S&ME

January 4, 1999

Mr. Waddell Watters
North Carolina Department of
Environment and Natural Resources
585 Waughtown St.
Winston Salem, NC 27107

Reference: **Soil and Groundwater Closure Sampling Report**
Former Red Horse Truck Stop, Incident #10119, Risk - High
Unocal Corporation, 1342 Trollingwood Road, Mebane, NC
S&ME Project No. 1354-94-603

Dear Mr. Watters:

S&ME, Inc. (S&ME) on behalf of Unocal Corporation (Unocal) submits these soil and groundwater analyses for your review, per your request during our December 10, 1998 phone conversation. This work was performed under Task Authorization #10119-03 for evaluating site closure at the former Red Horse Truck Stop, per your September 10, 1998 letter. The letter stated that in order to lower the site risk classification and further evaluate site closure, we would "need to document that the soil and groundwater contaminant levels are below the State's gross contaminant levels through the use of risk-based laboratory methods." Additionally, a water sample was collected from the Williams well and also analyzed for risk-based laboratory methods.

S&ME collected six soil samples in the area(s) of highest former soil contamination and previous excavations on-site for analyses by EPA Methods 8260 plus MTBE and IPE, 8270, and MADEP-VPH and EPH. Six groundwater samples were also collected at wells MW-3, MW-4, DMW-5, MW-7, MW-8 and the private Williams well for analyses by EPA Methods 601, 602 with IPE and MTBE, 504.1 for EDB, lead with 3030C preparation, 625 plus 10 largest non-target peaks identified and MADEP – VPH and EPH. Figure 1 (Site Map) illustrates the locations of the six geoprobe soil samples and the five on-site monitor wells.

S&ME, Inc. 9751 Southern Pine Boulevard, Charlotte, North Carolina 28273, (704) 523-4726, Fax (704) 525-3953
Mailing address: P.O. Box 7668, Charlotte, North Carolina 28241-7668

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The attached SPL laboratory (NC Certification #487) analyses indicate that groundwater concentrations (Table 1) are below the Gross Contaminant Levels (GCL's) and that soil concentrations are below the Maximum Soil Contaminant Concentrations (MSCC's) for both Residential and Commercial/Industrial sites (Table 2). Dissolved hydrocarbons have never been detected by S&ME in water from the Williams private well located approximately 500 feet hydraulically upgradient of the onsite well MW-3 on-site. The C9-C18 concentration of 0.2 mg/L is below the interim 2L standard of 4.2 mg/L, and may also be a laboratory artifact or from an unknown source, as no other compounds were detected in water sampled from the Williams well. This low semi-volatile concentration is not believed to be from the former Unocal hydrocarbon release. Therefore, we request that the site priority ranking be reduced to Low and the site be closed by the NCDENR by issuance of a Notice of No Further Action letter.

Please review this report and inform us if the site priority ranking can be reduced to Low and the site closed. If you have any questions, or need additional information, please call Stewart Hines, L.G. of S&ME, Inc. at 704-523-4726.

Sincerely,

S&ME, Inc.

Stewart Hines 1/4/99

NORTH CAROLINA LICENSED SEAL 1199 GEOLOGIST STEWART MARTIN HINES

Stewart M. Hines, L.G.
Project Manager

Al Quarles, L.G.
Senior Hydrogeologist

Enclosures

cc: Paul Lindquist – Unocal Corporation
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N.C. Dept. of EHNR
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Winston-Salem
Regional Office

SOIL & GROUNDWATER CLOSURE SAMPLING REPORT

Incident No. 10119, Priority Ranking -High

Former Red Horse Truck Stop
Former Unocal Corporation Site #9787-214
1342 Trollingwood Road, Mebane, NC
S&ME Project No. 1354-94-603

Prepared For:

Unocal Corporation
Diversified Business Group
13 Corporate Square, Suite 200
Atlanta, Ga 30329

Prepared By:

S&ME, Inc.
9751 Southern Pine Blvd., PO Box 7668
Charlotte, NC 28273

January 1999

TABLE 1
HISTORICAL GROUNDWATER QUALITY DATA
FORMER UNOCAL FACILITY #9787-214 (FORMER RED HORSE TRUCKSTOP)
1342 TROLLINGWOOD ROAD, MEBANE, NC
S&ME PROJECT #1354-94-603

MONITOR WELL	DATE	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	MTBE	IPE	METHOD 601 COMPONDS	METHOD 625/610 COMPOUNDS	VPH (VOLATILES)	EPH SEMI-VOLATILES
MW-1	1/7/93	BQL	120	BQL	120	240	NA	NA	NA	NA	NA	NA
(CLOSED)	1/18/93	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NA	NA
	11/10/94	BQL	BQL	BQL	BQL	BQL	BQL	NA	BQL	BQL	NA	NA
	3/12/95	BQL	BQL	BQL	BQL	BQL	1.11	BQL	BQL	BQL	NA	NA
	12/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	2/21/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	5/4/96	MONITOR WELL CLOSED WITH GROUT DUE TO CONFLICT WITH NEW SPEEDWAY STATION PUMP ISLAND										
MW-2	1/7/93	810	20,000	17,000	95,000	132,810	NA	NA	NA	NA	NA	NA
(CLOSED)	1/18/93	120	65	4.2	160	349.2	BQL	BQL	7.9	28	NA	NA
	11/10/94	BQL	BQL	BQL	BQL	BQL	BQL	NA	BQL	BQL	NA	NA
	3/12/95	BQL	BQL	BQL	BQL	BQL	1.5	BQL	BQL	BQL	NA	NA
	12/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	2/21/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	5/4/96	MONITOR WELL CLOSED WITH GROUT DUE TO CONFLICT WITH NEW SPEEDWAY STATION PUMP ISLAND										
MW-3	1/7,11/93	BQL	1300	2100	13,000	16,400	NA	NA	NA	NA	NA	NA
	1/26/93	84	82	5.1	590	761.1	BQL	BQL	8.4	22	NA	NA
	11/10/94	BQL	BQL	18.5	184	203	BQL	NA	13.2	BQL	NA	NA
	3/12/95	BQL	BQL	BQL	1.52	1.52	0.54	1.73	3.38	BQL	NA	NA
	12/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	7.53	<1	NA	NA
	2/21/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	5.53	<1	NA	NA
	8/5/96	85	4.01	3.34	465	557	11.7	9.58	31.4	12.6	NA	NA
	11/22/96	5.1	<1.5	<1.5	2.72	7.82	1.53	4.83	6.68	3.13	NA	NA
	2/8/97	<1.5	<1.5	<1.5	<1.5	<1.5	4.30	11.3	8.94	<3	NA	NA
	8/14/97	0.827	<1.5	<1.5	<1.5	0.827	6.60	8.04	17.70	7.06	NA	NA
	2/24/98	13.2	<1.5	<1.5	1.88	^15.08	6.38	12.7	16.6	<3	NA	NA
	5/12/98	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	12.5	14	<1	NA	NA
	8/3/98	4.8	ND	ND	1.2	6	ND	ND	16-1,2-dichloroethane	ND	NA	NA
	11/11/98	5.3	ND	ND	ND	ND	25	30	46-1,2-dichloroethane	ND	NA	NA
MW-4	1/11/93	BQL	1700	4900	31,000	37,600	NA	NA	NA	NA	NA	NA
	1/18/93	26,800	42,000	5200	24,000	98,000	12,000	BQL	6.8	6600	NA	NA
	11/10/94	22,100	40,100	4710	20,500	87,400	15,700	NA	29.3	431.5	NA	NA
	3/12/95	3150	4480	1830	2250	11,700	4370	<1	33.09	2710	NA	NA
	12/18/95	2840	5700	1170	5310	15000	3750	<1	<5-50	787.58	NA	NA
	2/21/96	821	1340	344	1990	4490	1810	<1	<5-50	119.3	NA	NA
	8/12/96	6.1	13.5	<5	27.6	47.2	165	<10	<5-50	<1	NA	NA
	11/26/96	4.59	16.2	<3	37	60.3	410	<6	<3-30	<3	NA	NA
	2/8/97	3.7	11.1	3.7	64.1	82.6	654	<6	<3-30	<3	NA	NA
	8/14/97	<0.60	<1.5	<1.5	<1.5	<1.5	74.70	<3	<0.75-15	<3	NA	NA
	2/24/98	<12	<30	<30	<30	<30	141	<60	<15-300	<3	NA	NA
	5/12/98	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.25-5	<1	NA	NA
	8/3/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	11/11/98	DRY,	WELL	NOT	SAMPLED							
15A NCAC 2L STANDARD (IN UG/L)		1	1000	29	530	NA	200	70	0.38 - 1,2-DICHLOROETHANE	SEE 2L STANDARDS	0.42 (INTERIM STANDARD)	4.2 (INTERIM STANDARD)
GROSS CONTAMINANT LEVEL (IN UG/L)		5000	257,500	29,000	87,500	NA	200,000	70,000	380 - 1,2-DICHLOROETHANE	SEE GCL's	NA	NA

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NOTES:

* BQL = BELOW QUANTITATION LIMIT
* ND = NOT DETECTED
* NA = NOT APPLICABLE

* ALL CONCENTRATIONS IN GROUNDWATER ARE IN UG/L (PPB)

TABLE 1 (CONTINUED)
HISTORICAL GROUNDWATER QUALITY DATA
FORMER UNOCAL FACILITY #9787-214 (FORMER RED HORSE TRUCKSTOP)
1342 TROLLINGWOOD ROAD, MEBANE, NC
S&ME PROJECT #1354-94-603

MONITOR WELL	DATE	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	MTBE	IPE	METHOD 601 COMPONDS	METHOD 625/610 COMPOUNDS	VPH (VOLATILES)	EPH SEMI-VOLATILES
DMW-5	3/24/93	55	95	20	120	290	NA	NA	NA	NA	NA	NA
	12/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	8/5/96	0.5	0.5	0.5	0.5	0.5	0.5	<1	<0.5-5	1	NA	NA
	11/22/96	<1.5	16.2	<1.5	<1.5	16.2	<1.5	<3	BQL	BQL	NA	NA
	2/8/97	<1.5	<1.5	1.5	<1.5	<1.5	<1.5	<3	<3-15	3	NA	NA
	8/14/97	<0.6	<1.5	1.5	<1.5	<1.5	<1.5	<1	<0.5-5	1	NA	NA
	2/24/98	<0.6	<1.5	<1.5	<1.5	<1.5	<1.5	<3	<0.9-15	<3	NA	NA
	5/12/98	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.25-5	<1	NA	NA
	8/3/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	11/11/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
MW-6	3/17/93	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NA	NA
	11/10/94	BQL	BQL	BQL	BQL	BQL	BQL	NA	BQL	BQL	NA	NA
(CLOSED)	3/12/95	BQL	1.61	0.754	4.16	6.52	BQL	BQL	BQL	BQL	NA	NA
	12/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	2/21/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	5/4/96	MONITORI WELL CLOSED WITH GROUT DUE TO CONFLICT WITH NEW SPEEDWAY STATION PUMP ISLAND										
MW-7	3/8,17/93	BQL	BQL	BQL	BQL	BQL	BQL	BQL	6.5	BQL	NA	NA
	11/10/94	BQL	BQL	BQL	BQL	BQL	BQL	NA	1.4	BQL	NA	NA
	3/12/95	BQL	BQL	BQL	BQL	BQL	BQL	NA	1.25	BQL	NA	NA
	12/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	2/21/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	8/5/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	11/22/96	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<3	BQL	BQL	NA	NA
	2/8/97	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<3	<3-15	<3	NA	NA
	8/14/97	<0.6	<1.5	1.5	<1.5	<1.5	<1.5	<3	1.78	<3	NA	NA
	2/24/98	<0.6	<1.5	<1.5	<1.5	<1.5	<1.5	<3	3.68	<3	NA	NA
	5/12/98	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	2.77	<1	NA	NA
	8/3/98	ND	ND	ND	ND	ND	ND	ND	2.2	ND	NA	NA
	11/11/98	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	0.13
MW-8	8/12/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	<1	NA	NA
	11/22/96	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<3	BQL	BQL	NA	NA
	2/8/97	<3	<3	<3	<3	<3	6.20	<6	<3-30	<3	NA	NA
	8/14/97	<0.6	<1.5	<1.5	<1.5	<1.5	<1.5	<3	<0.75-15	<3	NA	NA
	2/24/98	<0.6	<1.5	<1.5	<1.5	<1.5	12.8	<3	<0.75-15	<3	NA	NA
	5/12/98	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.25-5	<1	NA	NA
	8/3/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	11/11/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14
WILLIAMS WELL	8/12/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5-5	1	NA	NA
	2/8/98	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<3	<3-15	<3	NA	NA
	8/14/97	<0.6	<1.5	<1.5	<1.5	<1.5	<1.5	<3	<0.75-15	<3	NA	NA
	2/24/98	<0.6	<1.5	<1.5	<1.5	<1.5	<1.5	<3	<0.75-15	<3	NA	NA
	5/12/98	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.25-5	1	NA	NA
	8/3/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	11/11/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2
15A NCAC 2L STANDARD (IN UG/L)		1	1000	29	530	NA	200	70	0.38 - 1,2-DICHLOROETHANE 0.19 - CHLOROFORM	SEE 2L STANDARDS	0.42	4.2
GROSS CONTAMINANT LEVEL (IN UG/L)		5000	257,500	29,000	87,500	NA	200,000	70,000	380 - 1,2-DICHLOROETHANE	SEE GCL's	NA	NA

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NOTES

* BQL = BELOW QUANTITATION LIMIT
* ND = NOT DETECTED
* NA = NOT ANALYZED

* ALL CONCENTRATIONS IN GROUNDWATER ARE IN UG/L (PPB)

TABLE 2
SOIL QUALITY DATA
FORMER UNOCAL FACILITY #9787-214 (FORMER RED HORSE TRUCKSTOP)
1342 TROLLINGWOOD ROAD, MEBANE, NC
S&ME PROJECT #1354-94-603

SOIL SAMPLE	DEPTH	DATE	B (ug/Kg or ppb)	T (ug/Kg or ppb)	E (ug/Kg or ppb)	X (ug/Kg or ppb)	MTBE (ug/Kg or ppb)	VPH (mg/Kg or ppm)	EPH (mg/Kg or ppm)	2,4-DNT (ug/Kg or ppb)
GP-1	16-20'	11/23/98	ND	15,000	8300	66,000	ND	82 - C5-C8 (aliphatics) 270 - C9-C12 (aliphatics) 83 - C9-C10 (aromatics)	ND	ND
GP-2	12-16'	11/23/98	ND	ND	ND	ND	ND	ND	ND	560
GP-3	12-16'	11/23/98	ND	ND	ND	ND	180	ND	ND	ND
GP-4	12-16'	11/23/98	ND	ND	ND	ND	ND	ND	ND	ND
GP-5	14-17'	11/23/98	ND	ND	ND	ND	ND	ND	ND	ND
GP-6	19-22'	11/23/98	ND	ND	ND	ND	ND	ND	ND	ND
MAXIMUM SOIL CONTAMINANT CONC'S. INDUSTRIAL/COMMERCIAL (mg/Kg) or ppm			200	82,000	40,000	200,000	4,088	24,528 - C5-C8 (aliphatics) 245,280 - C9-12 (aliphatics) 12,264 - C9-C10 (aromatics)	245,280 - C9-C18 (aliphatics) * - C19-C36 (aliphatics) 12,264 - C11-C22 (aromatics)	NA

NOTES:

B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = XYLENES (TOTAL)
2,4-DNT = 2,4-DINITROTOLUENE
* = HEALTH BASED LEVEL > 100%

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LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

MSCC Res./Ind (ppm)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-02	SOIL	GP-1 16-20'	11/24/98	Total Solids	70.7	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	710ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	710ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	710ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	710ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	710ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	710ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	710ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	710ug/Kg	Method 8260B ***
				2-Butanone	ND	1400ug/Kg	Method 8260B ***
				2-Hexanone	ND	710ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	710ug/Kg	Method 8260B ***
				Acetone	ND	14000ug/Kg	Method 8260B ***
				Benzene	ND	710ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	710ug/Kg	Method 8260B ***
				Bromoform	ND	710ug/Kg	Method 8260B ***
				Bromomethane	ND	710ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	710ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	710ug/Kg	Method 8260B ***
				Chlorobenzene	ND	710ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	710ug/Kg	Method 8260B ***
				Chloroethane	ND	710ug/Kg	Method 8260B ***
				Chloroform	ND	710ug/Kg	Method 8260B ***
				Chloromethane	ND	710ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	710ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	710ug/Kg	Method 8260B ***
				Ethylbenzene	8300	710ug/Kg	Method 8260B ***
				Isopropyl ether	ND	710ug/Kg	Method 8260B ***
				m,p-Xylene(s)	51000	710ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	ND	710ug/Kg	Method 8260B ***
				Methylene chloride	ND	710ug/Kg	Method 8260B ***
				o-Xylene	15000	710ug/Kg	Method 8260B ***
				Styrene	ND	710ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	710ug/Kg	Method 8260B ***
				Toluene	15000	710ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	710ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	710ug/Kg	Method 8260B ***
				Trichloroethene	ND	710ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	710ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	710ug/Kg	Method 8260B ***

1560/40000

3200/820

(ppb)

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.

**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

MSCC
Res/Com
ppm
32000
20000

Workorder	Matrix	Client ID	Collected
9811B71-02	SOIL	GP-1 16-20'	11/24/98

Compound	Result	Det Limit	Method
Vinyl chloride	ND	710ug/Kg	Method 8260B ***
Xylenes (total)	64000	710ug/Kg	Method 8260B ***
1,2,4-Trichlorobenzene	ND	470ug/Kg	Method 8270C ***
1,2-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
1,2-Diphenylhydrazine	ND	470ug/Kg	Method 8270C ***
1,3-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
1,4-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
2,4,5-Trichlorophenol	ND	1200ug/Kg	Method 8270C ***
2,4,6-Trichlorophenol	ND	470ug/Kg	Method 8270C ***
2,4-Dichlorophenol	ND	470ug/Kg	Method 8270C ***
2,4-Dimethylphenol	ND	470ug/Kg	Method 8270C ***
2,4-Dinitrophenol	ND	940ug/Kg	Method 8270C ***
2,4-Dinitrotoluene	ND	470ug/Kg	Method 8270C ***
2,6-Dinitrotoluene	ND	470ug/Kg	Method 8270C ***
2-Chloronaphthalene	ND	470ug/Kg	Method 8270C ***
2-Chlorophenol	ND	470ug/Kg	Method 8270C ***
2-Methylnaphthalene	ND	470ug/Kg	Method 8270C ***
2-Methylphenol	ND	470ug/Kg	Method 8270C ***
2-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
2-Nitrophenol	ND	470ug/Kg	Method 8270C ***
3,3'-Dichlorobenzidine	ND	470ug/Kg	Method 8270C ***
3-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
4,6-Dinitro-2-Methylphenol	ND	940ug/Kg	Method 8270C ***
4-Bromophenylphenyl ether	ND	470ug/Kg	Method 8270C ***
4-Chloro-3-Methylphenol	ND	470ug/Kg	Method 8270C ***
4-Chloroaniline	ND	470ug/Kg	Method 8270C ***
4-Chlorophenylphenyl ether	ND	470ug/Kg	Method 8270C ***
4-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
4-Nitrophenol	ND	940ug/Kg	Method 8270C ***
Acenaphthene	ND	470ug/Kg	Method 8270C ***
Acenaphthylene	ND	470ug/Kg	Method 8270C ***
Aniline	ND	470ug/Kg	Method 8270C ***
Anthracene	ND	470ug/Kg	Method 8270C ***
Benzo(a)Anthracene	ND	470ug/Kg	Method 8270C ***
Benzo(a)Pyrene	ND	470ug/Kg	Method 8270C ***
Benzo(b)Fluoranthene	ND	470ug/Kg	Method 8270C ***
Benzo(g,h,i)Perylene	ND	470ug/Kg	Method 8270C ***
Benzo(k)Fluoranthene	ND	470ug/Kg	Method 8270C ***
Benzoic Acid	ND	2400ug/Kg	Method 8270C ***
Benzyl alcohol	ND	470ug/Kg	Method 8270C ***
bis(2-Chloroethoxy)Methane	ND	470ug/Kg	Method 8270C ***

(prb)

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811B71-02	SOIL	GP-1 16-20'	11/24/98

Compound	Result	Det Limit	Method
bis(2-Chloroethyl)Ether	ND	470ug/Kg	Method 8270C ***
bis(2-Chloroisopropyl)Ether	ND	470ug/Kg	Method 8270C ***
bis(2-Ethylhexyl)Phthalate	ND	470ug/Kg	Method 8270C ***
Butylbenzylphthalate	ND	470ug/Kg	Method 8270C ***
Carbazole	ND	470ug/Kg	Method 8270C ***
Chrysene	ND	470ug/Kg	Method 8270C ***
di-n-Butyl phthalate	ND	470ug/Kg	Method 8270C ***
Di-n-Octyl Phthalate	ND	940ug/Kg	Method 8270C ***
Dibenz(a,h)Anthracene	ND	470ug/Kg	Method 8270C ***
Dibenzofuran	ND	470ug/Kg	Method 8270C ***
Diethylphthalate	ND	470ug/Kg	Method 8270C ***
Dimethyl Phthalate	ND	470ug/Kg	Method 8270C ***
Fluoranthene	ND	470ug/Kg	Method 8270C ***
Fluorene	ND	470ug/Kg	Method 8270C ***
Hexachlorobenzene	ND	470ug/Kg	Method 8270C ***
Hexachlorobutadiene	ND	470ug/Kg	Method 8270C ***
Hexachlorocyclopentadiene	ND	470ug/Kg	Method 8270C ***
Hexachloroethane	ND	470ug/Kg	Method 8270C ***
Indeno(1,2,3-cd)Pyrene	ND	470ug/Kg	Method 8270C ***
Isophorone	ND	470ug/Kg	Method 8270C ***
m,p-Cresols	ND	470ug/Kg	Method 8270C ***
N-Nitroso-Di-n-Propylamine	ND	470ug/Kg	Method 8270C ***
N-Nitrosodiphenylamine (1)	ND	470ug/Kg	Method 8270C ***
Naphthalene	ND	470ug/Kg	Method 8270C ***
Nitrobenzene	ND	470ug/Kg	Method 8270C ***
Pentachlorophenol	ND	940ug/Kg	Method 8270C ***
Phenanthrene	ND	470ug/Kg	Method 8270C ***
Phenol	ND	470ug/Kg	Method 8270C ***
Pyrene	ND	470ug/Kg	Method 8270C ***
Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
Unadjusted Aliphatics C5-C8	82	18mg/Kg	Method MA VPH
Unadjusted Aliphatics C9-C12	270	18mg/Kg	Method MA VPH
Unadjusted Aromatics C9-C10	83	18mg/Kg	Method MA VPH

ppb/ppm

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B33-02	SOIL	GP-2 12-16'	11/23/98	Total Solids	80.2	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	31ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	31ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	31ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	31ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	31ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	31ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	31ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	31ug/Kg	Method 8260B ***
				2-Butanone	ND	62ug/Kg	Method 8260B ***
				2-Hexanone	ND	31ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	31ug/Kg	Method 8260B ***
				Acetone	ND	620ug/Kg	Method 8260B ***
				Benzene	ND	31ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	31ug/Kg	Method 8260B ***
				Bromoform	ND	31ug/Kg	Method 8260B ***
				Bromomethane	ND	31ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	31ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	31ug/Kg	Method 8260B ***
				Chlorobenzene	ND	31ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	31ug/Kg	Method 8260B ***
				Chloroethane	ND	31ug/Kg	Method 8260B ***
				Chloroform	ND	31ug/Kg	Method 8260B ***
				Chloromethane	ND	31ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	31ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	31ug/Kg	Method 8260B ***
				Ethylbenzene	ND	31ug/Kg	Method 8260B ***
				Isopropyl ether	ND	31ug/Kg	Method 8260B ***
				m,p-Xylene(s)	ND	31ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	ND	31ug/Kg	Method 8260B ***
				Methylene chloride	ND	31ug/Kg	Method 8260B ***
				o-Xylene	ND	31ug/Kg	Method 8260B ***
				Styrene	ND	31ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	31ug/Kg	Method 8260B ***
				Toluene	ND	31ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	31ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	31ug/Kg	Method 8260B ***
				Trichloroethene	ND	31ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	31ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	31ug/Kg	Method 8260B ***

(ppb)

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811B33-02	SOIL	GP-2 12-16'	11/23/98

Compound	Result	Det Limit	Method
Vinyl chloride	ND	31ug/Kg	Method 8260B ***
Xylenes (total)	ND	31ug/Kg	Method 8260B ***
1,2,4-Trichlorobenzene	ND	420ug/Kg	Method 8270C ***
1,2-Dichlorobenzene	ND	420ug/Kg	Method 8270C ***
1,2-Diphenylhydrazine	ND	420ug/Kg	Method 8270C ***
1,3-Dichlorobenzene	ND	420ug/Kg	Method 8270C ***
1,4-Dichlorobenzene	ND	420ug/Kg	Method 8270C ***
2,4,5-Trichlorophenol	ND	1000ug/Kg	Method 8270C ***
2,4,6-Trichlorophenol	ND	420ug/Kg	Method 8270C ***
2,4-Dichlorophenol	ND	420ug/Kg	Method 8270C ***
2,4-Dimethylphenol	ND	420ug/Kg	Method 8270C ***
2,4-Dinitrophenol	ND	820ug/Kg	Method 8270C ***
2,4-Dinitrotoluene	560	420ug/Kg	Method 8270C ***
2,6-Dinitrotoluene	ND	420ug/Kg	Method 8270C ***
2-Chloronaphthalene	ND	420ug/Kg	Method 8270C ***
2-Chlorophenol	ND	420ug/Kg	Method 8270C ***
2-Methylnaphthalene	ND	420ug/Kg	Method 8270C ***
2-Methylphenol	ND	420ug/Kg	Method 8270C ***
2-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
2-Nitrophenol	ND	420ug/Kg	Method 8270C ***
3,3'-Dichlorobenzidine	ND	420ug/Kg	Method 8270C ***
3-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
4,6-Dinitro-2-Methylphenol	ND	820ug/Kg	Method 8270C ***
4-Bromophenylphenyl ether	ND	420ug/Kg	Method 8270C ***
4-Chloro-3-Methylphenol	ND	420ug/Kg	Method 8270C ***
4-Chloroaniline	ND	420ug/Kg	Method 8270C ***
4-Chlorophenylphenyl ether	ND	420ug/Kg	Method 8270C ***
4-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
4-Nitrophenol	ND	820ug/Kg	Method 8270C ***
Acenaphthene	ND	420ug/Kg	Method 8270C ***
Acenaphthylene	ND	420ug/Kg	Method 8270C ***
Aniline	ND	420ug/Kg	Method 8270C ***
Anthracene	ND	420ug/Kg	Method 8270C ***
Benzo(a)Anthracene	ND	420ug/Kg	Method 8270C ***
Benzo(a)Pyrene	ND	420ug/Kg	Method 8270C ***
Benzo(b)Fluoranthene	ND	420ug/Kg	Method 8270C ***
Benzo(g,h,i)Perylene	ND	420ug/Kg	Method 8270C ***
Benzo(k)Fluoranthene	ND	420ug/Kg	Method 8270C ***
Benzoic Acid	ND	2100ug/Kg	Method 8270C ***
Benzyl alcohol	ND	420ug/Kg	Method 8270C ***
bis(2-Chloroethoxy)Methane	ND	420ug/Kg	Method 8270C ***

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

MSCC's Rec=/Lam (ppm)

Workorder	Matrix	Client ID	Collected
9811B33-02	SOIL	GP-2 12-16'	11/23/98

Compound	Result	Det Limit	Method
bis(2-Chloroethyl)Ether	ND	420ug/Kg	Method 8270C ***
bis(2-Chloroisopropyl)Ether	ND	420ug/Kg	Method 8270C ***
bis(2-Ethylhexyl)Phthalate	ND	420ug/Kg	Method 8270C ***
Butylbenzylphthalate	ND	420ug/Kg	Method 8270C ***
Carbazole	ND	420ug/Kg	Method 8270C ***
Chrysene	ND	420ug/Kg	Method 8270C ***
di-n-Butyl phthalate	ND	420ug/Kg	Method 8270C ***
Di-n-Octyl Phthalate	ND	830ug/Kg	Method 8270C ***
Dibenz(a,h)Anthracene	ND	420ug/Kg	Method 8270C ***
Dibenzofuran	ND	420ug/Kg	Method 8270C ***
Diethylphthalate	ND	420ug/Kg	Method 8270C ***
Dimethyl Phthalate	ND	420ug/Kg	Method 8270C ***
Fluoranthene	ND	420ug/Kg	Method 8270C ***
Fluorene	ND	420ug/Kg	Method 8270C ***
Hexachlorobenzene	ND	420ug/Kg	Method 8270C ***
Hexachlorobutadiene	ND	420ug/Kg	Method 8270C ***
Hexachlorocyclopentadiene	ND	420ug/Kg	Method 8270C ***
Hexachloroethane	ND	420ug/Kg	Method 8270C ***
Indeno(1,2,3-cd)Pyrene	ND	420ug/Kg	Method 8270C ***
Isophorone	ND	420ug/Kg	Method 8270C ***
m,p-Cresols	ND	420ug/Kg	Method 8270C ***
N-Nitroso-Di-n-Propylamine	ND	420ug/Kg	Method 8270C ***
N-Nitrosodiphenylamine (1)	ND	420ug/Kg	Method 8270C ***
Naphthalene	ND	420ug/Kg	Method 8270C ***
Nitrobenzene	ND	420ug/Kg	Method 8270C ***
Pentachlorophenol	ND	820ug/Kg	Method 8270C ***
Phenanthrene	ND	420ug/Kg	Method 8270C ***
Phenol	ND	420ug/Kg	Method 8270C ***
Pyrene	ND	420ug/Kg	Method 8270C ***
Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	16mg/Kg	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	16mg/Kg	Method MA VPH
Unadjusted Aromatics C9-C10	ND	16mg/Kg	Method MA VPH

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-04	SOIL	GP-3 12-16'	11/24/98	Total Solids	64.9	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	8ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	8ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	8ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	8ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	8ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	8ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	8ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	8ug/Kg	Method 8260B ***
				2-Butanone	ND	15ug/Kg	Method 8260B ***
				2-Hexanone	ND	8ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	8ug/Kg	Method 8260B ***
				Acetone	ND	150ug/Kg	Method 8260B ***
				Benzene	ND	8ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	8ug/Kg	Method 8260B ***
				Bromoform	ND	8ug/Kg	Method 8260B ***
				Bromomethane	ND	8ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	8ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	8ug/Kg	Method 8260B ***
				Chlorobenzene	ND	8ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	8ug/Kg	Method 8260B ***
				Chloroethane	ND	8ug/Kg	Method 8260B ***
				Chloroform	ND	8ug/Kg	Method 8260B ***
				Chloromethane	ND	8ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	8ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	8ug/Kg	Method 8260B ***
				Ethylbenzene	ND	8ug/Kg	Method 8260B ***
				Isopropyl ether	ND	8ug/Kg	Method 8260B ***
				m,p-Xylene(s)	ND	8ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	180	8ug/Kg	Method 8260B ***
				Methylene chloride	ND	8ug/Kg	Method 8260B ***
				o-Xylene	ND	8ug/Kg	Method 8260B ***
				Styrene	ND	8ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	8ug/Kg	Method 8260B ***
				Toluene	ND	8ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	8ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	8ug/Kg	Method 8260B ***
				Trichloroethene	ND	8ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	8ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	8ug/Kg	Method 8260B ***

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

MSCC's
Results
(ppm)

Workorder	Matrix	Client ID	Collected
9811B71-04	SOIL	GP-3 12-16'	11/24/98

Compound	Result	Det Limit	Method
Vinyl chloride	ND	8ug/Kg	Method 8260B ***
Xylenes (total)	ND	8ug/Kg	Method 8260B ***
1,2,4-Trichlorobenzene	ND	510ug/Kg	Method 8270C ***
1,2-Dichlorobenzene	ND	510ug/Kg	Method 8270C ***
1,2-Diphenylhydrazine	ND	510ug/Kg	Method 8270C ***
1,3-Dichlorobenzene	ND	510ug/Kg	Method 8270C ***
1,4-Dichlorobenzene	ND	510ug/Kg	Method 8270C ***
2,4,5-Trichlorophenol	ND	1300ug/Kg	Method 8270C ***
2,4,6-Trichlorophenol	ND	510ug/Kg	Method 8270C ***
2,4-Dichlorophenol	ND	510ug/Kg	Method 8270C ***
2,4-Dimethylphenol	ND	510ug/Kg	Method 8270C ***
2,4-Dinitrophenol	ND	1000ug/Kg	Method 8270C ***
2,4-Dinitrotoluene	ND	510ug/Kg	Method 8270C ***
2,6-Dinitrotoluene	ND	510ug/Kg	Method 8270C ***
2-Chloronaphthalene	ND	510ug/Kg	Method 8270C ***
2-Chlorophenol	ND	510ug/Kg	Method 8270C ***
2-Methylnaphthalene	ND	510ug/Kg	Method 8270C ***
2-Methylphenol	ND	510ug/Kg	Method 8270C ***
2-Nitroaniline	ND	1300ug/Kg	Method 8270C ***
2-Nitrophenol	ND	510ug/Kg	Method 8270C ***
3,3'-Dichlorobenzidine	ND	510ug/Kg	Method 8270C ***
3-Nitroaniline	ND	1300ug/Kg	Method 8270C ***
4,6-Dinitro-2-Methylphenol	ND	1000ug/Kg	Method 8270C ***
4-Bromophenylphenyl ether	ND	510ug/Kg	Method 8270C ***
4-Chloro-3-Methylphenol	ND	510ug/Kg	Method 8270C ***
4-Chloroaniline	ND	510ug/Kg	Method 8270C ***
4-Chlorophenylphenyl ether	ND	510ug/Kg	Method 8270C ***
4-Nitroaniline	ND	1300ug/Kg	Method 8270C ***
4-Nitrophenol	ND	1000ug/Kg	Method 8270C ***
Acenaphthene	ND	510ug/Kg	Method 8270C ***
Acenaphthylene	ND	510ug/Kg	Method 8270C ***
Aniline	ND	510ug/Kg	Method 8270C ***
Anthracene	ND	510ug/Kg	Method 8270C ***
Benzo(a)Anthracene	ND	510ug/Kg	Method 8270C ***
Benzo(a)Pyrene	ND	510ug/Kg	Method 8270C ***
Benzo(b)Fluoranthene	ND	510ug/Kg	Method 8270C ***
Benzo(g,h,i)Perylene	ND	510ug/Kg	Method 8270C ***
Benzo(k)Fluoranthene	ND	510ug/Kg	Method 8270C ***
Benzoic Acid	ND	2600ug/Kg	Method 8270C ***
Benzyl alcohol	ND	510ug/Kg	Method 8270C ***
bis(2-Chloroethoxy)Methane	ND	510ug/Kg	Method 8270C ***

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

MS Cc's Res./Comp (ppm)

Workorder	Matrix	Client ID	Collected
9811B71-04	SOIL	GP-3 12-16'	11/24/98

Compound	Result	Det Limit	Method
bis(2-Chloroethyl)Ether	ND	510ug/Kg	Method 8270C ***
bis(2-Chloroisopropyl)Ether	ND	510ug/Kg	Method 8270C ***
bis(2-Ethylhexyl)Phthalate	ND	510ug/Kg	Method 8270C ***
Butylbenzylphthalate	ND	510ug/Kg	Method 8270C ***
Carbazole	ND	510ug/Kg	Method 8270C ***
Chrysene	ND	510ug/Kg	Method 8270C ***
di-n-Butyl phthalate	ND	510ug/Kg	Method 8270C ***
Di-n-Octyl Phthalate	ND	1000ug/Kg	Method 8270C ***
Dibenz(a,h)Anthracene	ND	510ug/Kg	Method 8270C ***
Dibenzofuran	ND	510ug/Kg	Method 8270C ***
Diethylphthalate	ND	510ug/Kg	Method 8270C ***
Dimethyl Phthalate	ND	510ug/Kg	Method 8270C ***
Fluoranthene	ND	510ug/Kg	Method 8270C ***
Fluorene	ND	510ug/Kg	Method 8270C ***
Hexachlorobenzene	ND	510ug/Kg	Method 8270C ***
Hexachlorobutadiene	ND	510ug/Kg	Method 8270C ***
Hexachlorocyclopentadiene	ND	510ug/Kg	Method 8270C ***
Hexachloroethane	ND	510ug/Kg	Method 8270C ***
Indeno(1,2,3-cd)Pyrene	ND	510ug/Kg	Method 8270C ***
Isophorone	ND	510ug/Kg	Method 8270C ***
m,p-Cresols	ND	510ug/Kg	Method 8270C ***
N-Nitroso-Di-n-Propylamine	ND	510ug/Kg	Method 8270C ***
N-Nitrosodiphenylamine (1)	ND	510ug/Kg	Method 8270C ***
Naphthalene	ND	510ug/Kg	Method 8270C ***
Nitrobenzene	ND	510ug/Kg	Method 8270C ***
Pentachlorophenol	ND	1000ug/Kg	Method 8270C ***
Phenanthrene	ND	510ug/Kg	Method 8270C ***
Phenol	ND	510ug/Kg	Method 8270C ***
Pyrene	ND	510ug/Kg	Method 8270C ***
Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	19mg/Kg	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	19mg/Kg	Method MA VPH
Unadjusted Aromatics C9-C10	ND	19mg/Kg	Method MA VPH

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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PHONE (318) 237-4775
FAX (318) 237-8005

Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

MSCC's Res./Comm (ppm)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-03	SOIL	GP-4 12-16'	11/24/98	Total Solids	70.5	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	7ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	7ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	7ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	7ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	7ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	7ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	7ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	7ug/Kg	Method 8260B ***
				2-Butanone	ND	14ug/Kg	Method 8260B ***
				2-Hexanone	ND	7ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	7ug/Kg	Method 8260B ***
				Acetone	ND	140ug/Kg	Method 8260B ***
				Benzene	ND	7ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	7ug/Kg	Method 8260B ***
				Bromoform	ND	7ug/Kg	Method 8260B ***
				Bromomethane	ND	7ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	7ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	7ug/Kg	Method 8260B ***
				Chlorobenzene	ND	7ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	7ug/Kg	Method 8260B ***
				Chloroethane	ND	7ug/Kg	Method 8260B ***
				Chloroform	ND	7ug/Kg	Method 8260B ***
				Chloromethane	ND	7ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	7ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	7ug/Kg	Method 8260B ***
				Ethylbenzene	ND	7ug/Kg	Method 8260B ***
				Isopropyl ether	ND	7ug/Kg	Method 8260B ***
				m,p-Xylene(s)	ND	7ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	ND	7ug/Kg	Method 8260B ***
				Methylene chloride	ND	7ug/Kg	Method 8260B ***
				o-Xylene	ND	7ug/Kg	Method 8260B ***
				Styrene	ND	7ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	7ug/Kg	Method 8260B ***
				Toluene	ND	7ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	7ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	7ug/Kg	Method 8260B ***
				Trichloroethene	ND	7ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	7ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	7ug/Kg	Method 8260B ***

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

MSCC's

Workorder	Matrix	Client ID	Collected
9811B71-03	SOIL	GP-4 12-16'	11/24/98

Compound	Result	Det Limit	Method
Vinyl chloride	ND	7ug/Kg	Method 8260B ***
Xylenes (total)	ND	7ug/Kg	Method 8260B ***
1,2,4-Trichlorobenzene	ND	470ug/Kg	Method 8270C ***
1,2-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
1,2-Diphenylhydrazine	ND	470ug/Kg	Method 8270C ***
1,3-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
1,4-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
2,4,5-Trichlorophenol	ND	1200ug/Kg	Method 8270C ***
2,4,6-Trichlorophenol	ND	470ug/Kg	Method 8270C ***
2,4-Dichlorophenol	ND	470ug/Kg	Method 8270C ***
2,4-Dimethylphenol	ND	470ug/Kg	Method 8270C ***
2,4-Dinitrophenol	ND	940ug/Kg	Method 8270C ***
2,4-Dinitrotoluene	ND	470ug/Kg	Method 8270C ***
2,6-Dinitrotoluene	ND	470ug/Kg	Method 8270C ***
2-Chloronaphthalene	ND	470ug/Kg	Method 8270C ***
2-Chlorophenol	ND	470ug/Kg	Method 8270C ***
2-Methylnaphthalene	ND	470ug/Kg	Method 8270C ***
2-Methylphenol	ND	470ug/Kg	Method 8270C ***
2-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
2-Nitrophenol	ND	470ug/Kg	Method 8270C ***
3,3'-Dichlorobenzidine	ND	470ug/Kg	Method 8270C ***
3-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
4,6-Dinitro-2-Methylphenol	ND	940ug/Kg	Method 8270C ***
4-Bromophenylphenyl ether	ND	470ug/Kg	Method 8270C ***
4-Chloro-3-Methylphenol	ND	470ug/Kg	Method 8270C ***
4-Chloroaniline	ND	470ug/Kg	Method 8270C ***
4-Chlorophenylphenyl ether	ND	470ug/Kg	Method 8270C ***
4-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
4-Nitrophenol	ND	940ug/Kg	Method 8270C ***
Acenaphthene	ND	470ug/Kg	Method 8270C ***
Acenaphthylene	ND	470ug/Kg	Method 8270C ***
Aniline	ND	470ug/Kg	Method 8270C ***
Anthracene	ND	470ug/Kg	Method 8270C ***
Benzo(a)Anthracene	ND	470ug/Kg	Method 8270C ***
Benzo(a)Pyrene	ND	470ug/Kg	Method 8270C ***
Benzo(b)Fluoranthene	ND	470ug/Kg	Method 8270C ***
Benzo(g,h,i)Perylene	ND	470ug/Kg	Method 8270C ***
Benzo(k)Fluoranthene	ND	470ug/Kg	Method 8270C ***
Benzoic Acid	ND	2400ug/Kg	Method 8270C ***
Benzyl alcohol	ND	470ug/Kg	Method 8270C ***
bis(2-Chloroethoxy)Methane	ND	470ug/Kg	Method 8270C ***

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811B71-03	SOIL	GP-4 12-16'	11/24/98

Compound	Result	Det Limit	Method
bis(2-Chloroethyl)Ether	ND	470ug/Kg	Method 8270C ***
bis(2-Chloroisopropyl)Ether	ND	470ug/Kg	Method 8270C ***
bis(2-Ethylhexyl)Phthalate	ND	470ug/Kg	Method 8270C ***
Butylbenzylphthalate	ND	470ug/Kg	Method 8270C ***
Carbazole	ND	470ug/Kg	Method 8270C ***
Chrysene	ND	470ug/Kg	Method 8270C ***
di-n-Butyl phthalate	ND	470ug/Kg	Method 8270C ***
Di-n-Octyl Phthalate	ND	940ug/Kg	Method 8270C ***
Dibenz(a,h)Anthracene	ND	470ug/Kg	Method 8270C ***
Dibenzofuran	ND	470ug/Kg	Method 8270C ***
Diethylphthalate	ND	470ug/Kg	Method 8270C ***
Dimethyl Phthalate	ND	470ug/Kg	Method 8270C ***
Fluoranthene	ND	470ug/Kg	Method 8270C ***
Fluorene	ND	470ug/Kg	Method 8270C ***
Hexachlorobenzene	ND	470ug/Kg	Method 8270C ***
Hexachlorobutadiene	ND	470ug/Kg	Method 8270C ***
Hexachlorocyclopentadiene	ND	470ug/Kg	Method 8270C ***
Hexachloroethane	ND	470ug/Kg	Method 8270C ***
Indeno(1,2,3-cd)Pyrene	ND	470ug/Kg	Method 8270C ***
Isophorone	ND	470ug/Kg	Method 8270C ***
m,p-Cresols	ND	470ug/Kg	Method 8270C ***
N-Nitroso-Di-n-Propylamine	ND	470ug/Kg	Method 8270C ***
N-Nitrosodiphenylamine (1)	ND	470ug/Kg	Method 8270C ***
Naphthalene	ND	470ug/Kg	Method 8270C ***
Nitrobenzene	ND	470ug/Kg	Method 8270C ***
Pentachlorophenol	ND	940ug/Kg	Method 8270C ***
Phenanthrene	ND	470ug/Kg	Method 8270C ***
Phenol	ND	470ug/Kg	Method 8270C ***
Pyrene	ND	470ug/Kg	Method 8270C ***
Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	18mg/Kg	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	18mg/Kg	Method MA VPH
Unadjusted Aromatics C9-C10	ND	18mg/Kg	Method MA VPH

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811B71-01	SOIL	GP-5 14-17'	11/24/98

Compound	Result	Det Limit	Method
Vinyl chloride	ND	6ug/Kg	Method 8260B ***
Xylenes (total)	ND	6ug/Kg	Method 8260B ***
1,2,4-Trichlorobenzene	ND	400ug/Kg	Method 8270C ***
1,2-Dichlorobenzene	ND	400ug/Kg	Method 8270C ***
1,2-Diphenylhydrazine	ND	400ug/Kg	Method 8270C ***
1,3-Dichlorobenzene	ND	400ug/Kg	Method 8270C ***
1,4-Dichlorobenzene	ND	400ug/Kg	Method 8270C ***
2,4,5-Trichlorophenol	ND	1000ug/Kg	Method 8270C ***
2,4,6-Trichlorophenol	ND	400ug/Kg	Method 8270C ***
2,4-Dichlorophenol	ND	400ug/Kg	Method 8270C ***
2,4-Dimethylphenol	ND	400ug/Kg	Method 8270C ***
2,4-Dinitrophenol	ND	790ug/Kg	Method 8270C ***
2,4-Dinitrotoluene	ND	400ug/Kg	Method 8270C ***
2,6-Dinitrotoluene	ND	400ug/Kg	Method 8270C ***
2-Chloronaphthalene	ND	400ug/Kg	Method 8270C ***
2-Chlorophenol	ND	400ug/Kg	Method 8270C ***
2-Methylnaphthalene	ND	400ug/Kg	Method 8270C ***
2-Methylphenol	ND	400ug/Kg	Method 8270C ***
2-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
2-Nitrophenol	ND	400ug/Kg	Method 8270C ***
3,3'-Dichlorobenzidine	ND	400ug/Kg	Method 8270C ***
3-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
4,6-Dinitro-2-Methylphenol	ND	790ug/Kg	Method 8270C ***
4-Bromophenylphenyl ether	ND	400ug/Kg	Method 8270C ***
4-Chloro-3-Methylphenol	ND	400ug/Kg	Method 8270C ***
4-Chloroaniline	ND	400ug/Kg	Method 8270C ***
4-Chlorophenylphenyl ether	ND	400ug/Kg	Method 8270C ***
4-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
4-Nitrophenol	ND	790ug/Kg	Method 8270C ***
Acenaphthene	ND	400ug/Kg	Method 8270C ***
Acenaphthylene	ND	400ug/Kg	Method 8270C ***
Aniline	ND	400ug/Kg	Method 8270C ***
Anthracene	ND	400ug/Kg	Method 8270C ***
Benzo(a)Anthracene	ND	400ug/Kg	Method 8270C ***
Benzo(a)Pyrene	ND	400ug/Kg	Method 8270C ***
Benzo(b)Fluoranthene	ND	400ug/Kg	Method 8270C ***
Benzo(g,h,i)Perylene	ND	400ug/Kg	Method 8270C ***
Benzo(k)Fluoranthene	ND	400ug/Kg	Method 8270C ***
Benzoic Acid	ND	2000ug/Kg	Method 8270C ***
Benzyl alcohol	ND	400ug/Kg	Method 8270C ***
bis(2-Chloroethoxy)Methane	ND	400ug/Kg	Method 8270C ***

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811B71-01	SOIL	GP-5 14-17'	11/24/98

Compound	Result	Det Limit	Method
bis(2-Chloroethyl)Ether	ND	400ug/Kg	Method 8270C ***
bis(2-Chloroisopropyl)Ether	ND	400ug/Kg	Method 8270C ***
bis(2-Ethylhexyl)Phthalate	ND	400ug/Kg	Method 8270C ***
Butylbenzylphthalate	ND	400ug/Kg	Method 8270C ***
Carbazole	ND	400ug/Kg	Method 8270C ***
Chrysene	ND	400ug/Kg	Method 8270C ***
di-n-Butyl phthalate	ND	400ug/Kg	Method 8270C ***
Di-n-Octyl Phthalate	ND	800ug/Kg	Method 8270C ***
Dibenz(a,h)Anthracene	ND	400ug/Kg	Method 8270C ***
Dibenzofuran	ND	400ug/Kg	Method 8270C ***
Diethylphthalate	ND	400ug/Kg	Method 8270C ***
Dimethyl Phthalate	ND	400ug/Kg	Method 8270C ***
Fluoranthene	ND	400ug/Kg	Method 8270C ***
Fluorene	ND	400ug/Kg	Method 8270C ***
Hexachlorobenzene	ND	400ug/Kg	Method 8270C ***
Hexachlorobutadiene	ND	400ug/Kg	Method 8270C ***
Hexachlorocyclopentadiene	ND	400ug/Kg	Method 8270C ***
Hexachloroethane	ND	400ug/Kg	Method 8270C ***
Indeno(1,2,3-cd)Pyrene	ND	400ug/Kg	Method 8270C ***
Isophorone	ND	400ug/Kg	Method 8270C ***
m,p-Cresols	ND	400ug/Kg	Method 8270C ***
N-Nitroso-Di-n-Propylamine	ND	400ug/Kg	Method 8270C ***
N-Nitrosodiphenylamine (1)	ND	400ug/Kg	Method 8270C ***
Naphthalene	ND	400ug/Kg	Method 8270C ***
Nitrobenzene	ND	400ug/Kg	Method 8270C ***
Pentachlorophenol	ND	790ug/Kg	Method 8270C ***
Phenanthrene	ND	400ug/Kg	Method 8270C ***
Phenol	ND	400ug/Kg	Method 8270C ***
Pyrene	ND	400ug/Kg	Method 8270C ***
Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	15mg/Kg	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	15mg/Kg	Method MA VPH
Unadjusted Aromatics C9-C10	ND	15mg/Kg	Method MA VPH

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811B33-01	SOIL	GP-6 19-22'	11/23/98

Compound	Result	Det Limit	Method
Vinyl chloride	ND	6ug/Kg	Method 8260B ***
Xylenes (total)	ND	6ug/Kg	Method 8260B ***
1,2,4-Trichlorobenzene	ND	430ug/Kg	Method 8270C ***
1,2-Dichlorobenzene	ND	430ug/Kg	Method 8270C ***
1,2-Diphenylhydrazine	ND	430ug/Kg	Method 8270C ***
1,3-Dichlorobenzene	ND	430ug/Kg	Method 8270C ***
1,4-Dichlorobenzene	ND	430ug/Kg	Method 8270C ***
2,4,5-Trichlorophenol	ND	1100ug/Kg	Method 8270C ***
2,4,6-Trichlorophenol	ND	430ug/Kg	Method 8270C ***
2,4-Dichlorophenol	ND	430ug/Kg	Method 8270C ***
2,4-Dimethylphenol	ND	430ug/Kg	Method 8270C ***
2,4-Dinitrophenol	ND	850ug/Kg	Method 8270C ***
2,4-Dinitrotoluene	ND	430ug/Kg	Method 8270C ***
2,6-Dinitrotoluene	ND	430ug/Kg	Method 8270C ***
2-Chloronaphthalene	ND	430ug/Kg	Method 8270C ***
2-Chlorophenol	ND	430ug/Kg	Method 8270C ***
2-Methylnaphthalene	ND	430ug/Kg	Method 8270C ***
2-Methylphenol	ND	430ug/Kg	Method 8270C ***
2-Nitroaniline	ND	1100ug/Kg	Method 8270C ***
2-Nitrophenol	ND	430ug/Kg	Method 8270C ***
3,3'-Dichlorobenzidine	ND	430ug/Kg	Method 8270C ***
3-Nitroaniline	ND	1100ug/Kg	Method 8270C ***
4,6-Dinitro-2-Methylphenol	ND	850ug/Kg	Method 8270C ***
4-Bromophenylphenyl ether	ND	430ug/Kg	Method 8270C ***
4-Chloro-3-Methylphenol	ND	430ug/Kg	Method 8270C ***
4-Chloroaniline	ND	430ug/Kg	Method 8270C ***
4-Chlorophenylphenyl ether	ND	430ug/Kg	Method 8270C ***
4-Nitroaniline	ND	1100ug/Kg	Method 8270C ***
4-Nitrophenol	ND	850ug/Kg	Method 8270C ***
Acenaphthene	ND	430ug/Kg	Method 8270C ***
Acenaphthylene	ND	430ug/Kg	Method 8270C ***
Aniline	ND	430ug/Kg	Method 8270C ***
Anthracene	ND	430ug/Kg	Method 8270C ***
Benzo(a)Anthracene	ND	430ug/Kg	Method 8270C ***
Benzo(a)Pyrene	ND	430ug/Kg	Method 8270C ***
Benzo(b)Fluoranthene	ND	430ug/Kg	Method 8270C ***
Benzo(g,h,i)Perylene	ND	430ug/Kg	Method 8270C ***
Benzo(k)Fluoranthene	ND	430ug/Kg	Method 8270C ***
Benzoic Acid	ND	2100ug/Kg	Method 8270C ***
Benzyl alcohol	ND	430ug/Kg	Method 8270C ***
bis(2-Chloroethoxy)Methane	ND	430ug/Kg	Method 8270C ***

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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FAX (318) 237-8005

Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B33-01	SOIL	GP-6 19-22'	11/23/98	bis(2-Chloroethyl)Ether	ND	430ug/Kg	Method 8270C ***
				bis(2-Chloroisopropyl)Ether	ND	430ug/Kg	Method 8270C ***
				bis(2-Ethylhexyl)Phthalate	ND	430ug/Kg	Method 8270C ***
				Butylbenzylphthalate	ND	430ug/Kg	Method 8270C ***
				Carbazole	ND	430ug/Kg	Method 8270C ***
				Chrysene	ND	430ug/Kg	Method 8270C ***
				di-n-Butyl phthalate	ND	430ug/Kg	Method 8270C ***
				Di-n-Octyl Phthalate	ND	860ug/Kg	Method 8270C ***
				Dibenz(a,h)Anthracene	ND	430ug/Kg	Method 8270C ***
				Dibenzofuran	ND	430ug/Kg	Method 8270C ***
				Diethylphthalate	ND	430ug/Kg	Method 8270C ***
				Dimethyl Phthalate	ND	430ug/Kg	Method 8270C ***
				Fluoranthene	ND	430ug/Kg	Method 8270C ***
				Fluorene	ND	430ug/Kg	Method 8270C ***
				Hexachlorobenzene	ND	430ug/Kg	Method 8270C ***
				Hexachlorobutadiene	ND	430ug/Kg	Method 8270C ***
				Hexachlorocyclopentadiene	ND	430ug/Kg	Method 8270C ***
				Hexachloroethane	ND	430ug/Kg	Method 8270C ***
				Indeno(1,2,3-cd)Pyrene	ND	430ug/Kg	Method 8270C ***
				Isophorone	ND	430ug/Kg	Method 8270C ***
				m,p-Cresols	ND	430ug/Kg	Method 8270C ***
				N-Nitroso-Di-n-Propylamine	ND	430ug/Kg	Method 8270C ***
				N-Nitrosodiphenylamine (1)	ND	430ug/Kg	Method 8270C ***
				Naphthalene	ND	430ug/Kg	Method 8270C ***
				Nitrobenzene	ND	430ug/Kg	Method 8270C ***
				Pentachlorophenol	ND	850ug/Kg	Method 8270C ***
				Phenanthrene	ND	430ug/Kg	Method 8270C ***
				Phenol	ND	430ug/Kg	Method 8270C ***
				Pyrene	ND	430ug/Kg	Method 8270C ***
				Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
				Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
				Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
				Unadjusted Aliphatics C5-C8	ND	16mg/Kg	Method MA VPH
				Unadjusted Aliphatics C9-C12	ND	16mg/Kg	Method MA VPH
				Unadjusted Aromatics C9-C10	ND	16mg/Kg	Method MA VPH

(ppb)

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

*****SUMMARY REPORT*****

Date: Wednesday, December 09, 1998

Project No: 335927785

Company: UNOCAL CORPORATION

Project: #9787214,1342 TROLLINGWOOD RD

Site: MEBANE, NC

MSCC's Res./Com (ppm)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-01	SOIL	GP-5 14-17'	11/24/98	Total Solids	83.4	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	6ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	6ug/Kg	Method 8260B ***
				2-Butanone	ND	12ug/Kg	Method 8260B ***
				2-Hexanone	ND	6ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	6ug/Kg	Method 8260B ***
				Acetone	ND	120ug/Kg	Method 8260B ***
				Benzene	ND	6ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	6ug/Kg	Method 8260B ***
				Bromoform	ND	6ug/Kg	Method 8260B ***
				Bromomethane	ND	6ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	6ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	6ug/Kg	Method 8260B ***
				Chlorobenzene	ND	6ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	6ug/Kg	Method 8260B ***
				Chloroethane	ND	6ug/Kg	Method 8260B ***
				Chloroform	ND	6ug/Kg	Method 8260B ***
				Chloromethane	ND	6ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	6ug/Kg	Method 8260B ***
				Ethylbenzene	ND	6ug/Kg	Method 8260B ***
				Isopropyl ether	ND	6ug/Kg	Method 8260B ***
				m,p-Xylene(s)	ND	6ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	ND	6ug/Kg	Method 8260B ***
				Methylene chloride	ND	6ug/Kg	Method 8260B ***
				o-Xylene	ND	6ug/Kg	Method 8260B ***
				Styrene	ND	6ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	6ug/Kg	Method 8260B ***
				Toluene	ND	6ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	6ug/Kg	Method 8260B ***
				Trichloroethene	ND	6ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	6ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	6ug/Kg (ppb)	Method 8260B ***

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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PHONE (318) 237-4775
FAX (318) 237-8005

Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B33-01	SOIL	GP-6 19-22'	11/23/98	Total Solids	77.7	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	6ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	6ug/Kg	Method 8260B ***
				2-Butanone	ND	13ug/Kg	Method 8260B ***
				2-Hexanone	ND	6ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	6ug/Kg	Method 8260B ***
				Acetone	ND	130ug/Kg	Method 8260B ***
				Benzene	ND	6ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	6ug/Kg	Method 8260B ***
				Bromoform	ND	6ug/Kg	Method 8260B ***
				Bromomethane	ND	6ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	6ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	6ug/Kg	Method 8260B ***
				Chlorobenzene	ND	6ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	6ug/Kg	Method 8260B ***
				Chloroethane	ND	6ug/Kg	Method 8260B ***
				Chloroform	ND	6ug/Kg	Method 8260B ***
				Chloromethane	ND	6ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	6ug/Kg	Method 8260B ***
				Ethylbenzene	ND	6ug/Kg	Method 8260B ***
				Isopropyl ether	ND	6ug/Kg	Method 8260B ***
				m,p-Xylene(s)	ND	6ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	ND	6ug/Kg	Method 8260B ***
				Methylene chloride	ND	6ug/Kg	Method 8260B ***
				o-Xylene	ND	6ug/Kg	Method 8260B ***
				Styrene	ND	6ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	6ug/Kg	Method 8260B ***
				Toluene	ND	6ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	6ug/Kg	Method 8260B ***
				Trichloroethene	ND	6ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	6ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	6ug/Kg	Method 8260B ***

(ppb)

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

9811604

SPL Laboratories, Inc.

☐ 1511 East Orangethorpe Ave. Fullerton, CA 92631 (714) 447-6868 Fax: (714) 447-6800

☐ 6880 Interchange Drive Houston, Texas 77054 (713) 660-0901 Fax: (713) 660-8975

☐ 500 Ambassador Caffery Pkwy. Scott, Louisiana 70583 (318) 237-4775 Fax: (318) 237-7080

UNOCAL

Chain of Custody Record

Company Name: S&ME, INC.	Project Name: UNOCAL MEBANE 9787-24
Address: 9751 S. PINE BLVD.	UNOCAL Project Manager:
City: CHARLOTTE State: NC Zip Code: 28273	AFE#: 335927785
Telephone: FAX:	Site #:
Report To: STEWART HINES Sampler: GARY SIMCOX	QC Data: ☑ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: (Calendar Days) ☐ 10 Days (Standard) ☐ 5 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day ☐ 2-8 Hours

CODE: ☐ Misc. ☐ Detecl. ☐ 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 #	LOI	Cl2 + MBS + IPC	504.1 (EDB)	PB 3030C	EPH	VPH	625 + 10 Highest Non-Target Peaks			Comments
MW-7	11/11/98 8:20	W	11			X	X	X	X	X	X	X			
MW-8	11/11/98 9:30	W	11			X	X	X	X	X	X	X			
MW-3	11/11/98 10:00	W	11			X	X	X	X	X	X	X			
DMW-5	11/11/98 11:30	W	11			X	X	X	X	X	X	X			60 IW
WILLIAMS	11/11/98 12:30	W	11			X	X	X	X	X	X	X			8602M2
T:3	11-3-98 15:30					X	X								P504. 504-IW
															PW3030, PWG
											EXMACF				EPHMAW, EXMATF,8
															VPHMAW
															PRP625. 625, TICSW

11/20/98

Relinquished By: [signature]	Date: 11/12/98	Time: 3:10P	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: [signature]	Date: 11-13-98	Time: 11:20

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

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method	
9811604-03	WATER	MW-3	11/11/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	(gpb)
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,2-Dichloroethane	46	5.00ug/L	Method 601 40 CFR PART 13	380
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13	
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Chloroform	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Lead, Total	ND	0.002mg/L	Method 239.2 *	
				1,2-Dibromoethane	ND	0.02ug/L	Method 504 Revision 2.0	
				Isopropyl Ether	30	8ug/L	Method 602 40 CFR PART 136	70,000
				1,2,4-Trichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136	
				1,2-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136	
				1,3-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136	
				1,4-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136	
				2,4,6-Trichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136	
				2,4-Dichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136	
				2,4-Dimethylphenol	ND	5ug/L	Method 625 40 CFR Part 136	

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-03	WATER	MW-3	11/11/98	2,4-Dinitrophenol	ND	20ug/L	Method 625 40 CFR Part 136
				2,4-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2,6-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chloronaphthalene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2-Nitrophenol	ND	5ug/L	Method 625 40 CFR Part 136
				3,3'-Dichlorobenzidine	ND	5ug/L	Method 625 40 CFR Part 136
				4,6-Dinitro-2-Methylphenol	ND	20ug/L	Method 625 40 CFR Part 136
				4-Bromophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chloro-3-Methylphenol	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chlorophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Nitrophenol	ND	20ug/L	Method 625 40 CFR Part 136
				Acenaphthene	ND	5ug/L	Method 625 40 CFR Part 136
				Acenaphthylene	ND	5ug/L	Method 625 40 CFR Part 136
				Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzidine	ND	41ug/L	Method 625 40 CFR Part 136
				Benzo(a)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(a)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(b)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(g,h,i)Perylene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(k)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethoxy)Methane	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroisopropyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Ethylhexyl)Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Butylbenzylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Chrysene	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Butylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Octyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dibenz(a,h)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Diethylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dimethyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Fluorene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobutadiene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorocyclopentadiene	ND	10ug/L	Method 625 40 CFR Part 136
				Hexachloroethane	ND	5ug/L	Method 625 40 CFR Part 136
				Indeno(1,2,3-cd)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Isophorone	ND	5ug/L	Method 625 40 CFR Part 136
				N-Nitroso-Di-n-Propylamine	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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PHONE (318) 237-4775
FAX (318) 237-8005

Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected
9811604-03	WATER	MW-3	11/11/98

Compound	Result	Det Limit	Method	GCL (ppb)
N-Nitrosodiphenylamine (1)	ND	5ug/L	Method 625 40 CFR Part 136	
Naphthalene	ND	5ug/L	Method 625 40 CFR Part 136	
Nitrobenzene	ND	5ug/L	Method 625 40 CFR Part 136	
Pentachlorophenol	ND	20ug/L	Method 625 40 CFR Part 136	
Phenanthrene	ND	5ug/L	Method 625 40 CFR Part 136	
Phenol	ND	5ug/L	Method 625 40 CFR Part 136	
Pyrene	ND	5ug/L	Method 625 40 CFR Part 136	
Unadjusted Aliphatics C19-C36	ND	0.181mg/L	Method MA EPH	
Unadjusted Aliphatics C9-C18	0.13	0.087mg/L	Method MA EPH	NA
Unadjusted Aromatics C11-C22	ND	0.38mg/L	Method MA EPH	
Unadjusted Aliphatics C5-C8	0.28	0.25mg/L	Method MA VPH	NA
Unadjusted Aliphatics C9-C12	ND	0.25mg/L	Method MA VPH	
Unadjusted Aromatics C9-C10	ND	0.25mg/L	Method MA VPH	
MTBE	25	8ug/L	Method 602 40 CFR PART 136	200,000
Benzene	5.3	1ug/L	Method 602 40 CFR PART 136	5000
Toluene	ND	1ug/L	Method 602 40 CFR PART 136	
EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136	
Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136	

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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PHONE (318) 237-4775
FAX (318) 237-8005

Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-04	WATER	DMW-5	11/11/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Lead, Total	ND	0.002mg/L	Method 239.2 *
				1,2-Dibromoethane	ND	0.02ug/L	Method 504 Revision 2.0
				Isopropyl Ether	ND	8ug/L	Method 602 40 CFR PART 136
				1,2,4-Trichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,2-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,3-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,4-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				2,4,6-Trichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dimethylphenol	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL (pp6)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-04	WATER	DMW-5	11/11/98	2,4-Dinitrophenol	ND	20ug/L	Method 625 40 CFR Part 136
				2,4-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2,6-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chloronaphthalene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2-Nitrophenol	ND	5ug/L	Method 625 40 CFR Part 136
				3,3'-Dichlorobenzidine	ND	5ug/L	Method 625 40 CFR Part 136
				4,6-Dinitro-2-Methylphenol	ND	20ug/L	Method 625 40 CFR Part 136
				4-Bromophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chloro-3-Methylphenol	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chlorophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Nitrophenol	ND	20ug/L	Method 625 40 CFR Part 136
				Acenaphthene	ND	5ug/L	Method 625 40 CFR Part 136
				Acenaphthylene	ND	5ug/L	Method 625 40 CFR Part 136
				Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzidine	ND	41ug/L	Method 625 40 CFR Part 136
				Benzo(a)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(a)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(b)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(g,h,i)Perylene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(k)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethoxy)Methane	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroisopropyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Ethylhexyl)Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Butylbenzylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Chrysene	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Butylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Octyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dibenz(a,h)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Diethylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dimethyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Fluorene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobutadiene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorocyclopentadiene	ND	10ug/L	Method 625 40 CFR Part 136
				Hexachloroethane	ND	5ug/L	Method 625 40 CFR Part 136
				Indeno(1,2,3-cd)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Isophorone	ND	5ug/L	Method 625 40 CFR Part 136
				N-Nitroso-Di-n-Propylamine	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-04	WATER	DMW-5	11/11/98	N-Nitrosodiphenylamine (1)	ND	5ug/L	Method 625 40 CFR Part 136
				Naphthalene	ND	5ug/L	Method 625 40 CFR Part 136
				Nitrobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				Pentachlorophenol	ND	20ug/L	Method 625 40 CFR Part 136
				Phenanthrene	ND	5ug/L	Method 625 40 CFR Part 136
				Phenol	ND	5ug/L	Method 625 40 CFR Part 136
				Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Unadjusted Aliphatics C19-C36	ND	0.139mg/L	Method MA EPH
				Unadjusted Aliphatics C9-C18	0.10	0.067mg/L	Method MA EPH
				Unadjusted Aromatics C11-C22	ND	0.38mg/L	Method MA EPH
				Unadjusted Aliphatics C5-C8	ND	0.25mg/L	Method MA VPH
				Unadjusted Aliphatics C9-C12	ND	0.25mg/L	Method MA VPH
				Unadjusted Aromatics C9-C10	ND	0.25mg/L	Method MA VPH
				MTBE	ND	8ug/L	Method 602 40 CFR PART 136
				Benzene	ND	1ug/L	Method 602 40 CFR PART 136
				Toluene	ND	1ug/L	Method 602 40 CFR PART 136
				EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
				Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

NA

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method	
9811604-01	WATER	MW-7	11/11/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,2-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13	
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Chloroform	3.2	0.50ug/L	Method 601 40 CFR PART 13	NA
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13	
				Lead, Total	*0.003	0.002mg/L	Method 239.2 *	15,000
				1,2-Dibromoethane	ND	0.02ug/L	Method 504 Revision 2.0	
				Isopropyl Ether	ND	8ug/L	Method 602 40 CFR PART 136	
				1,2,4-Trichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136	
				1,2-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136	
				1,3-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136	
				1,4-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136	
				2,4,6-Trichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136	
				2,4-Dichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136	
				2,4-Dimethylphenol	ND	5ug/L	Method 625 40 CFR Part 136	

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected
9811604-01	WATER	MW-7	11/11/98

Compound	Result	Det Limit	Method
2,4-Dinitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
2,4-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
2,6-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
2-Chloronaphthalene	ND	5ug/L	Method 625 40 CFR Part 136
2-Chlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
2-Nitrophenol	ND	5ug/L	Method 625 40 CFR Part 136
3,3'-Dichlorobenzidine	ND	5ug/L	Method 625 40 CFR Part 136
4,6-Dinitro-2-Methylphenol	ND	21ug/L	Method 625 40 CFR Part 136
4-Bromophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
4-Chloro-3-Methylphenol	ND	5ug/L	Method 625 40 CFR Part 136
4-Chlorophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
4-Nitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
Acenaphthene	ND	5ug/L	Method 625 40 CFR Part 136
Acenaphthylene	ND	5ug/L	Method 625 40 CFR Part 136
Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Benzidine	ND	41ug/L	Method 625 40 CFR Part 136
Benzo(a)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(a)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(b)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(g,h,i)Perylene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(k)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroethoxy)Methane	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroethyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroisopropyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Ethylhexyl)Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Butylbenzylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Chrysene	ND	5ug/L	Method 625 40 CFR Part 136
Di-n-Butylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Di-n-Octyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Dibenz(a,h)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Diethylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Dimethyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
Fluorene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorobutadiene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorocyclopentadiene	ND	10ug/L	Method 625 40 CFR Part 136
Hexachloroethane	ND	5ug/L	Method 625 40 CFR Part 136
Indeno(1,2,3-cd)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Isophorone	ND	5ug/L	Method 625 40 CFR Part 136
N-Nitroso-Di-n-Propylamine	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

GCL

(PPB)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-01	WATER	MW-7	11/11/98	N-Nitrosodiphenylamine (1)	ND	5ug/L	Method 625 40 CFR Part 136
				Naphthalene	ND	5ug/L	Method 625 40 CFR Part 136
				Nitrobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				Pentachlorophenol	ND	21ug/L	Method 625 40 CFR Part 136
				Phenanthrene	ND	5ug/L	Method 625 40 CFR Part 136
				Phenol	ND	5ug/L	Method 625 40 CFR Part 136
				Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Unadjusted Aliphatics C19-C36	ND	0.132mg/L	Method MA EPH
				Unadjusted Aliphatics C9-C18	0.13	0.063mg/L	Method MA EPH
				Unadjusted Aromatics C11-C22	ND	0.38mg/L	Method MA EPH
				Unadjusted Aliphatics C5-C8	ND	0.25mg/L	Method MA VPH
				Unadjusted Aliphatics C9-C12	ND	0.25mg/L	Method MA VPH
				Unadjusted Aromatics C9-C10	ND	0.25mg/L	Method MA VPH
				MTBE	ND	8ug/L	Method 602 40 CFR PART 136
				Benzene	ND	1ug/L	Method 602 40 CFR PART 136
				Toluene	ND	1ug/L	Method 602 40 CFR PART 136
				EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
				Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

NA

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.

**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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PHONE (318) 237-4775
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Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-02	WATER	MW-8	11/11/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Lead, Total	0.008	0.002mg/L	Method 239.2 *
				1,2-Dibromoethane	ND	0.02ug/L	Method 504 Revision 2.0
				Isopropyl Ether	ND	8ug/L	Method 602 40 CFR PART 136
				1,2,4-Trichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,2-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,3-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,4-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				2,4,6-Trichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dimethylphenol	ND	5ug/L	Method 625 40 CFR Part 136

15,000

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-02	WATER	MW-8	11/11/98	2,4-Dinitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
				2,4-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2,6-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chloronaphthalene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2-Nitrophenol	ND	5ug/L	Method 625 40 CFR Part 136
				3,3'-Dichlorobenzidine	ND	5ug/L	Method 625 40 CFR Part 136
				4,6-Dinitro-2-Methylphenol	ND	21ug/L	Method 625 40 CFR Part 136
				4-Bromophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chloro-3-Methylphenol	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chlorophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Nitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
				Acenaphthene	ND	5ug/L	Method 625 40 CFR Part 136
				Acenaphthylene	ND	5ug/L	Method 625 40 CFR Part 136
				Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzidine	ND	42ug/L	Method 625 40 CFR Part 136
				Benzo(a)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(a)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(b)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(g,h,i)Perylene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(k)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethoxy)Methane	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroisopropyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Ethylhexyl)Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Butylbenzylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Chrysene	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Butylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Octyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dibenz(a,h)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Diethylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dimethyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Fluorene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobutadiene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorocyclopentadiene	ND	10ug/L	Method 625 40 CFR Part 136
				Hexachloroethane	ND	5ug/L	Method 625 40 CFR Part 136
				Indeno(1,2,3-cd)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Isophorone	ND	5ug/L	Method 625 40 CFR Part 136
				N-Nitroso-Di-n-Propylamine	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes: ***Ref:** Methods for chemical Analysis of Water and Wastes, 1983, EPA.

