	5-112	23-134	20-124	DL-230

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Todd Olive
Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrix: Solid
Sonoma, CA 95476
Attention: C Galantine/D Vossler Work Order #: 9411492 -04 Reported: Nov 17, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol	Acenaphthene	N-Nitrophenol
QC Batch#:	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3350	EPA 3350	EPA 3350	EPA 3350

Analyst:	L.Duong	L.Duong	L.Duong	L.Duong
MS/MSD #:	9411037-09	9411037-09	9411037-09	9411037-09
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/7/94	11/7/94	11/7/94	11/7/94
Analyzed Date:	11/7/94	11/7/94	11/7/94	11/7/94
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	5000 ug/kg	5000 ug/kg	5000 ug/kg	5000 ug/kg
Result:	3200	3500	3000	3400
MS % Recovery:	64	70	60	68
Dup. Result:	3300	3500	3000	3300
MSD % Recov.:	66	70	60	66
RPD:	3.1	0.0	0.0	3.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	44-142	22-147	47-145	DL-132
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Please Note:

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** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

T.O.
Todd Olive
Project Manager



Enviros Client Project ID: **Unocal #7176, Dublin**
19411 Riverside Dr. Matrxc: **Solid**
Sonoma, CA 95476
Attention: C Galantine/D Vossler Work Order #: **9411492 -04** Reported: **Nov 17, 1994**

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3350	EPA 3350	EPA 3350

Analyst:	LDuong	LDuong	LDuong
MS/MSD #:	9411037-09	9411037-09	9411037-09
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	11/7/94	11/7/94	11/7/94
Analyzed Date:	11/7/94	11/7/94	11/7/94
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	5000 ug/kg	5000 ug/kg	5000 ug/kg

Result:	3300	3100	3400
MS % Recovery:	66	62	68

Dup. Result:	3400	3100	3300
MSD % Recov.:	68	62	66

RPD:	3.0	0.0	3.0
RPD Limit:	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS	39-139	14-176	52-115
Control Limits			

Please Note:

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL


Todd Olive
Project Manager

Company Name: <u>Enviro</u>		Project Name: <u>Unocal # 7176</u>	
Address: <u>P.O. Box 259</u>		UNOCAL Project Manager: <u>Ed Ralston</u>	
City: <u>Sonoma</u>	State: <u>CA</u>	Zip Code: <u>95476</u>	Release #:
Telephone: <u>707-935-4850</u>		FAX #: <u>707-935-4855</u>	Site #: <u>7850 Amador Valley Rd, Dublin</u>
Report To: <u>CBalantine/D. Vossler</u>	Sampler: <u>Clyde Galantine</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround <input type="checkbox"/> 10 Work Days <input checked="" type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days	<input type="checkbox"/> Drinking Water
Time: <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours	<input type="checkbox"/> Waste Water
CODE: <input type="checkbox"/> Misc. <input checked="" type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure	<input type="checkbox"/> Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested								Comments	
						TPH/G, BTEX	TPH-D	BTEX	8240	8270	TCAPS metal	016 5520			
1. <u>UT-2</u>	<u>11/7/94 4:00</u>	<u>Soil</u>	<u>1</u>	<u>tube</u>	<u>1 A</u>	X	X								
2. <u>UT-4</u>	<u>11/7/94 4:15</u>	<u>"</u>	<u>1</u>	<u>tube</u>	<u>2</u>	X									
3.															
4. <u>UX-1</u>	<u>11/7/94 4:20</u>	<u>"</u>	<u>1</u>	<u>Tube</u>	<u>3</u>		X	X							
5.															
6. <u>UOW-1</u>	<u>11/7/94 3:15</u>	<u>"</u>	<u>1</u>	<u>tube</u>	<u>4</u>	X	X		X	X	X	X			
7.															
8.															
9.															
10.															<u>10°C</u>

Relinquished By: <u>Clyde Galantine</u>	Date: <u>11/8/94</u>	Time: <u>18:15</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>Stearns</u>	Date: <u>11-8-94</u>	Time: <u>1815</u>

Were Samples Received in Good Condition? Yes No
 Samples on Ice? Yes No
 Method of Shipment _____
 Page ___ of ___

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Pink - Client
 Yellow - Laboratory
 White - Laboratory



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Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-3
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411709-01

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/17/94

GC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	1600
Benzene	0.50	1.6
Toluene	0.50	54
Ethyl Benzene	0.50	24
Xylenes (Total)	0.50	220
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
trifluorotoluene	70 130	101

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviro
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-4
Matrx: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411709-02

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/17/94

GC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-07


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	400	1500
Benzene	2.0	N.D.
Toluene	2.0	11
Ethyl Benzene	2.0	16
Xylenes (Total)	2.0	160
Chromatogram Pattern: Weathered Gas		C6-C12

Surrogates	Control Limits %	% Recovery
1,2-Difluorotoluene	70 130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UX-5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411709-03	Sampled: 11/10/94 Received: 11/10/94 Extracted: 11/14/94 Analyzed: 11/14/94 Reported: 11/17/94
Attention: CGalantine/DVossier		

QC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	5.2
Benzene	0.0050	0.021
Toluene	0.0050	0.022
Ethyl Benzene	0.0050	0.030
Xylenes (Total)	0.0050	0.14
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
1,1-difluorotoluene	70 130	88

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-6
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411709-04

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/17/94

Attention: CGalantine/DVossler

GC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	11
Benzene	0.0050	0.011
Toluene	0.0050	0.067
Ethyl Benzene	0.0050	0.046
Xylenes (Total)	0.0050	0.40
Chromatogram Pattern: Weathered Gas		C7-C12

Surrogates	Control Limits %	% Recovery
1,2,4-trifluorotoluene	70 130	82

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-7
Matrb: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411709-05

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/17/94

GC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	2.8
Benzene	0.0050	0.0062
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	0.016
Xylenes (Total)	0.0050	0.16
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-8
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411709-06

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/17/94

Attention: CGalantine/DVossler

QC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-01


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	10	150
Benzene	0.050	0.22
Toluene	0.050	3.5
Ethyl Benzene	0.050	2.1
Xylenes (Total)	0.050	21
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
1,1-Difluorotoluene	70 130	103

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-9
Matrx: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411709-07

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/15/94
Analyzed: 11/15/94
Reported: 11/17/94

GC Batch Number: GC111094OHBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	36 DIESEL

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	83

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-9
Matrx: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411709-07

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/17/94

GC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Table with 4 columns: Analyte, Detection Limit mg/Kg, Sample Results mg/Kg. Rows include TPHH as Gas, Benzene, Toluene, Ethyl Benzene, Xylenes (Total), Chromatogram Pattern: Non Gas Mix, Weathered Gas.

Table with 3 columns: Surrogates, Control Limits %, % Recovery. Row includes Trifluorotoluene with values 70, 130, 94.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Signature of Todd Olive
Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-10
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411709-08

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/15/94
Analyzed: 11/15/94
Reported: 11/17/94

GC Batch Number: GC111094OHBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	75
Chromatogram Pattern:		DIESEL

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	112

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UX-10 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411709-08	Sampled: 11/10/94 Received: 11/10/94 Extracted: 11/14/94 Analyzed: 11/14/94 Reported: 11/17/94
Attention: CGalantine/DVossler		

QC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-06


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	5.0	27
Benzene	0.025	N.D.
Toluene	0.025	0.062
Ethyl Benzene	0.025	0.29
Xylenes (Total)	0.025	0.049
Chromatogram Pattern: Gas & Non Gas Mix		+C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	105

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Todd Olive
 Project Manager



Enviro 19411 Riverside Dr. Sonoma, CA 95476 Attention: CGalantine/DVossler	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UT-5 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9411709-09	Sampled: 11/10/94 Received: 11/10/94 Extracted: 11/15/94 Analyzed: 11/15/94 Reported: 11/17/94
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GC Batch Number: GC111094OHBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	25
Chromatogram Pattern: on Diesel Mix		DIESEL+ <C14

Surrogates	Control Limits %	% Recovery
Pentacosane (C25)	50 150	105

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Todd Olive
 Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UT-5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411709-09	Sampled: 11/10/94 Received: 11/10/94 Extracted: 11/14/94 Analyzed: 11/14/94 Reported: 11/17/94
Attention: CGalantine/DVossler		

QC Batch Number: GC111494BTEXEXA
 Instrument ID: GCHP-01


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	740
Benzene	0.50	N.D.
Toluene	0.50	6.5
Ethyl Benzene	0.50	20
Xylenes (Total)	0.50	110
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Todd Olive
 Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UT-6 Matrix: SOLID Analysis Method: EPA-8015 Mod Lab Number: 9411709-10	Sampled: 11/10/94 Received: 11/10/94 Extracted: 11/15/94 Analyzed: 11/15/94 Reported: 11/17/94
Attention: CGalantine/DVossler		

QC Batch Number: GC111094OHBPEXB
Instrument ID: GCHP5A

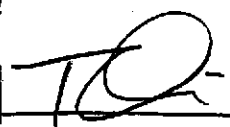
Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Non Diesel Mix	1.0	1.1 C9-C21

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UT-6 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411709-10	Sampled: 11/10/94 Received: 11/10/94 Extracted: 11/14/94 Analyzed: 11/14/94 Reported: 11/17/94
Attention: CGalantine/DVossler		

GC Batch Number: GC111494BTEXEXA
 Instrument ID: GCHP-01


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.0070
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Todd Olive
 Project Manager



Enviros Client Project ID: **Unocal, #7176, Dublin**
 19411 Riverside Dr. Matrix: **Solid**
 Sonoma, CA 95476
 Attention: C.Galantine/D.Vossler Work Order #: **9411709 -01 - 10** Reported: **Nov 17, 1994**

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC111494BTEXEXA	GC111494BTEXEXA	GC111494BTEXEXA	GC111494BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	5030	5030	5030	5030

Analyst:	R.Geckler	R.Geckler	R.Geckler	R.Geckler
MS/MSD #:	G94111365-02	G94111365-02	G94111365-02	G94111365-02
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.16	0.81	0.20	0.58
MS % Recovery:	80	90	100	97
Dup. Result:	0.16	0.19	0.20	0.59
MSD % Recov.:	80	95	100	98
RPD:	0.0	5.4	0.0	1.7
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140
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SEQUOIA ANALYTICAL

T.O.
 Todd Olive
 Project Manager

Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411709.EEE <1>



Enviros Client Project ID: Unocal, #7176, Dublin
19411 Riverside Dr. Matrix: Solid
Sonoma, CA 95476
Attention: C.Galantine/D.Vossler Work Order #: 9411709 07 - 10 Reported: Nov 17, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: GC1110940HBTEXB
Analy. Method: EPA 8015 Mod.
Prep. Method: 3550