****Ref:** Standard Methods for Examination of Water and Wastewater, 18th ed.

*****Ref:** Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected
9811604-02	WATER	MW-8	11/11/98

Compound	Result	Det Limit	Method
N-Nitrosodiphenylamine (1)	ND	5ug/L	Method 625 40 CFR Part 136
Naphthalene	ND	5ug/L	Method 625 40 CFR Part 136
Nitrobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Pentachlorophenol	ND	21ug/L	Method 625 40 CFR Part 136
Phenanthrene	ND	5ug/L	Method 625 40 CFR Part 136
Phenol	ND	5ug/L	Method 625 40 CFR Part 136
Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Unadjusted Aliphatics C19-C36	ND	0.158mg/L	Method MA EPH
Unadjusted Aliphatics C9-C18	0.14	0.076mg/L	Method MA EPH
Unadjusted Aromatics C11-C22	ND	0.38mg/L	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	0.25mg/L	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	0.25mg/L	Method MA VPH
Unadjusted Aromatics C9-C10	ND	0.25mg/L	Method MA VPH
MTBE	ND	8ug/L	Method 602 40 CFR PART 136
Benzene	ND	1ug/L	Method 602 40 CFR PART 136
Toluene	ND	1ug/L	Method 602 40 CFR PART 136
EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

NA

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL
TPPO

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-05	WATER	WILLIAMS	11/11/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Lead, Total	ND	0.002mg/L	Method 239.2 *
				1,2-Dibromoethane	ND	0.02ug/L	Method 504 Revision 2.0
				Isopropyl Ether	ND	8ug/L	Method 602 40 CFR PART 136
				1,2,4-Trichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,2-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,3-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,4-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				2,4,6-Trichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dimethylphenol	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-05	WATER	WILLIAMS	11/11/98	2,4-Dinitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
				2,4-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2,6-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chloronaphthalene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2-Nitrophenol	ND	5ug/L	Method 625 40 CFR Part 136
				3,3'-Dichlorobenzidine	ND	5ug/L	Method 625 40 CFR Part 136
				4,6-Dinitro-2-Methylphenol	ND	21ug/L	Method 625 40 CFR Part 136
				4-Bromophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chloro-3-Methylphenol	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chlorophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Nitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
				Acenaphthene	ND	5ug/L	Method 625 40 CFR Part 136
				Acenaphthylene	ND	5ug/L	Method 625 40 CFR Part 136
				Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzidine	ND	42ug/L	Method 625 40 CFR Part 136
				Benzo(a)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(a)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(b)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(g,h,i)Perylene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(k)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethoxy)Methane	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroisopropyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Ethylhexyl)Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Butylbenzylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Chrysene	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Butylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Octyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dibenz(a,h)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Diethylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dimethyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Fluorene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobutadiene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorocyclopentadiene	ND	10ug/L	Method 625 40 CFR Part 136
				Hexachloroethane	ND	5ug/L	Method 625 40 CFR Part 136
				Indeno(1,2,3-cd)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Isophorone	ND	5ug/L	Method 625 40 CFR Part 136
				N-Nitroso-Di-n-Propylamine	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected
9811604-05	WATER	WILLIAMS	11/11/98

Compound	Result	Det Limit	Method
N-Nitrosodiphenylamine (1)	ND	5ug/L	Method 625 40 CFR Part 136
Naphthalene	ND	5ug/L	Method 625 40 CFR Part 136
Nitrobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Pentachlorophenol	ND	21ug/L	Method 625 40 CFR Part 136
Phenanthrene	ND	5ug/L	Method 625 40 CFR Part 136
Phenol	ND	5ug/L	Method 625 40 CFR Part 136
Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Unadjusted Aliphatics C19-C36	ND	0.250mg/L	Method MA EPH
Unadjusted Aliphatics C9-C18	0.20	0.120mg/L	Method MA EPH
Unadjusted Aromatics C11-C22	ND	0.38mg/L	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	0.25mg/L	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	0.25mg/L	Method MA VPH
Unadjusted Aromatics C9-C10	ND	0.25mg/L	Method MA VPH
MTBE	ND	8ug/L	Method 602 40 CFR PART 136
Benzene	ND	1ug/L	Method 602 40 CFR PART 136
Toluene	ND	1ug/L	Method 602 40 CFR PART 136
EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

NA

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, November 25, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

GCL (ppb)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-06	WATER	TRIP BLANK	11/3/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Isopropyl Ether	ND	8ug/L	Method 602 40 CFR PART 136
				MTBE	ND	8ug/L	Method 602 40 CFR PART 136
				Benzene	ND	1ug/L	Method 602 40 CFR PART 136
				Toluene	ND	1ug/L	Method 602 40 CFR PART 136
				EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
				Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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REC'D DEC 1 9 1998

LABORATORY REPORT

SPL WORKORDER NUMBER: 9811B71

Reported: 12/09/98

Submitted to:
STEWART HINES
S&ME
9751 SOUTHERN PINE BLVD
CHARLOTTE NC 28273

Prepared For: UNOCAL CORPORATION

Measurement Basis: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Approved By:

ANNIE REEDY
Project Manager

Note: This report may not be reproduced, except in full, without written permission from SPL.

LAFAYETTE LABORATORY
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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-01	SOIL	GP-5 14-17'	11/24/98	Total Solids	83.4	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	6ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	6ug/Kg	Method 8260B ***
				2-Butanone	ND	12ug/Kg	Method 8260B ***
				2-Hexanone	ND	6ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	6ug/Kg	Method 8260B ***
				Acetone	ND	120ug/Kg	Method 8260B ***
				Benzene	ND	6ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	6ug/Kg	Method 8260B ***
				Bromoform	ND	6ug/Kg	Method 8260B ***
				Bromomethane	ND	6ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	6ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	6ug/Kg	Method 8260B ***
				Chlorobenzene	ND	6ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	6ug/Kg	Method 8260B ***
				Chloroethane	ND	6ug/Kg	Method 8260B ***
				Chloroform	ND	6ug/Kg	Method 8260B ***
				Chloromethane	ND	6ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	6ug/Kg	Method 8260B ***
				Ethylbenzene	ND	6ug/Kg	Method 8260B ***
				Isopropyl ether	ND	6ug/Kg	Method 8260B ***
				m,p-Xylene(s)	ND	6ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	ND	6ug/Kg	Method 8260B ***
				Methylene chloride	ND	6ug/Kg	Method 8260B ***
				o-Xylene	ND	6ug/Kg	Method 8260B ***
				Styrene	ND	6ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	6ug/Kg	Method 8260B ***
				Toluene	ND	6ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	6ug/Kg	Method 8260B ***
				Trichloroethene	ND	6ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	6ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	6ug/Kg	Method 8260B ***

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-01	SOIL	GP-5 14-17'	11/24/98	Vinyl chloride	ND	6ug/Kg	Method 8260B ***
				Xylenes (total)	ND	6ug/Kg	Method 8260B ***
				1,2,4-Trichlorobenzene	ND	400ug/Kg	Method 8270C ***
				1,2-Dichlorobenzene	ND	400ug/Kg	Method 8270C ***
				1,2-Diphenylhydrazine	ND	400ug/Kg	Method 8270C ***
				1,3-Dichlorobenzene	ND	400ug/Kg	Method 8270C ***
				1,4-Dichlorobenzene	ND	400ug/Kg	Method 8270C ***
				2,4,5-Trichlorophenol	ND	1000ug/Kg	Method 8270C ***
				2,4,6-Trichlorophenol	ND	400ug/Kg	Method 8270C ***
				2,4-Dichlorophenol	ND	400ug/Kg	Method 8270C ***
				2,4-Dimethylphenol	ND	400ug/Kg	Method 8270C ***
				2,4-Dinitrophenol	ND	790ug/Kg	Method 8270C ***
				2,4-Dinitrotoluene	ND	400ug/Kg	Method 8270C ***
				2,6-Dinitrotoluene	ND	400ug/Kg	Method 8270C ***
				2-Chloronaphthalene	ND	400ug/Kg	Method 8270C ***
				2-Chlorophenol	ND	400ug/Kg	Method 8270C ***
				2-Methylnaphthalene	ND	400ug/Kg	Method 8270C ***
				2-Methylphenol	ND	400ug/Kg	Method 8270C ***
				2-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
				2-Nitrophenol	ND	400ug/Kg	Method 8270C ***
				3,3'-Dichlorobenzidine	ND	400ug/Kg	Method 8270C ***
				3-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
				4,6-Dinitro-2-Methylphenol	ND	790ug/Kg	Method 8270C ***
				4-Bromophenylphenyl ether	ND	400ug/Kg	Method 8270C ***
				4-Chloro-3-Methylphenol	ND	400ug/Kg	Method 8270C ***
				4-Chloroaniline	ND	400ug/Kg	Method 8270C ***
				4-Chlorophenylphenyl ether	ND	400ug/Kg	Method 8270C ***
				4-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
				4-Nitrophenol	ND	790ug/Kg	Method 8270C ***
				Acenaphthene	ND	400ug/Kg	Method 8270C ***
				Acenaphthylene	ND	400ug/Kg	Method 8270C ***
				Aniline	ND	400ug/Kg	Method 8270C ***
				Anthracene	ND	400ug/Kg	Method 8270C ***
				Benzo(a)Anthracene	ND	400ug/Kg	Method 8270C ***
				Benzo(a)Pyrene	ND	400ug/Kg	Method 8270C ***
				Benzo(b)Fluoranthene	ND	400ug/Kg	Method 8270C ***
				Benzo(g,h,i)Perylene	ND	400ug/Kg	Method 8270C ***
				Benzo(k)Fluoranthene	ND	400ug/Kg	Method 8270C ***
				Benzoic Acid	ND	2000ug/Kg	Method 8270C ***
				Benzyl alcohol	ND	400ug/Kg	Method 8270C ***
				bis(2-Chloroethoxy)Methane	ND	400ug/Kg	Method 8270C ***

ND - Not Detected.

Notes: ***Ref:** Methods for chemical Analysis of Water and Wastes, 1983, EPA.

****Ref:** Standard Methods for Examination of Water and Wastewater, 18th ed.

*****Ref:** Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-01	SOIL	GP-5 14-17'	11/24/98	bis(2-Chloroethyl)Ether	ND	400ug/Kg	Method 8270C ***
				bis(2-Chloroisopropyl)Ether	ND	400ug/Kg	Method 8270C ***
				bis(2-Ethylhexyl)Phthalate	ND	400ug/Kg	Method 8270C ***
				Butylbenzylphthalate	ND	400ug/Kg	Method 8270C ***
				Carbazole	ND	400ug/Kg	Method 8270C ***
				Chrysene	ND	400ug/Kg	Method 8270C ***
				di-n-Butyl phthalate	ND	400ug/Kg	Method 8270C ***
				Di-n-Octyl Phthalate	ND	800ug/Kg	Method 8270C ***
				Dibenz(a,h)Anthracene	ND	400ug/Kg	Method 8270C ***
				Dibenzofuran	ND	400ug/Kg	Method 8270C ***
				Diethylphthalate	ND	400ug/Kg	Method 8270C ***
				Dimethyl Phthalate	ND	400ug/Kg	Method 8270C ***
				Fluoranthene	ND	400ug/Kg	Method 8270C ***
				Fluorene	ND	400ug/Kg	Method 8270C ***
				Hexachlorobenzene	ND	400ug/Kg	Method 8270C ***
				Hexachlorobutadiene	ND	400ug/Kg	Method 8270C ***
				Hexachlorocyclopentadiene	ND	400ug/Kg	Method 8270C ***
				Hexachloroethane	ND	400ug/Kg	Method 8270C ***
				Indeno(1,2,3-cd)Pyrene	ND	400ug/Kg	Method 8270C ***
				Isophorone	ND	400ug/Kg	Method 8270C ***
				m,p-Cresols	ND	400ug/Kg	Method 8270C ***
				N-Nitroso-Di-n-Propylamine	ND	400ug/Kg	Method 8270C ***
				N-Nitrosodiphenylamine (1)	ND	400ug/Kg	Method 8270C ***
				Naphthalene	ND	400ug/Kg	Method 8270C ***
				Nitrobenzene	ND	400ug/Kg	Method 8270C ***
				Pentachlorophenol	ND	790ug/Kg	Method 8270C ***
				Phenanthrene	ND	400ug/Kg	Method 8270C ***
				Phenol	ND	400ug/Kg	Method 8270C ***
				Pyrene	ND	400ug/Kg	Method 8270C ***
				Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
				Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
				Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
				Unadjusted Aliphatics C5-C8	ND	15mg/Kg	Method MA VPH
				Unadjusted Aliphatics C9-C12	ND	15mg/Kg	Method MA VPH
				Unadjusted Aromatics C9-C10	ND	15mg/Kg	Method MA VPH

ND - Not Detected.

Notes: ***Ref:** Methods for chemical Analysis of Water and Wastes, 1983, EPA.

****Ref:** Standard Methods for Examination of Water and Wastewater, 18th ed.

*****Ref:** Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-02	SOIL	GP-1 16-20'	11/24/98	Total Solids	70.7	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	710ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	710ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	710ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	710ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	710ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	710ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	710ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	710ug/Kg	Method 8260B ***
				2-Butanone	ND	1400ug/Kg	Method 8260B ***
				2-Hexanone	ND	710ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	710ug/Kg	Method 8260B ***
				Acetone	ND	14000ug/Kg	Method 8260B ***
				Benzene	ND	710ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	710ug/Kg	Method 8260B ***
				Bromoform	ND	710ug/Kg	Method 8260B ***
				Bromomethane	ND	710ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	710ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	710ug/Kg	Method 8260B ***
				Chlorobenzene	ND	710ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	710ug/Kg	Method 8260B ***
				Chloroethane	ND	710ug/Kg	Method 8260B ***
				Chloroform	ND	710ug/Kg	Method 8260B ***
				Chloromethane	ND	710ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	710ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	710ug/Kg	Method 8260B ***
				Ethylbenzene	8300	710ug/Kg	Method 8260B ***
				Isopropyl ether	ND	710ug/Kg	Method 8260B ***
				m,p-Xylene(s)	51000	710ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	ND	710ug/Kg	Method 8260B ***
				Methylene chloride	ND	710ug/Kg	Method 8260B ***
				o-Xylene	15000	710ug/Kg	Method 8260B ***
				Styrene	ND	710ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	710ug/Kg	Method 8260B ***
				Toluene	15000	710ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	710ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	710ug/Kg	Method 8260B ***
				Trichloroethene	ND	710ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	710ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	710ug/Kg	Method 8260B ***

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-02	SOIL	GP-1 16-20'	11/24/98	Vinyl chloride	ND	710ug/Kg	Method 8260B ***
				Xylenes (total)	64000	710ug/Kg	Method 8260B ***
				1,2,4-Trichlorobenzene	ND	470ug/Kg	Method 8270C ***
				1,2-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
				1,2-Diphenylhydrazine	ND	470ug/Kg	Method 8270C ***
				1,3-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
				1,4-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
				2,4,5-Trichlorophenol	ND	1200ug/Kg	Method 8270C ***
				2,4,6-Trichlorophenol	ND	470ug/Kg	Method 8270C ***
				2,4-Dichlorophenol	ND	470ug/Kg	Method 8270C ***
				2,4-Dimethylphenol	ND	470ug/Kg	Method 8270C ***
				2,4-Dinitrophenol	ND	940ug/Kg	Method 8270C ***
				2,4-Dinitrotoluene	ND	470ug/Kg	Method 8270C ***
				2,6-Dinitrotoluene	ND	470ug/Kg	Method 8270C ***
				2-Chloronaphthalene	ND	470ug/Kg	Method 8270C ***
				2-Chlorophenol	ND	470ug/Kg	Method 8270C ***
				2-Methylnaphthalene	ND	470ug/Kg	Method 8270C ***
				2-Methylphenol	ND	470ug/Kg	Method 8270C ***
				2-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
				2-Nitrophenol	ND	470ug/Kg	Method 8270C ***
				3,3'-Dichlorobenzidine	ND	470ug/Kg	Method 8270C ***
				3-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
				4,6-Dinitro-2-Methylphenol	ND	940ug/Kg	Method 8270C ***
				4-Bromophenylphenyl ether	ND	470ug/Kg	Method 8270C ***
				4-Chloro-3-Methylphenol	ND	470ug/Kg	Method 8270C ***
				4-Chloroaniline	ND	470ug/Kg	Method 8270C ***
				4-Chlorophenylphenyl ether	ND	470ug/Kg	Method 8270C ***
				4-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
				4-Nitrophenol	ND	940ug/Kg	Method 8270C ***
				Acenaphthene	ND	470ug/Kg	Method 8270C ***
				Acenaphthylene	ND	470ug/Kg	Method 8270C ***
				Aniline	ND	470ug/Kg	Method 8270C ***
				Anthracene	ND	470ug/Kg	Method 8270C ***
				Benzo(a)Anthracene	ND	470ug/Kg	Method 8270C ***
				Benzo(a)Pyrene	ND	470ug/Kg	Method 8270C ***
				Benzo(b)Fluoranthene	ND	470ug/Kg	Method 8270C ***
				Benzo(g,h,i)Perylene	ND	470ug/Kg	Method 8270C ***
				Benzo(k)Fluoranthene	ND	470ug/Kg	Method 8270C ***
				Benzoic Acid	ND	2400ug/Kg	Method 8270C ***
				Benzyl alcohol	ND	470ug/Kg	Method 8270C ***
				bis(2-Chloroethoxy)Methane	ND	470ug/Kg	Method 8270C ***

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-02	SOIL	GP-1 16-20'	11/24/98	bis(2-Chloroethyl)Ether	ND	470ug/Kg	Method 8270C ***
				bis(2-Chloroisopropyl)Ether	ND	470ug/Kg	Method 8270C ***
				bis(2-Ethylhexyl)Phthalate	ND	470ug/Kg	Method 8270C ***
				Butylbenzylphthalate	ND	470ug/Kg	Method 8270C ***
				Carbazole	ND	470ug/Kg	Method 8270C ***
				Chrysene	ND	470ug/Kg	Method 8270C ***
				di-n-Butyl phthalate	ND	470ug/Kg	Method 8270C ***
				Di-n-Octyl Phthalate	ND	940ug/Kg	Method 8270C ***
				Dibenz(a,h)Anthracene	ND	470ug/Kg	Method 8270C ***
				Dibenzofuran	ND	470ug/Kg	Method 8270C ***
				Diethylphthalate	ND	470ug/Kg	Method 8270C ***
				Dimethyl Phthalate	ND	470ug/Kg	Method 8270C ***
				Fluoranthene	ND	470ug/Kg	Method 8270C ***
				Fluorene	ND	470ug/Kg	Method 8270C ***
				Hexachlorobenzene	ND	470ug/Kg	Method 8270C ***
				Hexachlorobutadiene	ND	470ug/Kg	Method 8270C ***
				Hexachlorocyclopentadiene	ND	470ug/Kg	Method 8270C ***
				Hexachloroethane	ND	470ug/Kg	Method 8270C ***
				Indeno(1,2,3-cd)Pyrene	ND	470ug/Kg	Method 8270C ***
				Isophorone	ND	470ug/Kg	Method 8270C ***
				m,p-Cresols	ND	470ug/Kg	Method 8270C ***
				N-Nitroso-Di-n-Propylamine	ND	470ug/Kg	Method 8270C ***
				N-Nitrosodiphenylamine (1)	ND	470ug/Kg	Method 8270C ***
				Naphthalene	ND	470ug/Kg	Method 8270C ***
				Nitrobenzene	ND	470ug/Kg	Method 8270C ***
				Pentachlorophenol	ND	940ug/Kg	Method 8270C ***
				Phenanthrene	ND	470ug/Kg	Method 8270C ***
				Phenol	ND	470ug/Kg	Method 8270C ***
				Pyrene	ND	470ug/Kg	Method 8270C ***
				Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
				Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
				Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
				Unadjusted Aliphatics C5-C8	82	18mg/Kg	Method MA VPH
				Unadjusted Aliphatics C9-C12	270	18mg/Kg	Method MA VPH
				Unadjusted Aromatics C9-C10	83	18mg/Kg	Method MA VPH

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.

**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-03	SOIL	GP-4 12-16'	11/24/98	Total Solids	70.5	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	7ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	7ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	7ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	7ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	7ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	7ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	7ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	7ug/Kg	Method 8260B ***
				2-Butanone	ND	14ug/Kg	Method 8260B ***
				2-Hexanone	ND	7ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	7ug/Kg	Method 8260B ***
				Acetone	ND	140ug/Kg	Method 8260B ***
				Benzene	ND	7ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	7ug/Kg	Method 8260B ***
				Bromoform	ND	7ug/Kg	Method 8260B ***
				Bromomethane	ND	7ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	7ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	7ug/Kg	Method 8260B ***
				Chlorobenzene	ND	7ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	7ug/Kg	Method 8260B ***
				Chloroethane	ND	7ug/Kg	Method 8260B ***
				Chloroform	ND	7ug/Kg	Method 8260B ***
				Chloromethane	ND	7ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	7ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	7ug/Kg	Method 8260B ***
				Ethylbenzene	ND	7ug/Kg	Method 8260B ***
				Isopropyl ether	ND	7ug/Kg	Method 8260B ***
				m,p-Xylene(s)	ND	7ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	ND	7ug/Kg	Method 8260B ***
				Methylene chloride	ND	7ug/Kg	Method 8260B ***
				o-Xylene	ND	7ug/Kg	Method 8260B ***
				Styrene	ND	7ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	7ug/Kg	Method 8260B ***
				Toluene	ND	7ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	7ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	7ug/Kg	Method 8260B ***
				Trichloroethene	ND	7ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	7ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	7ug/Kg	Method 8260B ***

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-03	SOIL	GP-4 12-16'	11/24/98	Vinyl chloride	ND	7ug/Kg	Method 8260B ***
				Xylenes (total)	ND	7ug/Kg	Method 8260B ***
				1,2,4-Trichlorobenzene	ND	470ug/Kg	Method 8270C ***
				1,2-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
				1,2-Diphenylhydrazine	ND	470ug/Kg	Method 8270C ***
				1,3-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
				1,4-Dichlorobenzene	ND	470ug/Kg	Method 8270C ***
				2,4,5-Trichlorophenol	ND	1200ug/Kg	Method 8270C ***
				2,4,6-Trichlorophenol	ND	470ug/Kg	Method 8270C ***
				2,4-Dichlorophenol	ND	470ug/Kg	Method 8270C ***
				2,4-Dimethylphenol	ND	470ug/Kg	Method 8270C ***
				2,4-Dinitrophenol	ND	940ug/Kg	Method 8270C ***
				2,4-Dinitrotoluene	ND	470ug/Kg	Method 8270C ***
				2,6-Dinitrotoluene	ND	470ug/Kg	Method 8270C ***
				2-Chloronaphthalene	ND	470ug/Kg	Method 8270C ***
				2-Chlorophenol	ND	470ug/Kg	Method 8270C ***
				2-Methylnaphthalene	ND	470ug/Kg	Method 8270C ***
				2-Methylphenol	ND	470ug/Kg	Method 8270C ***
				2-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
				2-Nitrophenol	ND	470ug/Kg	Method 8270C ***
				3,3'-Dichlorobenzidine	ND	470ug/Kg	Method 8270C ***
				3-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
				4,6-Dinitro-2-Methylphenol	ND	940ug/Kg	Method 8270C ***
				4-Bromophenylphenyl ether	ND	470ug/Kg	Method 8270C ***
				4-Chloro-3-Methylphenol	ND	470ug/Kg	Method 8270C ***
				4-Chloroaniline	ND	470ug/Kg	Method 8270C ***
				4-Chlorophenylphenyl ether	ND	470ug/Kg	Method 8270C ***
				4-Nitroaniline	ND	1200ug/Kg	Method 8270C ***
				4-Nitrophenol	ND	940ug/Kg	Method 8270C ***
				Acenaphthene	ND	470ug/Kg	Method 8270C ***
				Acenaphthylene	ND	470ug/Kg	Method 8270C ***
				Aniline	ND	470ug/Kg	Method 8270C ***
				Anthracene	ND	470ug/Kg	Method 8270C ***
				Benzo(a)Anthracene	ND	470ug/Kg	Method 8270C ***
				Benzo(a)Pyrene	ND	470ug/Kg	Method 8270C ***
				Benzo(b)Fluoranthene	ND	470ug/Kg	Method 8270C ***
				Benzo(g,h,i)Perylene	ND	470ug/Kg	Method 8270C ***
				Benzo(k)Fluoranthene	ND	470ug/Kg	Method 8270C ***
				Benzoic Acid	ND	2400ug/Kg	Method 8270C ***
				Benzyl alcohol	ND	470ug/Kg	Method 8270C ***
				bis(2-Chloroethoxy)Methane	ND	470ug/Kg	Method 8270C ***

ND - Not Detected.

Notes: ***Ref:** Methods for chemical Analysis of Water and Wastes, 1983, EPA.

****Ref:** Standard Methods for Examination of Water and Wastewater, 18th ed.

*****Ref:** Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-03	SOIL	GP-4 12-16'	11/24/98	bis(2-Chloroethyl)Ether	ND	470ug/Kg	Method 8270C ***
				bis(2-Chloroisopropyl)Ether	ND	470ug/Kg	Method 8270C ***
				bis(2-Ethylhexyl)Phthalate	ND	470ug/Kg	Method 8270C ***
				Butylbenzylphthalate	ND	470ug/Kg	Method 8270C ***
				Carbazole	ND	470ug/Kg	Method 8270C ***
				Chrysene	ND	470ug/Kg	Method 8270C ***
				di-n-Butyl phthalate	ND	470ug/Kg	Method 8270C ***
				Di-n-Octyl Phthalate	ND	940ug/Kg	Method 8270C ***
				Dibenz(a,h)Anthracene	ND	470ug/Kg	Method 8270C ***
				Dibenzofuran	ND	470ug/Kg	Method 8270C ***
				Diethylphthalate	ND	470ug/Kg	Method 8270C ***
				Dimethyl Phthalate	ND	470ug/Kg	Method 8270C ***
				Fluoranthene	ND	470ug/Kg	Method 8270C ***
				Fluorene	ND	470ug/Kg	Method 8270C ***
				Hexachlorobenzene	ND	470ug/Kg	Method 8270C ***
				Hexachlorobutadiene	ND	470ug/Kg	Method 8270C ***
				Hexachlorocyclopentadiene	ND	470ug/Kg	Method 8270C ***
				Hexachloroethane	ND	470ug/Kg	Method 8270C ***
				Indeno(1,2,3-cd)Pyrene	ND	470ug/Kg	Method 8270C ***
				Isophorone	ND	470ug/Kg	Method 8270C ***
				m,p-Cresols	ND	470ug/Kg	Method 8270C ***
				N-Nitroso-Di-n-Propylamine	ND	470ug/Kg	Method 8270C ***
				N-Nitrosodiphenylamine (1)	ND	470ug/Kg	Method 8270C ***
				Naphthalene	ND	470ug/Kg	Method 8270C ***
				Nitrobenzene	ND	470ug/Kg	Method 8270C ***
				Pentachlorophenol	ND	940ug/Kg	Method 8270C ***
				Phenanthrene	ND	470ug/Kg	Method 8270C ***
				Phenol	ND	470ug/Kg	Method 8270C ***
				Pyrene	ND	470ug/Kg	Method 8270C ***
				Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
				Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
				Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
				Unadjusted Aliphatics C5-C8	ND	18mg/Kg	Method MA VPH
				Unadjusted Aliphatics C9-C12	ND	18mg/Kg	Method MA VPH
				Unadjusted Aromatics C9-C10	ND	18mg/Kg	Method MA VPH

ND - Not Detected.

Notes: ***Ref:** Methods for chemical Analysis of Water and Wastes, 1983, EPA.

****Ref:** Standard Methods for Examination of Water and Wastewater, 18th ed.

*****Ref:** Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-04	SOIL	GP-3 12-16'	11/24/98	Total Solids	64.9	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	8ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	8ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	8ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	8ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	8ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	8ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	8ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	8ug/Kg	Method 8260B ***
				2-Butanone	ND	15ug/Kg	Method 8260B ***
				2-Hexanone	ND	8ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	8ug/Kg	Method 8260B ***
				Acetone	ND	150ug/Kg	Method 8260B ***
				Benzene	ND	8ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	8ug/Kg	Method 8260B ***
				Bromoform	ND	8ug/Kg	Method 8260B ***
				Bromomethane	ND	8ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	8ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	8ug/Kg	Method 8260B ***
				Chlorobenzene	ND	8ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	8ug/Kg	Method 8260B ***
				Chloroethane	ND	8ug/Kg	Method 8260B ***
				Chloroform	ND	8ug/Kg	Method 8260B ***
				Chloromethane	ND	8ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	8ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	8ug/Kg	Method 8260B ***
				Ethylbenzene	ND	8ug/Kg	Method 8260B ***
				Isopropyl ether	ND	8ug/Kg	Method 8260B ***
				m,p-Xylene(s)	ND	8ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	180	8ug/Kg	Method 8260B ***
				Methylene chloride	ND	8ug/Kg	Method 8260B ***
				o-Xylene	ND	8ug/Kg	Method 8260B ***
				Styrene	ND	8ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	8ug/Kg	Method 8260B ***
				Toluene	ND	8ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	8ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	8ug/Kg	Method 8260B ***
				Trichloroethene	ND	8ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	8ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	8ug/Kg	Method 8260B ***

ND - Not Detected.

Notes:
***Ref:** Methods for chemical Analysis of Water and Wastes, 1983, EPA.
****Ref:** Standard Methods for Examination of Water and Wastewater, 18th ed.
*****Ref:** Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B71-04	SOIL	GP-3 12-16'	11/24/98	Vinyl chloride	ND	8ug/Kg	Method 8260B ***
				Xylenes (total)	ND	8ug/Kg	Method 8260B ***
				1,2,4-Trichlorobenzene	ND	510ug/Kg	Method 8270C ***
				1,2-Dichlorobenzene	ND	510ug/Kg	Method 8270C ***
				1,2-Diphenylhydrazine	ND	510ug/Kg	Method 8270C ***
				1,3-Dichlorobenzene	ND	510ug/Kg	Method 8270C ***
				1,4-Dichlorobenzene	ND	510ug/Kg	Method 8270C ***
				2,4,5-Trichlorophenol	ND	1300ug/Kg	Method 8270C ***
				2,4,6-Trichlorophenol	ND	510ug/Kg	Method 8270C ***
				2,4-Dichlorophenol	ND	510ug/Kg	Method 8270C ***
				2,4-Dimethylphenol	ND	510ug/Kg	Method 8270C ***
				2,4-Dinitrophenol	ND	1000ug/Kg	Method 8270C ***
				2,4-Dinitrotoluene	ND	510ug/Kg	Method 8270C ***
				2,6-Dinitrotoluene	ND	510ug/Kg	Method 8270C ***
				2-Chloronaphthalene	ND	510ug/Kg	Method 8270C ***
				2-Chlorophenol	ND	510ug/Kg	Method 8270C ***
				2-Methylnaphthalene	ND	510ug/Kg	Method 8270C ***
				2-Methylphenol	ND	510ug/Kg	Method 8270C ***
				2-Nitroaniline	ND	1300ug/Kg	Method 8270C ***
				2-Nitrophenol	ND	510ug/Kg	Method 8270C ***
				3,3'-Dichlorobenzidine	ND	510ug/Kg	Method 8270C ***
				3-Nitroaniline	ND	1300ug/Kg	Method 8270C ***
				4,6-Dinitro-2-Methylphenol	ND	1000ug/Kg	Method 8270C ***
				4-Bromophenylphenyl ether	ND	510ug/Kg	Method 8270C ***
				4-Chloro-3-Methylphenol	ND	510ug/Kg	Method 8270C ***
				4-Chloroaniline	ND	510ug/Kg	Method 8270C ***
				4-Chlorophenylphenyl ether	ND	510ug/Kg	Method 8270C ***
				4-Nitroaniline	ND	1300ug/Kg	Method 8270C ***
				4-Nitrophenol	ND	1000ug/Kg	Method 8270C ***
				Acenaphthene	ND	510ug/Kg	Method 8270C ***
				Acenaphthylene	ND	510ug/Kg	Method 8270C ***
				Aniline	ND	510ug/Kg	Method 8270C ***
				Anthracene	ND	510ug/Kg	Method 8270C ***
				Benzo(a)Anthracene	ND	510ug/Kg	Method 8270C ***
				Benzo(a)Pyrene	ND	510ug/Kg	Method 8270C ***
				Benzo(b)Fluoranthene	ND	510ug/Kg	Method 8270C ***
				Benzo(g,h,i)Perylene	ND	510ug/Kg	Method 8270C ***
				Benzo(k)Fluoranthene	ND	510ug/Kg	Method 8270C ***
				Benzoic Acid	ND	2600ug/Kg	Method 8270C ***
				Benzyl alcohol	ND	510ug/Kg	Method 8270C ***
				bis(2-Chloroethoxy)Methane	ND	510ug/Kg	Method 8270C ***

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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FAX (318) 237-8005

Date: Wednesday, December 09, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811B71-04	SOIL	GP-3 12-16'	11/24/98

Compound	Result	Det Limit	Method
bis(2-Chloroethyl)Ether	ND	510ug/Kg	Method 8270C ***
bis(2-Chloroisopropyl)Ether	ND	510ug/Kg	Method 8270C ***
bis(2-Ethylhexyl)Phthalate	ND	510ug/Kg	Method 8270C ***
Butylbenzylphthalate	ND	510ug/Kg	Method 8270C ***
Carbazole	ND	510ug/Kg	Method 8270C ***
Chrysene	ND	510ug/Kg	Method 8270C ***
di-n-Butyl phthalate	ND	510ug/Kg	Method 8270C ***
Di-n-Octyl Phthalate	ND	1000ug/Kg	Method 8270C ***
Dibenz(a,h)Anthracene	ND	510ug/Kg	Method 8270C ***
Dibenzofuran	ND	510ug/Kg	Method 8270C ***
Diethylphthalate	ND	510ug/Kg	Method 8270C ***
Dimethyl Phthalate	ND	510ug/Kg	Method 8270C ***
Fluoranthene	ND	510ug/Kg	Method 8270C ***
Fluorene	ND	510ug/Kg	Method 8270C ***
Hexachlorobenzene	ND	510ug/Kg	Method 8270C ***
Hexachlorobutadiene	ND	510ug/Kg	Method 8270C ***
Hexachlorocyclopentadiene	ND	510ug/Kg	Method 8270C ***
Hexachloroethane	ND	510ug/Kg	Method 8270C ***
Indeno(1,2,3-cd)Pyrene	ND	510ug/Kg	Method 8270C ***
Isophorone	ND	510ug/Kg	Method 8270C ***
m,p-Cresols	ND	510ug/Kg	Method 8270C ***
N-Nitroso-Di-n-Propylamine	ND	510ug/Kg	Method 8270C ***
N-Nitrosodiphenylamine (1)	ND	510ug/Kg	Method 8270C ***
Naphthalene	ND	510ug/Kg	Method 8270C ***
Nitrobenzene	ND	510ug/Kg	Method 8270C ***
Pentachlorophenol	ND	1000ug/Kg	Method 8270C ***
Phenanthrene	ND	510ug/Kg	Method 8270C ***
Phenol	ND	510ug/Kg	Method 8270C ***
Pyrene	ND	510ug/Kg	Method 8270C ***
Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	19mg/Kg	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	19mg/Kg	Method MA VPH
Unadjusted Aromatics C9-C10	ND	19mg/Kg	Method MA VPH

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Certificate of Analysis No. L1-9811B71-01

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
DATE: 12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-5 14-17'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 09:15:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Unadjusted Aliphatics C9-C18	ND	24 P	mg/Kg
Unadjusted Aliphatics C19-C36	ND	25 P	mg/Kg
Surrogate	**% Recovery**		
Chloro-octa-decane	40		
Unadjusted Aromatics C11-C22	ND	62 P	mg/Kg
2-Bromonaphthalene	70		
o-Terphenyl	56		
2-Fluorobiphenyl	64		
Method MA EPH			
Analyzed by: OL			
Date: 12/02/98			
Unadjusted Aliphatics C5-C8	ND	15 P	mg/Kg
Unadjusted Aliphatics C9-C12	ND	15 P	mg/Kg
Unadjusted Aromatics C9-C10	ND	15 P	mg/Kg
Surrogate	**% Recovery**		
4-Bromofluorobenzene	99		
Method MA VPH			
Analyzed by: TD			
Date: 11/30/98			
Total Solids	83.4	0.1	wt %
EPA CLP Inorganic SOW-ILM03			
Analyzed by: WJB			
Date: 11/30/98 14:00:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B71-01

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
DATE: 12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-5 14-17'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 09:15:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/27/98 11:00:00	11/27/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/27/98 11:00:00	11/27/98		-
Soil Extraction for MA VPH MA VPH Analyzed by: MG Date: 11/25/98 11:43:00	11/25/98		date complete

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
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Certificate of Analysis No. L1-9811B71-01

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-5 14-17'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 09:15:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Benzene	ND	6	ug/Kg
Bromodichloromethane	ND	6	ug/Kg
Bromoform	ND	6	ug/Kg
Bromomethane	ND	6	ug/Kg
Carbon tetrachloride	ND	6	ug/Kg
Chlorobenzene	ND	6	ug/Kg
Chlorodibromomethane	ND	6	ug/Kg
Chloroethane	ND	6	ug/Kg
Chloroform	ND	6	ug/Kg
Chloromethane	ND	6	ug/Kg
1,1-Dichloroethane	ND	6	ug/Kg
1,2-Dichloroethane	ND	6	ug/Kg
1,1-Dichloroethene	ND	6	ug/Kg
cis-1,2-Dichloroethene	ND	6	ug/Kg
trans-1,2-Dichloroethene	ND	6	ug/Kg
1,2-Dichloropropane	ND	6	ug/Kg
Ethylbenzene	ND	6	ug/Kg
Methylene chloride	ND	6	ug/Kg
Styrene	ND	6	ug/Kg
1,1,2,2-Tetrachloroethane	ND	6	ug/Kg
Tetrachloroethene	ND	6	ug/Kg
Toluene	ND	6	ug/Kg
1,1,1-Trichloroethane	ND	6	ug/Kg
1,1,2-Trichloroethane	ND	6	ug/Kg
Trichloroethene	ND	6	ug/Kg
Trichlorofluoromethane	ND	6	ug/Kg
Vinyl chloride	ND	6	ug/Kg
Xylenes (total)	ND	6	ug/Kg
Acetone	ND	120	ug/Kg
1,2-Dichloroethene (total)	ND	6	ug/Kg
Carbon Disulfide	ND	6	ug/Kg
Vinyl Acetate	ND	6	ug/Kg
2-Butanone	ND	12	ug/Kg
4-Methyl-2-Pentanone	ND	6	ug/Kg
cis-1,3-Dichloropropene	ND	6	ug/Kg
trans-1,3-Dichloropropene	ND	6	ug/Kg
2-Hexanone	ND	6	ug/Kg
m,p-Xylene(s)	ND	6	ug/Kg

METHOD: 8260 Soil, Volatile Organics

(continued on next page)

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Certificate of Analysis No. L1-9811B71-01

UNOCAL CORPORATION

SAMPLE ID: GP-5 14-17'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
o-Xylene	ND	6	ug/Kg
Isopropyl ether	ND	6	ug/Kg
Methyl tert-butyl ether	ND	6	ug/Kg

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	60 ug/Kg	97	80	120
Toluene-d8	60 ug/Kg	101	81	117
4-Bromofluorobenzene	60 ug/Kg	93	74	121

ANALYZED BY: YTS DATE/TIME: 12/04/98 19:42:00
METHOD: 8260 Soil, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS: Method 8260 Associated Blank: X338B01 File ID: X338S31

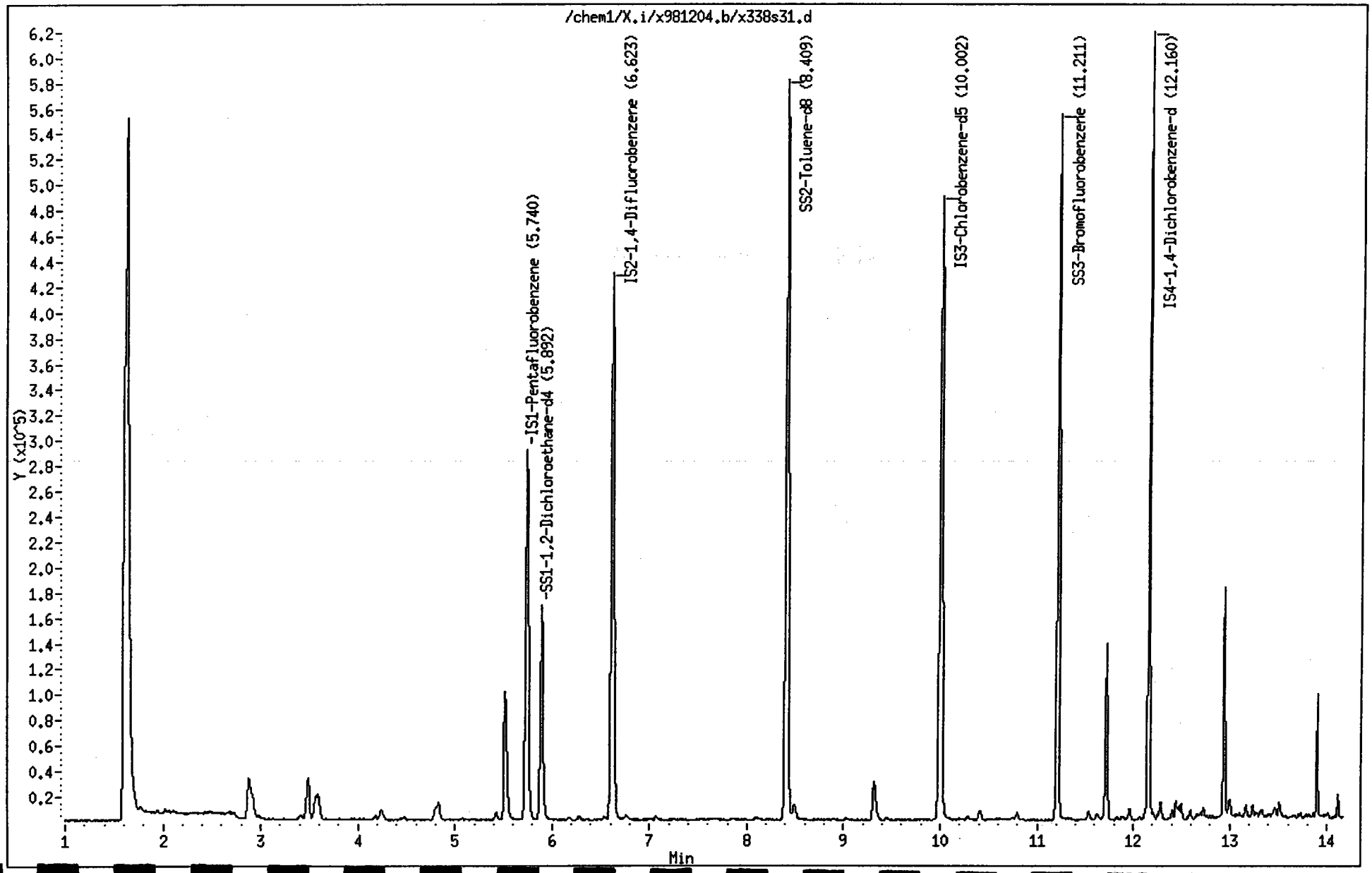
QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/X.i/x981204.b/x338s31.d
Date : 04-DEC-98 19:42
Client ID:
Sample Info: 9811B71-01A-8260S/1X;1

Column phase: 30m,hp5ms,1.0u df

Instrument: X.i

Operator: YTS
Column diameter: 0.25



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Certificate of Analysis No. L1-9811B71-01

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-5 14-17'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 09:15:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	400	ug/Kg
Acenaphthylene	ND	400	ug/Kg
Aniline	ND	400	ug/Kg
Anthracene	ND	400	ug/Kg
Benzo(a)Anthracene	ND	400	ug/Kg
Benzo(b)Fluoranthene	ND	400	ug/Kg
Benzo(k)Fluoranthene	ND	400	ug/Kg
Benzo(a)Pyrene	ND	400	ug/Kg
Benzoic Acid	ND	2000	ug/Kg
Benzo(g,h,i)Perylene	ND	400	ug/Kg
Benzyl alcohol	ND	400	ug/Kg
4-Bromophenylphenyl ether	ND	400	ug/Kg
Butylbenzylphthalate	ND	400	ug/Kg
di-n-Butyl phthalate	ND	400	ug/Kg
Carbazole	ND	400	ug/Kg
4-Chloroaniline	ND	400	ug/Kg
bis(2-Chloroethoxy)Methane	ND	400	ug/Kg
bis(2-Chloroethyl)Ether	ND	400	ug/Kg
bis(2-Chloroisopropyl)Ether	ND	400	ug/Kg
4-Chloro-3-Methylphenol	ND	400	ug/Kg
2-Chloronaphthalene	ND	400	ug/Kg
2-Chlorophenol	ND	400	ug/Kg
4-Chlorophenylphenyl ether	ND	400	ug/Kg
Chrysene	ND	400	ug/Kg
Dibenz(a,h)Anthracene	ND	400	ug/Kg
Dibenzofuran	ND	400	ug/Kg
1,2-Dichlorobenzene	ND	400	ug/Kg
1,3-Dichlorobenzene	ND	400	ug/Kg
1,4-Dichlorobenzene	ND	400	ug/Kg
3,3'-Dichlorobenzidine	ND	400	ug/Kg
2,4-Dichlorophenol	ND	400	ug/Kg
Diethylphthalate	ND	400	ug/Kg
2,4-Dimethylphenol	ND	400	ug/Kg
Dimethyl Phthalate	ND	400	ug/Kg
4,6-Dinitro-2-Methylphenol	ND	790	ug/Kg
2,4-Dinitrophenol	ND	790	ug/Kg
2,4-Dinitrotoluene	ND	400	ug/Kg
2,6-Dinitrotoluene	ND	400	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B71-01

UNOCAL CORPORATION

SAMPLE ID: GP-5 14-17'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
1,2-Diphenylhydrazine	ND	400	ug/Kg
bis(2-Ethylhexyl)Phthalate	ND	400	ug/Kg
Fluoranthene	ND	400	ug/Kg
Fluorene	ND	400	ug/Kg
Hexachlorobenzene	ND	400	ug/Kg
Hexachlorobutadiene	ND	400	ug/Kg
Hexachloroethane	ND	400	ug/Kg
Hexachlorocyclopentadiene	ND	400	ug/Kg
Indeno(1,2,3-cd)Pyrene	ND	400	ug/Kg
Isophorone	ND	400	ug/Kg
2-Methylnaphthalene	ND	400	ug/Kg
2-Methylphenol	ND	400	ug/Kg
Naphthalene	ND	400	ug/Kg
2-Nitroaniline	ND	1000	ug/Kg
3-Nitroaniline	ND	1000	ug/Kg
4-Nitroaniline	ND	1000	ug/Kg
Nitrobenzene	ND	400	ug/Kg
2-Nitrophenol	ND	400	ug/Kg
4-Nitrophenol	ND	790	ug/Kg
N-Nitrosodiphenylamine	ND	400	ug/Kg
N-Nitroso-Di-n-Propylamine	ND	400	ug/Kg
Di-n-Octyl Phthalate	ND	800	ug/Kg
Pentachlorophenol	ND	790	ug/Kg
Phenanthrene	ND	400	ug/Kg
Phenol	ND	400	ug/Kg
Pyrene	ND	400	ug/Kg
1,2,4-Trichlorobenzene	ND	400	ug/Kg
2,4,5-Trichlorophenol	ND	1000	ug/Kg
2,4,6-Trichlorophenol	ND	400	ug/Kg
m,p-Cresols	ND	400	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

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PHONE (318) 237-4775
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Certificate of Analysis No. L1-9811B71-01

UNOCAL CORPORATION

SAMPLE ID: GP-5 14-17'

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
Nitrobenzene-d5	2000 ug/Kg	50	23	120
2-Fluorobiphenyl	2000 ug/Kg	55	30	115
Terphenyl-d14	2000 ug/Kg	55	18	137
Phenol-d5	3000 ug/Kg	50	24	113
2-Fluorophenol	3000 ug/Kg	50	25	121
2,4,6-Tribromophenol	3000 ug/Kg	50	19	122
2-Chlorophenol-d4	3000 ug/Kg	53	20	130
1,2-Dichlorobenzene-d4	2000 ug/Kg	50	20	130

ANALYZED BY: SEN DATE/TIME: 12/02/98 18:16:00
EXTRACTED BY: DMB DATE/TIME: 11/30/98 09:00:00
METHOD: 8270, Semivolatile Organics - Soil
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

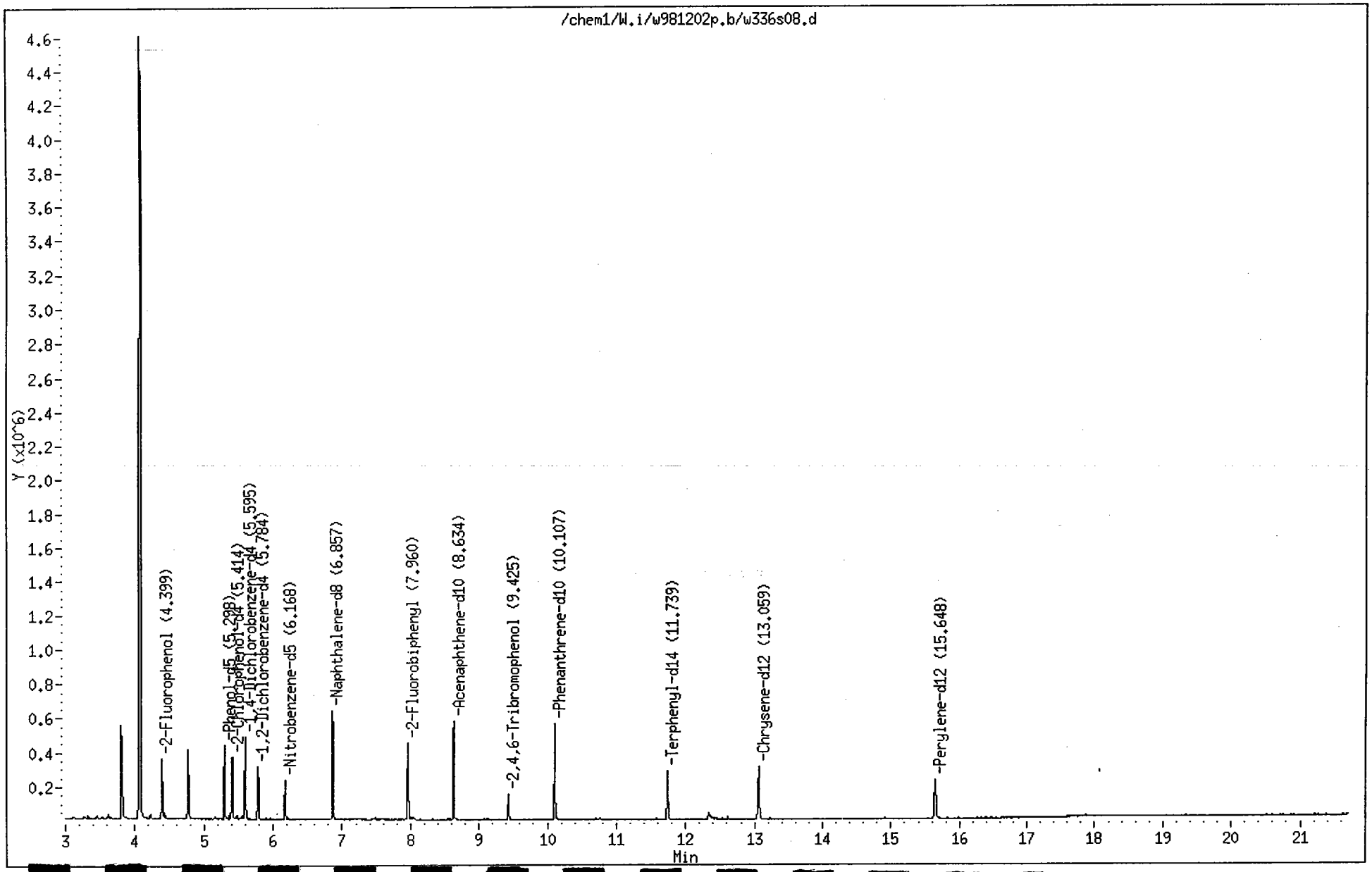
COMMENTS: Method 8270 Associated Blank: W336B04 File ID: W336S08

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/W.i/w981202p.b/w336s08.d
Date : 02-DEC-1998 18:16
Client ID:
Sample Info: 9811B71-01B-8270S/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: W.i

Operator: SEN
Column diameter: 0.25



LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B71-02

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
DATE: 12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-1 16-20'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 10:55:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Unadjusted Aliphatics C9-C18	ND	24 P	mg/Kg
Unadjusted Aliphatics C19-C36	ND	25 P	mg/Kg
Surrogate	**% Recovery**		
Chloro-octa-decane	47		
Unadjusted Aromatics C11-C22	ND	62 P	mg/Kg
2-Bromonaphthalene	69		
o-Terphenyl	60		
2-Fluorobiphenyl	70		
Method MA EPH			
Analyzed by: OL			
Date: 12/02/98			
Unadjusted Aliphatics C5-C8	82	18 P	mg/Kg
Unadjusted Aliphatics C9-C12	270	18 P	mg/Kg
Unadjusted Aromatics C9-C10	83	18 P	mg/Kg
Surrogate	**% Recovery**		
4-Bromofluorobenzene	110		
Method MA VPH			
Analyzed by: TD			
Date: 11/30/98			
Total Solids	70.7	0.1	wt %
EPA CLP Inorganic SOW-ILM03			
Analyzed by: WJB			
Date: 11/30/98 14:00:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
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FAX (318) 237-8005

Certificate of Analysis No. L1-9811B71-02

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
DATE: 12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-1 16-20'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 10:55:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/27/98 11:00:00	11/27/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/27/98 11:00:00	11/27/98		-
Soil Extraction for MA VPH MA VPH Analyzed by: MG Date: 11/25/98 11:45:00	11/25/98	date complete	

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
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Certificate of Analysis No. L1-9811B71-02

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-1 16-20'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 10:55:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Benzene	ND	710	ug/Kg
Bromodichloromethane	ND	710	ug/Kg
Bromoform	ND	710	ug/Kg
Bromomethane	ND	710	ug/Kg
Carbon tetrachloride	ND	710	ug/Kg
Chlorobenzene	ND	710	ug/Kg
Chlorodibromomethane	ND	710	ug/Kg
Chloroethane	ND	710	ug/Kg
Chloroform	ND	710	ug/Kg
Chloromethane	ND	710	ug/Kg
1,1-Dichloroethane	ND	710	ug/Kg
1,2-Dichloroethane	ND	710	ug/Kg
1,1-Dichloroethene	ND	710	ug/Kg
cis-1,2-Dichloroethene	ND	710	ug/Kg
trans-1,2-Dichloroethene	ND	710	ug/Kg
1,2-Dichloropropane	ND	710	ug/Kg
Ethylbenzene	8300	710	ug/Kg
Methylene chloride	ND	710	ug/Kg
Styrene	ND	710	ug/Kg
1,1,2,2-Tetrachloroethane	ND	710	ug/Kg
Tetrachloroethene	ND	710	ug/Kg
Toluene	15000	710	ug/Kg
1,1,1-Trichloroethane	ND	710	ug/Kg
1,1,2-Trichloroethane	ND	710	ug/Kg
Trichloroethene	ND	710	ug/Kg
Trichlorofluoromethane	ND	710	ug/Kg
Vinyl chloride	ND	710	ug/Kg
Xylenes (total)	64000	710	ug/Kg
Acetone	ND	14000	ug/Kg
1,2-Dichloroethene (total)	ND	710	ug/Kg
Carbon Disulfide	ND	710	ug/Kg
Vinyl Acetate	ND	710	ug/Kg
2-Butanone	ND	1400	ug/Kg
4-Methyl-2-Pentanone	ND	710	ug/Kg
cis-1,3-Dichloropropene	ND	710	ug/Kg
trans-1,3-Dichloropropene	ND	710	ug/Kg
2-Hexanone	ND	710	ug/Kg
m,p-Xylene(s)	51000	710	ug/Kg

METHOD: 8260 Soil, Volatile Organics
(continued on next page)

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PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B71-02

UNOCAL CORPORATION **SAMPLE ID:** GP-1 16-20'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
o-Xylene	15000	710	ug/Kg
Isopropyl ether	ND	710	ug/Kg
Methyl tert-butyl ether	ND	710	ug/Kg

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	7000 ug/Kg	89	80	120
Toluene-d8	7000 ug/Kg	99	81	117
4-Bromofluorobenzene	7000 ug/Kg	98	74	121

ANALYZED BY: YTS DATE/TIME: 12/04/98 19:18:00
METHOD: 8260 Soil, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS: Method 8260 Associated Blank: X338B01 File ID: X338S12

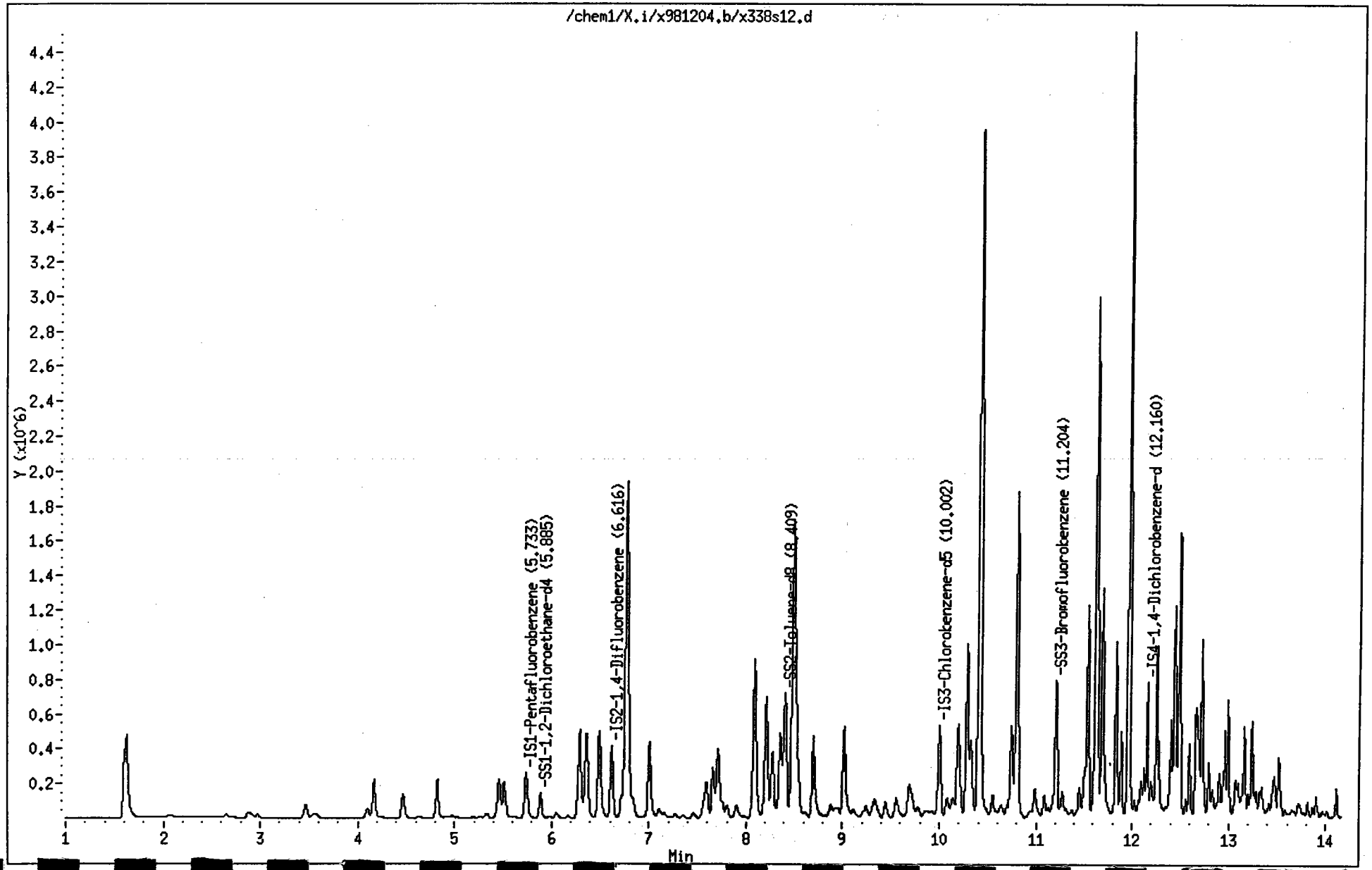
QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/X.i/x981204.b/x338s12.d
Date : 04-DEC-98 19:18
Client ID:
Sample Info: 9811B71-02A-8260S/100X;100

Column phase: 30m,hp5ms,1.0u df

Instrument: X.i

Operator: YTS
Column diameter: 0.25



LAFAYETTE LABORATORY
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PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B71-02

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.#
9787214-4675-62252 COC#15315
12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-1 16-20'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 10:55:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	470	ug/Kg
Acenaphthylene	ND	470	ug/Kg
Aniline	ND	470	ug/Kg
Anthracene	ND	470	ug/Kg
Benzo(a)Anthracene	ND	470	ug/Kg
Benzo(b)Fluoranthene	ND	470	ug/Kg
Benzo(k)Fluoranthene	ND	470	ug/Kg
Benzo(a)Pyrene	ND	470	ug/Kg
Benzoic Acid	ND	2400	ug/Kg
Benzo(g,h,i)Perylene	ND	470	ug/Kg
Benzyl alcohol	ND	470	ug/Kg
4-Bromophenylphenyl ether	ND	470	ug/Kg
Butylbenzylphthalate	ND	470	ug/Kg
di-n-Butyl phthalate	ND	470	ug/Kg
Carbazole	ND	470	ug/Kg
4-Chloroaniline	ND	470	ug/Kg
bis(2-Chloroethoxy)Methane	ND	470	ug/Kg
bis(2-Chloroethyl)Ether	ND	470	ug/Kg
bis(2-Chloroisopropyl)Ether	ND	470	ug/Kg
4-Chloro-3-Methylphenol	ND	470	ug/Kg
2-Chloronaphthalene	ND	470	ug/Kg
2-Chlorophenol	ND	470	ug/Kg
4-Chlorophenylphenyl ether	ND	470	ug/Kg
Chrysene	ND	470	ug/Kg
Dibenz(a,h)Anthracene	ND	470	ug/Kg
Dibenzofuran	ND	470	ug/Kg
1,2-Dichlorobenzene	ND	470	ug/Kg
1,3-Dichlorobenzene	ND	470	ug/Kg
1,4-Dichlorobenzene	ND	470	ug/Kg
3,3'-Dichlorobenzidine	ND	470	ug/Kg
2,4-Dichlorophenol	ND	470	ug/Kg
Diethylphthalate	ND	470	ug/Kg
2,4-Dimethylphenol	ND	470	ug/Kg
Dimethyl Phthalate	ND	470	ug/Kg
4,6-Dinitro-2-Methylphenol	ND	940	ug/Kg
2,4-Dinitrophenol	ND	940	ug/Kg
2,4-Dinitrotoluene	ND	470	ug/Kg
2,6-Dinitrotoluene	ND	470	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil
(continued on next page)

LAFAYETTE LABORATORY
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FAX (318) 237-8005

Certificate of Analysis No. L1-9811B71-02

UNOCAL CORPORATION **SAMPLE ID:** GP-1 16-20'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
1,2-Diphenylhydrazine	ND	470	ug/Kg
bis(2-Ethylhexyl)Phthalate	ND	470	ug/Kg
Fluoranthene	ND	470	ug/Kg
Fluorene	ND	470	ug/Kg
Hexachlorobenzene	ND	470	ug/Kg
Hexachlorobutadiene	ND	470	ug/Kg
Hexachloroethane	ND	470	ug/Kg
Hexachlorocyclopentadiene	ND	470	ug/Kg
Indeno(1,2,3-cd)Pyrene	ND	470	ug/Kg
Isophorone	ND	470	ug/Kg
2-Methylnaphthalene	ND	470	ug/Kg
2-Methylphenol	ND	470	ug/Kg
Naphthalene	ND	470	ug/Kg
2-Nitroaniline	ND	1200	ug/Kg
3-Nitroaniline	ND	1200	ug/Kg
4-Nitroaniline	ND	1200	ug/Kg
Nitrobenzene	ND	470	ug/Kg
2-Nitrophenol	ND	470	ug/Kg
4-Nitrophenol	ND	940	ug/Kg
N-Nitrosodiphenylamine	ND	470	ug/Kg
N-Nitroso-Di-n-Propylamine	ND	470	ug/Kg
Di-n-Octyl Phthalate	ND	940	ug/Kg
Pentachlorophenol	ND	940	ug/Kg
Phenanthrene	ND	470	ug/Kg
Phenol	ND	470	ug/Kg
Pyrene	ND	470	ug/Kg
1,2,4-Trichlorobenzene	ND	470	ug/Kg
2,4,5-Trichlorophenol	ND	1200	ug/Kg
2,4,6-Trichlorophenol	ND	470	ug/Kg
m,p-Cresols	ND	470	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B71-02

UNOCAL CORPORATION

SAMPLE ID: GP-1 16-20'

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
Nitrobenzene-d5	2400 ug/Kg	54	23	120
2-Fluorobiphenyl	2400 ug/Kg	58	30	115
Terphenyl-d14	2400 ug/Kg	62	18	137
Phenol-d5	3500 ug/Kg	60	24	113
2-Fluorophenol	3500 ug/Kg	57	25	121
2,4,6-Tribromophenol	3500 ug/Kg	60	19	122
2-Chlorophenol-d4	3500 ug/Kg	63	20	130
1,2-Dichlorobenzene-d4	2400 ug/Kg	54	20	130

ANALYZED BY: SEN DATE/TIME: 12/02/98 18:48:00
EXTRACTED BY: DMB DATE/TIME: 11/30/98 09:00:00
METHOD: 8270, Semivolatile Organics - Soil
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

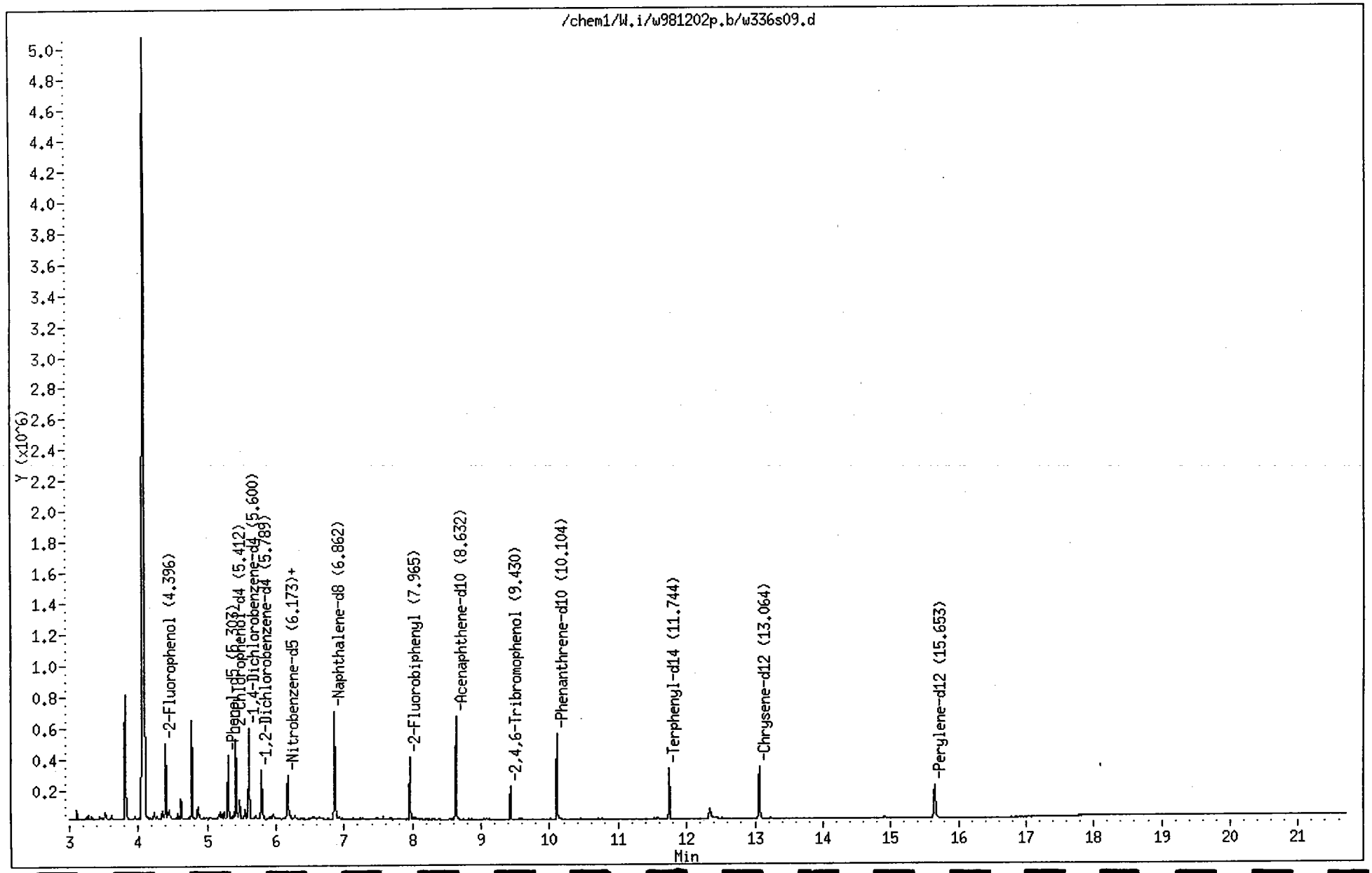
COMMENTS: Method 8270 Associated Blank: W336B04 File ID: W336S09

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/W.i/w981202p.b/w336s09.d
Date : 02-DEC-1998 18:48
Client ID:
Sample Info: 9811B71-02B-8270S/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: W.i

Operator: SEN
Column diameter: 0.25



LAFAYETTE LABORATORY
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Certificate of Analysis No. L1-9811B71-03

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
DATE: 12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-4 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 12:50:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Unadjusted Aliphatics C9-C18	ND	24 P	mg/Kg
Unadjusted Aliphatics C19-C36	ND	25 P	mg/Kg
Surrogate	**% Recovery**		
Chloro-octa-decane	56		
Unadjusted Aromatics C11-C22	ND	62 P	mg/Kg
2-Bromonaphthalene	66		
o-Terphenyl	58		
2-Fluorobiphenyl	73		
Method MA EPH			
Analyzed by: OL			
Date: 12/02/98			
Unadjusted Aliphatics C5-C8	ND	18 P	mg/Kg
Unadjusted Aliphatics C9-C12	ND	18 P	mg/Kg
Unadjusted Aromatics C9-C10	ND	18 P	mg/Kg
Surrogate	**% Recovery**		
4-Bromofluorobenzene	100		
Method MA VPH			
Analyzed by: TD			
Date: 11/30/98			
Total Solids	70.5	0.1	wt %
EPA CLP Inorganic SOW-ILM03			
Analyzed by: WJB			
Date: 11/30/98 14:00:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
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Certificate of Analysis No. L1-9811B71-03

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
DATE: 12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-4 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 12:50:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/27/98 11:00:00	11/27/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/27/98 11:00:00	11/27/98		-
Soil Extraction for MA VPH MA VPH Analyzed by: MG Date: 11/25/98 11:47:00	11/25/98		date complete

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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Certificate of Analysis No. L1-9811B71-03

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-4 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 12:50:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Benzene	ND	7	ug/Kg
Bromodichloromethane	ND	7	ug/Kg
Bromoform	ND	7	ug/Kg
Bromomethane	ND	7	ug/Kg
Carbon tetrachloride	ND	7	ug/Kg
Chlorobenzene	ND	7	ug/Kg
Chlorodibromomethane	ND	7	ug/Kg
Chloroethane	ND	7	ug/Kg
Chloroform	ND	7	ug/Kg
Chloromethane	ND	7	ug/Kg
1,1-Dichloroethane	ND	7	ug/Kg
1,2-Dichloroethane	ND	7	ug/Kg
1,1-Dichloroethene	ND	7	ug/Kg
cis-1,2-Dichloroethene	ND	7	ug/Kg
trans-1,2-Dichloroethene	ND	7	ug/Kg
1,2-Dichloropropane	ND	7	ug/Kg
Ethylbenzene	ND	7	ug/Kg
Methylene chloride	ND	7	ug/Kg
Styrene	ND	7	ug/Kg
1,1,2,2-Tetrachloroethane	ND	7	ug/Kg
Tetrachloroethene	ND	7	ug/Kg
Toluene	ND	7	ug/Kg
1,1,1-Trichloroethane	ND	7	ug/Kg
1,1,2-Trichloroethane	ND	7	ug/Kg
Trichloroethene	ND	7	ug/Kg
Trichlorofluoromethane	ND	7	ug/Kg
Vinyl chloride	ND	7	ug/Kg
Xylenes (total)	ND	7	ug/Kg
Acetone	ND	140	ug/Kg
1,2-Dichloroethene (total)	ND	7	ug/Kg
Carbon Disulfide	ND	7	ug/Kg
Vinyl Acetate	ND	7	ug/Kg
2-Butanone	ND	14	ug/Kg
4-Methyl-2-Pentanone	ND	7	ug/Kg
cis-1,3-Dichloropropene	ND	7	ug/Kg
trans-1,3-Dichloropropene	ND	7	ug/Kg
2-Hexanone	ND	7	ug/Kg
m,p-Xylene(s)	ND	7	ug/Kg

METHOD: 8260 Soil, Volatile Organics

(continued on next page)

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B71-03

UNOCAL CORPORATION **SAMPLE ID:** GP-4 12-16'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
o-Xylene	ND	7	ug/Kg
Isopropyl ether	ND	7	ug/Kg
Methyl tert-butyl ether	ND	7	ug/Kg

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	71 ug/Kg	105	80	120
Toluene-d8	71 ug/Kg	102	81	117
4-Bromofluorobenzene	71 ug/Kg	97	74	121

ANALYZED BY: YTS DATE/TIME: 12/07/98 13:13:00
METHOD: 8260 Soil, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS: Method 8260 Associated Blank: X341B01 File ID: X341S01

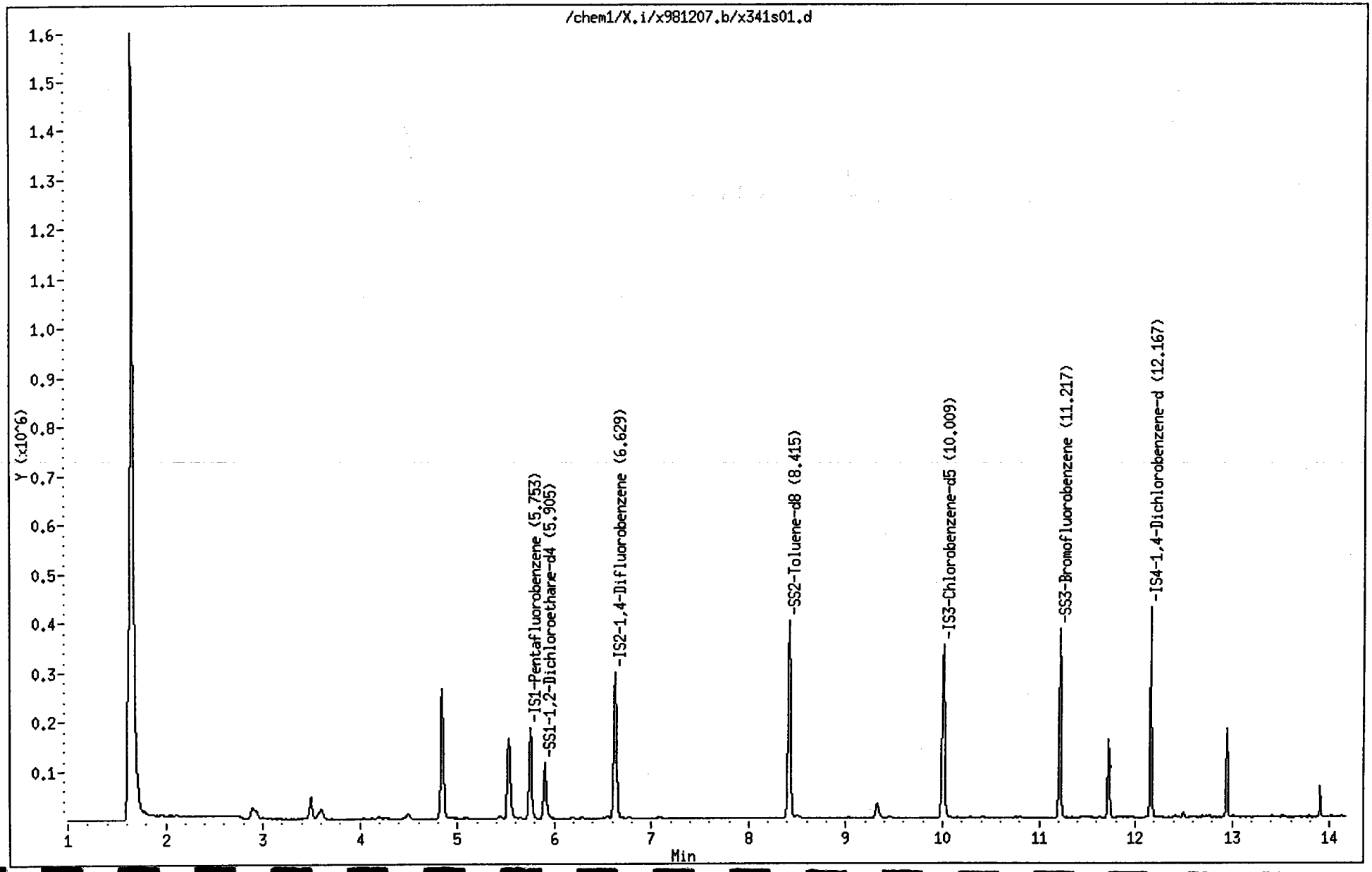
QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/X.i/x981207.b/x341s01.d
Date : 07-DEC-98 13:13
Client ID:
Sample Info: 9811B71-03A-8260S/1X;1