Analyst: B. Ali
MS/MSD #: 9411216-11
Sample Conc.: 6.2
Prepared Date: 11/10/94
Analyzed Date: 11/13/94
Instrument I.D.#: GCHP5
Conc. Spiked: 15 mg/kg

Result: 19
MS % Recovery: 85

Dup. Result: 21
MSD % Recov.: 99

RPD: 10
RPD Limit: 0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD
LCS 28-122
Control Limits

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Company Name: Enviros			Project Name: Unocal #7176		
Address: P.O. Box 259			UNOCAL Project Manager: Ed Ralston		
City: Sonoma	State: CA	Zip Code: 95476	Release #:		
Telephone: 707-935-4850		FAX #: 707-935-4855	Site #: 7850 Adnador Valley Rd, Dublin		
Report To: C Galantine/D Vossler		Sampler: Clyde Galantine		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Work Days 5 Work Days 3 Work Days
 Time: 2 Work Days 1 Work Day 2-8 Hours
CODE: Misc. Detect. Eval. Remed. Demol. Closure

Drinking Water **Analyses Requested**
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested										Comments		
1. UX-3	11/10/94 11:45	soil	1	tube		TPH-G	BTET											9411709-01
2. UX-4	11:50					X												-02
3. UX-5	12:10					X												-03
4. UX-6	12:15					X												-04
5. UX-7	12:30					X												-05
6. UX-8	12:35					X												-06
7. UX-9	12:20					X	X											-07
8. UX-10	12:25					X	X											-08
9. UT-5	12:40					X	X											-09
10. UT-6	12:45					X	X											210-10

Relinquished By: <i>Clyde Galantine</i>	Date: <i>11/10/94</i>	Time: <i>18:10</i>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <i>Guannep</i>	Date: <i>11-10-94</i>	Time: <i>18:10</i>

Were Samples Received in Good Condition? Yes No
 Samples on Ice? Yes No
 Method of Shipment: _____
 Page ___ of ___

To be completed upon receipt of report:
 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____
 Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
 Yellow - Laboratory
 White - Laboratory



**Sequoia
Analytical**

680 Chesapeake Drive
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819 Striker Avenue, Suite 8

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Concord, CA 94520
Sacramento, CA 95834

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(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

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Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin

Sampled: 11/10/94
Received: 11/10/94
Analyzed: see below

Lab Proj. ID: 9411E41

Attention: CGalantine/DVossler

Reported: 11/30/94

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9411E41-01 Sample Desc: SOLID, UX-3				
Lead	mg/Kg	11/24/94	5.0	N.D.
Lab No: 9411E41-02 Sample Desc: SOLID, UX-4				
Lead	mg/Kg	11/24/94	5.0	N.D.
Lab No: 9411E41-03 Sample Desc: SOLID, UX-8				
Lead	mg/Kg	11/24/94	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrix: Solid
 Sonoma, CA 95476
 Attention: C.Galantine/D. Vossler Work Order #: 9411E41 -01 -03 Reported: Nov 30, 1994

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel	
	EPA 6010	EPA 6010	EPA 6010	EPA 6010	S
QC Batch#:	ME1123946010MDB	ME1123946010MDB	ME1123946010MDB	ME1123946010MDB	
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	L
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050	

Analyst:	C.Medefesser	C.Medefesser	C.Medefesser	C.Medefesser
MS/MSD #:	9411E86-1	9411E86-1	9411E86-1	9411E86-1
Sample Conc.:	N.D.	0.81	21	27
Prepared Date:	11/23/94	11/23/94	11/23/94	11/23/94
Analyzed Date:	11/24/94	11/24/94	11/24/94	11/24/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	99	95	110	120
MS % Recovery:	99	94	89	93
Dup. Result:	98	94	110	110
MSD % Recov.:	98	93	89	83
RPD:	1.0	1.1	0.0	8.7
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK112394	BLK112394	BLK112394	BLK112394
Prepared Date:	11/23/94	11/23/94	11/23/94	11/23/94
Analyzed Date:	11/24/94	11/24/94	11/24/94	11/24/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	100	99	100	100
LCS % Recov.:	100	99	100	100

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

T.O.
 Todd Olive
 Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411E41.EEE <1>



UNOCAL 76

- 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
- 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-1111
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
- East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9249
- 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600
- 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: <u>Enviros</u>			Project Name: <u>Unocal #7176</u>		
Address: <u>P.O. Box 259</u>			UNOCAL Project Manager: <u>Ed Ralston</u>		
City: <u>Sonoma</u>	State: <u>CA</u>	Zip Code: <u>95476</u>	Release #:		
Telephone: <u>707-935-4850</u>		FAX #: <u>707-935-4855</u>	Site #: <u>7850 Adnador Valley Rd, Dublin</u>		
Report To: <u>C Galantue/D Vosler</u>		Sampler: <u>Clyde Galantue</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Work Days 5 Work Days 3 Work Days
 Time: 2 Work Days 1 Work Day 2-8 Hours

CODE: Misc. Detect. Eval. Remed. Demol. Closure

Analyses Requested

Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested										Comments		
1. <u>LX-3</u>	<u>11/10/84 11:45</u>	<u>soil</u>	<u>1</u>	<u>tube</u>		<u>X</u>												<u>9411789-01</u>
2. <u>LX-4</u>	<u>11:50</u>					<u>X</u>												<u>-02</u>
3. <u>LX-5</u>	<u>12:10</u>					<u>X</u>												<u>-03</u>
4. <u>LX-6</u>	<u>12:15</u>					<u>X</u>												<u>-04</u>
5. <u>LX-7</u>	<u>12:30</u>					<u>X</u>												<u>-05</u>
6. <u>LX-8</u>	<u>12:35</u>					<u>X</u>												<u>-06</u>
7. <u>LX-9</u>	<u>12:20</u>					<u>X</u>	<u>X</u>											<u>-07</u>
8. <u>LX-10</u>	<u>12:25</u>					<u>X</u>	<u>X</u>											<u>-08</u>
9. <u>UT-5</u>	<u>12:40</u>					<u>X</u>	<u>X</u>											<u>-09</u>
10. <u>UT-6</u>	<u>12:45</u>					<u>X</u>	<u>X</u>											<u>21°C -10</u>

Relinquished By: <u>Clyde Galantue</u>	Date: <u>11/10/84</u>	Time: <u>18:10</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>Suzanne</u>	Date: <u>11-10-84</u>	Time: <u>1810</u>

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Laboratory
White - Laboratory



RECEIVED
DEC 08 1994

Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UT-7
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 941106-01

Sampled: 11/30/94
Received: 11/30/94
Extracted: 12/02/94
Analyzed: 12/02/94
Reported: 12/07/94

Attention: CGalantine/DVossler

QC Batch Number: GC1129940HBPEXB
Instrument ID: GCHP5A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	50
Chromatogram Pattern: Non Diesel Mix		C9-C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	122

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UT-7 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411106-01	Sampled: 11/30/94 Received: 11/30/94 Extracted: 12/02/94 Analyzed: 12/02/94 Reported: 12/07/94
Attention: CGalantine/DVossler		

QC Batch Number: GC120294BTEXEXA
Instrument ID: GCHP-18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	1300
Benzene	0.50	N.D.
Toluene	0.50	31
Ethyl Benzene	0.50	26
Xylenes (Total)	0.50	150
Chromatogram Pattern: Weathered Gas		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	111

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UT-8
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411106-02

Sampled: 11/30/94
Received: 11/30/94
Extracted: 12/02/94
Analyzed: 12/02/94
Reported: 12/07/94

Attention: CGalantine/DVossler

QC Batch Number: GC1130940HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	24
Chromatogram Pattern: Non Diesel Mix		C9-C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	126

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UT-8
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411106-02

Sampled: 11/30/94
Received: 11/30/94
Extracted: 12/02/94
Analyzed: 12/02/94
Reported: 12/07/94

Attention: CGalantine/DVossler

QC Batch Number: GC120294BTEXEXA
Instrument ID: GCHP-18


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	25	180
Benzene	0.12	N.D.
Toluene	0.12	3.8
Ethyl Benzene	0.12	3.0
Xylenes (Total)	0.12	19
Chromatogram Pattern: Weathered Gas		C7-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UT-9
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411106-03

Sampled: 11/30/94
Received: 11/30/94
Extracted: 12/02/94
Analyzed: 12/02/94
Reported: 12/07/94

QC Batch Number: GC1130940HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	133

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UT-9 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411106-03	Sampled: 11/30/94 Received: 11/30/94 Extracted: 12/02/94 Analyzed: 12/02/94 Reported: 12/07/94
Attention: CGalantine/DVossler		

QC Batch Number: GC120294BTEXEXA
Instrument ID: GCHP-18


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	25	180
Benzene	0.12	N.D.
Toluene	0.12	N.D.
Ethyl Benzene	0.12	N.D.
Xylenes (Total)	0.12	0.59
Chromatogram Pattern: Weathered Gas		C7-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros 19411 Riverside Dr. Sonoma, CA 95476 Attention: CGalantine/DVossler	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UT-10 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9411106-04	Sampled: 11/30/94 Received: 11/30/94 Extracted: 12/02/94 Analyzed: 12/02/94 Reported: 12/07/94
--	---	--

QC Batch Number: GC1130940HBPEXA
Instrument ID: GCHP5A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	12

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	135

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UT-10 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411106-04	Sampled: 11/30/94 Received: 11/30/94 Extracted: 12/02/94 Analyzed: 12/02/94 Reported: 12/07/94
--	---	--

QC Batch Number: GC120294BTEXEXA
Instrument ID: GCHP-18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	20	140
Benzene	0.10	N.D.
Toluene	0.10	0.62
Ethyl Benzene	0.10	0.84
Xylenes (Total)	0.10	12
Chromatogram Pattern: Weathered Gas		C7-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UT-11 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9411106-05	Sampled: 11/30/94 Received: 11/30/94 Extracted: 12/02/94 Analyzed: 12/02/94 Reported: 12/07/94
--	---	--

QC Batch Number: GC1130940HBPEXA
Instrument ID: GCHP5A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	1.3
Chromatogram Pattern: Non Diesel Mix		C9-C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	122

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UT-11 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411106-05	Sampled: 11/30/94 Received: 11/30/94 Extracted: 12/02/94 Analyzed: 12/02/94 Reported: 12/07/94
--	---	--