Instrument: X.i

Operator: YTS
Column diameter: 0.25

Column phase: 30m,hp5ms,1.0u df



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Certificate of Analysis No. L1-9811B71-03

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-4 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 12:50:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	470	ug/Kg
Acenaphthylene	ND	470	ug/Kg
Aniline	ND	470	ug/Kg
Anthracene	ND	470	ug/Kg
Benzo(a)Anthracene	ND	470	ug/Kg
Benzo(b)Fluoranthene	ND	470	ug/Kg
Benzo(k)Fluoranthene	ND	470	ug/Kg
Benzo(a)Pyrene	ND	470	ug/Kg
Benzoic Acid	ND	2400	ug/Kg
Benzo(g,h,i)Perylene	ND	470	ug/Kg
Benzyl alcohol	ND	470	ug/Kg
4-Bromophenylphenyl ether	ND	470	ug/Kg
Butylbenzylphthalate	ND	470	ug/Kg
di-n-Butyl phthalate	ND	470	ug/Kg
Carbazole	ND	470	ug/Kg
4-Chloroaniline	ND	470	ug/Kg
bis(2-Chloroethoxy)Methane	ND	470	ug/Kg
bis(2-Chloroethyl)Ether	ND	470	ug/Kg
bis(2-Chloroisopropyl)Ether	ND	470	ug/Kg
4-Chloro-3-Methylphenol	ND	470	ug/Kg
2-Chloronaphthalene	ND	470	ug/Kg
2-Chlorophenol	ND	470	ug/Kg
4-Chlorophenylphenyl ether	ND	470	ug/Kg
Chrysene	ND	470	ug/Kg
Dibenz(a,h)Anthracene	ND	470	ug/Kg
Dibenzofuran	ND	470	ug/Kg
1,2-Dichlorobenzene	ND	470	ug/Kg
1,3-Dichlorobenzene	ND	470	ug/Kg
1,4-Dichlorobenzene	ND	470	ug/Kg
3,3'-Dichlorobenzidine	ND	470	ug/Kg
2,4-Dichlorophenol	ND	470	ug/Kg
Diethylphthalate	ND	470	ug/Kg
2,4-Dimethylphenol	ND	470	ug/Kg
Dimethyl Phthalate	ND	470	ug/Kg
4,6-Dinitro-2-Methylphenol	ND	940	ug/Kg
2,4-Dinitrophenol	ND	940	ug/Kg
2,4-Dinitrotoluene	ND	470	ug/Kg
2,6-Dinitrotoluene	ND	470	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

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Certificate of Analysis No. L1-9811B71-03

UNOCAL CORPORATION

SAMPLE ID: GP-4 12-16'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
1,2-Diphenylhydrazine	ND	470	ug/Kg
bis(2-Ethylhexyl)Phthalate	ND	470	ug/Kg
Fluoranthene	ND	470	ug/Kg
Fluorene	ND	470	ug/Kg
Hexachlorobenzene	ND	470	ug/Kg
Hexachlorobutadiene	ND	470	ug/Kg
Hexachloroethane	ND	470	ug/Kg
Hexachlorocyclopentadiene	ND	470	ug/Kg
Indeno(1,2,3-cd)Pyrene	ND	470	ug/Kg
Isophorone	ND	470	ug/Kg
2-Methylnaphthalene	ND	470	ug/Kg
2-Methylphenol	ND	470	ug/Kg
Naphthalene	ND	470	ug/Kg
2-Nitroaniline	ND	1200	ug/Kg
3-Nitroaniline	ND	1200	ug/Kg
4-Nitroaniline	ND	1200	ug/Kg
Nitrobenzene	ND	470	ug/Kg
2-Nitrophenol	ND	470	ug/Kg
4-Nitrophenol	ND	940	ug/Kg
N-Nitrosodiphenylamine	ND	470	ug/Kg
N-Nitroso-Di-n-Propylamine	ND	470	ug/Kg
Di-n-Octyl Phthalate	ND	940	ug/Kg
Pentachlorophenol	ND	940	ug/Kg
Phenanthrene	ND	470	ug/Kg
Phenol	ND	470	ug/Kg
Pyrene	ND	470	ug/Kg
1,2,4-Trichlorobenzene	ND	470	ug/Kg
2,4,5-Trichlorophenol	ND	1200	ug/Kg
2,4,6-Trichlorophenol	ND	470	ug/Kg
m,p-Cresols	ND	470	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

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Certificate of Analysis No. L1-9811B71-03

UNOCAL CORPORATION

SAMPLE ID: GP-4 12-16'

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
Nitrobenzene-d5	2400 ug/Kg	54	23	120
2-Fluorobiphenyl	2400 ug/Kg	58	30	115
Terphenyl-d14	2400 ug/Kg	58	18	137
Phenol-d5	3500 ug/Kg	60	24	113
2-Fluorophenol	3500 ug/Kg	57	25	121
2,4,6-Tribromophenol	3500 ug/Kg	60	19	122
2-Chlorophenol-d4	3500 ug/Kg	63	20	130
1,2-Dichlorobenzene-d4	2400 ug/Kg	54	20	130

ANALYZED BY: SEN DATE/TIME: 12/02/98 15:40:00
EXTRACTED BY: DMB DATE/TIME: 11/30/98 09:00:00
METHOD: 8270, Semivolatile Organics - Soil
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

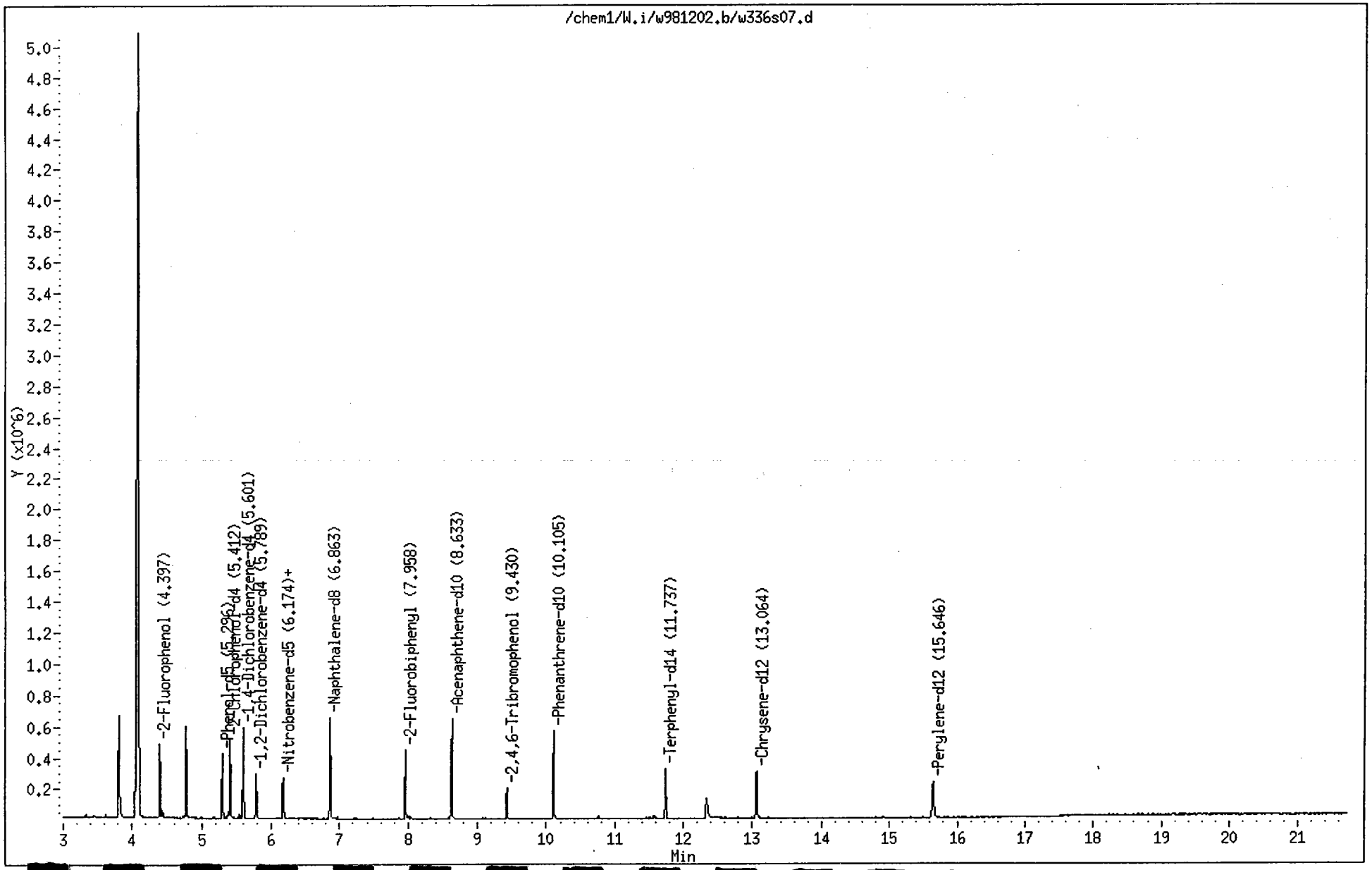
COMMENTS: Method 8270 Associated Blank: W336B04 File ID: W336S07

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/W.i/w981202.b/w336s07.d
Date : 02-DEC-98 15:40
Client ID:
Sample Info: 9811B71-03B-8270S/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: W.i

Operator: SEN
Column diameter: 0.25



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Certificate of Analysis No. L1-9811B71-04

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
DATE: 12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-3 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 14:00:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Unadjusted Aliphatics C9-C18	ND	24 P	mg/Kg
Unadjusted Aliphatics C19-C36	ND	25 P	mg/Kg
Surrogate	**% Recovery**		
Chloro-octa-decane	54		
Unadjusted Aromatics C11-C22	ND	62 P	mg/Kg
2-Bromonaphthalene	68		
o-Terphenyl	58		
2-Fluorobiphenyl	71		
Method MA EPH			
Analyzed by: OL			
Date: 12/02/98			
Unadjusted Aliphatics C5-C8	ND	19 P	mg/Kg
Unadjusted Aliphatics C9-C12	ND	19 P	mg/Kg
Unadjusted Aromatics C9-C10	ND	19 P	mg/Kg
Surrogate	**% Recovery**		
4-Bromofluorobenzene	100		
Method MA VPH			
Analyzed by: TD			
Date: 11/30/98			
Total Solids	64.9	0.1	wt %
EPA CLP Inorganic SOW-ILM03			
Analyzed by: WJB			
Date: 11/30/98 14:00:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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Certificate of Analysis No. L1-9811B71-04

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ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
DATE: 12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-3 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 14:00:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/27/98 11:00:00	11/27/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/27/98 11:00:00	11/27/98		-
Soil Extraction for MA VPH MA VPH Analyzed by: MG Date: 11/25/98 11:48:00	11/25/98	date complete	

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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Certificate of Analysis No. L1-9811B71-04

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P.O.#
9787214-4675-62252 COC#15315
12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-3 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 14:00:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Benzene	ND	8	ug/Kg
Bromodichloromethane	ND	8	ug/Kg
Bromoform	ND	8	ug/Kg
Bromomethane	ND	8	ug/Kg
Carbon tetrachloride	ND	8	ug/Kg
Chlorobenzene	ND	8	ug/Kg
Chlorodibromomethane	ND	8	ug/Kg
Chloroethane	ND	8	ug/Kg
Chloroform	ND	8	ug/Kg
Chloromethane	ND	8	ug/Kg
1,1-Dichloroethane	ND	8	ug/Kg
1,2-Dichloroethane	ND	8	ug/Kg
1,1-Dichloroethene	ND	8	ug/Kg
cis-1,2-Dichloroethene	ND	8	ug/Kg
trans-1,2-Dichloroethene	ND	8	ug/Kg
1,2-Dichloropropane	ND	8	ug/Kg
Ethylbenzene	ND	8	ug/Kg
Methylene chloride	ND	8	ug/Kg
Styrene	ND	8	ug/Kg
1,1,2,2-Tetrachloroethane	ND	8	ug/Kg
Tetrachloroethene	ND	8	ug/Kg
Toluene	ND	8	ug/Kg
1,1,1-Trichloroethane	ND	8	ug/Kg
1,1,2-Trichloroethane	ND	8	ug/Kg
Trichloroethene	ND	8	ug/Kg
Trichlorofluoromethane	ND	8	ug/Kg
Vinyl chloride	ND	8	ug/Kg
Xylenes (total)	ND	8	ug/Kg
Acetone	ND	150	ug/Kg
1,2-Dichloroethene (total)	ND	8	ug/Kg
Carbon Disulfide	ND	8	ug/Kg
Vinyl Acetate	ND	8	ug/Kg
2-Butanone	ND	15	ug/Kg
4-Methyl-2-Pentanone	ND	8	ug/Kg
cis-1,3-Dichloropropene	ND	8	ug/Kg
trans-1,3-Dichloropropene	ND	8	ug/Kg
2-Hexanone	ND	8	ug/Kg
m,p-Xylene(s)	ND	8	ug/Kg

METHOD: 8260 Soil, Volatile Organics
(continued on next page)

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Certificate of Analysis No. L1-9811B71-04

UNOCAL CORPORATION

SAMPLE ID: GP-3 12-16'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
o-Xylene	ND	8	ug/Kg
Isopropyl ether	ND	8	ug/Kg
Methyl tert-butyl ether	180	8	ug/Kg

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	77 ug/Kg	100	80	120
Toluene-d8	77 ug/Kg	102	81	117
4-Bromofluorobenzene	77 ug/Kg	96	74	121

ANALYZED BY: YTS DATE/TIME: 12/04/98 18:54:00
METHOD: 8260 Soil, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS: Method 8260 Associated Blank: X338B01 File ID: X338S14

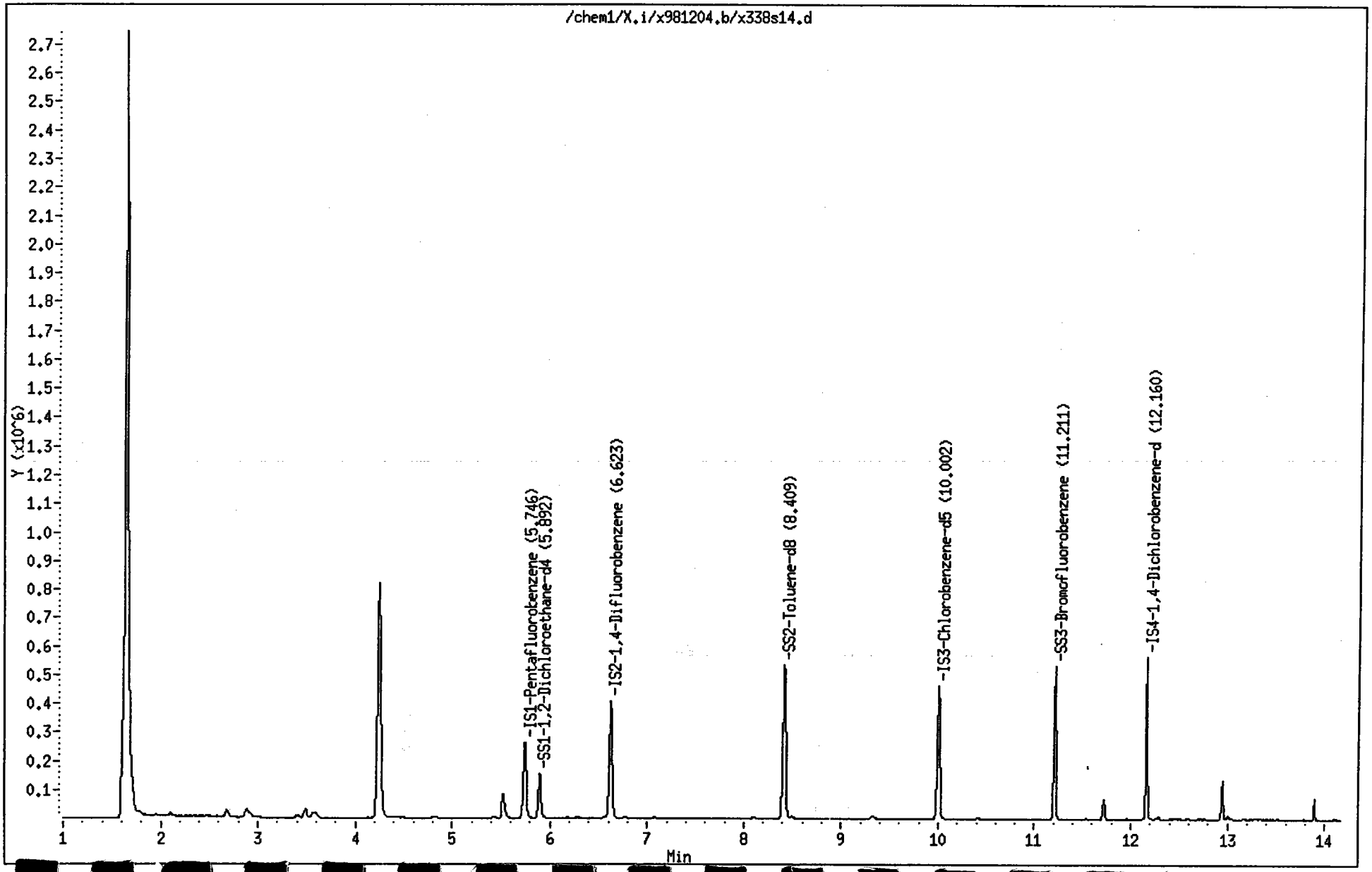
QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/X.i/x981204.b/x338s14.d
Date : 04-DEC-1998 18:54
Client ID:
Sample Info: 9811B71-04A-8260S/1X;1

Column phase: 30m,hp5ms,1.0u df

Instrument: X.i

Operator: YTS
Column diameter: 0.25



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Certificate of Analysis No. L1-9811B71-04

UNOCAL CORPORATION
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ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252 COC#15315
12/09/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-3 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/24/98 14:00:00
DATE RECEIVED: 11/25/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	510	ug/Kg
Acenaphthylene	ND	510	ug/Kg
Aniline	ND	510	ug/Kg
Anthracene	ND	510	ug/Kg
Benzo(a)Anthracene	ND	510	ug/Kg
Benzo(b)Fluoranthene	ND	510	ug/Kg
Benzo(k)Fluoranthene	ND	510	ug/Kg
Benzo(a)Pyrene	ND	510	ug/Kg
Benzoic Acid	ND	2600	ug/Kg
Benzo(g,h,i)Perylene	ND	510	ug/Kg
Benzyl alcohol	ND	510	ug/Kg
4-Bromophenylphenyl ether	ND	510	ug/Kg
Butylbenzylphthalate	ND	510	ug/Kg
di-n-Butyl phthalate	ND	510	ug/Kg
Carbazole	ND	510	ug/Kg
4-Chloroaniline	ND	510	ug/Kg
bis(2-Chloroethoxy)Methane	ND	510	ug/Kg
bis(2-Chloroethyl)Ether	ND	510	ug/Kg
bis(2-Chloroisopropyl)Ether	ND	510	ug/Kg
4-Chloro-3-Methylphenol	ND	510	ug/Kg
2-Chloronaphthalene	ND	510	ug/Kg
2-Chlorophenol	ND	510	ug/Kg
4-Chlorophenylphenyl ether	ND	510	ug/Kg
Chrysene	ND	510	ug/Kg
Dibenz(a,h)Anthracene	ND	510	ug/Kg
Dibenzofuran	ND	510	ug/Kg
1,2-Dichlorobenzene	ND	510	ug/Kg
1,3-Dichlorobenzene	ND	510	ug/Kg
1,4-Dichlorobenzene	ND	510	ug/Kg
3,3'-Dichlorobenzidine	ND	510	ug/Kg
2,4-Dichlorophenol	ND	510	ug/Kg
Diethylphthalate	ND	510	ug/Kg
2,4-Dimethylphenol	ND	510	ug/Kg
Dimethyl Phthalate	ND	510	ug/Kg
4,6-Dinitro-2-Methylphenol	ND	1000	ug/Kg
2,4-Dinitrophenol	ND	1000	ug/Kg
2,4-Dinitrotoluene	ND	510	ug/Kg
2,6-Dinitrotoluene	ND	510	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

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Certificate of Analysis No. L1-9811B71-04

UNOCAL CORPORATION **SAMPLE ID:** GP-3 12-16'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
1,2-Diphenylhydrazine	ND	510	ug/Kg
bis(2-Ethylhexyl)Phthalate	ND	510	ug/Kg
Fluoranthene	ND	510	ug/Kg
Fluorene	ND	510	ug/Kg
Hexachlorobenzene	ND	510	ug/Kg
Hexachlorobutadiene	ND	510	ug/Kg
Hexachloroethane	ND	510	ug/Kg
Hexachlorocyclopentadiene	ND	510	ug/Kg
Indeno(1,2,3-cd)Pyrene	ND	510	ug/Kg
Isophorone	ND	510	ug/Kg
2-Methylnaphthalene	ND	510	ug/Kg
2-Methylphenol	ND	510	ug/Kg
Naphthalene	ND	510	ug/Kg
2-Nitroaniline	ND	1300	ug/Kg
3-Nitroaniline	ND	1300	ug/Kg
4-Nitroaniline	ND	1300	ug/Kg
Nitrobenzene	ND	510	ug/Kg
2-Nitrophenol	ND	510	ug/Kg
4-Nitrophenol	ND	1000	ug/Kg
N-Nitrosodiphenylamine	ND	510	ug/Kg
N-Nitroso-Di-n-Propylamine	ND	510	ug/Kg
Di-n-Octyl Phthalate	ND	1000	ug/Kg
Pentachlorophenol	ND	1000	ug/Kg
Phenanthrene	ND	510	ug/Kg
Phenol	ND	510	ug/Kg
Pyrene	ND	510	ug/Kg
1,2,4-Trichlorobenzene	ND	510	ug/Kg
2,4,5-Trichlorophenol	ND	1300	ug/Kg
2,4,6-Trichlorophenol	ND	510	ug/Kg
m,p-Cresols	ND	510	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B71-04

UNOCAL CORPORATION

SAMPLE ID: GP-3 12-16'

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
Nitrobenzene-d5	2600 ug/Kg	54	23	120
2-Fluorobiphenyl	2600 ug/Kg	58	30	115
Terphenyl-d14	2600 ug/Kg	58	18	137
Phenol-d5	3900 ug/Kg	56	24	113
2-Fluorophenol	3900 ug/Kg	51	25	121
2,4,6-Tribromophenol	3900 ug/Kg	56	19	122
2-Chlorophenol-d4	3900 ug/Kg	59	20	130
1,2-Dichlorobenzene-d4	2600 ug/Kg	46	20	130

ANALYZED BY: SEN DATE/TIME: 12/02/98 19:19:00
EXTRACTED BY: DMB DATE/TIME: 11/30/98 09:00:00
METHOD: 8270, Semivolatile Organics - Soil
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

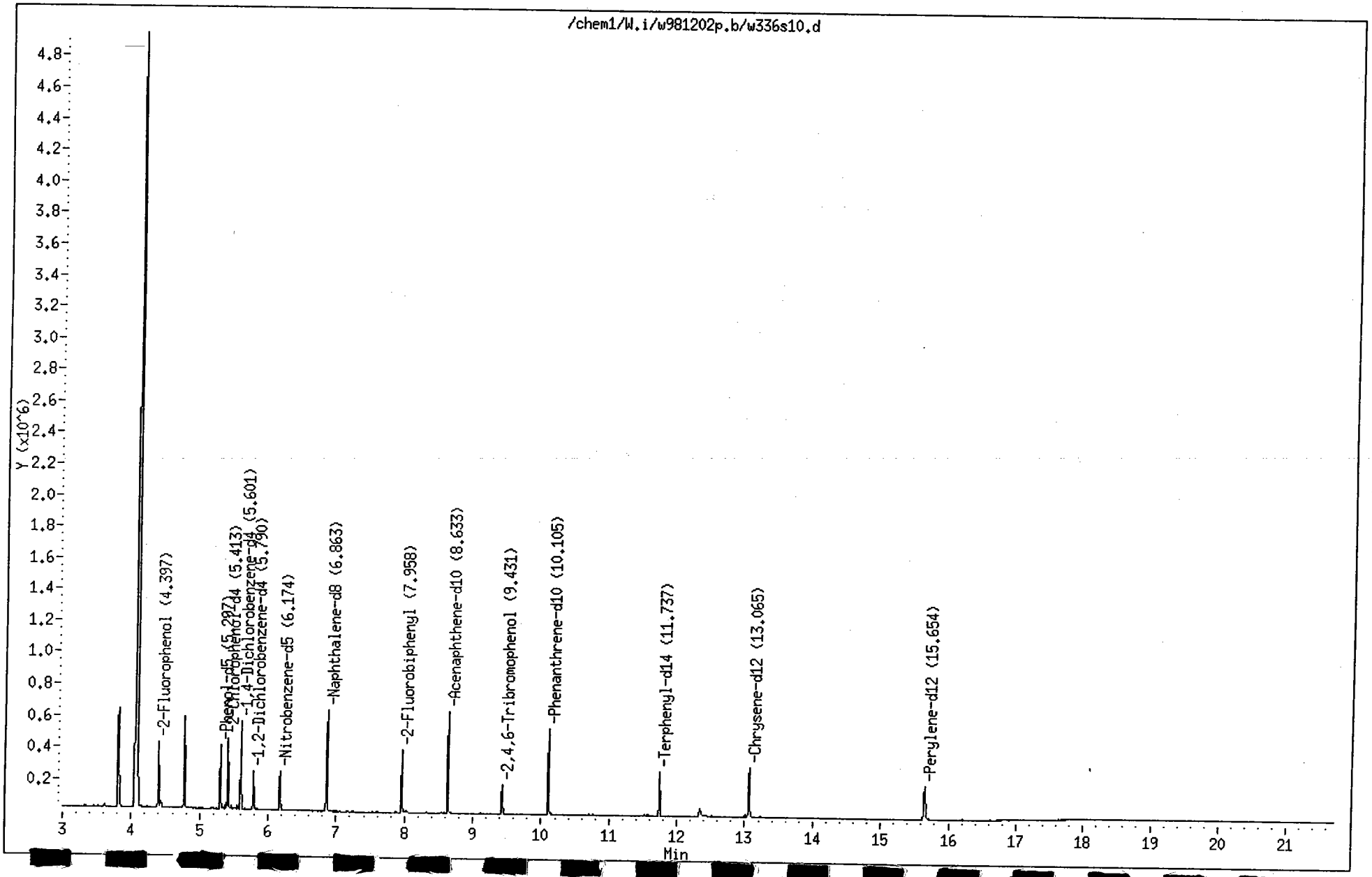
COMMENTS: Method 625 Associated Blank: W336B04 File ID: W336S10

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/W.i/w981202p.b/w336s10.d
Date : 02-DEC-1998 19:19
Client ID:
Sample Info: 9811B71-04B-8270S/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: W.i

Operator: SEN
Column diameter: 0.25



** SPL BATCH QUALITY CONTROL REPORT **

Method 8270

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Soil
Units: ug/Kg

Batch Id: E981130044703

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Phenol	ND	2500	1600	64.0	5 - 112
2-Chlorophenol	ND	2500	1700	68.0	27 - 123
1,4-Dichlorobenzene	ND	1700	1000	58.8	20 - 124
N-Nitroso-di-n-propylamine	ND	1700	1100	64.7	5 - 230
1,2,4-Trichlorobenzene	ND	1700	1200	70.6	44 - 142
4-Chloro-3-methylphenol	ND	2500	1600	64.0	22 - 147
Acenaphthene	ND	1700	1200	70.6	47 - 145
4-Nitrophenol	ND	2500	1600	64.0	10 - 132
2,4-Dinitrotoluene	ND	1700	1200	70.6	39 - 139
Pentachlorophenol	ND	2500	1600	64.0	14 - 176
Pyrene	ND	1700	1100	64.7	52 - 115

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
PHENOL	ND	3500	1800	50.0	2100	60.0	18.2	42	5 - 112
2-CHLOROPHENOL	ND	3500	2000	55.6	2200	62.9	12.3	40	27 - 123
1,4-DICHLOROBENZENE	ND	2400	1100	45.8	1200	50.0	8.77	28	20 - 124
N-NITROSO-DI-N-PROPYLAMINE	ND	2400	1300	54.2	1400	58.3	7.29	38	5 - 230
1,2,4-TRICHLOROBENZENE	ND	2400	1300	54.2	1400	58.3	7.29	28	44 - 142
4-CHLORO-3-METHYLPHENOL	ND	3500	2100	58.3	2100	60.0	2.87	42	22 - 147
ACENAPHTHENE	ND	2400	1400	58.3	1500	62.5	6.95	31	47 - 145
4-NITROPHENOL	ND	3500	2100	58.3	2100	60.0	2.87	50	10 - 132
2,4-DINITROTOLUENE	ND	2400	1500	62.5	1500	62.5	0	38	39 - 139
PENTACHLOROPHENOL	ND	3500	2000	55.6	2000	57.1	2.66	50	14 - 176
PYRENE	ND	2400	1400	58.3	1400	58.3	0	31	52 - 115

** SPL BATCH QUALITY CONTROL REPORT **

Method 8270

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Soil

Units: ug/Kg

Batch Id: E981130044703

Analyst: SEN

Sequence Date: 12/02/98

SPL ID of sample spiked: 9811B71-01B

Sample File ID: W336S08.D

Method Blank File ID: W336B04

Blank Spike File ID: W336TL4.D

Matrix Spike File ID: W336K04.D

Matrix Spike Duplicate File ID: W336KD4.D

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: CLP SOW 1/91

(***) = Source: CLP SOW 1/91

SAMPLES IN BATCH(SPL ID): 9811B71-01B 9811B71-02B 9811B71-04B 9811B71-03B

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8009

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: E981130044703

Reported on: 12/09/98 11:17
Analyzed on: 12/02/98 14:35
Analyst: SEN

Method 8270 - W336B04

Compound	Result	Detection Limit	Units
Phenol	ND	330	ug/Kg
Aniline	ND	330	ug/Kg
bis(2-Chloroethyl)ether	ND	330	ug/Kg
2-Chlorophenol	ND	330	ug/Kg
1,3-Dichlorobenzene	ND	330	ug/Kg
1,4-Dichlorobenzene	ND	330	ug/Kg
Benzyl alcohol	ND	330	ug/Kg
1,2-Dichlorobenzene	ND	330	ug/Kg
2-Methylphenol	ND	330	ug/Kg
bis(2-chloroisopropyl)ethe	ND	330	ug/Kg
N-Nitroso-di-n-propylamine	ND	330	ug/Kg
Hexachloroethane	ND	330	ug/Kg
Nitrobenzene	ND	330	ug/Kg
Isophorone	ND	330	ug/Kg
2-Nitrophenol	ND	330	ug/Kg
2,4-Dimethylphenol	ND	330	ug/Kg
bis(2-Chloroethoxy)methane	ND	330	ug/Kg
Benzoic acid	ND	1700	ug/Kg
2,4-Dichlorophenol	ND	330	ug/Kg
1,2,4-Trichlorobenzene	ND	330	ug/Kg
Naphthalene	ND	330	ug/Kg
4-Chloroaniline	ND	330	ug/Kg
Hexachlorobutadiene	ND	330	ug/Kg
4-Chloro-3-methylphenol	ND	330	ug/Kg
2-Methylnaphthalene	ND	330	ug/Kg
Hexachlorocyclopentadiene	ND	330	ug/Kg
2,4,6-Trichlorophenol	ND	330	ug/Kg
2,4,5-Trichlorophenol	ND	830	ug/Kg
2-Chloronaphthalene	ND	330	ug/Kg
2-Nitroaniline	ND	830	ug/Kg
Dimethylphthalate	ND	330	ug/Kg
Acenaphthylene	ND	330	ug/Kg
2,6-Dinitrotoluene	ND	330	ug/Kg
3-Nitroaniline	ND	830	ug/Kg

Notes

ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: E981130044703

Reported on: 12/09/98 11:17
Analyzed on: 12/02/98 14:35
Analyst: SEN

Method 8270 - W336B04

Compound	Result	Detection Limit	Units
Acenaphthene	ND	330	ug/Kg
2,4-Dinitrophenol	ND	660	ug/Kg
4-Nitrophenol	ND	660	ug/Kg
Dibenzofuran	ND	330	ug/Kg
2,4-Dinitrotoluene	ND	330	ug/Kg
Diethylphthalate	ND	330	ug/Kg
Fluorene	ND	330	ug/Kg
4-Chlorophenyl phenyl ethe	ND	330	ug/Kg
4-Nitroaniline	ND	830	ug/Kg
4,6-Dinitro-2-methylphenol	ND	660	ug/Kg
N-Nitrosodiphenylamine	ND	330	ug/Kg
1,2-Diphenylhydrazine	ND	330	ug/Kg
4-Bromophenyl phenyl ether	ND	330	ug/Kg
Hexachlorobenzene	ND	330	ug/Kg
Pentachlorophenol	ND	660	ug/Kg
Phenanthrene	ND	330	ug/Kg
Anthracene	ND	330	ug/Kg
Carbazole	ND	330	ug/Kg
Di-n-butylphthalate	ND	330	ug/Kg
Fluoranthene	ND	330	ug/Kg
Pyrene	ND	330	ug/Kg
Butyl benzyl phthalate	ND	330	ug/Kg
Benzo[a]anthracene	ND	330	ug/Kg
3,3'-Dichlorobenzidine	ND	330	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	330	ug/Kg
Di-n-octylphthalate	ND	670	ug/Kg
Benzo[b]fluoranthene	ND	330	ug/Kg
Benzo[k]fluoranthene	ND	330	ug/Kg
Benzo[a]pyrene	ND	330	ug/Kg
Indeno[1,2,3-cd]pyrene	ND	330	ug/Kg
Dibenz[a,h]anthracene	ND	330	ug/Kg
Benzo[g,h,i]perylene	ND	330	ug/Kg
m,p-Cresols	ND	330	ug/Kg
Chrysene	ND	330	ug/Kg

Notes

ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8905

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: E981130044703

Reported on: 12/09/98 11:17
Analyzed on: 12/02/98 14:35
Analyst: SEN

Method 8270 - W336B04

Surrogate	Result	QC Criteria	Units

Surrogate	Result	QC Criteria	Units
2-Fluorophenol	57	25-121	% Recovery
Phenol-d5	61	24-113	% Recovery
2-Chlorophenol-d4	65	20-130	% Recovery
1,2-Dichlorobenzene-d4	64	20-130	% Recovery
Nitrobenzene-d5	60	23-120	% Recovery
2-Fluorobiphenyl	66	30-115	% Recovery
2,4,6-Tribromophenol	60	19-122	% Recovery
Terphenyl-d14	65	18-137	% Recovery

Samples in Batch 9811B71-01 9811B71-02 9811B71-03 9811B71-04

Notes

ND - Not detected.

** SPL BATCH QUALITY CONTROL REPORT **

Method 8260

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Soil

Units: ug/Kg

Batch Id: X981204204301

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
1,1-Dichloroethene	ND	50	43	86.0	60 - 140
Benzene	ND	50	44	88.0	70 - 140
Trichloroethene	ND	50	42	84.0	65 - 149
Toluene	ND	50	44	88.0	60 - 130
Chlorobenzene	ND	50	43	86.0	60 - 130

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
1,1-DICHLOROETHENE	ND	6200	5000	81	5000	80	1	40	60 - 140
BENZENE	ND	6200	5300	84	5300	84	0	40	70 - 140
TRICHLOROETHENE	ND	6200	4900	78	4900	79	1	40	65 - 149
TOLUENE	ND	6200	5400	87	5500	89	2	40	60 - 130
CHLOROBENZENE	ND	6200	5400	87	5500	89	2	40	60 - 130

Analyst: YTS

Sequence Date: 12/04/98

SPL ID of sample spiked: 9811B33-02A

Sample File ID: X338S02.D

Method Blank File ID: X338B01

Blank Spike File ID: X338TL3.D

Matrix Spike File ID: X338K01.D

Matrix Spike Duplicate File ID: X338KD1.D

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: SPL - Lafayette

(***) = Source: CLP SOW 1/94

SAMPLES IN BATCH(SPL ID): 9811B71-01A 9811B33-02A 9811B33-01A 9811B71-04A 9811B71-02A

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: X981204204301

Reported on: 12/09/98 11:17
Analyzed on: 12/04/98 14:16
Analyst: YTS

Method 8260 - X338B01

Compound	Result	Detection Limit	Units
Chloromethane	ND	5	ug/Kg
Vinyl Chloride	ND	5	ug/Kg
Bromomethane	ND	5	ug/Kg
Chloroethane	ND	5	ug/Kg
Trichlorofluoromethane	ND	5	ug/Kg
Acetone	ND	100	ug/Kg
1,1-Dichloroethene	ND	5	ug/Kg
Methylene Chloride	ND	5	ug/Kg
1,2-Dichloroethene (total)	ND	5	ug/Kg
Carbon Disulfide	ND	5	ug/Kg
trans-1,2-Dichloroethene	ND	5	ug/Kg
1,1-Dichloroethane	ND	5	ug/Kg
Vinyl Acetate	ND	5	ug/Kg
2-Butanone	ND	10	ug/Kg
cis-1,2-Dichloroethene	ND	5	ug/Kg
Chloroform	ND	5	ug/Kg
1,1,1-Trichloroethane	ND	5	ug/Kg
1,2-Dichloroethane	ND	5	ug/Kg
Benzene	ND	5	ug/Kg
Carbon Tetrachloride	ND	5	ug/Kg
1,2-Dichloropropane	ND	5	ug/Kg
Trichloroethene	ND	5	ug/Kg
Bromodichloromethane	ND	5	ug/Kg
4-Methyl-2-Pentanone	ND	5	ug/Kg
cis-1,3-Dichloropropene	ND	5	ug/Kg
trans-1,3-Dichloropropene	ND	5	ug/Kg
Toluene	ND	5	ug/Kg
1,1,2-Trichloroethane	ND	5	ug/Kg
2-Hexanone	ND	5	ug/Kg
Dibromochloromethane	ND	5	ug/Kg
Tetrachloroethene	ND	5	ug/Kg
Chlorobenzene	ND	5	ug/Kg
Xylene (Total)	ND	5	ug/Kg
Ethylbenzene	ND	5	ug/Kg

Notes

ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: X981204204301

Reported on: 12/09/98 11:17
Analyzed on: 12/04/98 14:16
Analyst: YTS

Method 8260 - X338B01

Compound	Result	Detection Limit	Units
m,p-Xylene(s)	ND	5	ug/Kg
Bromoform	ND	5	ug/Kg
Styrene	ND	5	ug/Kg
o-Xylene	ND	5	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5	ug/Kg
Methyl tert-butyl ether	ND	5	ug/Kg

Surrogate	Result	QC Criteria	Units
SS1-1,2-Dichloroethane-d4	89	80-120	% Recovery
SS2-Toluene-d8	102	81-117	% Recovery
SS3-Bromofluorobenzene	93	74-121	% Recovery

Samples in Batch 9811B71-01 9811B71-02 9811B71-04

Notes

ND - Not detected.

** SPL BATCH QUALITY CONTROL REPORT **

Method 8260

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Soil

Units: ug/Kg

Batch Id: X981207204301

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
1,1-Dichloroethene	ND	50	49	98.0	60 - 140
Benzene	ND	50	50	100	70 - 140
Trichloroethene	ND	50	48	96.0	65 - 149
Toluene	ND	50	50	100	60 - 130
Chlorobenzene	ND	50	50	100	60 - 130

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
1,1-DICHLOROETHENE	ND	71	55	77	59	83	8	40	60 - 140
BENZENE	ND	71	56	79	57	81	2	40	70 - 140
TRICHLOROETHENE	ND	71	53	75	54	77	3	40	65 - 149
TOLUENE	ND	71	55	78	54	76	3	40	60 - 130
CHLOROBENZENE	ND	71	52	74	54	77	4	40	60 - 130

Analyst: YTS

Sequence Date: 12/07/98

SPL ID of sample spiked: 9811B71-03A

Sample File ID: X341S01.D

Method Blank File ID: X341B01

Blank Spike File ID: X341TL1.D

Matrix Spike File ID: X341K01.D

Matrix Spike Duplicate File ID: X341KD1.D

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: SPL - Lafayette

(***) = Source: CLP SOW 1/94

SAMPLES IN BATCH(SPL ID): 9812127-02A 9811B71-03A

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: X981207204301

Reported on: 12/09/98 11:17
Analyzed on: 12/07/98 10:49
Analyst: YTS

Method 8260 - X341B01

Compound	Result	Detection Limit	Units
Chloromethane	ND	5	ug/Kg
Vinyl Chloride	ND	5	ug/Kg
Bromomethane	ND	5	ug/Kg
Chloroethane	ND	5	ug/Kg
Trichlorofluoromethane	ND	5	ug/Kg
Acetone	ND	100	ug/Kg
1,1-Dichloroethene	ND	5	ug/Kg
Methylene Chloride	ND	5	ug/Kg
1,2-Dichloroethene (total)	ND	5	ug/Kg
Carbon Disulfide	ND	5	ug/Kg
trans-1,2-Dichloroethene	ND	5	ug/Kg
1,1-Dichloroethane	ND	5	ug/Kg
Vinyl Acetate	ND	5	ug/Kg
2-Butanone	ND	10	ug/Kg
cis-1,2-Dichloroethene	ND	5	ug/Kg
Chloroform	ND	5	ug/Kg
1,1,1-Trichloroethane	ND	5	ug/Kg
1,2-Dichloroethane	ND	5	ug/Kg
Benzene	ND	5	ug/Kg
Carbon Tetrachloride	ND	5	ug/Kg
1,2-Dichloropropane	ND	5	ug/Kg
Trichloroethene	ND	5	ug/Kg
Bromodichloromethane	ND	5	ug/Kg
4-Methyl-2-Pentanone	ND	5	ug/Kg
cis-1,3-Dichloropropene	ND	5	ug/Kg
trans-1,3-Dichloropropene	ND	5	ug/Kg
Toluene	ND	5	ug/Kg
1,1,2-Trichloroethane	ND	5	ug/Kg
2-Hexanone	ND	5	ug/Kg
Dibromochloromethane	ND	5	ug/Kg
Tetrachloroethene	ND	5	ug/Kg
Chlorobenzene	ND	5	ug/Kg
Xylene (Total)	ND	5	ug/Kg
Ethylbenzene	ND	5	ug/Kg

Notes

ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: X981207204301

Reported on: 12/09/98 11:17
Analyzed on: 12/07/98 10:49
Analyst: YTS

Method 8260 - X341B01

Compound	Result	Detection Limit	Units
m,p-Xylene(s)	ND	5	ug/Kg
Bromoform	ND	5	ug/Kg
Styrene	ND	5	ug/Kg
o-Xylene	ND	5	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5	ug/Kg
Methyl tert-butyl ether	ND	5	ug/Kg

Surrogate	Result	QC Criteria	Units
SS1-1,2-Dichloroethane-d4	108	80-120	% Recovery
SS2-Toluene-d8	98	81-117	% Recovery
SS3-Bromofluorobenzene	95	74-121	% Recovery

Samples in Batch 9811B71-03

Notes

ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 12/01/98
Analyzed on: 11/30/98
Analyst: WJB

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Total Solids
EPA CLP Inorganic SOW-ILM03

-- DUPLICATE ANALYSIS --

SPL Sample ID	Original Sample Concentration wt.%	Duplicate Sample wt.%	RPD	RPD Max.
9811B71-04B	64.9	66.0	1.7	20

TSOL981130140000-9812011

Samples in batch:

9811B33-01B	9811B33-02B	9811B71-01B	9811B71-02B
9811B71-03B	9811B71-04B	9811B73-01C	9811C10-01B
9811C10-02B	9811C10-03B	9811C71-01A	9811C72-01A
9811D71-01B	9811D71-02B	9811D71-03B	

COMMENTS:

SURROGATE RECOVERY SUMMARY
12/09/98 11:19:16

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Method 8270C ***
WORK ORDER: 9811B71-01B

BATCH#:E981130044703
CLIENT SAMPLE ID:GP-5 14-17'

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
Nitrobenzene-d5	2000	1000	50	23- 120
2-Fluorobiphenyl	2000	1100	55	30- 115
Terphenyl-d14	2000	1100	55	18- 137
Phenol-d5	3000	1500	50	24- 113
2-Fluorophenol	3000	1500	50	25- 121
2,4,6-Tribromophenol	3000	1500	50	19- 122
2-Chlorophenol-d4	3000	1600	53	20- 130
1,2-Dichlorobenzene-d4	2000	1000	50	20- 130

Method 8270C ***
WORK ORDER: 9811B71-02B

BATCH#:E981130044703
CLIENT SAMPLE ID:GP-1 16-20'

Nitrobenzene-d5	2400	1300	54	23- 120
2-Fluorobiphenyl	2400	1400	58	30- 115
Terphenyl-d14	2400	1500	62	18- 137
Phenol-d5	3500	2100	60	24- 113
2-Fluorophenol	3500	2000	57	25- 121
2,4,6-Tribromophenol	3500	2100	60	19- 122
2-Chlorophenol-d4	3500	2200	63	20- 130
1,2-Dichlorobenzene-d4	2400	1300	54	20- 130

Method 8270C ***
WORK ORDER: 9811B71-03B

BATCH#:E981130044703
CLIENT SAMPLE ID:GP-4 12-16'

Nitrobenzene-d5	2400	1300	54	23- 120
2-Fluorobiphenyl	2400	1400	58	30- 115
Terphenyl-d14	2400	1400	58	18- 137
Phenol-d5	3500	2100	60	24- 113
2-Fluorophenol	3500	2000	57	25- 121
2,4,6-Tribromophenol	3500	2100	60	19- 122
2-Chlorophenol-d4	3500	2200	63	20- 130
1,2-Dichlorobenzene-d4	2400	1300	54	20- 130

Method 8270C ***
WORK ORDER: 9811B71-04B

BATCH#:E981130044703
CLIENT SAMPLE ID:GP-3 12-16'

Nitrobenzene-d5	2600	1400	54	23- 120
2-Fluorobiphenyl	2600	1500	58	30- 115
Terphenyl-d14	2600	1500	58	18- 137
Phenol-d5	3900	2200	56	24- 113
2-Fluorophenol	3900	2000	51	25- 121
2,4,6-Tribromophenol	3900	2200	56	19- 122
2-Chlorophenol-d4	3900	2300	59	20- 130

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
1,2-Dichlorobenzene-d4	2600	1200	46	20- 130

Method 8270C *** **BATCH#:**E981130044703
WORK ORDER: Method Blank **CLIENT SAMPLE ID:**

2-Fluorophenol	2500	1400	57	25- 121
Phenol-d5	2500	1500	61	24- 113
2-Chlorophenol-d4	2500	1600	65	20- 130
1,2-Dichlorobenzene-d4	1700	1100	64	20- 130
Nitrobenzene-d5	1700	990	60	23- 120
2-Fluorobiphenyl	1700	1100	66	30- 115
2,4,6-Tribromophenol	2500	1500	60	19- 122
Terphenyl-d14	1700	1100	65	18- 137

Method 8270C *** **BATCH#:**E981130044703
WORK ORDER: LCS **CLIENT SAMPLE ID:**

2-Fluorophenol	2500	1700	68.0	25- 121
Phenol-d5	2500	1800	72.0	24- 113
2-Chlorophenol-d4	2500	1900	76.0	20- 130
1,2-Dichlorobenzene-d4	1700	1200	70.6	20- 130
Nitrobenzene-d5	1700	1100	64.7	23- 120
2-Fluorobiphenyl	1700	1200	70.6	30- 115
2,4,6-Tribromophenol	2500	1900	76.0	19- 122
Terphenyl-d14	1700	1200	70.6	18- 137

Method 8270C *** **BATCH#:**E981130044703
WORK ORDER: Matrix Spike **CLIENT SAMPLE ID:**9811B71-03B

2-FLUOROPHENOL	3600	1900	53	25- 121
PHENOL-D5	3600	1900	53	24- 113
2-CHLOROPHENOL-D4	3600	2100	58	20- 130
1,2-DICHLOROBENZENE-D4	2400	1300	54	20- 130
NITROBENZENE-D5	2400	1200	50	23- 120
2-FLUOROBIPHENYL	2400	1400	58	30- 115
2,4,6-TRIBROMOPHENOL	3600	2200	61	19- 122
TERPHENYL-D14	2400	1400	58	18- 137

Method 8270C *** **BATCH#:**E981130044703
WORK ORDER: Matrix Spike Dup. **CLIENT SAMPLE ID:**9811B71-03B

2-Fluorophenol	3500	2100	60	25- 121
Phenol-d5	3500	2200	63	24- 113
2-Chlorophenol-d4	3500	2400	69	20- 130
1,2-Dichlorobenzene-d4	2400	1500	62	20- 130
Nitrobenzene-d5	2400	1400	58	23- 120
2-Fluorobiphenyl	2400	1600	67	30- 115

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
2,4,6-Tribromophenol	3500	2400	69	19- 122
Terphenyl-d14	2400	1500	62	18- 137

Method 8260B *** **BATCH#:**X981130204301
WORK ORDER: Method Blank **CLIENT SAMPLE ID:**

SS1-1,2-Dichloroethane-d4	50	52	103	80- 120
SS2-Toluene-d8	50	50	99.8	81- 117
SS3-Bromofluorobenzene	50	48	95	74- 121

Method 8260B *** **BATCH#:**X981130204301
WORK ORDER: LCS **CLIENT SAMPLE ID:**

SS1-1,2-Dichloroethane-d4	50	47	94.0	80- 120
SS2-Toluene-d8	50	49	98.0	81- 117
SS3-Bromofluorobenzene	50	47	94.0	74- 121

Method 8260B *** **BATCH#:**X981130204301
WORK ORDER: Matrix Spike **CLIENT SAMPLE ID:**9811A89-01A

SS1-1,2-DICHLOROETHANE-D4	50	46.0000	92	80- 120
SS2-TOLUENE-D8	50	49.0000	99	81- 117
SS3-BROMOFLUOROBENZENE	50	47.0000	95	74- 121

Method 8260B *** **BATCH#:**X981130204301
WORK ORDER: Matrix Spike Dup. **CLIENT SAMPLE ID:**9811A89-01A

SS1-1,2-DICHLOROETHANE-D4	50	44.0000	89	80- 120
SS2-TOLUENE-D8	50	49.0000	99	81- 117
SS3-BROMOFLUOROBENZENE	50	48.0000	96	74- 121

Method 8260B *** **BATCH#:**X981201204301
WORK ORDER: Method Blank **CLIENT SAMPLE ID:**

SS1-1,2-Dichloroethane-d4	50	51	102	80- 120
SS2-Toluene-d8	50	49	99	81- 117
SS3-Bromofluorobenzene	50	48	96	74- 121

Method 8260B *** **BATCH#:**X981201204301
WORK ORDER: LCS **CLIENT SAMPLE ID:**

SS1-1,2-Dichloroethane-d4	50	50	100	80- 120
SS2-Toluene-d8	50	50	100	81- 117
SS3-Bromofluorobenzene	50	48	96.0	74- 121

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL COMPOUND®

SURROGATE RECOVERY SUMMARY
12/09/98 11:19:16

Method 8260B *** BATCH#:X981201204301
WORK ORDER: Matrix Spike CLIENT SAMPLE ID:9811A88-01F

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
SS1-1,2-DICHLOROETHANE-D4	50	48.0000	95	80- 120
SS2-TOLUENE-D8	50	50.0000	100	81- 117
SS3-BROMOFLUOROBENZENE	50	49.0000	97	74- 121

Method 8260B *** BATCH#:X981201204301
WORK ORDER: Matrix Spike Dup. CLIENT SAMPLE ID:9811A88-01F

SS1-1,2-DICHLOROETHANE-D4	50	47.0000	93	80- 120
SS2-TOLUENE-D8	50	50.0000	101	81- 117
SS3-BROMOFLUOROBENZENE	50	49.0000	97	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: 9811B71-01A CLIENT SAMPLE ID:GP-5 14-17'

SS1-1,2-Dichloroethane-d4	60	58	97	80- 120
SS2-Toluene-d8	60	61	101	81- 117
SS3-Bromofluorobenzene	60	56	93	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: 9811B71-02A CLIENT SAMPLE ID:GP-1 16-20'

SS1-1,2-Dichloroethane-d4	70	63.0000	89	80- 120
SS2-Toluene-d8	70	70.0000	99	81- 117
SS3-Bromofluorobenzene	70	69.0000	98	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: 9811B71-04A CLIENT SAMPLE ID:GP-3 12-16'

SS1-1,2-Dichloroethane-d4	77	77	100	80- 120
SS2-Toluene-d8	77	79	102	81- 117
SS3-Bromofluorobenzene	77	74	96	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: Method Blank CLIENT SAMPLE ID:

SS1-1,2-Dichloroethane-d4	50	45	89	80- 120
SS2-Toluene-d8	50	51	102	81- 117
SS3-Bromofluorobenzene	50	46	93	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: LCS CLIENT SAMPLE ID:

SS1-1,2-Dichloroethane-d4	50	46	92.0	80- 120

SURROGATE RECOVERY SUMMARY
12/09/98 11:19:16

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
SS2-Toluene-d8	50	50	100	81- 117
SS3-Bromofluorobenzene	50	46	92.0	74- 121

Method 8260B *** **BATCH#:**X981204204301
WORK ORDER: Matrix Spike **CLIENT SAMPLE ID:**9811B33-02A

SS1-1,2-DICHLOROETHANE-D4	62	50.0000	80	80- 120
SS2-TOLUENE-D8	62	63.0000	101	81- 117
SS3-BROMOFLUOROBENZENE	62	57.0000	92	74- 121

Method 8260B *** **BATCH#:**X981204204301
WORK ORDER: Matrix Spike Dup. **CLIENT SAMPLE ID:**9811B33-02A

SS1-1,2-Dichloroethane-d4	62	51.0000	81	80- 120
SS2-Toluene-d8	62	64.0000	102	81- 117
SS3-Bromofluorobenzene	62	58.0000	93	74- 121

Method 8260B *** **BATCH#:**X981207204301
WORK ORDER: 9811B71-03A **CLIENT SAMPLE ID:**GP-4 12-16'

SS1-1,2-Dichloroethane-d4	71	74	105	80- 120
SS2-Toluene-d8	71	72	102	81- 117
SS3-Bromofluorobenzene	71	69	97	74- 121

Method 8260B *** **BATCH#:**X981207204301
WORK ORDER: Method Blank **CLIENT SAMPLE ID:**

SS1-1,2-Dichloroethane-d4	50	54	108	80- 120
SS2-Toluene-d8	50	49	98	81- 117
SS3-Bromofluorobenzene	50	47	95	74- 121

Method 8260B *** **BATCH#:**X981207204301
WORK ORDER: LCS **CLIENT SAMPLE ID:**

SS1-1,2-Dichloroethane-d4	50	47	94.0	80- 120
SS2-Toluene-d8	50	49	98.0	81- 117
SS3-Bromofluorobenzene	50	46	92.0	74- 121

Method 8260B *** **BATCH#:**X981207204301
WORK ORDER: Matrix Spike **CLIENT SAMPLE ID:**9811B71-03A

SS1-1,2-DICHLOROETHANE-D4	71	64	90	80- 120
SS2-TOLUENE-D8	71	71	100	81- 117
SS3-BROMOFLUOROBENZENE	71	69	97	74- 121

SURROGATE RECOVERY SUMMARY
12/09/98 11:19:16

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Method 8260B *** BATCH#:X981207204301
WORK ORDER: Matrix Spike Dup. CLIENT SAMPLE ID:9811B71-03A

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
SS1-1,2-Dichloroethane-d4	71	68	96	80- 120
SS2-Toluene-d8	71	71	99.6	81- 117
SS3-Bromofluorobenzene	71	67	94	74- 121

« = Recovery outside of control limits
* = Methods for Chemical Analysis of Water & Wastes,1983,EPA
** = Standard Methods for Examination of Water & Wastewater,17th
*** = Test Methods for Evaluating Solid Waste,EPA SW846,3rd

VPH (Aliphatics/Aromatics) Laboratory Reporting Form Continued

Client Name: Unocal Corporation

Laboratory Name: Southern Petroleum

Project Name: #9787214,1342 Trollingwood Rd.

NC Certification # (Lab): 487

Site Location: Mebane, NC

INCLUDE APPROPRIATE UNITS

Sample Information and Analytical Results							
Lab ID	9811B71-01D	9811B71-02D	9811B71-03D	9811B71-04D			
Sample Identification	GP-5 14-17'	GP-1 16-20'	GP-4 12-16'	GP-3 12-16'			
Sample Matrix	SOIL	SOIL	SOIL	SOIL			
Date Collected	11/24/98	11/24/98	11/24/98	11/24/98			
Date Received	11/25/98	11/25/98	11/25/98	11/25/98			
Date Extracted	11/25/98	11/25/98	11/25/98	11/25/98			
Date Analyzed	11/30/98	11/30/98	11/30/98	11/30/98			
Dry Weight	.834	.707	.705	.649			
Dilution Factor	50	50	50	50			
C5 - C8 Aliphatics*	ND	82	ND	ND			
C9 - C12 Aliphatics*	ND	270	ND	ND			
C9 - C10 Aromatics*	ND	83	ND	ND			
Surrogate % Recovery - PID	99	110	100	100			
Surrogate % Recovery - FID	100	110	100	98			

Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. Encore) Option 3 = Field weight of soil

*Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

	C5 - C8 Aliphatic	C9 - C12 Aliphatic	C9 - C10 Aromatic
Percent Recovery - Matrix (Spike) - PID	NA	NA	96
Relative Percent Difference - PID Duplicate	NA	NA	2.1
Percent Recovery - Matrix (Spike) - FID	86	63	NA
Relative Percent Difference - FID Duplicate	4.8	17	NA
Percent Recovery - Fortified Blank (Spike) - PID	NA	NA	98
Percent Recovery - Fortified Blank (Spike) - FID	98	110	NA

NC = Not calculated (Sample exceeds spike by factor of 4 or more)

revision 5/6/98

VPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date 11/25/98

Calibration Ranges and Limits

Range	MDL	ML	RL
C5 - C8 Aliphatics	0.08	0.25	0.25
C9 - C12 Aliphatics	0.08	0.25	0.25
C9 - C10 Aromatics	0.08	0.25	0.25

NOTE: Please include units as appropriate

Method of Quantitation (check one): Curve or Average Response Factor

Calibration Concentration Levels

Range	Levels mg/Kg	%RSD ☒ CCC ☐
C5 - C8 Aliphatics	0.04	6.9
	0.08	
	0.16	
	0.40	
	0.80	
	1.2	
	1.6	
	4.0	
C9 - C12 Aliphatics	0.01	16
	0.02	
	0.04	
	0.10	
	0.20	
	0.30	
	0.40	
	1.0	
C9 - C10 Aromatics	0.01	14
	0.02	
	0.04	
	0.10	
	0.20	
	0.30	
	0.40	
	1.0	

NOTE: Please include units as appropriate

Calibration Check Date 11/30/98

Calibration Check

Range	Level mg/Kg	RPD
C5 - C8 Aliphatics	2.0	1.5
C9 - C12 Aliphatics	0.5	21
C9 - C10 Aromatics	0.5	3.1

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

revision 5/6/98

EPH (Aliphatics/Aromatics) Laboratory Reporting Form Continued

Client Name: Unocal

Project Name: #9787214, 1342 Trollingwood Rd.

Site Location: Mebane, NC

Laboratory Name: Southern Petroleum Labs

NC Certification # (Lab): 487

INCLUDE APPROPRIATE UNITS

Sample Information and Analytical Results							
Lab ID	9811B71-01C	9811B71-02C	9811B71-03C	9811B71-04C	9811B71-04C		
Sample Identification	GP-5	GP-1	GP-4	GP-3	GP-3		
Sample Matrix	Soil	Soil	Soil	Soil	Soil		
Date Collected	11/24/98	11/24/98	11/24/98	11/24/98	11/24/98		
Date Received	11/25/98	11/25/98	11/25/98	11/25/98	11/25/98		
Date Extracted	11/27/98	11/27/98	11/27/98	11/27/98	11/27/98		
Dry Weight	83.4%	70.7%	70.5%	64.9%	64.9%		
Dilution Factor - Aliphatics	1	1	1	1	1		
Date Analyzed - Aliphatics	12/3/98	12/3/98	12/3/98	12/3/98	12/3/98		
Dilution Factor - Aromatics	1	1	1	1	1		
Date Analyzed - Aromatics	12/2/98	12/2/98	12/2/98	12/2/98	12/2/98		
C9 - C18 Aliphatics*	ND	ND	ND	ND	ND		
C19 - C36 Aliphatics*	ND	ND	ND	ND	ND		
C11 - C22 Aromatics*	ND	ND	ND	ND	ND		
COD Surrogate % Recovery	40	47	56	54	58		
O-T Surrogate % Recovery	56	60	58	58	58		
Fractionation Surrogate % Recovery 2-Bromonaphthalene	70	69	66	68	60		
Fractionation Surrogate % Recovery 2-Fluorobiphenyl	64	70	73	71	69		

*Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

	C9 - C18 Aliphatic	C19 - C36 Aliphatic	C11 - C22 Aromatic
Percent Recovery - Fortified Blank (Spike)	71	75	68
Relative Percent Difference - Sample Duplicates	NA	NA	NA

revision 5/6/98

Blank Correction for SPE Cartridges: Yes ☒ No ☐

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date 5/5/98

Calibration Ranges and Limits

Range	MDL	ML	RL
C9 - C18 Aliphatics	7.40mg/Kg	23.5mg/Kg	24mg/Kg
C19 - C36 Aliphatics	7.86mg/Kg	25.0mg/Kg	25mg/Kg
C11 - C22 Aromatics	19.63mg/Kg	62.4mg/Kg	62mg/Kg

NOTE: Please include units as appropriate

Method of Quantitation (check one): Curve or Average Response Factor

Calibration Concentration Levels

Range	Levels ppm	%RSD ☒ CCC ☒
C9 - C18 Aliphatics	30	6.1
	60	
	120	
	300	
	600	
	1200	
C19 - C36 Aliphatics	40	3.7
	80	
	160	
	400	
	800	
	1600	
C11 - C22 Aromatics	170	2.6
	850	
	1700	
	2550	
	3400	

NOTE: Please include units as appropriate

Calibration Check Date 12/1/98

Calibration Check

Range	Level ppm	RPD
C9 - C18 Aliphatics	600	21
C19 - C36 Aliphatics	800	17
C11 - C22 Aromatics	1700	16

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

revision 5/6/98

500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA
ZIP 70583-8544
PHONE: (318) 237-4775

SPL/LE/SM-F1.06

Sample Receipt Checklist

9811B71

Client: Same	COC Serial #:			
Project #: 9987-214	Project Loc: NC	Yes	No	NA
Are Custody seals on the shipping container present and intact?		—		
Chain-of-Custody (COC) present and signed by the sampler?		✓		
Traffic reports, airbills, or bills of lading present?		✓		
Are sample containers intact?		✓		
Are sample tags/field labels present on each sample?		✓		
Are all samples present in the sample kit listed on the COC?		✓		
Do date/time of sample collection agree with COC?		✓		
Do sample tags/field tags agree with COC?		✓		
Does sample type agree with COC?		✓		
Does the number of bottles recieved for each parameter agree with COC?		✓		
Does the bottle type and volume agree with COC?		✓		
Are the analyses requested listed on the COC?		✓		
Is the sample kit temperature 2 - 6 degrees C?		✓		
Record the temperature in degrees C in the NA column.				4C
Is the pH of all preserved samples checked and documented p		—		
Are all samples preserved according to EPA guidelines?		✓		
Are all samples within the EPA maximum holding times?		✓		
Do sample containers conform to EPA guidelines?		✓		
Did the receiving technician record the date/time of receipt and sign the COC?		✓		
Was a nonconformance filled out for any items with a NO response?			—	

Method of sample delivery to SPL and airbill number where applicable (circle one)?

Fed-X UPS Other: 809299332920

Method of sample disposal:(circle one) SPL Disposal HOLD Return to Client

Receiving Technician signature: K. C	Date/Time: 11-25-98 10:30

USA Airbill

FedEx Tracking Number 809299332920

Form I.D. No. 0200

Recipient's Copy

11/24/98 [redacted]

Sender's Name: GARY SIMCOX Phone: (336) 288-7180

Company: S & M[illegible] INC.

Address: 3718 [illegible] BATTLEGROUND RD Dept/Floor/Suite/Room

City: GSO State: NC ZIP: 27410

2 Your Internal Billing Reference Information

3 To

Recipient's Name: Phone: (318) 237-4775

Company: SIDL ENVIRONMENTAL LABS

Address: 5500 AMBASSADOR CAFFERY [illegible] Dept/Floor/Suite/Room

(To "HOLD" at FedEx location, print FedEx address here)

City: SCOTT State: LA ZIP: 70583

For HOLD at FedEx Location check here

- Hold Weekday (Not available with FedEx 2Day Overnight)
- Hold Saturday (Not available at all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

For WEEKEND Delivery check here (Extra Charge. Not available at all locations)

- Saturday Delivery (Available for FedEx Priority Overnight and FedEx 2Day only)
- NEW Sunday Delivery (Available for FedEx Priority Overnight only)

8 0 9 2 9 9 3 3 2 9 2 0

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight (Next business morning)
- [ ] FedEx Standard Overnight (Next business afternoon)
- [ ] FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)
- [ ] FedEx 2Day (Second business day)
- [ ] FedEx Express Saver (Third business day)

FedEx Letter Rate not available. Minimum charge: One pound rate.

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx Overnight Freight (Next business day)
- [ ] FedEx 2Day Freight (Second business day)
- [ ] FedEx Express Saver Freight (Up to 3 business days)

(Call for delivery schedule. See back for detailed descriptions of freight services.)

5 Packaging

- [ ] FedEx Letter
- [ ] FedEx Pak (Declared value limit $500.)
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other Pkg.

6 Special Handling (One box must be checked)

Does this shipment contain dangerous goods?*

- [x] No
- [ ] Yes (As per attached Shipper's Declaration)
- [ ] Yes (Shipper's Declaration not required)
- [ ] Cargo Aircraft Only
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg.

*Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment

Bill to:

- [ ] Sender (Account No. in Section 1 will be billed)
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recipient FedEx Account No.

(Enter FedEx Account No. or Credit Card No. below)

[redacted]

Total Packages	Total Weight	Total Declared Value	Total Charges
	35	$ .00	$

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

Credit Card Auth.

8 Release Signature

Signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold Federal Express from any resulting claims.

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

Rev. Date 3/98
Part #153024
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SPL Laboratories, Inc.

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Fullerton, CA 92631
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☐ 500 Ambassador Caffery Pkwy.
Scott, Louisiana 70583
(318) 237-4775
Fax: (318) 237-7080

UNOCAL 76

Chain of Custody Record

Company Name: S & ME, INC.	Project Name: UNOCAL MEGANS 9787-214
Address: 9751 S. PINE BLVD	UNOCAL Project Manager:
City: CHARLOTTE State: NC Zip Code: 28273	AFE#: 335927785
Telephone: FAX:	Site #: M
Report To: STEWART HINES Sampler: GARY SIMCOX	QC Data: ☑ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: (Calendar Days) ☐ 10 Days (Standard) ☐ 5 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day ☐ 2-8 Hours

CODE: ☐ Misc. ☐ Detecl. ☐ 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 #	BTEX+MTBE+IPE	8270	MADEP - EPH	MADEP - VPH						Comments
GP-5	11/24/98 9:15A	S	3	GLASS ~~GLASS~~		X	X	X	X						-14' -17'
GP-1	11/24/98 10:50A	S	3			X	X	X	X						-16' -20'
GP-4	11/24/98 12:50	S	3			X	X	X	X						-12' -16'
GP-3	11/24/98 2:00	S	3			X	X	X	X						-12' -16'
													8260S		
													PNA6MS, 8270S, TSOL		
													EPHMAS, EPFMAS, EXMAGF		
													EXMAGF		
													VPHMAS, EXS, VPHMAS		

12/4/98

Relinquished By:	Date: 11/24/98	Time: 4:00 PM	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	11-25-98 Date:	10:30 Time:

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

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B33-01	SOIL	GP-6 19-22'	11/23/98	Total Solids	77.7	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	6ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	6ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	6ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	6ug/Kg	Method 8260B ***
				2-Butanone	ND	13ug/Kg	Method 8260B ***
				2-Hexanone	ND	6ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	6ug/Kg	Method 8260B ***
				Acetone	ND	130ug/Kg	Method 8260B ***
				Benzene	ND	6ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	6ug/Kg	Method 8260B ***
				Bromoform	ND	6ug/Kg	Method 8260B ***
				Bromomethane	ND	6ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	6ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	6ug/Kg	Method 8260B ***
				Chlorobenzene	ND	6ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	6ug/Kg	Method 8260B ***
				Chloroethane	ND	6ug/Kg	Method 8260B ***
				Chloroform	ND	6ug/Kg	Method 8260B ***
				Chloromethane	ND	6ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	6ug/Kg	Method 8260B ***
				Ethylbenzene	ND	6ug/Kg	Method 8260B ***
				Isopropyl ether	ND	6ug/Kg	Method 8260B ***
				m,p-Xylene(s)	ND	6ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	ND	6ug/Kg	Method 8260B ***
				Methylene chloride	ND	6ug/Kg	Method 8260B ***
				o-Xylene	ND	6ug/Kg	Method 8260B ***
				Styrene	ND	6ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	6ug/Kg	Method 8260B ***
				Toluene	ND	6ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	6ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	6ug/Kg	Method 8260B ***
				Trichloroethene	ND	6ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	6ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	6ug/Kg	Method 8260B ***

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.