QC Batch Number: GC120294BTEXEXA
 Instrument ID: GCHP-18


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	5.1
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	0.014
Xylenes (Total)	0.0050	0.078
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	86

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Todd Olive
 Project Manager





Enviros Client Project ID: Unocal, #7176, Dublin
 19411 Riverside Dr. Matrix: Solid
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: 9411106 -01 - 05 Reported: Dec 7, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC120294BTEXEXA	GC120294BTEXEXA	GC120294BTEXEXA	GC120294BTEXEXA	GC1129940HBPTEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 Mod.
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550

Analyst:	R.Geckler	R.Geckler	R.Geckler	R.Geckler	B.Ali
MS/MSD #:	9411G84-21	9411G84-21	9411G84-21	9411G84-21	9411G37-03
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	12/2/94	12/2/94	12/2/94	12/2/94	
Analyzed Date:	12/2/94	12/2/94	12/2/94	12/2/94	
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg	
Result:	0.20	0.21	0.21	0.62	
MS % Recovery:	100	105	105	103	
Dup. Result:	0.19	0.20	0.20	0.59	
MSD % Recov.:	95	100	100	98	
RPD:	5.1	4.9	4.9	5.0	
RPD Limit:	0-50	0-50	0-50	0-50	

LCS #: BLK122994
 Prepared Date: 11/29/94
 Analyzed Date: 12/2/94
 Instrument I.D.#: GCHP5A
 Conc. Spiked: 15 mg/kg
 LCS Result: 12
 LCS % Recov.: 71

MS/MSD LCS	Control Limits	55-145	47-149	47-155	56-140	38-122
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Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Todd Olive
 Project Manager

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411106.EEE <1>



UNOCAL 76

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☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 ☐ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
☐ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 ☐ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: <u>Enviros</u>			Project Name: <u>Unocal # 7176</u>		
Address: <u>P.O. Box 259</u>			UNOCAL Project Manager: <u>Ed Ralston</u>		
City: <u>Sonoma</u>		State: <u>CA</u>	Zip Code: <u>95476</u>		
Telephone: <u>707-935-4850</u>		FAX #: <u>707-935-4855</u>		Release #:	
Report To: <u>CGalantine/D Vosder</u>		Sampler: <u>Clyde Galantine</u>		Site #: <u>7176 5870 Amador Valley Rd Dublin</u>	
Turnaround <input type="checkbox"/> 10 Work Days <input checked="" type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days		Analyses Requested: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A			
Time: <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours		<input type="checkbox"/> Drinking Water			
CODE: <input type="checkbox"/> Misc. <input checked="" type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure		<input type="checkbox"/> Waste Water			
		<input type="checkbox"/> Other			

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested						Comments
						TPH	BTEX	TPH	TPH	TPH	TPH	
1. <u>UT-7</u>	<u>11/30/94 10:20</u>	<u>Soil</u>	<u>1</u>	<u>tube</u>	<u>9411 F06-41</u>	<u>X</u>	<u>X</u>					
2. <u>UT-8</u>	<u>10:25</u>	<u> </u>	<u> </u>	<u> </u>	<u>-32</u>	<u>X</u>	<u>X</u>					
3. <u>UT-9</u>	<u>10:35</u>	<u> </u>	<u> </u>	<u> </u>	<u>-33</u>	<u>X</u>	<u>X</u>					
4. <u>UT-10</u>	<u>10:40</u>	<u> </u>	<u> </u>	<u> </u>	<u>-04</u>	<u>X</u>	<u>X</u>					
5. <u>UT-11</u>	<u>11:00</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>-05</u>	<u>X</u>	<u>X</u>					
6.												
7.												
8.												<u>1106</u>
9.												
10.												

Relinquished By: <u>Clyde Galantine</u>	Date: <u>11/30/94</u>	Time: <u>1300</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By Lab: <u>[Signature]</u>	Date: <u>11/30/94</u>	Time: <u>1300</u>

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Laboratory
White - Laboratory



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UX-11 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9411A16-01	Sampled: 11/11/94 Received: 11/11/94 Extracted: 11/18/94 Analyzed: 11/18/94 Reported: 11/21/94
Attention: CGalantine/DVossler		

QC Batch Number: GC111894OHBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Non Diesel Mix	1.0	15 <C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	94

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Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-11
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411A16-01

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/17/94
Analyzed: 11/17/94
Reported: 11/21/94

Attention: CGalantine/DVossler

QC Batch Number: GC111794BTEXEXB
Instrument ID: GCHP-18


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	200
Benzene	0.25	N.D.
Toluene	0.25	1.2
Ethyl Benzene	0.25	0.94
Xylenes (Total)	0.25	13
Chromatogram Pattern: Weathered Gas		C7-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-12
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411A16-02

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/18/94
Analyzed: 11/18/94
Reported: 11/21/94

QC Batch Number: GC111894OHBPEXA
Instrument ID: GCHP4B


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Non Diesel Mix	1.0	15
		<C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UX-12 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411A16-02	Sampled: 11/11/94 Received: 11/11/94 Extracted: 11/17/94 Analyzed: 11/17/94 Reported: 11/21/94
Attention: CGalantine/DVossler		

GC Batch Number: GC111794BTEXEXB
Instrument ID: GCHP-18


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	230
Benzene	0.25	N.D.
Toluene	0.25	2.6
Ethyl Benzene	0.25	3.0
Xylenes (Total)	0.25	24
Chromatogram Pattern: Weathered Gas		C7-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-13
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411A16-03

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/18/94
Analyzed: 11/18/94
Reported: 11/21/94

QC Batch Number: GC111894OHBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	1.6
Chromatogram Pattern: Non Diesel Mix		<C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UX-13 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411A16-03	Sampled: 11/11/94 Received: 11/11/94 Extracted: 11/17/94 Analyzed: 11/17/94 Reported: 11/21/94
Attention: CGalantine/DVossler		

QC Batch Number: GC111794BTEXEXB
Instrument ID: GCHP-01


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.0060
Chromatogram Pattern: Weathered Gas		C9-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	75

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros	Client Proj. ID: Unocal #7176, Dublin	Sampled: 11/11/94
19411 Riverside Dr.	Sample Descript: UX-14	Received: 11/11/94
Sonoma, CA 95476	Matrix: SOLID	Extracted: 11/18/94
Attention: CGalantine/DVossler	Analysis Method: EPA 8015 Mod	Analyzed: 11/19/94
	Lab Number: 9411A16-04	Reported: 11/21/94

C Batch Number: GC111894OHBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	16
Chromatogram Pattern: Non Diesel Mix		<C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	97

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UX-14
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411A16-04

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/17/94
Analyzed: 11/17/94
Reported: 11/21/94

QC Batch Number: GC111794BTEXEXB
Instrument ID: GCHP-01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	210
Benzene	0.25	N.D.
Toluene	0.25	0.78
Ethyl Benzene	0.25	0.98
Xylenes (Total)	0.25	9.7
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Project ID: Unocal #7176, Dublin
Matrix: Solid

Attention: C. Galantine/D.Vossler Work Order #: 9411A16 -01

Reported: Nov 21, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC1118940HBPEXA
Analy. Method: EPA 8015 Mod.
Prep. Method: EPA 3550

Analyst: B. Ali
MS/MSD #: 9411A16-3
Sample Conc.: 1.6 mg/kg
Prepared Date: 11/18/94
Analyzed Date: 11/18/94
Instrument I.D.#: GCHP4B
Conc. Spiked: 15 mg/kg

Result: 14
MS % Recovery: 81

Dup. Result: 14
MSD % Recov.: 81

RPD: 0.0
RPD Limit: 0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD 28-122
LCS
Control Limits

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9411A16.EEE <1>





Enviros 19411 Riverside Dr. Sonoma, CA 95476 Attention: C. Galantine/D.Vossler	Client Project ID: Unocal #7176, Dublin Matrix: Solid Work Order #: 9411A16 -01 -04	Reported: Nov 21, 1994
--	--	-------------------------------

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC111794BTEXEXA	GC111794BTEXEXA	GC111794BTEXEXA	GC111794BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	C.Donohue	C.Donohue	C.Donohue	C.Donohue
MS/MSD #:	G9411777-5	G9411777-5	G9411777-5	G9411777-5
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/17/94	11/17/94	11/17/94	11/17/94
Analyzed Date:	11/17/94	11/17/94	11/17/94	11/17/94
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.19	0.20	0.20	0.59
MS % Recovery:	95	100	100	98
Dup. Result:	0.18	0.19	0.19	0.56
MSD % Recov.:	90	95	95	93
RPD:	5.4	5.1	5.1	5.2
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS	55-145	47-149	47-155	56-140
Control Limits				

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

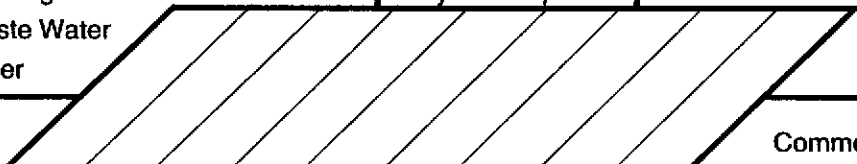
9411A16.EEE <2>



UNOCAL 76

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 15055 S.W. Sequola Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: <u>Enviros</u>			Project Name: <u>Unocal # 7176</u>		
Address: <u>P.O. Box 259</u>			UNOCAL Project Manager: <u>Ed Rakston</u>		
City: <u>Sonoma</u>	State: <u>CA</u>	Zip Code: <u>95476</u>	Release #:		
Telephone: <u>707-935-4850</u>		FAX #: <u>707-935-4855</u>	Site #: <u>7850 Amador Valley Rd Dublin</u>		
Report To: <u>Galantine/DVossler</u>		Sampler: <u>Clyde Galantine</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround <input type="checkbox"/> 10 Work Days <input type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days	<input type="checkbox"/> Drinking Water <input type="checkbox"/> Waste Water <input type="checkbox"/> Other	Analyses Requested 
Time: <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours		
CODE: <input type="checkbox"/> Misc. <input checked="" type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure		

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested										Comments						
1. UX-11	11/11/94 9:25	soil	1	tube	01 A																	HOLD
2. UX-12	9:10	↓	1	↓	02																	11/11
3. UX-13	10:25	↓	1	↓	03																	↓
4. UX-14	10:30	↓	1	↓	04																	↓
5.																						
6.																						9411A16
7.																						
8.																						
9.																						
10.																						

Relinquished By: <u>Clyde Galantine</u>	Date: <u>11/11/94</u>	Time: <u>16:30</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By Lab: <u>[Signature]</u>	Date: <u>11-11-94</u>	Time: <u>1630</u>

Were Samples Received in Good Condition? Yes No
 Samples on Ice? Yes No
 Method of Shipment _____
 Page ___ of ___

To be completed upon receipt of report

1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
 Yellow - Laboratory
 White - Laboratory



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FAX (510) 686-9689
FAX (916) 921-0100

RECEIVED
NOV 18 1994


Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin	Sampled: 11/09/94 Received: 11/09/94 Analyzed: see below
Attention: CGalantine/DVossler	Lab Proj. ID: 9411598	Reported: 11/16/94

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9411598-02 Sample Desc: SOLID,US-2A-D (comp 4)				
Lead	mg/Kg	11/14/94	5.0	N.D.
Lab No: 9411598-03 Sample Desc: SOLID,UWS-1A-D (comp 4)				
Flash Point	Celsius	11/11/94	25	> 100
pH	pH Units	11/10/94	N/A	7.6
TRPH (SM 5520 E&F)	mg/Kg	11/10/94	50	N.D.

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-1A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8020
Lab Number: 9411598-01

Sampled: 11/09/94
Received: 11/09/94
Extracted: 11/10/94
Analyzed: 11/10/94
Reported: 11/16/94

GC Batch Number: GC111094BTEXEXA
Instrument ID: GCHP-06

BTEX Distinction

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Benzene	0.010	N.D.
Toluene	0.010	0.054
Ethyl benzene	0.010	0.072
Xylenes (Total)	0.010	0.63

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-1A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411598-01

Sampled: 11/09/94
Received: 11/09/94
Extracted: 11/11/94
Analyzed: 11/14/94
Reported: 11/16/94

Attention: CGalantine/DVossler

Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	33
Chromatogram Pattern: Non Diesel Mix		<C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476 Attention: CGalantine/DVossler	Client Proj. ID: Unocal #7176, Dublin	Sampled: 11/09/94
	Sample Descript: US-2A-D (comp 4)	Received: 11/09/94
	Matrix: SOLID	Extracted: 11/11/94
	Analysis Method: EPA 8015 Mod	Analyzed: 11/14/94
	Lab Number: 9411598-02	Reported: 11/16/94

Instrument ID: GCHP4A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	3.5
Chromatogram Pattern: Non Diesel Mix		>C14

Surrogates	Control Limits %	% Recovery
1-Pentacosane (C25)	50 150	88

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: US-2A-D (comp 4) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411598-02	Sampled: 11/09/94 Received: 11/09/94 Extracted: 11/10/94 Analyzed: 11/10/94 Reported: 11/16/94
--	--	--

GC Batch Number: GC111094BTEXEXA
Instrument ID: GCHP-06


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	2.3
Benzene	0.0050	N.D.
Toluene	0.0050	0.013
Ethyl Benzene	0.0050	0.0062
Xylenes (Total)	0.0050	0.16
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	79

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager



Micro
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UWS-1A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9411598-03

Sampled: 11/09/94
Received: 11/09/94
Extracted: 11/14/94
Analyzed: 11/15/94
Reported: 11/16/94

QC Batch Number: MS1109948240EXA
Instrument ID: F2

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Ethyl acetate	100	N.D.



Sequoia Analytical

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Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UWS-1A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9411598-03

Sampled: 11/09/94
Received: 11/09/94
Extracted: 11/14/94
Analyzed: 11/15/94
Reported: 11/16/94

GC Batch Number: MS1109948240EXA
Instrument ID: F2

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	70	121	95
Toluene-d8	81	117	103
p-Bromofluorobenzene	74	121	98

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476 Attention: CGalantine/DVossler	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UWS-1A-D (comp 4) Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9411598-03	Sampled: 11/09/94 Received: 11/09/94 Extracted: 11/11/94 Analyzed: 11/14/94 Reported: 11/16/94
--	---	--

QC Batch Number: MS1108948270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
1-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
1-Chloro-3-methylphenol	250	N.D.
2-Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Dibenzo(a,h)anthracene	250	N.D.
Dibenzofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
1,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
1,4-Dinitrophenol	500	N.D.



Sequoia Analytical

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 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UWS-1A-D (comp 4) Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9411598-03	Sampled: 11/09/94 Received: 11/09/94 Extracted: 11/11/94 Analyzed: 11/14/94 Reported: 11/16/94
--	---	--

GC Batch Number: MS1108948270EXA
 Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,4-Dinitrotoluene	250	N.D.
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
1-Methylnaphthalene	250	N.D.
2-Methylphenol	250	N.D.
4-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
3-Nitrophenol	500	N.D.
N-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
1,2,3-Trichlorophenol	500	N.D.
1,2,4-Trichlorophenol	250	N.D.
1,2,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	69
Phenol-d5	24	113	74
Nitrobenzene-d5	23	120	73
2-Fluorobiphenyl	30	115	71
2,4,6-Tribromophenol	19	122	65
1,2,4-Terphenyl-d14	18	137	78

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
 Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UWS-1A-D (comp 4)
Matrix: SOLID
Analysis Method: Title 22
Lab Number: 9411598-03

Sampled: 11/09/94
Received: 11/09/94
Analyzed: 11/15/94
Reported: 11/16/94

Attention: CGalantine/DVossler

Inorganic Persistent and Bioaccumulative Toxic Substances : STLC

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Antimony, Sb	15	0.10	0.12
Arsenic, As	5.0	0.10	N.D.
Barium, Ba	100	0.10	6.1
Beryllium, Be	0.75	0.010	N.D.
Cadmium, Cd	1.0	0.010	N.D.
Chromium, Cr	560	0.010	0.18
Chromium, Cr (VI)	5.0	0.0050	-
Cobalt, Co	80	0.050	0.22
Copper, Cu	25	0.010	0.13
Lead, Pb	5.0	0.10	0.13
Mercury, Hg	0.2	0.00050	N.D.
Molybdenum, Mo	350	0.050	N.D.
Nickel, Ni	20	0.050	0.70
Selenium, Se	1.0	0.050	N.D.
Silver, Ag	5.0	0.010	N.D.
Thallium, Tl	7.0	0.10	N.D.
Vanadium, V	24	0.050	0.30
Zinc, Zn	250	0.010	1.3
Asbestos	--		-
Fluoride salts	180	1.0	-

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: UWS-1A-D (comp 4)
Matrix: SOLID
Analysis Method: Comb
Lab Number: 9411598-03

Sampled: 11/09/94
Received: 11/09/94
Analyzed: 11/11/94
Reported: 11/16/94

Attention: CGalantine/DVossler

QC Batch Number: IN11194084600A

Reactivity

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Reactivity:		
Sulfide	13	N.D.
Cyanide	0.50	N.D.
Reaction with Water		N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UWS-1A-D (comp 4) Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9411598-03	Sampled: 11/09/94 Received: 11/09/94 Extracted: 11/11/94 Analyzed: 11/14/94 Reported: 11/16/94
Attention: CGalantine/DVossler		

Instrument ID: GCHP4A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	96

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: UWS-1A-D (comp 4) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411598-03	Sampled: 11/09/94 Received: 11/09/94 Extracted: 11/10/94 Analyzed: 11/10/94 Reported: 11/16/94
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GC Batch Number: GC111094BTEXEXA
 Instrument ID: GCHP-06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Todd Olive
 Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrix: Solid
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler Work Order #: 9411598 01-03 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC111094BTEXEXA	GC111094BTEXEXA	GC111094BTEXEXA	GC111094BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	C. Donohue	C. Donohue	C. Donohue	C. Donohue
MS/MSD #:	941148406	941148406	941148406	941148406
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/10/94	11/10/94	11/10/94	11/10/94
Analyzed Date:	11/10/94	11/10/94	11/10/94	11/10/94
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20mg/kg	0.20mg/kg	0.20mg/kg	0.60 mg/kg
Result:	0.19	0.19	0.19	0.55
MS % Recovery:	95	95	95	92
Dup. Result:	0.19	0.19	0.19	0.57
MSD % Recov.:	95	95	95	95
RPD:	0.0	0.0	0.0	3.6
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140
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Please Note:

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SEQUOIA ANALYTICAL

TO
Todd Olive
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411598.EEE <1>



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Project ID: Unocal #7176, Dublin
Matrix: Solid

Attention: C. Galantine/D. Vossler Work Order #: 9411598 02

Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1114946010MDC	ME1114946010MDC	ME1114946010MDC	ME1114946010MDC
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	941175804	941175804	941175804	941175804
Sample Conc.:	N.D.	0.54	35	44
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	95	92	130	130
MS % Recovery:	95	91	95	86
Dup. Result:	97	94	130	140
MSD % Recov.:	97	93	95	96
RPD:	2.1	2.2	0.0	7.4
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK111494	BLK111494	BLK111494	BLK111494
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	100	99	100	100
LCS % Recov.:	100	99	100	100

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
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Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrix: Solid
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler Work Order #: 9411598 03 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte: Total Recoverable
Petroleum Hyd.
QC Batch#: OP1108945520EXA
Analy. Method: SM 5520 EF
Prep. Method: -

Analyst: A. Pina
MS/MSD #: 941121901
Sample Conc.: N.D.
Prepared Date: 11/8/94
Analyzed Date: 11/9/94
Instrument I.D.#: MANUAL
Conc. Spiked: 1000 mg/kg

Result: 1000
MS % Recovery: 100

Dup. Result: 1100
MSD % Recov.: 110

RPD: 9.5
RPD Limit: 0-50

LCS #: BLK110894
Prepared Date: 11/8/94
Analyzed Date: 11/9/94
Instrument I.D.#: MANUAL
Conc. Spiked: 1000 mg/kg

LCS Result: 940
LCS % Recov.: 94

MS/MSD 60-140
LCS 70-110
Control Limits

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SEQUOIA ANALYTICAL

Todd Olive
Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476 Attention: C. Galantine/D. Vossler	Client Project ID: Unocal #7176, Dublin Matrix: Solid	Work Order #: 9411598 03	Reported: Nov 16, 1994
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COC #:

QUALITY CONTROL DATA REPORT

Analyte:	pH	Flashpoint
QC Batch:	IN111094904500A	IN111194101000A
Analy. Method:	EPA 9045	EPA 1010
Prep Method:	N.A.	N.A.