**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811B33-01	SOIL	GP-6 19-22'	11/23/98

Compound	Result	Det Limit	Method
Vinyl chloride	ND	6ug/Kg	Method 8260B ***
Xylenes (total)	ND	6ug/Kg	Method 8260B ***
1,2,4-Trichlorobenzene	ND	430ug/Kg	Method 8270C ***
1,2-Dichlorobenzene	ND	430ug/Kg	Method 8270C ***
1,2-Diphenylhydrazine	ND	430ug/Kg	Method 8270C ***
1,3-Dichlorobenzene	ND	430ug/Kg	Method 8270C ***
1,4-Dichlorobenzene	ND	430ug/Kg	Method 8270C ***
2,4,5-Trichlorophenol	ND	1100ug/Kg	Method 8270C ***
2,4,6-Trichlorophenol	ND	430ug/Kg	Method 8270C ***
2,4-Dichlorophenol	ND	430ug/Kg	Method 8270C ***
2,4-Dimethylphenol	ND	430ug/Kg	Method 8270C ***
2,4-Dinitrophenol	ND	850ug/Kg	Method 8270C ***
2,4-Dinitrotoluene	ND	430ug/Kg	Method 8270C ***
2,6-Dinitrotoluene	ND	430ug/Kg	Method 8270C ***
2-Chloronaphthalene	ND	430ug/Kg	Method 8270C ***
2-Chlorophenol	ND	430ug/Kg	Method 8270C ***
2-Methylnaphthalene	ND	430ug/Kg	Method 8270C ***
2-Methylphenol	ND	430ug/Kg	Method 8270C ***
2-Nitroaniline	ND	1100ug/Kg	Method 8270C ***
2-Nitrophenol	ND	430ug/Kg	Method 8270C ***
3,3'-Dichlorobenzidine	ND	430ug/Kg	Method 8270C ***
3-Nitroaniline	ND	1100ug/Kg	Method 8270C ***
4,6-Dinitro-2-Methylphenol	ND	850ug/Kg	Method 8270C ***
4-Bromophenylphenyl ether	ND	430ug/Kg	Method 8270C ***
4-Chloro-3-Methylphenol	ND	430ug/Kg	Method 8270C ***
4-Chloroaniline	ND	430ug/Kg	Method 8270C ***
4-Chlorophenylphenyl ether	ND	430ug/Kg	Method 8270C ***
4-Nitroaniline	ND	1100ug/Kg	Method 8270C ***
4-Nitrophenol	ND	850ug/Kg	Method 8270C ***
Acenaphthene	ND	430ug/Kg	Method 8270C ***
Acenaphthylene	ND	430ug/Kg	Method 8270C ***
Aniline	ND	430ug/Kg	Method 8270C ***
Anthracene	ND	430ug/Kg	Method 8270C ***
Benzo(a)Anthracene	ND	430ug/Kg	Method 8270C ***
Benzo(a)Pyrene	ND	430ug/Kg	Method 8270C ***
Benzo(b)Fluoranthene	ND	430ug/Kg	Method 8270C ***
Benzo(g,h,i)Perylene	ND	430ug/Kg	Method 8270C ***
Benzo(k)Fluoranthene	ND	430ug/Kg	Method 8270C ***
Benzoic Acid	ND	2100ug/Kg	Method 8270C ***
Benzyl alcohol	ND	430ug/Kg	Method 8270C ***
bis(2-Chloroethoxy)Methane	ND	430ug/Kg	Method 8270C ***

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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FAX (318) 237-8005

Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B33-01	SOIL	GP-6 19-22'	11/23/98	bis(2-Chloroethyl)Ether	ND	430ug/Kg	Method 8270C ***
				bis(2-Chloroisopropyl)Ether	ND	430ug/Kg	Method 8270C ***
				bis(2-Ethylhexyl)Phthalate	ND	430ug/Kg	Method 8270C ***
				Butylbenzylphthalate	ND	430ug/Kg	Method 8270C ***
				Carbazole	ND	430ug/Kg	Method 8270C ***
				Chrysene	ND	430ug/Kg	Method 8270C ***
				di-n-Butyl phthalate	ND	430ug/Kg	Method 8270C ***
				Di-n-Octyl Phthalate	ND	860ug/Kg	Method 8270C ***
				Dibenz(a,h)Anthracene	ND	430ug/Kg	Method 8270C ***
				Dibenzofuran	ND	430ug/Kg	Method 8270C ***
				Diethylphthalate	ND	430ug/Kg	Method 8270C ***
				Dimethyl Phthalate	ND	430ug/Kg	Method 8270C ***
				Fluoranthene	ND	430ug/Kg	Method 8270C ***
				Fluorene	ND	430ug/Kg	Method 8270C ***
				Hexachlorobenzene	ND	430ug/Kg	Method 8270C ***
				Hexachlorobutadiene	ND	430ug/Kg	Method 8270C ***
				Hexachlorocyclopentadiene	ND	430ug/Kg	Method 8270C ***
				Hexachloroethane	ND	430ug/Kg	Method 8270C ***
				Indeno(1,2,3-cd)Pyrene	ND	430ug/Kg	Method 8270C ***
				Isophorone	ND	430ug/Kg	Method 8270C ***
				m,p-Cresols	ND	430ug/Kg	Method 8270C ***
				N-Nitroso-Di-n-Propylamine	ND	430ug/Kg	Method 8270C ***
				N-Nitrosodiphenylamine (1)	ND	430ug/Kg	Method 8270C ***
				Naphthalene	ND	430ug/Kg	Method 8270C ***
				Nitrobenzene	ND	430ug/Kg	Method 8270C ***
				Pentachlorophenol	ND	850ug/Kg	Method 8270C ***
				Phenanthrene	ND	430ug/Kg	Method 8270C ***
				Phenol	ND	430ug/Kg	Method 8270C ***
				Pyrene	ND	430ug/Kg	Method 8270C ***
				Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
				Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
				Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
				Unadjusted Aliphatics C5-C8	ND	16mg/Kg	Method MA VPH
				Unadjusted Aliphatics C9-C12	ND	16mg/Kg	Method MA VPH
				Unadjusted Aromatics C9-C10	ND	16mg/Kg	Method MA VPH

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B33-02	SOIL	GP-2 12-16'	11/23/98	Total Solids	80.2	0.1wt %	EPA CLP Inorganic SOW-ILM
				1,1,1-Trichloroethane	ND	31ug/Kg	Method 8260B ***
				1,1,2,2-Tetrachloroethane	ND	31ug/Kg	Method 8260B ***
				1,1,2-Trichloroethane	ND	31ug/Kg	Method 8260B ***
				1,1-Dichloroethane	ND	31ug/Kg	Method 8260B ***
				1,1-Dichloroethene	ND	31ug/Kg	Method 8260B ***
				1,2-Dichloroethane	ND	31ug/Kg	Method 8260B ***
				1,2-Dichloroethene (total)	ND	31ug/Kg	Method 8260B ***
				1,2-Dichloropropane	ND	31ug/Kg	Method 8260B ***
				2-Butanone	ND	62ug/Kg	Method 8260B ***
				2-Hexanone	ND	31ug/Kg	Method 8260B ***
				4-Methyl-2-Pentanone	ND	31ug/Kg	Method 8260B ***
				Acetone	ND	620ug/Kg	Method 8260B ***
				Benzene	ND	31ug/Kg	Method 8260B ***
				Bromodichloromethane	ND	31ug/Kg	Method 8260B ***
				Bromoform	ND	31ug/Kg	Method 8260B ***
				Bromomethane	ND	31ug/Kg	Method 8260B ***
				Carbon Disulfide	ND	31ug/Kg	Method 8260B ***
				Carbon tetrachloride	ND	31ug/Kg	Method 8260B ***
				Chlorobenzene	ND	31ug/Kg	Method 8260B ***
				Chlorodibromomethane	ND	31ug/Kg	Method 8260B ***
				Chloroethane	ND	31ug/Kg	Method 8260B ***
				Chloroform	ND	31ug/Kg	Method 8260B ***
				Chloromethane	ND	31ug/Kg	Method 8260B ***
				cis-1,2-Dichloroethene	ND	31ug/Kg	Method 8260B ***
				cis-1,3-Dichloropropene	ND	31ug/Kg	Method 8260B ***
				Ethylbenzene	ND	31ug/Kg	Method 8260B ***
				Isopropyl ether	ND	31ug/Kg	Method 8260B ***
				m,p-Xylene(s)	ND	31ug/Kg	Method 8260B ***
				Methyl tert-butyl ether	ND	31ug/Kg	Method 8260B ***
				Methylene chloride	ND	31ug/Kg	Method 8260B ***
				o-Xylene	ND	31ug/Kg	Method 8260B ***
				Styrene	ND	31ug/Kg	Method 8260B ***
				Tetrachloroethene	ND	31ug/Kg	Method 8260B ***
				Toluene	ND	31ug/Kg	Method 8260B ***
				trans-1,2-Dichloroethene	ND	31ug/Kg	Method 8260B ***
				trans-1,3-Dichloropropene	ND	31ug/Kg	Method 8260B ***
				Trichloroethene	ND	31ug/Kg	Method 8260B ***
				Trichlorofluoromethane	ND	31ug/Kg	Method 8260B ***
				Vinyl Acetate	ND	31ug/Kg	Method 8260B ***

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B33-02	SOIL	GP-2 12-16'	11/23/98	Vinyl chloride	ND	31ug/Kg	Method 8260B ***
				Xylenes (total)	ND	31ug/Kg	Method 8260B ***
				1,2,4-Trichlorobenzene	ND	420ug/Kg	Method 8270C ***
				1,2-Dichlorobenzene	ND	420ug/Kg	Method 8270C ***
				1,2-Diphenylhydrazine	ND	420ug/Kg	Method 8270C ***
				1,3-Dichlorobenzene	ND	420ug/Kg	Method 8270C ***
				1,4-Dichlorobenzene	ND	420ug/Kg	Method 8270C ***
				2,4,5-Trichlorophenol	ND	1000ug/Kg	Method 8270C ***
				2,4,6-Trichlorophenol	ND	420ug/Kg	Method 8270C ***
				2,4-Dichlorophenol	ND	420ug/Kg	Method 8270C ***
				2,4-Dimethylphenol	ND	420ug/Kg	Method 8270C ***
				2,4-Dinitrophenol	ND	820ug/Kg	Method 8270C ***
				2,4-Dinitrotoluene	560	420ug/Kg	Method 8270C ***
				2,6-Dinitrotoluene	ND	420ug/Kg	Method 8270C ***
				2-Chloronaphthalene	ND	420ug/Kg	Method 8270C ***
				2-Chlorophenol	ND	420ug/Kg	Method 8270C ***
				2-Methylnaphthalene	ND	420ug/Kg	Method 8270C ***
				2-Methylphenol	ND	420ug/Kg	Method 8270C ***
				2-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
				2-Nitrophenol	ND	420ug/Kg	Method 8270C ***
				3,3'-Dichlorobenzidine	ND	420ug/Kg	Method 8270C ***
				3-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
				4,6-Dinitro-2-Methylphenol	ND	820ug/Kg	Method 8270C ***
				4-Bromophenylphenyl ether	ND	420ug/Kg	Method 8270C ***
				4-Chloro-3-Methylphenol	ND	420ug/Kg	Method 8270C ***
				4-Chloroaniline	ND	420ug/Kg	Method 8270C ***
				4-Chlorophenylphenyl ether	ND	420ug/Kg	Method 8270C ***
				4-Nitroaniline	ND	1000ug/Kg	Method 8270C ***
				4-Nitrophenol	ND	820ug/Kg	Method 8270C ***
				Acenaphthene	ND	420ug/Kg	Method 8270C ***
				Acenaphthylene	ND	420ug/Kg	Method 8270C ***
				Aniline	ND	420ug/Kg	Method 8270C ***
				Anthracene	ND	420ug/Kg	Method 8270C ***
				Benzo(a)Anthracene	ND	420ug/Kg	Method 8270C ***
				Benzo(a)Pyrene	ND	420ug/Kg	Method 8270C ***
				Benzo(b)Fluoranthene	ND	420ug/Kg	Method 8270C ***
				Benzo(g,h,i)Perylene	ND	420ug/Kg	Method 8270C ***
				Benzo(k)Fluoranthene	ND	420ug/Kg	Method 8270C ***
				Benzoic Acid	ND	2100ug/Kg	Method 8270C ***
				Benzyl alcohol	ND	420ug/Kg	Method 8270C ***
				bis(2-Chloroethoxy)Methane	ND	420ug/Kg	Method 8270C ***

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.

**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Monday, December 07, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811B33-02	SOIL	GP-2 12-16'	11/23/98	bis(2-Chloroethyl)Ether	ND	420ug/Kg	Method 8270C ***
				bis(2-Chloroisopropyl)Ether	ND	420ug/Kg	Method 8270C ***
				bis(2-Ethylhexyl)Phthalate	ND	420ug/Kg	Method 8270C ***
				Butylbenzylphthalate	ND	420ug/Kg	Method 8270C ***
				Carbazole	ND	420ug/Kg	Method 8270C ***
				Chrysene	ND	420ug/Kg	Method 8270C ***
				di-n-Butyl phthalate	ND	420ug/Kg	Method 8270C ***
				Di-n-Octyl Phthalate	ND	830ug/Kg	Method 8270C ***
				Dibenz(a,h)Anthracene	ND	420ug/Kg	Method 8270C ***
				Dibenzofuran	ND	420ug/Kg	Method 8270C ***
				Diethylphthalate	ND	420ug/Kg	Method 8270C ***
				Dimethyl Phthalate	ND	420ug/Kg	Method 8270C ***
				Fluoranthene	ND	420ug/Kg	Method 8270C ***
				Fluorene	ND	420ug/Kg	Method 8270C ***
				Hexachlorobenzene	ND	420ug/Kg	Method 8270C ***
				Hexachlorobutadiene	ND	420ug/Kg	Method 8270C ***
				Hexachlorocyclopentadiene	ND	420ug/Kg	Method 8270C ***
				Hexachloroethane	ND	420ug/Kg	Method 8270C ***
				Indeno(1,2,3-cd)Pyrene	ND	420ug/Kg	Method 8270C ***
				Isophorone	ND	420ug/Kg	Method 8270C ***
				m,p-Cresols	ND	420ug/Kg	Method 8270C ***
				N-Nitroso-Di-n-Propylamine	ND	420ug/Kg	Method 8270C ***
				N-Nitrosodiphenylamine (1)	ND	420ug/Kg	Method 8270C ***
				Naphthalene	ND	420ug/Kg	Method 8270C ***
				Nitrobenzene	ND	420ug/Kg	Method 8270C ***
				Pentachlorophenol	ND	820ug/Kg	Method 8270C ***
				Phenanthrene	ND	420ug/Kg	Method 8270C ***
				Phenol	ND	420ug/Kg	Method 8270C ***
				Pyrene	ND	420ug/Kg	Method 8270C ***
				Unadjusted Aliphatics C19-C36	ND	25mg/Kg	Method MA EPH
				Unadjusted Aliphatics C9-C18	ND	24mg/Kg	Method MA EPH
				Unadjusted Aromatics C11-C22	ND	62mg/Kg	Method MA EPH
				Unadjusted Aliphatics C5-C8	ND	16mg/Kg	Method MA VPH
				Unadjusted Aliphatics C9-C12	ND	16mg/Kg	Method MA VPH
				Unadjusted Aromatics C9-C10	ND	16mg/Kg	Method MA VPH

ND - Not Detected.

Notes: ***Ref:** Methods for chemical Analysis of Water and Wastes, 1983, EPA.

****Ref:** Standard Methods for Examination of Water and Wastewater, 18th ed.

*****Ref:** Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B33-01

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 49728, COC#15314
DATE: 12/07/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-6 19-22'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/23/98 15:30:00
DATE RECEIVED: 11/24/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Unadjusted Aliphatics C9-C18	ND	24 P	mg/Kg
Unadjusted Aliphatics C19-C36	ND	25 P	mg/Kg
Surrogate	**% Recovery**		
Chloro-octa-decane	63		
Unadjusted Aromatics C11-C22	ND	62 P	mg/Kg
2-Bromonaphthalene	57		
o-Terphenyl	58		
2-Fluorobiphenyl	72		
Method MA EPH			
Analyzed by: OL			
Date: 12/01/98			
Unadjusted Aliphatics C5-C8	ND	16 P	mg/Kg
Unadjusted Aliphatics C9-C12	ND	16 P	mg/Kg
Unadjusted Aromatics C9-C10	ND	16 P	mg/Kg
Surrogate	**% Recovery**		
4-Bromofluorobenzene	100		
Method MA VPH			
Analyzed by: TD			
Date: 11/26/98			
Total Solids	77.7	0.1	wt %
EPA CLP Inorganic SOW-ILM03			
Analyzed by: WJB			
Date: 11/30/98 14:00:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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Certificate of Analysis No. L1-9811B33-01

UNOCAL CORPORATION
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ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 49728, COC#15314
DATE: 12/07/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-6 19-22'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/23/98 15:30:00
DATE RECEIVED: 11/24/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: ADS Date: 11/24/98 10:00:00	11/24/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: ADS Date: 11/24/98 10:00:00	11/24/98		-
Soil Extraction for MA VPH MA VPH Analyzed by: TD Date: 11/24/98 16:30:00	11/24/98	date complete	

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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Certificate of Analysis No. L1-9811B33-01

UNOCAL CORPORATION
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ATTN: PAUL LINQUIST

P.O.# 49728, COC#15314
12/07/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-6 19-22'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/23/98 15:30:00
DATE RECEIVED: 11/24/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Benzene	ND	6	ug/Kg
Bromodichloromethane	ND	6	ug/Kg
Bromoform	ND	6	ug/Kg
Bromomethane	ND	6	ug/Kg
Carbon tetrachloride	ND	6	ug/Kg
Chlorobenzene	ND	6	ug/Kg
Chlorodibromomethane	ND	6	ug/Kg
Chloroethane	ND	6	ug/Kg
Chloroform	ND	6	ug/Kg
Chloromethane	ND	6	ug/Kg
1,1-Dichloroethane	ND	6	ug/Kg
1,2-Dichloroethane	ND	6	ug/Kg
1,1-Dichloroethene	ND	6	ug/Kg
cis-1,2-Dichloroethene	ND	6	ug/Kg
trans-1,2-Dichloroethene	ND	6	ug/Kg
1,2-Dichloropropane	ND	6	ug/Kg
Ethylbenzene	ND	6	ug/Kg
Methylene chloride	ND	6	ug/Kg
Styrene	ND	6	ug/Kg
1,1,2,2-Tetrachloroethane	ND	6	ug/Kg
Tetrachloroethene	ND	6	ug/Kg
Toluene	ND	6	ug/Kg
1,1,1-Trichloroethane	ND	6	ug/Kg
1,1,2-Trichloroethane	ND	6	ug/Kg
Trichloroethene	ND	6	ug/Kg
Trichlorofluoromethane	ND	6	ug/Kg
Vinyl chloride	ND	6	ug/Kg
Xylenes (total)	ND	6	ug/Kg
Acetone	ND	130	ug/Kg
1,2-Dichloroethene (total)	ND	6	ug/Kg
Carbon Disulfide	ND	6	ug/Kg
Vinyl Acetate	ND	6	ug/Kg
2-Butanone	ND	13	ug/Kg
4-Methyl-2-Pentanone	ND	6	ug/Kg
cis-1,3-Dichloropropene	ND	6	ug/Kg
trans-1,3-Dichloropropene	ND	6	ug/Kg
2-Hexanone	ND	6	ug/Kg
m,p-Xylene(s)	ND	6	ug/Kg

METHOD: 8260 Soil, Volatile Organics

(continued on next page)

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Certificate of Analysis No. L1-9811B33-01

UNOCAL CORPORATION **SAMPLE ID:** GP-6 19-22'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
o-Xylene	ND	6	ug/Kg
Isopropyl ether	ND	6	ug/Kg
Methyl tert-butyl ether	ND	6	ug/Kg

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	64 ug/Kg	99.8	80	120
Toluene-d8	64 ug/Kg	102	81	117
4-Bromofluorobenzene	64 ug/Kg	94	74	121

ANALYZED BY: YTS DATE/TIME: 12/04/98 18:07:00
METHOD: 8260 Soil, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS: Method 8260 Associated Blank: X338B01 File ID: X338S21

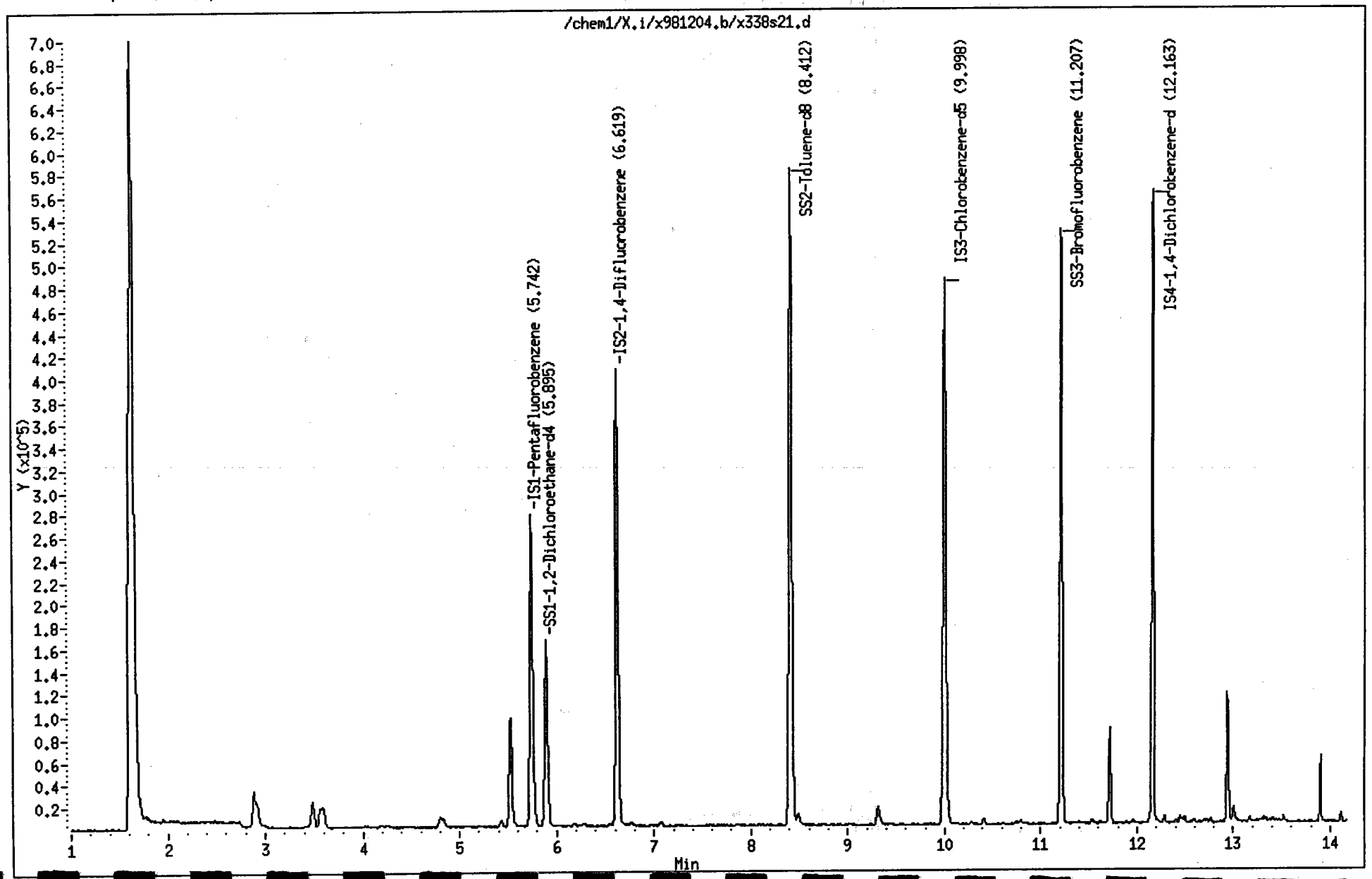
QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/X.i/x981204.b/x338s21.d
Date : 04-DEC-98 18:07
Client ID:
Sample Info: 9811B33-01A-8260S/1X;1

Instrument: X.i

Operator: YTS
Column diameter: 0.25

Column phase: 30m,hp5ms,1.0u df



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Certificate of Analysis No. L1-9811B33-01

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 49728, COC#15314
12/07/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-6 19-22'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/23/98 15:30:00
DATE RECEIVED: 11/24/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	430	ug/Kg
Acenaphthylene	ND	430	ug/Kg
Aniline	ND	430	ug/Kg
Anthracene	ND	430	ug/Kg
Benzo(a)Anthracene	ND	430	ug/Kg
Benzo(b)Fluoranthene	ND	430	ug/Kg
Benzo(k)Fluoranthene	ND	430	ug/Kg
Benzo(a)Pyrene	ND	430	ug/Kg
Benzoic Acid	ND	2100	ug/Kg
Benzo(g,h,i)Perylene	ND	430	ug/Kg
Benzyl alcohol	ND	430	ug/Kg
4-Bromophenylphenyl ether	ND	430	ug/Kg
Butylbenzylphthalate	ND	430	ug/Kg
di-n-Butyl phthalate	ND	430	ug/Kg
Carbazole	ND	430	ug/Kg
4-Chloroaniline	ND	430	ug/Kg
bis(2-Chloroethoxy)Methane	ND	430	ug/Kg
bis(2-Chloroethyl)Ether	ND	430	ug/Kg
bis(2-Chloroisopropyl)Ether	ND	430	ug/Kg
4-Chloro-3-Methylphenol	ND	430	ug/Kg
2-Chloronaphthalene	ND	430	ug/Kg
2-Chlorophenol	ND	430	ug/Kg
4-Chlorophenylphenyl ether	ND	430	ug/Kg
Chrysene	ND	430	ug/Kg
Dibenz(a,h)Anthracene	ND	430	ug/Kg
Dibenzofuran	ND	430	ug/Kg
1,2-Dichlorobenzene	ND	430	ug/Kg
1,3-Dichlorobenzene	ND	430	ug/Kg
1,4-Dichlorobenzene	ND	430	ug/Kg
3,3'-Dichlorobenzidine	ND	430	ug/Kg
2,4-Dichlorophenol	ND	430	ug/Kg
Diethylphthalate	ND	430	ug/Kg
2,4-Dimethylphenol	ND	430	ug/Kg
Dimethyl Phthalate	ND	430	ug/Kg
4,6-Dinitro-2-Methylphenol	ND	850	ug/Kg
2,4-Dinitrophenol	ND	850	ug/Kg
2,4-Dinitrotoluene	ND	430	ug/Kg
2,6-Dinitrotoluene	ND	430	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

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Certificate of Analysis No. L1-9811B33-01

UNOCAL CORPORATION

SAMPLE ID: GP-6 19-22'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
1,2-Diphenylhydrazine	ND	430	ug/Kg
bis(2-Ethylhexyl)Phthalate	ND	430	ug/Kg
Fluoranthene	ND	430	ug/Kg
Fluorene	ND	430	ug/Kg
Hexachlorobenzene	ND	430	ug/Kg
Hexachlorobutadiene	ND	430	ug/Kg
Hexachloroethane	ND	430	ug/Kg
Hexachlorocyclopentadiene	ND	430	ug/Kg
Indeno(1,2,3-cd)Pyrene	ND	430	ug/Kg
Isophorone	ND	430	ug/Kg
2-Methylnaphthalene	ND	430	ug/Kg
2-Methylphenol	ND	430	ug/Kg
Naphthalene	ND	430	ug/Kg
2-Nitroaniline	ND	1100	ug/Kg
3-Nitroaniline	ND	1100	ug/Kg
4-Nitroaniline	ND	1100	ug/Kg
Nitrobenzene	ND	430	ug/Kg
2-Nitrophenol	ND	430	ug/Kg
4-Nitrophenol	ND	850	ug/Kg
N-Nitrosodiphenylamine	ND	430	ug/Kg
N-Nitroso-Di-n-Propylamine	ND	430	ug/Kg
Di-n-Octyl Phthalate	ND	860	ug/Kg
Pentachlorophenol	ND	850	ug/Kg
Phenanthrene	ND	430	ug/Kg
Phenol	ND	430	ug/Kg
Pyrene	ND	430	ug/Kg
1,2,4-Trichlorobenzene	ND	430	ug/Kg
2,4,5-Trichlorophenol	ND	1100	ug/Kg
2,4,6-Trichlorophenol	ND	430	ug/Kg
m,p-Cresols	ND	430	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

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PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B33-01

UNOCAL CORPORATION

SAMPLE ID: GP-6 19-22'

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
Nitrobenzene-d5	2100 ug/Kg	53	23	120
2-Fluorobiphenyl	2100 ug/Kg	55	30	115
Terphenyl-d14	2100 ug/Kg	61	18	137
Phenol-d5	3200 ug/Kg	56	24	113
2-Fluorophenol	3200 ug/Kg	52	25	121
2,4,6-Tribromophenol	3200 ug/Kg	62	19	122
2-Chlorophenol-d4	3200 ug/Kg	62	20	130
1,2-Dichlorobenzene-d4	2100 ug/Kg	54	20	130

ANALYZED BY: SEN DATE/TIME: 12/02/98 08:13:00
EXTRACTED BY: ADS DATE/TIME: 11/25/98 11:00:00
METHOD: 8270, Semivolatile Organics - Soil
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

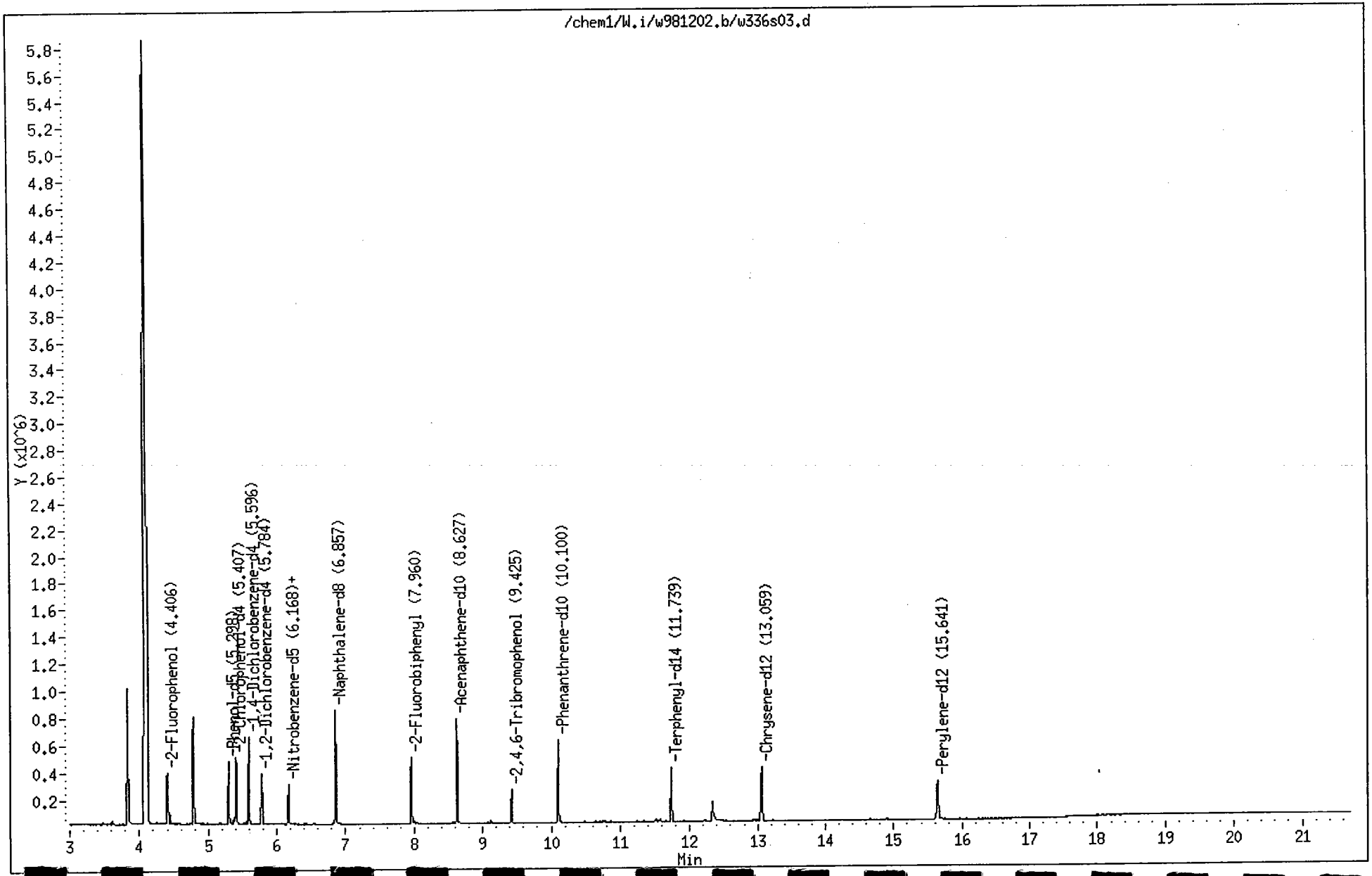
COMMENTS: Method 8270 Associated Blank: W336B01 File ID: W336S03

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/W.i/w981202.b/w336s03.d
Date : 02-DEC-98 08:13
Client ID:
Sample Info: 9811B33-01B-8270S/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: W.i

Operator: SEN
Column diameter: 0.25



LAFAYETTE LABORATORY
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Certificate of Analysis No. L1-9811B33-02

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 49728, COC#15314
DATE: 12/07/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-2 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/23/98 16:15:00
DATE RECEIVED: 11/24/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Unadjusted Aliphatics C9-C18	ND	24 P	mg/Kg
Unadjusted Aliphatics C19-C36	ND	25 P	mg/Kg
Surrogate	**% Recovery**		
Chloro-octa-decane	65		
Unadjusted Aromatics C11-C22	ND	62 P	mg/Kg
2-Bromonaphthalene	48		
o-Terphenyl	64		
2-Fluorobiphenyl	74		
Method MA EPH			
Analyzed by: OL			
Date: 12/01/98			
Unadjusted Aliphatics C5-C8	ND	16 P	mg/Kg
Unadjusted Aliphatics C9-C12	ND	16 P	mg/Kg
Unadjusted Aromatics C9-C10	ND	16 P	mg/Kg
Surrogate	**% Recovery**		
4-Bromofluorobenzene	100		
Method MA VPH			
Analyzed by: TD			
Date: 11/26/98			
Total Solids	80.2	0.1	wt %
EPA CLP Inorganic SOW-ILM03			
Analyzed by: WJB			
Date: 11/30/98 14:00:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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Certificate of Analysis No. L1-9811B33-02

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 49728, COC#15314
DATE: 12/07/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-2 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/23/98 16:15:00
DATE RECEIVED: 11/24/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: ADS Date: 11/24/98 10:00:00	11/24/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: ADS Date: 11/24/98 10:00:00	11/24/98		-
Soil Extraction for MA VPH MA VPH Analyzed by: TD Date: 11/24/98 16:30:00	11/24/98		date complete

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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Certificate of Analysis No. L1-9811B33-02

UNOCAL CORPORATION
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P.O.# 49728, COC#15314
12/11/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-2 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/23/98 16:15:00
DATE RECEIVED: 11/24/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Benzene	ND	31	ug/Kg
Bromodichloromethane	ND	31	ug/Kg
Bromoform	ND	31	ug/Kg
Bromomethane	ND	31	ug/Kg
Carbon tetrachloride	ND	31	ug/Kg
Chlorobenzene	ND	31	ug/Kg
Chlorodibromomethane	ND	31	ug/Kg
Chloroethane	ND	31	ug/Kg
Chloroform	ND	31	ug/Kg
Chloromethane	ND	31	ug/Kg
1,1-Dichloroethane	ND	31	ug/Kg
1,2-Dichloroethane	ND	31	ug/Kg
1,1-Dichloroethene	ND	31	ug/Kg
cis-1,2-Dichloroethene	ND	31	ug/Kg
trans-1,2-Dichloroethene	ND	31	ug/Kg
1,2-Dichloropropane	ND	31	ug/Kg
Ethylbenzene	ND	31	ug/Kg
Methylene chloride	ND	31	ug/Kg
Styrene	ND	31	ug/Kg
1,1,2,2-Tetrachloroethane	ND	31	ug/Kg
Tetrachloroethene	ND	31	ug/Kg
Toluene	ND	31	ug/Kg
1,1,1-Trichloroethane	ND	31	ug/Kg
1,1,2-Trichloroethane	ND	31	ug/Kg
Trichloroethene	ND	31	ug/Kg
Trichlorofluoromethane	ND	31	ug/Kg
Vinyl chloride	ND	31	ug/Kg
Xylenes (total)	ND	31	ug/Kg
Acetone	ND	620	ug/Kg
1,2-Dichloroethene (total)	ND	31	ug/Kg
Carbon Disulfide	ND	31	ug/Kg
Vinyl Acetate	ND	31	ug/Kg
2-Butanone	ND	62	ug/Kg
4-Methyl-2-Pentanone	ND	31	ug/Kg
cis-1,3-Dichloropropene	ND	31	ug/Kg
trans-1,3-Dichloropropene	ND	31	ug/Kg
2-Hexanone	ND	31	ug/Kg
m,p-Xylene(s)	ND	31	ug/Kg

METHOD: 8260 Soil, Volatile Organics
(continued on next page)

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FAX (318) 237-8005

Certificate of Analysis No. L1-9811B33-02

UNOCAL CORPORATION **SAMPLE ID:** GP-2 12-16'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
o-Xylene	ND	31	ug/Kg
Isopropyl ether	ND	31	ug/Kg
Methyl tert-butyl ether	ND	31	ug/Kg

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	310 ug/Kg	99	80	120
Toluene-d8	310 ug/Kg	100	81	117
4-Bromofluorobenzene	310 ug/Kg	94	74	121

ANALYZED BY: YTS DATE/TIME: 12/04/98 17:19:00
METHOD: 8260 Soil, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS: Method 8260 Associated Blank: X338B01 File ID: X338S22
Elevated detection limit due to heavy matrix.