Analyst: Y. Arteaga K. Newberry

Duplicate Sample #: 941158401 941159803

Prepared Date:	11/10/94	11/11/94
Analyzed Date:	11/10/94	11/11/94
Instrument I.D.#:	MANUAL	MANUAL

Sample Concentration: 8.0 > 100 °C

Dup. Sample Concentration: 8.0 > 100 °C

RPD:	0.0	0.0
RPD Limit:	0-30	0-5 °C

SEQUOIA ANALYTICAL

T.O.
Todd Olive
Project Manager

** RPD=Relative % Difference

9411598.EEE <4>



Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrix: Solid
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: 9411598 03 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte: Reactive Sulfide
QC Batch#: IN111194084600A
Analy. Method: SW 846
Prep. Method: N.A.

Analyst: K. Newberry
MS/MSD #:
Sample Conc.:
Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

Result:
MS % Recovery:

Dup. Result:
MSD % Recov.:

RPD:
RPD Limit:

LCS #: LCS111194
Prepared Date: 11/11/94
Analyzed Date: 11/11/94
Instrument I.D.#: MANUAL
Conc. Spiked: 10 mg/L
LCS Result: 9.6
LCS % Recov.: 96

MS/MSD
LCS 80-120
Control Limits

Please Note:
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SEQUOIA ANALYTICAL

T.O.
 Todd Olive
 Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrix: Liquid
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: 9411598 03 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
	STLC	STLC	STLC	STLC
QC Batch#:	ME1114946010MD	ME1114946010MD	ME1114946010MD	ME1114946010MD
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010

Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	941174901	941174901	941174901	941174901
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	0.98	0.95	0.97
MS % Recovery:	100	98	95	97
Dup. Result:	1.0	0.99	0.96	0.98
MSD % Recov.:	100	99	96	98
RPD:	0.0	1.0	1.0	1.0
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK111494	BLK111494	BLK111494	BLK111494
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.0	1.0	0.98	0.99
LCS % Recov.:	100	100	98	99

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

SEQUOIA ANALYTICAL

T.O.
 Todd Olive
 Project Manager

Please Note:

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** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411598.EEE <6>



Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrix: Solid
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: 9411598 03 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS1109948240EXA	MS1109948240EXA	MS1109948240EXA	MS1109948240EXA	MS1109948240EXA
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240

Analyst:	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	941149204	941149204	941149204	941149204	941149204
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/9/94	11/9/94	11/9/94	11/9/94	11/9/94
Analyzed Date:	11/10/94	11/10/94	11/10/94	11/10/94	11/10/94
Instrument I.D.#:	F2	F2	F2	F2	F2
Conc. Spiked:	2500 µg/kg	2500 µg/kg	2500 µg/kg	2500 µg/kg	2500 µg/kg
Result:	1800	2100	2400	2200	2200
MS % Recovery:	72	84	96	88	83
Dup. Result:	2000	2100	2400	2200	2200
MSD % Recov.:	80	84	96	88	88
RPD:	11	0.0	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

MS/MSD LCS Control Limits	DL-234	71-157	37-151	47-150	37-160
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** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

T. O.
 Todd Olive
 Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrix: Liquid
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler Work Order #: 9411598 03 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Selenium	Mercury
	STLC	STLC
QC Batch#:	ME1114947000MDA	ME1115942451m4A
Analy. Method:	EPA 270.2	EPA 245.1
Prep. Method:	EPA 3020	EPA 245.1

Analyst:	W. Thant	N. Rocklein
MS/MSD #:	94175301	941024601
Sample Conc.:	N.D.	0.00012
Prepared Date:	11/14/94	11/15/94
Analyzed Date:	11/14/94	11/15/94
Instrument I.D.#:	MTJA3	MV1
Conc. Spiked:	0.050 mg/L	0.0040 mg/L

Result:	0.033	0.0036
MS % Recovery:	76	87

Dup. Result:	0.046	0.0036
MSD % Recov.:	92	87

RPD:	19	0.0
RPD Limit:	0-30	0-30

LCS #:	BLK111494	BLK111594
Prepared Date:	11/14/94	11/15/94
Analyzed Date:	11/14/94	11/15/94
Instrument I.D.#:	MTJA3	MV1
Conc. Spiked:	0.050 mg/L	0.0040 mg/L
LCS Result:	0.048	0.0037
LCS % Recov.:	96	93

MS/MSD		
LCS	75-125	75-125
Control Limits		

Please Note:
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SEQUOIA ANALYTICAL

TC
Todd Olive
Project Manager

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411598.EEE <7>



Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrix: Solid
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: 9411598 03 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di- N-propylamine
QC Batch#:	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550

Analyst:	L Duong	L Duong	L Duong	L Duong
MS/MSD #:	941103709	941103709	941103709	941103709
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/7/94	11/7/94	11/7/94	11/7/94
Analyzed Date:	11/7/94	11/7/94	11/7/94	11/7/94
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	5000 µg/kg	5000 µg/kg	5000 µg/kg	5000 µg/kg
Result:	3200	3300	3000	3900
MS % Recovery:	64	66	60	78
Dup. Result:	3200	3300	3100	4000
MSD % Recov.:	64	66	62	80
RPD:	0.0	0.0	3.3	2.5
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

MS/MSD LCS Control Limits	5-112	23-134	20-124	DL-230
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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL

T. Olive
 Todd Olive
 Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrix: Solid
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: 9411598 03 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol	Acenaphthene	N-Nitrophenol
QC Batch#:	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550

Analyst:	L. Duong	L. Duong	L. Duong	L. Duong
MS/MSD #:	941103709	941103709	941103709	941103709
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/7/94	11/7/94	11/7/94	11/7/94
Analyzed Date:	11/7/94	11/7/94	11/7/94	11/7/94
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	5000 µg/kg	5000 µg/kg	5000 µg/kg	5000 µg/kg
Result:	3200	3500	3000	3400
MS % Recovery:	64	70	60	68
Dup. Result:	3300	3500	3000	3300
MSD % Recov.:	66	70	60	66
RPD:	3.1	0.0	0.0	3.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

MS/MSD LCS Control Limits	44-142	22-147	47-145	DL-132
---------------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Todd Olive
 Project Manager



Enviros Client Project ID: **Unocal #7176, Dublin**
19411 Riverside Dr. Matrix: **Solid**
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler Work Order #: **9411598 03** Reported: **Nov 16, 1994**

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS1107948270EXA	MS1107948270EXA	MS1107948270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550

Analyst:	L Duong	L Duong	L Duong
MS/MSD #:	941103709	941103709	941103709
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	11/7/94	11/7/94	11/7/94
Analyzed Date:	11/7/94	11/7/94	11/7/94
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	5000 µg/kg	5000 µg/kg	5000 µg/kg

Result:	3300	3100	3400
MS % Recovery:	66	62	68

Dup. Result:	3400	3100	3300
MSD % Recov.:	68	62	66

RPD:	3.0	0.0	3.0
RPD Limit:	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	39-139	14-176	52-115
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

UNOCAL 76

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 East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600
 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: Enviros			Project Name: Unocal # 7176		
Address: P.O. Box 259			UNOCAL Project Manager: Ed Ralston		
City: Sonoma	State: CA	Zip Code: 95476	Release #:		
Telephone: 707-935-4850		FAX #: 707-935-4855	Site #: 7850 Amador Valley Rd Dublin		
Report To: CGalentine/DVossler		Sampler: Clyde Galentine	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Work Days 5 Work Days 3 Work Days
 Time: 2 Work Days 1 Work Day 2-8 Hours
 CODE: Misc. Detect. Eval. Remed. Demol. Closure

Drinking Water Waste Water Other
 Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH 6/BTEX	TPH-D	DAG 5520	8240	8270	Cam 17 SKC	RCT	STLC Pb	BTEX	Comments
1. US-1A-D	11/9/94 8:05	soil	471	tube	01A-D		X							X	9411598
2. US-2A-D	11/9/94 8:25		471		02 ↓	X	X								
3.															
4. WWS-1A-D	11/9/94 9:15	↓	471	↓	62A-D	X	X	X	X	X	X	X			
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By: <i>Clyde Galentine</i>	Date: <i>11/9/94</i>	Time: <i>18:20</i>	Received By: <i>[Signature]</i>	Date:	Time:
Relinquished By: <i>[Signature]</i>	Date:	Time:	Received By: <i>[Signature]</i>	Date:	Time:
Relinquished By: <i>[Signature]</i>	Date:	Time:	Received By Lab: <i>[Signature]</i>	Date: <i>11/9/94</i>	Time: <i>1820</i>

Were Samples Received in Good Condition? Yes No
 Samples on Ice? Yes No
 Method of Shipment _____
 Page ___ of ___

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Signature: _____ Company: _____ Date: _____

Pink - Client
 Yellow - Laboratory
 White - Laboratory



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin

Lab Proj. ID: 9411688

Sampled: 11/10/94
Received: 11/10/94
Analyzed: see below

Attention: CGalantine/DVossler

Reported: 11/14/94

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No:	9411688-01			
Sample Desc :	SOLID, US-3A-D (comp 4)			
Flash Point	Celsius	11/11/94	25	> 100
Lead	mg/Kg	11/14/94	5.0	N.D.
pH	pH Units	11/11/94	N/A	8.2

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NOV 18 1994

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-3A-D (comp 4)
Matrix: SOLID
Analysis Method: Comb
Lab Number: 9411688-01

Sampled: 11/10/94
Received: 11/10/94
Analyzed: 11/14/94
Reported: 11/14/94

Attention: CGalantine/DVossler

Reactivity

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Reactivity:		
Sulfide	13	N.D.
Cyanide	0.010	N.D.
Reaction with Water		N.D.

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Project ID: Unocal #7176, Dublin
Matrix: Solid

Attention: C. Galantine/D. Vossler Work Order #: 9411688 01

Reported: Nov 15, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	pH	Flashpoint
QC Batch:	IN111094150100A	In111194101000A
Analy. Method:	EPA 150.1	EPA 1010
Prep Method:	N.A.	N.A.

Analyst: Y. Arteaga K. Newberry

Duplicate Sample #: 941158701 941168801

Prepared Date: 11/10/94 11/11/94
Analyzed Date: 11/10/94 11/11/94
Instrument I.D.#: MANUAL MANUAL

Sample Concentration: 7.9 > 100 °C

Dup. Sample Concentration: 7.9 > 100 °C

RPD: 0.0 0.0
RPD Limit: 0-30 0-5 °C

SEQUOIA ANALYTICAL


Todd Olive
Project Manager

** RPD = Relative % Difference

9411688.EEE <1>



Enviros Client Project ID: Unocal #7176, Dublin
19411 Riverside Dr. Matrix: Solid
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler Work Order #: 9411688 01 Reported: Nov 15, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Reactive Sulfide	Reactive Cyanide
QC Batch#:	IN111494084600A	IN110994084600A
Analy. Method:	SW 846	SW 846
Prep. Method:	N.A.	N.A.

Analyst: K. Newberry J. Heider
MS/MSD #:
Sample Conc.:
Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

Result:
MS % Recovery:

Dup. Result:
MSD % Recov.:

RPD:
RPD Limit:

LCS #:	LCS111494	LCS111494
Prepared Date:	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94
Instrument I.D.#:	MANUAL	MANUAL
Conc. Spiked:	10 mg/L	0.20 mg/L
LCS Result:	10	0.029
LCS % Recov.:	100	140

MS/MSD		
LCS	80-120	6.4-40
Control Limits		

Please Note:
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SEQUOIA ANALYTICAL

Todd Olive
Project Manager



Sequoia Analytical

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Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Project ID: Unocal #7176, Dublin
Matrix: Solid

Attention: C. Galantine/D. Vossler Work Order #: 9411688 01

Reported: Nov 15, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1114946010MDC	ME1114946010MDC	ME1114946010MDC	ME1114946010MDC
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	941175804	941175804	941175804	941175804
Sample Conc.:	N.D.	0.54	35	44
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	95	92	130	130
MS % Recovery:	95	91	95	86
Dup. Result:	97	94	130	140
MSD % Recov.:	97	93	95	96
RPD:	2.1	2.2	0.0	7.4
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK111494	BLK111494	BLK111494	BLK111494
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	100	99	100	100
LCS % Recov.:	100	99	100	100

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

SEQUOIA ANALYTICAL

[Signature]
Todd Olive
Project Manager

Please Note:
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** MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference

9411688.EEE <3>

UNOCAL 76

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- 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600
- 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: <u>Enviros</u>		Project Name: <u>Unocal # 7176</u>	
Address: <u>P.O. Box 759</u> <u>94132,01</u>		UNOCAL Project Manager: <u>Ed Ralston</u>	
City: <u>Sonoma</u>	State: <u>CA</u>	Zip Code: <u>95476</u>	Release #:
Telephone: <u>707-935-4850</u>		FAX #: <u>707-935-4855</u>	Site #: <u>7850 Amador Valley Rd, Dublin</u>
Report To: <u>C Galantine/Dvosler</u>	Sampler: <u>Clyde Galantine</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround <input type="checkbox"/> 10 Work Days <input type="checkbox"/> 5 Work Days <input checked="" type="checkbox"/> 3 Work Days	Analyses Requested <input type="checkbox"/> Drinking Water <input type="checkbox"/> Waste Water <input type="checkbox"/> Other	94110845
Time: <input checked="" type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours		
CODE: <input type="checkbox"/> Misc. <input checked="" type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure		

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH-G/BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH-D</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">RCI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">STLC Pb</div> </div>				Comments
1. US-3A-D	11/10/94 9:15	soil	4-71	tubes	1 A-D	X	X	X	X	2 DAY TAT
2. US-4A-D	11/10/94 9:40		4-71			X	X			for TPH-G, D
3. US-5A-D	11/10/94 3:40		4-71			X	X			BTEX
4. US-6A-D	11/10/94 3:50	↓	4-71	↓		X	X			3 Day TAT
5.										for RCI &
6.										STLC Pb
7.										
8.										
9.										
10.										Z.C.

Relinquished By: <u>Clyde Galantine</u>	Date: <u>11/10/94</u>	Time: <u>18:10</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: <u>Guerrero</u>	Date: <u>11-10-94</u>	Time: <u>1810</u>

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Laboratory

White - Laboratory



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Lab Proj. ID: 9411814

Sampled: 11/10/94
Received: 11/10/94
Analyzed: see below

Attention: CGalantine/DVossler

Reported: 11/15/94

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
---------	-------	---------------	-----------------	----------------

Lab No: 9411814-01
Sample Desc : SOLID, US-4A-D (comp 4)

Lead	mg/Kg	11/15/94	5.0	N.D.
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RECEIVED
NOV 18 1994

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063
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 (916) 921-9600

FAX (415) 364-9233
 FAX (510) 686-9689
 FAX (916) 921-0100

Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrix: Solid
 Sonoma, CA 95476
 Attention: C Galantine/D Vossler Work Order #: 9411814 -01 Reported: Nov 15, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1114946010MDC	ME1114946010MDC	ME1114946010MDC	ME1114946010MDC
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	9411758-4	9411758-4	9411758-4	9411758-4
Sample Conc.:	N.D	0.54	35	44
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	95	92	130	130
MS % Recovery:	95	91	95	86
Dup. Result:	97	94	130	140
MSD % Recov.:	97	93	95	96
RPD:	2.1	2.2	0.0	7.4
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK111494	BLK111494	BLK111494	BLK111494
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	100	99	100	100
LCS % Recov.:	100	99	100	100

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


 Todd Olive
 Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411814.EEE <1>

UNOCAL 76

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 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600
 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: Enviros Project Name: Unocal # 7176
 Address: P.O. Box 259 94132.01 UNOCAL Project Manager: Ed Ralston
 City: Sonoma State: CA Zip Code: 95476 Release #:
 Telephone: 707-935-4850 FAX #: 707-935-4855 Site #: 7850 Amador Valley Rd, Dublin
 Report To: C Galantine/Dvosler Sampler: Clyde Galantine QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Work Days 5 Work Days 3 Work Days Drinking Water
 Time: 2 Work Days 1 Work Day 2-8 Hours Waste Water
 CODE: Misc. Detect. Eval. Reimed. Demol. Closure Other
 Analyses Requested: 9411688

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested				Comments
						TPH-G	BTEX	RCI	STLC Pb	
1. US-3A-D	11/10/94 9:15	soil	4-71	tubes	1 A-D	X	X	X	X	2 DAY TAT for TPH-G, BTEX
2. US-4A-D	11/10/94 9:40		4-71			X	X			3 Day TAT for RCI & STLC Pb
3. US-5A-D	11/10/94 3:40		4-71			X	X			
4. US-6A-D	11/10/94 3:50	↓	4-71	↓		X	X			
5.										
6.										
7.										
8.										
9.										
10.										2.0

Relinquished By: [Signature] Date: 11/10/94 Time: 18:10 Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: [Signature] Date: 11.10.94 Time: 1810

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: _____ Page ___ of ___

To be completed upon receipt of report:
 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____
 Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Laboratory

White - Laboratory



**Sequoia
Analytical**

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FAX (510) 686-9689
FAX (916) 921-0100

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Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin

Lab Proj. ID: 9411689

Sampled: 11/10/94
Received: 11/10/94
Analyzed: see below

Attention: CGalantine/DVossler

Reported: 11/15/94

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9411689-04				
Sample Desc : SOLID,US-6A-D (comp 4)				
Lead	mg/Kg	11/14/94	5.0	N.D.

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-3A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411689-01

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/11/94
Analyzed: 11/14/94
Reported: 11/15/94

Attention: CGalantine/DVossler

Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	20	340 DIESEL

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	0 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-3A-D (comp 4)
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411689-01

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/11/94
Analyzed: 11/11/94
Reported: 11/15/94

GC Batch Number: GC111194BTEXEXA
Instrument ID: GCHP-18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	10	110
Benzene	0.050	N.D.
Toluene	0.050	0.22
Ethyl Benzene	0.050	0.81
Xylenes (Total)	0.050	4.3
Chromatogram Pattern:		
Non Gas Mix		>C11+
Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	127

-analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-4A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411689-02

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/11/94
Analyzed: 11/14/94
Reported: 11/15/94

Attention: CGalantine/DVossler

Instrument ID: GCHP-4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	58
Chromatogram Pattern:		DIESEL

Surrogates	Control Limits %	% Recovery
Pentacosane (C25)	50 150	102

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476
Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-4A-D (comp 4)
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411689-02

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/11/94
Analyzed: 11/11/94
Reported: 11/15/94

GC Batch Number: GC111194BTEXEXA
Instrument ID: GCHP-18


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	10	54
Benzene	0.050	N.D.
Toluene	0.050	N.D.
Ethyl Benzene	0.050	0.35
Xylenes (Total)	0.050	1.4
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	114

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476 Attention: CGalantine/DVossler	Client Proj. ID: Unocal #7176, Dublin Sample Descript: US-5A-D (comp 4) Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9411689-03	Sampled: 11/10/94 Received: 11/10/94 Extracted: 11/14/94 Analyzed: 11/14/94 Reported: 11/15/94
--	--	--

Instrument ID: GCHP4A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Non Diesel Mix	1.0	27 >C10

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	108

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-5A-D (comp 4)
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411689-03

Sampled: 11/10/94
Received: 11/10/94
Extracted: 11/11/94
Analyzed: 11/11/94
Reported: 11/15/94

QC Batch Number: GC111194BTEXEXA
Instrument ID: GCHP-18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

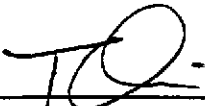
Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.

Chromatogram Pattern:

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: US-6A-D (comp 4) Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9411689-04	Sampled: 11/10/94 Received: 11/10/94 Extracted: 11/14/94 Analyzed: 11/14/94 Reported: 11/15/94
Attention: CGalantine/DVossler		

Instrument ID: GCHP4B


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Non Diesel Mix	1.0	46
		>C9

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	112

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
 Sample Descript: US-6A-D (comp 4)
 Matrix: SOLID
 Analysis Method: 8015Mod/8020
 Lab Number: 9411689-04

Sampled: 11/10/94
 Received: 11/10/94
 Extracted: 11/11/94
 Analyzed: 11/11/94
 Reported: 11/15/94

QC Batch Number: GC111194BTEXEXA
 Instrument ID: GCHP-18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	5.0	21
Benzene	0.025	N.D.
Toluene	0.025	N.D.
Ethyl Benzene	0.025	N.D.
Xylenes (Total)	0.025	0.11
Chromatogram Pattern: Weathered Gas		C9-C12

Surrogates	Control Limits %	% Recovery
1,1-difluorotoluene	70 130	108

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrix: Solid
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: 9411689 01-04 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC111194BTEXEXA	GC111194BTEXEXA	GC111194BTEXEXA	GC111194BTEXEXA	GC111194OHBPEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 mod.
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	

Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	N.Herrera
MS/MSD #:	941149204	941149204	941149204	941149204	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	11/11/94	11/11/94	11/11/94	11/11/94	
Analyzed Date:	11/11/94	11/11/94	11/11/94	11/11/94	
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg	
Result:	0.19	0.20	0.20	0.59	
MS % Recovery:	95	100	100	98	
Dup. Result:	0.18	0.20	0.20	0.58	
MSD % Recov.:	90	100	100	97	
RPD:	5.4	0.0	0.0	1.7	
RPD Limit:	0-50	0-50	0-50	0-50	

LCS #: BLK111194BS
 Prepared Date: 11/11/94
 Analyzed Date: 11/11/94
 Instrument I.D.#: GCHP5B
 Conc. Spiked: 15 mg/kg
 LCS Result: 12.7 mg/kg
 LCS % Recov.: 85

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140	28-122
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Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Todd Olive
 Project Manager

** MS= Matrix Spike, MSD= MS Duplicate, RPD=Relative % Difference

9411689.EEE <1>



Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrix: Solid
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: 9411689 04 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1114946010MDC	ME1114946010MDC	ME1114946010MDC	ME1114946010MDC
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	941175804	941175804	941175804	941175804
Sample Conc.:	N.D.	0.54	35	44
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	95	92	130	130
MS % Recovery:	95	91	95	86
Dup. Result:	97	94	130	140
MSD % Recov.:	97	93	95	96
RPD:	2.1	2.2	0.0	7.4
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK111494	BLK111494	BLK111494	BLK111494
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	100	99	100	100
LCS % Recov.:	100	99	100	100

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411689.EEE <2>

Company Name: Enviros Project Name: Unocal # 7176
 Address: P.O. Box 259 94132,01 UNOCAL Project Manager: Ed Ralston
 City: Sonoma State: CA Zip Code: 95476 Release #: _____
 Telephone: 707-935-4850 FAX #: 707-935-4855 Site #: 7850 Amador Valley Rd, Dublin
 Report To: C Galantine/Dvosler Sampler: Clyde Galantine QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Work Days 5 Work Days 3 Work Days Drinking Water
 Time: 2 Work Days 1 Work Day 2-8 Hours Waste Water
 CODE: Misc. Detect. Eval. Remed. Demol. Closure Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested				Comments
						TPH-G, BTEX	TPH-D	RCI	STLC Pb	
1. <u>US-3A-D</u>	<u>11/10/94 9:15</u>	<u>soil</u>	<u>4-71</u>	<u>tubes</u>	<u>1 A-D</u>	X	X	X	X	<u>2 DAY TAT for TPH-G, D, BTEX</u>
2. <u>US-4A-D</u>	<u>11/10/94 9:40</u>	<u> </u>	<u>4-71</u>	<u> </u>	<u>2</u>	X	X			<u>BTEX</u>
3. <u>US-5A-D</u>	<u>11/10/94 3:40</u>	<u> </u>	<u>4-71</u>	<u> </u>	<u>3</u>	X	X			<u>3 Day TAT</u>
4. <u>US-6A-D</u>	<u>11/10/94 3:50</u>	<u>v</u>	<u>4-71</u>	<u>v</u>	<u>4</u>	X	X			<u>for RCI & STLC Pb</u>
5.										
6.										
7.										
8.										
9.										<u>2-C</u>
10.										

Relinquished By: Clyde Galantine Date: 11/10/94 Time: 18:10 Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: Sueanne Date: 11-10-94 Time: 1810

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: _____ Page ___ of ___

To be completed upon receipt of report:
 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____
 Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
 Yellow - Laboratory
 White - Laboratory



RECEIVED
NOV 18 1994

Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin	Sampled: 11/11/94 Received: 11/11/94 Analyzed: see below
Attention: CGalantine/DVossler	Lab Proj. ID: 9411758	Reported: 11/15/94

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9411758-01 Sample Desc: SOLID,US-7A-D (comp 4)				
Lead	mg/Kg	11/14/94	5.0	N.D.
Lab No: 9411758-02 Sample Desc: SOLID,US-8A-D (comp 4)				
Lead	mg/Kg	11/14/94	5.0	N.D.
Lab No: 9411758-03 Sample Desc: SOLID,US-9A-D (comp 4)				
Lead	mg/Kg	11/14/94	5.0	N.D.
Lab No: 9411758-04 Sample Desc: SOLID,US-10A-D (comp 4)				
Lead	mg/Kg	11/14/94	5.0	N.D.
Lab No: 9411758-05 Sample Desc: SOLID,US-11A-D (comp 4)				
Lead	mg/Kg	11/14/94	5.0	N.D.
Lab No: 9411758-06 Sample Desc: SOLID,US-12A-D (comp 4)				
Lead	mg/Kg	11/14/94	5.0	N.D.
Lab No: 9411758-07 Sample Desc: SOLID,US-13A-D (comp 4)				
Lead	mg/Kg	11/14/94	5.0	N.D.

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-7A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411758-01

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/15/94

Instrument ID: GCHP5A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	35
Chromatogram Pattern: Non Diesel Mix		< C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	100

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-7A-D (comp 4)
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411758-01

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/15/94

QC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	140
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	0.55
Xylenes (Total)	0.50	8.8
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-8A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411758-02

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/15/94

Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	20	130 DIESEL

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	0 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-8A-D (comp 4)
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411758-02

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/15/94

GC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	130
Benzene	0.50	N.D.
Toluene	0.50	0.57
Ethyl Benzene	0.50	1.0
Xylenes (Total)	0.50	9.4
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
1,1-Difluorotoluene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-9A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411758-03

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/15/94

Attention: CGalantine/DVossler

Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	10	160
Chromatogram Pattern: Non Diesel Mix		<C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	0 Q

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviro 19411 Riverside Dr. Sonoma, CA 95476 Attention: CGalantine/DVossler	Client Proj. ID: Unocal #7176, Dublin Sample Descript: US-9A-D (comp 4) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411758-03	Sampled: 11/11/94 Received: 11/11/94 Extracted: 11/14/94 Analyzed: 11/14/94 Reported: 11/15/94
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GC Batch Number: GC111494BTEXEXA
 Instrument ID: GCHP-07

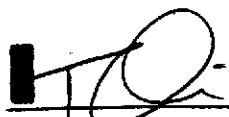
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	160
Benzene	0.50	N.D.
Toluene	0.50	1.7
Ethyl Benzene	0.50	1.8
Xylenes (Total)	0.50	15
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
1,1-Difluorotoluene	70 130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-10A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411758-04

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/15/94

Attention: CGalantine/DVossler

Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	11
Chromatogram Pattern: on Diesel Mix		<C24

Surrogates	Control Limits %	% Recovery
Pentacosane (C25)	50 150	97

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-10A-D (comp 4)
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411758-04

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/15/94

GC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	20	66
Benzene	0.10	N.D.
Toluene	0.10	0.55
Ethyl Benzene	0.10	0.61
Xylenes (Total)	0.10	5.1
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
1,1-difluorotoluene	70 130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: US-11A-D (comp 4) Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9411758-05	Sampled: 11/11/94 Received: 11/11/94 Extracted: 11/14/94 Analyzed: 11/14/94 Reported: 11/15/94
Attention: CGalantine/DVossler		

Instrument ID: GCHP5A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	13
Chromatogram Pattern: on Diesel Mix		<C24

Surrogates	Control Limits %	% Recovery
Pentacosane (C25)	50 150	109

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-11A-D (comp 4)
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411758-05

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/15/94

GC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	79
Benzene	0.25	N.D.
Toluene	0.25	0.71
Ethyl Benzene	0.25	0.85
Xylenes (Total)	0.25	8.5
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	96

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-12A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9411758-06

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/15/94

Attention: CGalantine/DVossler

Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	29
Chromatogram Pattern: on Diesel Mix		<C24

Surrogates	Control Limits %	% Recovery
Pentacosane (C25)	50 150	112

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: US-12A-D (comp 4) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9411758-06	Sampled: 11/11/94 Received: 11/11/94 Extracted: 11/14/94 Analyzed: 11/14/94 Reported: 11/15/94
--	---	--

GC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	230
Benzene	0.25	N.D.
Toluene	0.25	0.69
Ethyl Benzene	0.25	0.78
Xylenes (Total)	0.25	18
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	115

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



viros 19411 Riverside Dr. Sonoma, CA 95476 Attention: CGalantine/DVossler	Client Proj. ID: Unocal #7176, Dublin Sample Descript: US-13A-D (comp 4) Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9411758-07	Sampled: 11/11/94 Received: 11/11/94 Extracted: 11/14/94 Analyzed: 11/14/94 Reported: 11/15/94
--	---	--

Instrument ID: GCHP5A


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	12
Chromatogram Pattern: on Diesel Mix		< C24

Surrogates	Control Limits %	% Recovery
Pentacosane (C25)	50 150	98

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Todd Olive
 Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-13A-D (comp 4)
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9411758-07

Sampled: 11/11/94
Received: 11/11/94
Extracted: 11/14/94
Analyzed: 11/14/94
Reported: 11/15/94

Attention: CGalantine/DVossler

GC Batch Number: GC111494BTEXEXA
Instrument ID: GCHP-01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	25	50
Benzene	0.12	N.D.
Toluene	0.12	0.15
Ethyl Benzene	0.12	0.13
Xylenes (Total)	0.12	3.8
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager



Enviros Client Project ID: Unocal #7176, Dublin
 19411 Riverside Dr. Matrix: Solid
 Sonoma, CA 95476
 Attention: C. Galantine/D. Vossler Work Order #: 9411758 01-07 Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1114946010MDC	ME1114946010MDC	ME1114946010MDC	ME1114946010MDC
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	941175804	941175804	941175804	941175804
Sample Conc.:	N.D.	0.54	35	44
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	95	92	130	130
MS % Recovery:	95	91	95	86
Dup. Result:	97	94	130	140
MSD % Recov.:	97	93	95	96
RPD:	2.1	2.2	0.0	7.4
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK111494	BLK111494	BLK111494	BLK111494
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	100	99	100	100
LCS % Recov.:	100	99	100	100

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

[Signature]
 Todd Olive
 Project Manager



Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Project ID: Unocal #7176, Dublin
Matrix: Solid

Attention: C. Galantine/D. Vossler Work Order #: 9411758 01-07

Reported: Nov 16, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC111494BTEXEXA	GC111494BTEXEXA	GC111494BTEXEXA	GC111494BTEXEXA	GC1111940HBPEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 mod.
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	

Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	N.Herrera
MS/MSD #:	9411136502	9411136502	9411136502	9411136502	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	11/14/94	11/14/94	11/14/94	11/14/94	
Analyzed Date:	11/14/94	11/14/94	11/14/94	11/14/94	
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg	
Result:	0.18	0.18	0.20	0.58	
MS % Recovery:	80	90	100	97	
Dup. Result:	0.16	0.19	0.20	0.59	
MSD % Recov.:	80	95	100	98	
RPD:	0.0	5.4	0.0	1.7	
RPD Limit:	0-50	0-50	0-50	0-50	

LCS #:

BLK111194BS

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

11/11/94
11/11/94
GCHP5B
15 mg/kg

LCS Result:
LCS % Recov.:

12.7 mg/kg
85

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140	28-122
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


Todd Olive
Project Manager

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9411758.EEE <2>

UNOCAL 76

680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
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 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600
 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: <u>Enviros</u> <u>94132.01</u>		Project Name: <u>Unocal #7176</u>	
Address: <u>P.O. Box 259</u>		UNOCAL Project Manager: <u>Ed Ralston</u>	
City: <u>Sonoma</u> State: <u>CA</u> Zip Code: <u>95476</u>	Release #:		
Telephone: <u>707-935-4850</u> FAX #: <u>707-935-4855</u>	Site #: <u>7850 Amador Valley Rd, Dublin</u>		
Report To: <u>CGalantine/D Vossler</u> Sampler: <u>Clyde Galantine</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Work Days 5 Work Days 3 Work Days
Time: 2 Work Days 1 Work Day 2-8 Hours
CODE: Misc. Detect. Eval. Remed. Demol. Closure

Drinking Water Waste Water Other
Analyses Requested
TPH-G, BTEX
TPH-Diesel
TKC Pb

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested										Comments			
1. US-7A-D	11/11/94 11:20	soil	4 → 1	tubc		X	X	X											9411758 - 01
2. US-8A-D	11:35					X	X	X											-02
3. US-9A-D	11:45					X	X	X											-03
4. US-10A-D	12:00					X	X	X											-04
5. US-11A-D	12:30					X	X	X											-05
6. US-12A-D	12:45					X	X	X											-06
7. US-13A-D	12:55	↓	↓	↓		X	X	X											-07
8.																			
9.																			
10.																			

Relinquished By: <u>Clyde Galantine</u>	Date: <u>11/11/94</u>	Time: <u>16:30</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By Lab: <u>Ed Ralston</u>	Date: <u>11-11-94</u>	Time: <u>1630</u>

Were Samples Received In Good Condition? Yes No
 Samples on Ice? Yes No
 Method of Shipment _____
 Page ___ of ___

To be completed upon receipt of report:
 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____
 Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
 Yellow - Laboratory
 White - Laboratory



**Sequoia
Analytical**

680 Chesapeake Drive Redwood City, CA 94061
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 (510) 686-9600
 (916) 921-9600

FAX (415) 364-9233
 FAX (510) 686-9689
 FAX (916) 921-0100

RECEIVED
 DEC 12 1994

Enviros
 19411 Riverside Dr.
 Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
 Lab Proj. ID: 9412291

Sampled: 12/06/94
 Received: 12/06/94
 Analyzed: see below

Attention: CGalantine/DVossler

Reported: 12/08/94

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9412291-01 Sample Desc: SOLID, US-14A-D (comp 4)				
Lead	mg/Kg	12/07/94	5.0	N.D.
Lab No: 9412291-02 Sample Desc: SOLID, US-15A-D (comp 4)				
Lead	mg/Kg	12/07/94	5.0	N.D.
Lab No: 9412291-03 Sample Desc: SOLID, US-16A-D (comp 4)				
Lead	mg/Kg	12/07/94	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

Project No. 94132
 RPT _____ PF X BF _____
 1 _____ 2 _____ 3 _____ 4 _____ 5 X

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
 Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-14A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9412291-01

Sampled: 12/06/94
Received: 12/06/94
Extracted: 12/06/94
Analyzed: 12/07/94
Reported: 12/08/94

Attention: CGalantine/DVossler

Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Discrete Peak	1.0	24 Diesel Yes

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	93

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-14A-D (comp 4)
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9412291-01

Sampled: 12/06/94
Received: 12/06/94
Extracted: 12/06/94
Analyzed: 12/06/94
Reported: 12/08/94

QC Batch Number: GC120694BTEXEXB
Instrument ID: GCHP-18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	390
Benzene	0.50	N.D.
Toluene	0.50	5.9
Ethyl Benzene	0.50	3.8
Xylenes (Total)	0.50	43
Chromatogram Pattern: Weathered Gas		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-15A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9412291-02

Sampled: 12/06/94
Received: 12/06/94
Extracted: 12/06/94
Analyzed: 12/07/94
Reported: 12/08/94

Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte

**Detection Limit
mg/Kg**

**Sample Results
mg/Kg**

TEPH as Diesel
Chromatogram Pattern:
Non Diesel Mix

1.0

21

C9-C24

Surrogates
n-Pentacosane (C25)

Control Limits %
50 150

% Recovery
108

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Attention: CGalantine/DVossler

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-15A-D (comp 4)
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9412291-02

Sampled: 12/06/94
Received: 12/06/94
Extracted: 12/06/94
Analyzed: 12/06/94
Reported: 12/08/94

GC Batch Number: GC120694BTEXEXB
Instrument ID: GCHP-18

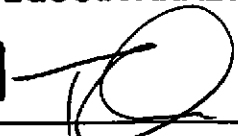
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	500	1600
Benzene	2.5	N.D.
Toluene	2.5	47
Ethyl Benzene	2.5	25
Xylenes (Total)	2.5	170
Chromatogram Pattern: Weathered Gas		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros
19411 Riverside Dr.
Sonoma, CA 95476

Client Proj. ID: Unocal #7176, Dublin
Sample Descript: US-16A-D (comp 4)
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9412291-03

Sampled: 12/06/94
Received: 12/06/94
Extracted: 12/06/94
Analyzed: 12/07/94
Reported: 12/08/94

Attention: CGalantine/DVossler

Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Non Diesel Mix	1.0	3.6 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Enviros 19411 Riverside Dr. Sonoma, CA 95476	Client Proj. ID: Unocal #7176, Dublin Sample Descript: US-16A-D (comp 4) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9412291-03	Sampled: 12/06/94 Received: 12/06/94 Extracted: 12/06/94 Analyzed: 12/06/94 Reported: 12/08/94
Attention: CGalantine/DVossler		

QC Batch Number: GC120694BTEXEXB
Instrument ID: GCHP-18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.0053
Chromatogram Pattern: Weathered Gas		C7-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Enviros 19411 Riverside Dr. Sonoma, CA 95476 Attention: C. Galantine/D. Vossler	Client Project ID: Unocal, #7176, Dublin Matrx: Solid	Work Order #: 9412291 -01-03	Reported: Dec 8, 1994
--	--	------------------------------	-----------------------

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1206946010MDC	ME1206946010MDC	ME1206946010MDC	ME1206946010MDC
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S.O'Donnell	S.O'Donnell	S.O'Donnell	S.O'Donnell
MS/MSD #:	9412178-1	9412178-1	9412178-1	9412178-1
Sample Conc.:	N.D.	N.D.	27	16
Prepared Date:	12/6/94	12/6/94	12/6/94	12/6/94
Analyzed Date:	12/7/94	12/7/94	12/7/94	12/7/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	100	96	120	110
MS % Recovery:	100	96	93	94
Dup. Result:	100	95	120	110
MSD % Recov.:	100	95	93	94
RPD:	0.0	1.0	0.0	0.0
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK120694	BLK120694	BLK120694	BLK120694
Prepared Date:	12/6/94	12/6/94	12/6/94	12/6/94
Analyzed Date:	12/7/94	12/7/94	12/7/94	12/7/94
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	110	100	100	100
LCS % Recov.:	110	100	100	100

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9412291.EEE <1>





Enviros
19411 Riverside Dr.
Sonoma, CA 95476
Attention: C. Galantine/D. Vossler

Client Project ID: Unocal, #7176, Dublin
Matrix: Solid

Work Order #: 9412291 -01-03

Reported: Dec 8, 1994

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC120694BTEXEB	GC120694BTEXEB	GC120694BTEXEB	GC120694BTEXEB	GC1206940HBPEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550

Analyst:	E.Cunanan	E.Cunanan	E.Cunanan	E.Cunanan	M.Balatti
MS/MSD #:	9412109-03	9412109-03	9412109-03	9412109-03	9412291-01
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	24
Prepared Date:	12/6/94	12/6/94	12/6/94	12/6/94	12/6/94
Analyzed Date:	12/6/94	12/6/94	12/6/94	12/6/94	12/7/94
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP4A
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg	15 ug/kg
Result:	0.18	0.19	0.19	0.57	39
MS % Recovery:	90	95	95	95	100
Dup. Result:	0.19	0.19	0.20	0.58	45
MSD % Recov.:	95	95	100	97	140
RPD:	5.4	0.0	5.1	1.7	33
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	BLK120694
Prepared Date:	12/6/94
Analyzed Date:	12/7/94
Instrument I.D.#:	GCHP4A
Conc. Spiked:	15 ug/kg
LCS Result:	10
LCS % Recov.:	67

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140	38-122
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Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

[Signature]
Todd Olive
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9412291.EEE <2>



UNOCAL 76

- 680 Chesapeake Drive • Rockwood City, CA 94063 • (415) 364-9600
- 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
- East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
- 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600
- 15055 S.W. Suquola Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: <u>Enviroes</u>		Project Name: <u>Unocal #7176</u>	
Address: <u>P.O. Box 259</u>		UNOCAL Project Manager: <u>Ed. Ralston</u>	
City: <u>Sonoma</u>	State: <u>CA</u>	Zip Code: <u>95476</u>	Release #:
Telephone: <u>707-935-4850</u>	FAX #: <u>707-935-4855</u>	Site #: <u>7176</u>	<u>7850 Arnold Valley Blvd, Dublin</u>
Report To: <u>CGalantine/DVossler</u>	Sampler: <u>Clyde Galantine</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Work Days 5 Work Days 3 Work Days
 Time: 2 Work Days 1 Work Day 2-8 Hours

CODE: Misc. Detect. Eval. Remed. Demol. Closure

Analyses Requested

Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested										Comments	
						PH-G	BTEx	TPH-Diesel	TPH-Pb								
1. <u>US-14A-D</u>	<u>12/6/14</u>	<u>soil</u>	<u>4-21</u>	<u>tube</u>	<u>01 A D</u>	X	X	X									<u>9412-291</u>
2. <u>US-15A-D</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>02 ↓</u>	X	X	X									
3. <u>US-16A-D</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>03 ↓</u>	X	X	X									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	<u>116°C</u>

Relinquished By: <u>Clyde Galantine</u>	Date: <u>12/6/14</u>	Time: <u>13:45</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>Sherman</u>	Date: <u>12-6-14</u>	Time: <u>13:45</u>

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:

- 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed?
- 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time?

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Laboratory
White - Laboratory