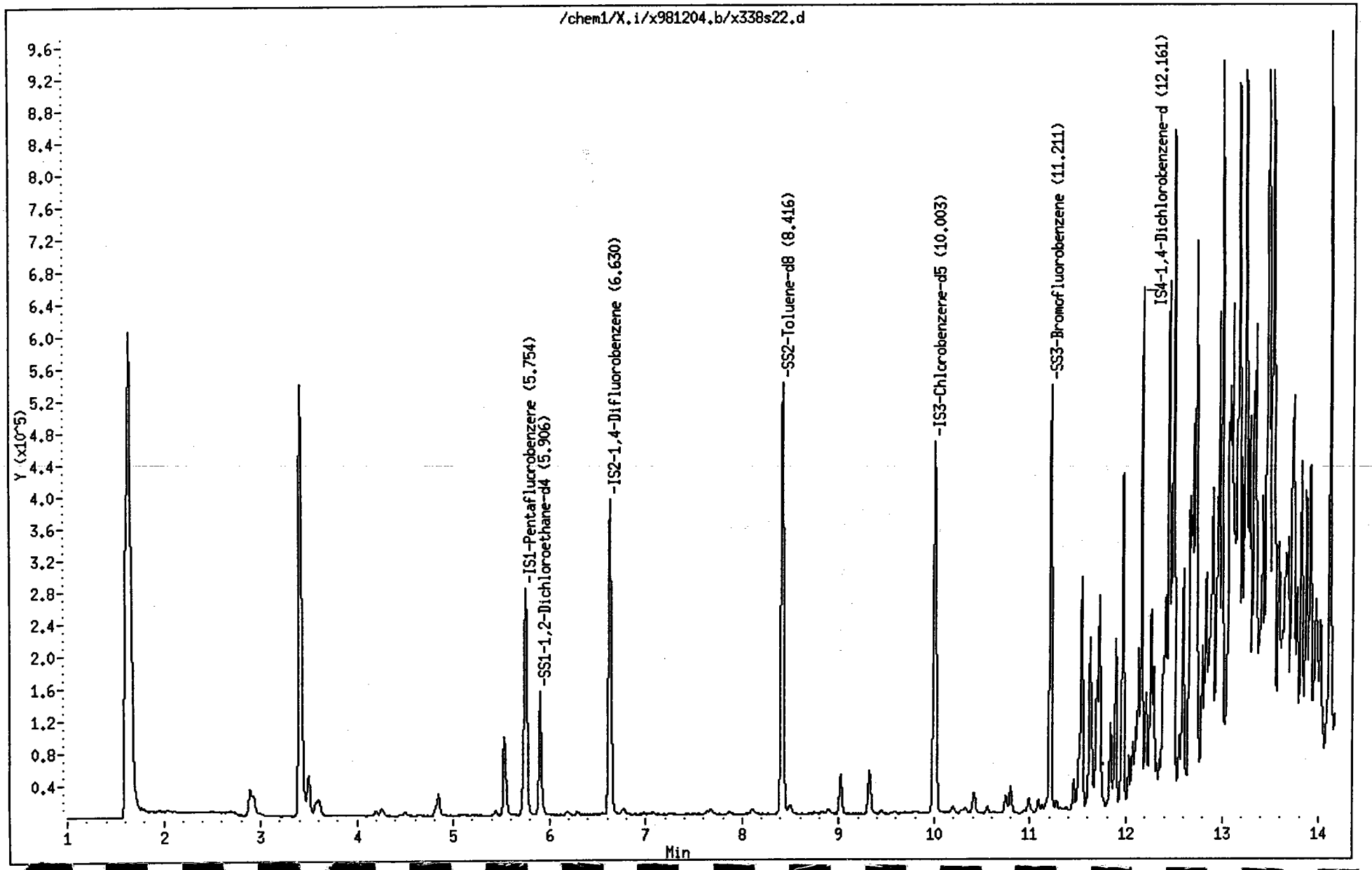
QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/X.i/x981204.b/x338s22.d
Date : 04-DEC-98 17:19
Client ID:
Sample Info: 9811B33-02A-8260S/5X;5

Column phase: 30m,hp5ms,1.0u df

Instrument: X.i

Operator: YTS
Column diameter: 0.25



LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B33-02

UNOCAL CORPORATION
PO BOX 4147
ATLANTA, GA 30302
ATTN: PAUL LINQUIST

P.O.# 49728, COC#15314
12/07/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: GP-2 12-16'

PROJECT NO: 335927785
MATRIX: SOIL
DATE SAMPLED: 11/23/98 16:15:00
DATE RECEIVED: 11/24/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	420	ug/Kg
Acenaphthylene	ND	420	ug/Kg
Aniline	ND	420	ug/Kg
Anthracene	ND	420	ug/Kg
Benzo(a)Anthracene	ND	420	ug/Kg
Benzo(b)Fluoranthene	ND	420	ug/Kg
Benzo(k)Fluoranthene	ND	420	ug/Kg
Benzo(a)Pyrene	ND	420	ug/Kg
Benzoic Acid	ND	2100	ug/Kg
Benzo(g,h,i)Perylene	ND	420	ug/Kg
Benzyl alcohol	ND	420	ug/Kg
4-Bromophenylphenyl ether	ND	420	ug/Kg
Butylbenzylphthalate	ND	420	ug/Kg
di-n-Butyl phthalate	ND	420	ug/Kg
Carbazole	ND	420	ug/Kg
4-Chloroaniline	ND	420	ug/Kg
bis(2-Chloroethoxy)Methane	ND	420	ug/Kg
bis(2-Chloroethyl)Ether	ND	420	ug/Kg
bis(2-Chloroisopropyl)Ether	ND	420	ug/Kg
4-Chloro-3-Methylphenol	ND	420	ug/Kg
2-Chloronaphthalene	ND	420	ug/Kg
2-Chlorophenol	ND	420	ug/Kg
4-Chlorophenylphenyl ether	ND	420	ug/Kg
Chrysene	ND	420	ug/Kg
Dibenz(a,h)Anthracene	ND	420	ug/Kg
Dibenzofuran	ND	420	ug/Kg
1,2-Dichlorobenzene	ND	420	ug/Kg
1,3-Dichlorobenzene	ND	420	ug/Kg
1,4-Dichlorobenzene	ND	420	ug/Kg
3,3'-Dichlorobenzidine	ND	420	ug/Kg
2,4-Dichlorophenol	ND	420	ug/Kg
Diethylphthalate	ND	420	ug/Kg
2,4-Dimethylphenol	ND	420	ug/Kg
Dimethyl Phthalate	ND	420	ug/Kg
4,6-Dinitro-2-Methylphenol	ND	420	ug/Kg
2,4-Dinitrophenol	ND	820	ug/Kg
2,4-Dinitrotoluene	ND	820	ug/Kg
2,6-Dinitrotoluene	560	420	ug/Kg
	ND	420	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

LAFAYETTE LABORATORY
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Certificate of Analysis No. L1-9811B33-02

UNOCAL CORPORATION

SAMPLE ID: GP-2 12-16'

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
1,2-Diphenylhydrazine	ND	420	ug/Kg
bis(2-Ethylhexyl)Phthalate	ND	420	ug/Kg
Fluoranthene	ND	420	ug/Kg
Fluorene	ND	420	ug/Kg
Hexachlorobenzene	ND	420	ug/Kg
Hexachlorobutadiene	ND	420	ug/Kg
Hexachloroethane	ND	420	ug/Kg
Hexachlorocyclopentadiene	ND	420	ug/Kg
Indeno(1,2,3-cd)Pyrene	ND	420	ug/Kg
Isophorone	ND	420	ug/Kg
2-Methylnaphthalene	ND	420	ug/Kg
2-Methylphenol	ND	420	ug/Kg
Naphthalene	ND	420	ug/Kg
2-Nitroaniline	ND	1000	ug/Kg
3-Nitroaniline	ND	1000	ug/Kg
4-Nitroaniline	ND	1000	ug/Kg
Nitrobenzene	ND	420	ug/Kg
2-Nitrophenol	ND	420	ug/Kg
4-Nitrophenol	ND	820	ug/Kg
N-Nitrosodiphenylamine	ND	420	ug/Kg
N-Nitroso-Di-n-Propylamine	ND	420	ug/Kg
Di-n-Octyl Phthalate	ND	830	ug/Kg
Pentachlorophenol	ND	820	ug/Kg
Phenanthrene	ND	420	ug/Kg
Phenol	ND	420	ug/Kg
Pyrene	ND	420	ug/Kg
1,2,4-Trichlorobenzene	ND	420	ug/Kg
2,4,5-Trichlorophenol	ND	1000	ug/Kg
2,4,6-Trichlorophenol	ND	420	ug/Kg
m,p-Cresols	ND	420	ug/Kg

METHOD: 8270, Semivolatile Organics - Soil

(continued on next page)

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811B33-02

UNOCAL CORPORATION **SAMPLE ID:** GP-2 12-16'

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
Nitrobenzene-d5	2100 ug/Kg	49	23	120
2-Fluorobiphenyl	2100 ug/Kg	52	30	115
Terphenyl-d14	2100 ug/Kg	57	18	137
Phenol-d5	3100 ug/Kg	50	24	113
2-Fluorophenol	3100 ug/Kg	47	25	121
2,4,6-Tribromophenol	3100 ug/Kg	60	19	122
2-Chlorophenol-d4	3100 ug/Kg	53	20	130
1,2-Dichlorobenzene-d4	2100 ug/Kg	50	20	130

ANALYZED BY: SEN DATE/TIME: 12/02/98 08:44:00
EXTRACTED BY: ADS DATE/TIME: 11/25/98 11:00:00
METHOD: 8270, Semivolatile Organics - Soil
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

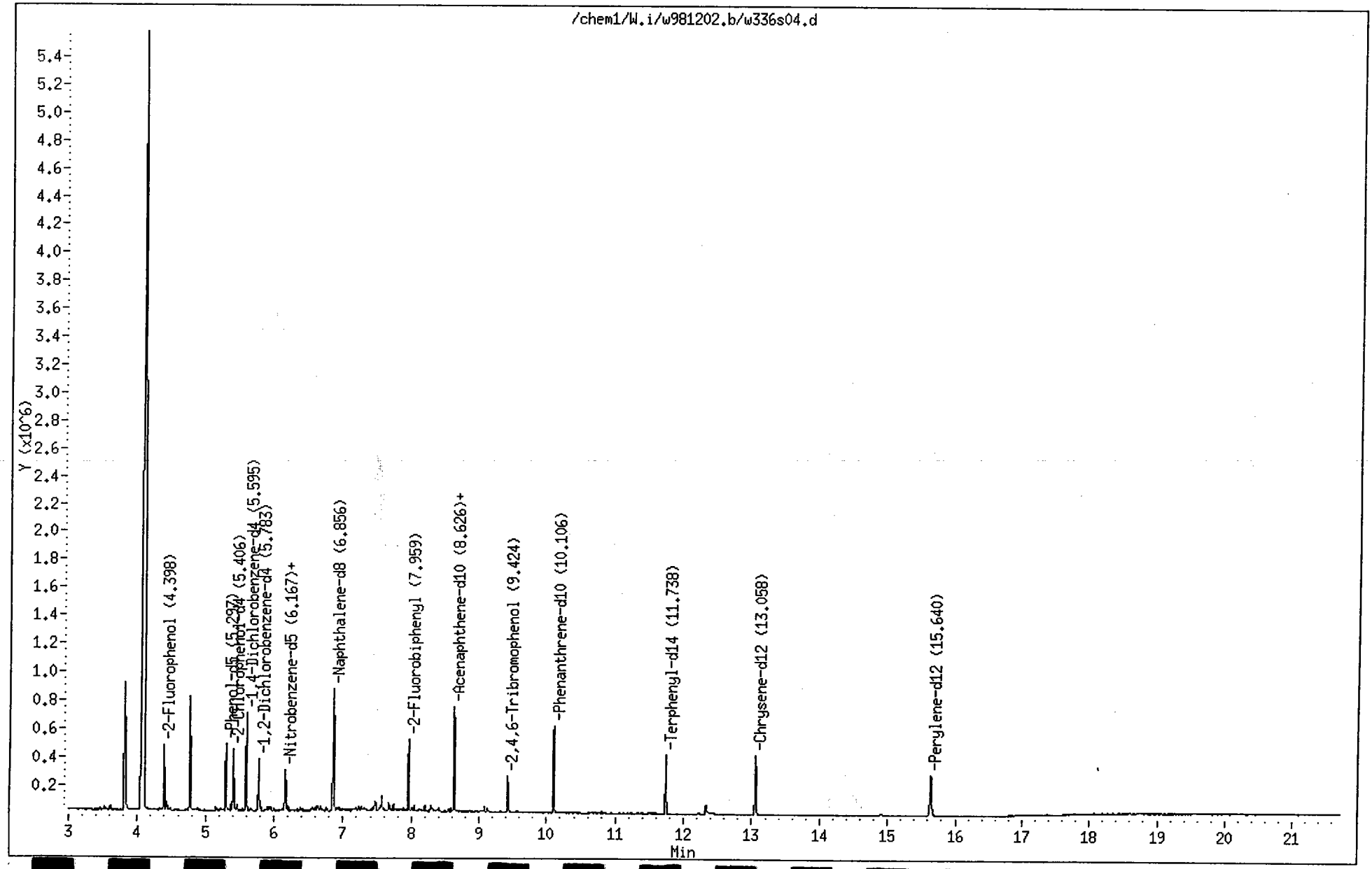
COMMENTS: Method 8270 Associated Blank: W336B01 File ID: W336S04

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem1/W.i/w981202.b/w336s04.d
Date : 02-DEC-98 08:44
Client ID:
Sample Info: 9811B33-02B-8270S/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: W.i

Operator: SEN
Column diameter: 0.25



** SPL BATCH QUALITY CONTROL REPORT **

Method 8270

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Soil

Units: ug/Kg

Batch Id: E981124044715

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Phenol	ND	2500	1600	64.0	5 - 112
2-Chlorophenol	ND	2500	1700	68.0	27 - 123
1,4-Dichlorobenzene	ND	1700	1100	64.7	20 - 124
N-Nitroso-di-n-propylamine	ND	1700	1100	64.7	5 - 230
1,2,4-Trichlorobenzene	ND	1700	1200	70.6	44 - 142
4-Chloro-3-methylphenol	ND	2500	1700	68.0	22 - 147
Acenaphthene	ND	1700	1200	70.6	47 - 145
4-Nitrophenol	ND	2500	1700	68.0	10 - 132
2,4-Dinitrotoluene	ND	1700	1200	70.6	39 - 139
Pentachlorophenol	ND	2500	1700	68.0	14 - 176
Pyrene	ND	1700	1100	64.7	52 - 115

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
PHENOL	ND	2500	1400	55	1400	55	0	42	5 - 112
2-CHLOROPHENOL	ND	2500	1500	60	1500	59	2	40	27 - 123
1,4-DICHLOROBENZENE	ND	1700	860	52	890	53	2	28	20 - 124
N-NITROSO-DI-N-PROPYLAMINE	ND	1700	960	57	960	58	2	38	5 - 230
1,2,4-TRICHLOROBENZENE	ND	1700	970	58	990	59	2	28	44 - 142
4-CHLORO-3-METHYLPHENOL	ND	2500	1500	59	1500	58	2	42	22 - 147
ACENAPHTHENE	ND	1700	990	60	1000	61	2	31	47 - 145
4-NITROPHENOL	ND	2500	1400	58	1500	59	2	50	10 - 132
2,4-DINITROTOLUENE	ND	1700	910	54	1000	60	11	38	39 - 139
PENTACHLOROPHENOL	ND	2500	1400	57	1400	57	0	50	14 - 176
PYRENE	ND	1700	900	54	950	57	5	31	52 - 115

** SPL BATCH QUALITY CONTROL REPORT **

Method 8270

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Soil

Units: ug/Kg

Batch Id: E981124044715

Analyst: SEN

Sequence Date: 12/02/98

SPL ID of sample spiked: 9811A52-01A

Sample File ID: W336S01.D

Method Blank File ID: W336B01

Blank Spike File ID: W336TL1.D

Matrix Spike File ID: W336K01.D

Matrix Spike Duplicate File ID: W336KD1.D

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: CLP SOW 1/91

(***) = Source: CLP SOW 1/91

SAMPLES IN BATCH(SPL ID): 9811B04-01A 9811B33-01B 9811B33-02B

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: E981124044715

Reported on: 12/07/98 14:24
Analyzed on: 12/02/98 04:57
Analyst: SEN

Method 8270 - W336B01

Compound	Result	Detection Limit	Units
Phenol	ND	330	ug/Kg
Aniline	ND	330	ug/Kg
bis(2-Chloroethyl)ether	ND	330	ug/Kg
2-Chlorophenol	ND	330	ug/Kg
1,3-Dichlorobenzene	ND	330	ug/Kg
1,4-Dichlorobenzene	ND	330	ug/Kg
Benzyl alcohol	ND	330	ug/Kg
1,2-Dichlorobenzene	ND	330	ug/Kg
2-Methylphenol	ND	330	ug/Kg
bis(2-chloroisopropyl)ethe	ND	330	ug/Kg
N-Nitroso-di-n-propylamine	ND	330	ug/Kg
Hexachloroethane	ND	330	ug/Kg
Nitrobenzene	ND	330	ug/Kg
Isophorone	ND	330	ug/Kg
2-Nitrophenol	ND	330	ug/Kg
2,4-Dimethylphenol	ND	330	ug/Kg
bis(2-Chloroethoxy)methane	ND	330	ug/Kg
Benzoic acid	ND	1700	ug/Kg
2,4-Dichlorophenol	ND	330	ug/Kg
1,2,4-Trichlorobenzene	ND	330	ug/Kg
Naphthalene	ND	330	ug/Kg
4-Chloroaniline	ND	330	ug/Kg
Hexachlorobutadiene	ND	330	ug/Kg
4-Chloro-3-methylphenol	ND	330	ug/Kg
2-Methylnaphthalene	ND	330	ug/Kg
Hexachlorocyclopentadiene	ND	330	ug/Kg
2,4,6-Trichlorophenol	ND	330	ug/Kg
2,4,5-Trichlorophenol	ND	830	ug/Kg
2-Chloronaphthalene	ND	330	ug/Kg
2-Nitroaniline	ND	830	ug/Kg
Dimethylphthalate	ND	330	ug/Kg
Acenaphthylene	ND	330	ug/Kg
2,6-Dinitrotoluene	ND	330	ug/Kg
3-Nitroaniline	ND	830	ug/Kg

Notes

ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: E981124044715

Reported on: 12/07/98 14:24
Analyzed on: 12/02/98 04:57
Analyst: SEN

Method 8270 - W336B01

Compound	Result	Detection Limit	Units
Acenaphthene	ND	330	ug/Kg
2,4-Dinitrophenol	ND	660	ug/Kg
4-Nitrophenol	ND	660	ug/Kg
Dibenzofuran	ND	330	ug/Kg
2,4-Dinitrotoluene	ND	330	ug/Kg
Diethylphthalate	ND	330	ug/Kg
Fluorene	ND	330	ug/Kg
4-Chlorophenyl phenyl ethe	ND	330	ug/Kg
4-Nitroaniline	ND	830	ug/Kg
4,6-Dinitro-2-methylphenol	ND	660	ug/Kg
N-Nitrosodiphenylamine	ND	330	ug/Kg
1,2-Diphenylhydrazine	ND	330	ug/Kg
4-Bromophenyl phenyl ether	ND	330	ug/Kg
Hexachlorobenzene	ND	330	ug/Kg
Pentachlorophenol	ND	660	ug/Kg
Phenanthrene	ND	330	ug/Kg
Anthracene	ND	330	ug/Kg
Carbazole	ND	330	ug/Kg
Di-n-butylphthalate	ND	330	ug/Kg
Fluoranthene	ND	330	ug/Kg
Pyrene	ND	330	ug/Kg
Butyl benzyl phthalate	ND	330	ug/Kg
Benzo[a]anthracene	ND	330	ug/Kg
3,3'-Dichlorobenzidine	ND	330	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	330	ug/Kg
Di-n-octylphthalate	ND	670	ug/Kg
Benzo[b]fluoranthene	ND	330	ug/Kg
Benzo[k]fluoranthene	ND	330	ug/Kg
Benzo[a]pyrene	ND	330	ug/Kg
Indeno[1,2,3-cd]pyrene	ND	330	ug/Kg
Dibenz[a,h]anthracene	ND	330	ug/Kg
Benzo[g,h,i]perylene	ND	330	ug/Kg
m,p-Cresols	ND	330	ug/Kg
Chrysene	ND	330	ug/Kg

Notes
ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
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FAX (318) 237-8005

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: E981124044715

Reported on: 12/07/98 14:24
Analyzed on: 12/02/98 04:57
Analyst: SEN

Method 8270 - W336B01

Surrogate	Result	QC Criteria	Units

Surrogate	Result	QC Criteria	Units
2-Fluorophenol	64	25-121	% Recovery
Phenol-d5	67	24-113	% Recovery
2-Chlorophenol-d4	70	20-130	% Recovery
1,2-Dichlorobenzene-d4	68	20-130	% Recovery
Nitrobenzene-d5	67	23-120	% Recovery
2-Fluorobiphenyl	70	30-115	% Recovery
2,4,6-Tribromophenol	65	19-122	% Recovery
Terphenyl-d14	68	18-137	% Recovery

Samples in Batch 9811B33-01 9811B33-02

Notes

ND - Not detected.

** SPL BATCH QUALITY CONTROL REPORT **

Method 8260

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Soil

Units: ug/Kg

Batch Id: X981204204301

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
1,1-Dichloroethene	ND	50	43	86.0	60 - 140
Benzene	ND	50	44	88.0	70 - 140
Trichloroethene	ND	50	42	84.0	65 - 149
Toluene	ND	50	44	88.0	60 - 130
Chlorobenzene	ND	50	43	86.0	60 - 130

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	Recovery Range
1,1-DICHLOROETHENE	ND	6200	5000	81	5000	80	1	40	60 - 140
BENZENE	ND	6200	5300	84	5300	84	0	40	70 - 140
TRICHLOROETHENE	ND	6200	4900	78	4900	79	1	40	65 - 149
TOLUENE	ND	6200	5400	87	5500	89	2	40	60 - 130
CHLOROBENZENE	ND	6200	5400	87	5500	89	2	40	60 - 130

Analyst: YTS

Sequence Date: 12/04/98

SPL ID of sample spiked: 9811B33-02A

Sample File ID: X338S02.D

Method Blank File ID: X338B01

Blank Spike File ID: X338TL3.D

Matrix Spike File ID: X338K01.D

Matrix Spike Duplicate File ID: X338KD1.D

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: SPL - Lafayette

(***) = Source: CLP SOW 1/94

SAMPLES IN BATCH(SPL ID): 9811B71-01A 9811B33-02A 9811B33-01A 9811B71-04A 9811B71-02A

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
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FAX (318) 237-8905

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: X981204204301

Reported on: 12/07/98 14:24
Analyzed on: 12/04/98 14:16
Analyst: YTS

Method 8260 - X338B01

Compound	Result	Detection Limit	Units
Chloromethane	ND	5	ug/Kg
Vinyl Chloride	ND	5	ug/Kg
Bromomethane	ND	5	ug/Kg
Chloroethane	ND	5	ug/Kg
Trichlorofluoromethane	ND	5	ug/Kg
Acetone	ND	100	ug/Kg
1,1-Dichloroethene	ND	5	ug/Kg
Methylene Chloride	ND	5	ug/Kg
1,2-Dichloroethene (total)	ND	5	ug/Kg
Carbon Disulfide	ND	5	ug/Kg
trans-1,2-Dichloroethene	ND	5	ug/Kg
1,1-Dichloroethane	ND	5	ug/Kg
Vinyl Acetate	ND	5	ug/Kg
2-Butanone	ND	10	ug/Kg
cis-1,2-Dichloroethene	ND	5	ug/Kg
Chloroform	ND	5	ug/Kg
1,1,1-Trichloroethane	ND	5	ug/Kg
1,2-Dichloroethane	ND	5	ug/Kg
Benzene	ND	5	ug/Kg
Carbon Tetrachloride	ND	5	ug/Kg
1,2-Dichloropropane	ND	5	ug/Kg
Trichloroethene	ND	5	ug/Kg
Bromodichloromethane	ND	5	ug/Kg
4-Methyl-2-Pentanone	ND	5	ug/Kg
cis-1,3-Dichloropropene	ND	5	ug/Kg
trans-1,3-Dichloropropene	ND	5	ug/Kg
Toluene	ND	5	ug/Kg
1,1,2-Trichloroethane	ND	5	ug/Kg
2-Hexanone	ND	5	ug/Kg
Dibromochloromethane	ND	5	ug/Kg
Tetrachloroethene	ND	5	ug/Kg
Chlorobenzene	ND	5	ug/Kg
Xylene (Total)	ND	5	ug/Kg
Ethylbenzene	ND	5	ug/Kg

Notes
ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Blank QC Report

Matrix: Soil
Sample ID: BLANK
Batch: X981204204301

Reported on: 12/07/98 14:24
Analyzed on: 12/04/98 14:16
Analyst: YTS

Method 8260 - X338B01

Compound	Result	Detection Limit	Units
m,p-Xylene(s)	ND	5	ug/Kg
Bromoform	ND	5	ug/Kg
Styrene	ND	5	ug/Kg
o-Xylene	ND	5	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5	ug/Kg
Methyl tert-butyl ether	ND	5	ug/Kg

Surrogate	Result	QC Criteria	Units
SS1-1,2-Dichloroethane-d4	89	80-120	% Recovery
SS2-Toluene-d8	102	81-117	% Recovery
SS3-Bromofluorobenzene	93	74-121	% Recovery

Samples in Batch 9811B33-01 9811B33-02

Notes

ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 12/01/98
Analyzed on: 11/30/98
Analyst: WJB

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Total Solids
EPA CLP Inorganic SOW-ILM03

-- DUPLICATE ANALYSIS --

SPL Sample ID	Original Sample Concentration wt.%	Duplicate Sample wt.%	RPD	RPD Max.
9811B71-04B	64.9	66.0	1.7	20

TSOL981130140000-9812011

Samples in batch:

9811B33-01B	9811B33-02B	9811B71-01B	9811B71-02B
9811B71-03B	9811B71-04B	9811B73-01C	9811C10-01B
9811C10-02B	9811C10-03B	9811C71-01A	9811C72-01A
9811D71-01B	9811D71-02B	9811D71-03B	

COMMENTS:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form Continued

Client Name: Unocal Corporation

Laboratory Name: Southern Petroleum

Project Name: #9787214,1342 Trollingwood Rd.

NC Certification # (Lab): 487

Site Location: Mebane, NC

INCLUDE APPROPRIATE UNITS

Sample Information and Analytical Results							
Lab ID	9811B33-01D	9811B33-02D					
Sample Identification	GP-6 19-22'	GP-2 12-16'					
Sample Matrix	SOIL	SOIL					
Date Collected	11/23/98	11/23/98					
Date Received	11/24/98	11/24/98					
Date Extracted	11/24/98	11/24/98					
Date Analyzed	11/26/98	11/26/98					
Dry Weight	.777	.802					
Dilution Factor	50	50					
C5 - C8 Aliphatics*	ND	ND					
C9 - C12 Aliphatics*	ND	ND					
C9 - C10 Aromatics*	ND	ND					
Surrogate % Recovery - PID	100	100					
Surrogate % Recovery - FID	97	100					

Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. Encore) Option 3 = Field weight of soil

*Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

	C5 - C8 Aliphatic	C9 - C12 Aliphatic	C9 - C10 Aromatic
Percent Recovery - Matrix (Spike) - PID	NA	NA	93
Relative Percent Difference - PID Duplicate	NA	NA	7.3
Percent Recovery - Matrix (Spike) - FID	73	55	NA
Relative Percent Difference - FID Duplicate	6.6	16	NA
Percent Recovery - Fortified Blank (Spike) - PID	NA	NA	98
Percent Recovery - Fortified Blank (Spike) - FID	102	98	NA

NC = Not calculated (Sample exceeds spike by factor of 4 or more)

revision 5/6/98

VPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date 11/25/98

Calibration Ranges and Limits

Range	MDL	ML	RL
C5 - C8 Aliphatics	0.08	0.25	0.25
C9 - C12 Aliphatics	0.08	0.25	0.25
C9 - C10 Aromatics	0.08	0.25	0.25

NOTE: Please include units as appropriate

Method of Quantitation (check one): Curve or Average Response Factor

Calibration Concentration Levels

Range	Levels mg/Kg	%RSD ☒ CCC ☐
C5 - C8 Aliphatics	0.04	6.9
	0.08	
	0.16	
	0.40	
	0.80	
	1.2	
	1.6	
	4.0	
C9 - C12 Aliphatics	0.01	16
	0.02	
	0.04	
	0.10	
	0.20	
	0.30	
	0.40	
	1.0	
C9 - C10 Aromatics	0.01	14
	0.02	
	0.04	
	0.10	
	0.20	
	0.30	
	0.40	
	1.0	

NOTE: Please include units as appropriate

Calibration Check Date 11/30/98

Calibration Check

Range	Level mg/Kg	RPD
C5 - C8 Aliphatics	2.0	1.1
C9 - C12 Aliphatics	0.5	5.8
C9 - C10 Aromatics	0.5	3.6

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

revision 5/6/98

EPH (Aliphatics/Aromatics) Laboratory Reporting Form Continued

Client Name: Unocal

Project Name: #9787214, 1342 Trollingwood Rd.

Site Location: Mebane, NC

Laboratory Name: Southern Petroleum Labs

NC Certification # (Lab): 487

INCLUDE APPROPRIATE UNITS

Sample Information and Analytical Results							
Lab ID	9811B33-01C	9811B33-02C					
Sample Identification	GP-6	GP-2					
Sample Matrix	Soil	Soil					
Date Collected	11/23/98	11/23/98					
Date Received	11/24/98	11/24/98					
Date Extracted	11/24/98	11/24/98					
Dry Weight	77.7	80.2					
Dilution Factor - Aliphatics	1	1					
Date Analyzed - Aliphatics	12/2/98	12/2/98					
Dilution Factor - Aromatics	1	1					
Date Analyzed - Aromatics	12/1/98	12/1/98					
C9 - C18 Aliphatics*	ND	ND					
C19 - C36 Aliphatics*	ND	ND					
C11 - C22 Aromatics*	ND	ND					
COD Surrogate % Recovery	63	65					
O-T Surrogate % Recovery	58	64					
Fractionation Surrogate % Recovery 2-Bromonaphthalene	57	48					
Fractionation Surrogate % Recovery 2-Fluorobiphenyl	72	74					

*Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

	C9 - C18 Aliphatic	C19 - C36 Aliphatic	C11 - C22 Aromatic
Percent Recovery - Fortified Blank (Spike)	78	71	90
Relative Percent Difference - Sample Duplicates	NA	NA	NA

revision 5/6/98

Blank Correction for SPE Cartridges: Yes ☒ No ☐

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date 5/5/98

Calibration Ranges and Limits

Range	MDL	ML	RL
C9 - C18 Aliphatics	7.40mg/Kg	23.5mg/Kg	24mg/Kg
C19 - C36 Aliphatics	7.86mg/Kg	25.0mg/Kg	25mg/Kg
C11 - C22 Aromatics	19.63mg/Kg	62.4mg/Kg	62mg/Kg

NOTE: Please include units as appropriate

Method of Quantitation (check one): Curve or Average Response Factor

Calibration Concentration Levels

Range	Levels ppm	%RSD ☒ CCC ☒
C9 - C18 Aliphatics	30	6.1
	60	
	120	
	300	
	600	
	1200	
C19 - C36 Aliphatics	40	3.7
	80	
	160	
	400	
	800	
	1600	
C11 - C22 Aromatics	170	2.6
	850	
	1700	
	2550	
	3400	

NOTE: Please include units as appropriate

Calibration Check Date 12/1/98

Calibration Check

Range	Level ppm	RPD
C9 - C18 Aliphatics	600	21
C19 - C36 Aliphatics	800	17
C11 - C22 Aromatics	1700	16

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

revision 5/6/98

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FAX (318) 237-8005

SURROGATE RECOVERY SUMMARY

12/07/98 14:27:08

Method 8270C *** BATCH#:E981124044715
WORK ORDER: 9811B33-01B CLIENT SAMPLE ID:GP-6 19-22'

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
Nitrobenzene-d5	2100	1100	53	23- 120
2-Fluorobiphenyl	2100	1200	55	30- 115
Terphenyl-d14	2100	1300	61	18- 137
Phenol-d5	3200	1800	56	24- 113
2-Fluorophenol	3200	1700	52	25- 121
2,4,6-Tribromophenol	3200	2000	62	19- 122
2-Chlorophenol-d4	3200	2000	62	20- 130
1,2-Dichlorobenzene-d4	2100	1200	54	20- 130

Method 8270C *** BATCH#:E981124044715
WORK ORDER: 9811B33-02B CLIENT SAMPLE ID:GP-2 12-16'

Nitrobenzene-d5	2100	1000	49	23- 120
2-Fluorobiphenyl	2100	1100	52	30- 115
Terphenyl-d14	2100	1200	57	18- 137
Phenol-d5	3100	1600	50	24- 113
2-Fluorophenol	3100	1500	47	25- 121
2,4,6-Tribromophenol	3100	1900	60	19- 122
2-Chlorophenol-d4	3100	1600	53	20- 130
1,2-Dichlorobenzene-d4	2100	1000	50	20- 130

Method 8270C *** BATCH#:E981124044715
WORK ORDER: Method Blank CLIENT SAMPLE ID:

2-Fluorophenol	2500	1600	64	25- 121
Phenol-d5	2500	1700	67	24- 113
2-Chlorophenol-d4	2500	1800	70	20- 130
1,2-Dichlorobenzene-d4	1700	1100	68	20- 130
Nitrobenzene-d5	1700	1100	67	23- 120
2-Fluorobiphenyl	1700	1200	70	30- 115
2,4,6-Tribromophenol	2500	1600	65	19- 122
Terphenyl-d14	1700	1100	68	18- 137

Method 8270C *** BATCH#:E981124044715
WORK ORDER: LCS CLIENT SAMPLE ID:

2-Fluorophenol	2500	1600	64.0	25- 121
Phenol-d5	2500	1700	68.0	24- 113
2-Chlorophenol-d4	2500	1800	72.0	20- 130
1,2-Dichlorobenzene-d4	1700	1100	64.7	20- 130
Nitrobenzene-d5	1700	1100	64.7	23- 120
2-Fluorobiphenyl	1700	1100	64.7	30- 115
2,4,6-Tribromophenol	2500	1800	72.0	19- 122

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SURROGATE RECOVERY SUMMARY
12/07/98 14:27:08

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
Terphenyl-d14	1700	1100	64.7	18- 137

Method 8270C *** **BATCH#:**E981124044715
WORK ORDER: Matrix Spike **CLIENT SAMPLE ID:**9811A52-01A

2-FLUOROPHENOL	2500	1400	56	25- 121
PHENOL-D5	2500	1500	61	24- 113
2-CHLOROPHENOL-D4	2500	1600	64	20- 130
1,2-DICHLOROBENZENE-D4	1700	950	57	20- 130
NITROBENZENE-D5	1700	920	55	23- 120
2-FLUOROBIPHENYL	1700	1000	61	30- 115
2,4,6-TRIBROMOPHENOL	2500	1600	64	19- 122
TERPHENYL-D14	1700	960	58	18- 137

Method 8270C *** **BATCH#:**E981124044715
WORK ORDER: Matrix Spike Dup. **CLIENT SAMPLE ID:**9811A52-01A

2-Fluorophenol	2500	1400	57	25- 121
Phenol-d5	2500	1500	61	24- 113
2-Chlorophenol-d4	2500	1600	63	20- 130
1,2-Dichlorobenzene-d4	1700	1000	60	20- 130
Nitrobenzene-d5	1700	960	57	23- 120
2-Fluorobiphenyl	1700	1000	61	30- 115
2,4,6-Tribromophenol	2500	1500	61	19- 122
Terphenyl-d14	1700	980	59	18- 137

Method 8260B *** **BATCH#:**X981201204301
WORK ORDER: Method Blank **CLIENT SAMPLE ID:**

SS1-1,2-Dichloroethane-d4	50	51	102	80- 120
SS2-Toluene-d8	50	49	99	81- 117
SS3-Bromofluorobenzene	50	48	96	74- 121

Method 8260B *** **BATCH#:**X981201204301
WORK ORDER: LCS **CLIENT SAMPLE ID:**

SS1-1,2-Dichloroethane-d4	50	50	100	80- 120
SS2-Toluene-d8	50	50	100	81- 117
SS3-Bromofluorobenzene	50	48	96.0	74- 121

Method 8260B *** **BATCH#:**X981201204301
WORK ORDER: Matrix Spike **CLIENT SAMPLE ID:**9811A88-01F

SS1-1,2-DICHLOROETHANE-D4	50	48.0000	95	80- 120
SS2-TOLUENE-D8	50	50.0000	100	81- 117
SS3-BROMOFLUOROBENZENE	50	49.0000	97	74- 121

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SURROGATE RECOVERY SUMMARY
12/07/98 14:27:08

Method 8260B *** BATCH#:X981201204301
WORK ORDER: Matrix Spike Dup. **CLIENT SAMPLE ID:** 9811A88-01F

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
SS1-1,2-DICHLOROETHANE-D4	50	47.0000	93	80- 120
SS2-TOLUENE-D8	50	50.0000	101	81- 117
SS3-BROMOFLUOROBENZENE	50	49.0000	97	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: 9811B33-01A **CLIENT SAMPLE ID:** GP-6 19-22'

SS1-1,2-Dichloroethane-d4	64	64	99.8	80- 120
SS2-Toluene-d8	64	66	102	81- 117
SS3-Bromofluorobenzene	64	61	94	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: 9811B33-02A **CLIENT SAMPLE ID:** GP-2 12-16'

SS1-1,2-Dichloroethane-d4	62	62.0000	99	80- 120
SS2-Toluene-d8	62	62.0000	100	81- 117
SS3-Bromofluorobenzene	62	58.0000	94	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: Method Blank **CLIENT SAMPLE ID:**

SS1-1,2-Dichloroethane-d4	50	45	89	80- 120
SS2-Toluene-d8	50	51	102	81- 117
SS3-Bromofluorobenzene	50	46	93	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: LCS **CLIENT SAMPLE ID:**

SS1-1,2-Dichloroethane-d4	50	46	92.0	80- 120
SS2-Toluene-d8	50	50	100	81- 117
SS3-Bromofluorobenzene	50	46	92.0	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: Matrix Spike **CLIENT SAMPLE ID:** 9811B33-02A

SS1-1,2-DICHLOROETHANE-D4	62	50.0000	80	80- 120
SS2-TOLUENE-D8	62	63.0000	101	81- 117
SS3-BROMOFLUOROBENZENE	62	57.0000	92	74- 121

Method 8260B *** BATCH#:X981204204301
WORK ORDER: Matrix Spike Dup. **CLIENT SAMPLE ID:** 9811B33-02A

SS1-1,2-Dichloroethane-d4	62	51.0000	81	80- 120

SPL/LE/SM-F1.06

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ZIP 70583-8544
PHONE: (318) 237-4775

Sample Receipt Checklist

9811B33

Client: S+ME	COC Serial #: 15314			
Project #:	Project Loc: Charlotte NC	Yes	No	NA
Are Custody seals on the shipping container present and intact?		✓		
Chain-of-Custody (COC) present and signed by the sampler?		✓		
Traffic reports, airbills, or bills of lading present?		✓		
Are sample containers intact?		✓		
Are sample tags/field labels present on each sample?		✓		
Are all samples present in the sample kit listed on the COC?		✓		
Do date/time of sample collection agree with COC?		✓		
Do sample tags/field tags agree with COC?		✓		
Does sample type agree with COC?		✓		
Does the number of bottles recieved for each parameter agree with COC?		✓		
Does the bottle type and volume agree with COC?		✓		
Are the analyses requested listed on the COC?		✓		
Is the sample kit temperature 2 - 6 degrees C?		✓		
Record the temperature in degrees C in the NA column.				<2
Is the pH of all preserved samples checked and documented properly?		✓		
Are all samples preserved according to EPA guidelines?		✓		
Are all samples within the EPA maximum holding times?		✓		
Do sample containers conform to EPA guidelines?		✓		
Did the receiving technician record the date/time of receipt and sign the COC?		✓		
Was a nonconformance filled out for any items with a NO response?			✓	

Method of sample delivery to SPL and airbill number where applicable (circle one)?

Fed-X (circled) UPS Other: 80803001 5031

Method of sample disposal:(circle one) SPL Disposal (circled) HOLD Return to Client

Receiving Technician signature:	Date/Time: 11-24-98 955

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SURROGATE RECOVERY SUMMARY
12/07/98 14:27:08

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
SS2-Toluene-d8	62	64.0000	102	81- 117
SS3-Bromofluorobenzene	62	58.0000	93	74- 121

« = Recovery outside of control limits
* = Methods for Chemical Analysis of Water & Wastes,1983,EPA
** = Standard Methods for Examination of Water & Wastewater,17th
*** = Test Methods for Evaluating Solid Waste,EPA SW846,3rd

129

200

FedEx USA Airbill

FedEx Tracking Number 808030015031

Form I.D. No. 0210 **Recipient's**

SN

1 From

Date 11-23-98

Sender's Name GARY SIMCOX Phone (336) 288-7180

Company S & M E

Address 3718 OLD BATTLEGROUND RD

Dept/Floor/Suite/Room

City GREENSBORO State NC ZIP 27410

2 Your Internal Billing Reference Information

3 To

Recipient's Name Phone (318) 273-4775

Company SPL ENVIRONMENTAL LABORATORIES

Address 500 AMBASSADOR CAFFERY PARKWAY

(To "HOLD" at FedEx location, print FedEx address here)

Dept/Floor/Suite/Room

☐ Check here if residence (Extra charge applies for FedEx Express Saver)

City SCOTT State LA ZIP 70583

For HOLD at FedEx Location check here

☐ Hold Weekday (Not available with FedEx First Overnight)

☐ Hold Saturday (Not available at all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

For WEEKEND Delivery check here (Extra Charge. Not available at all locations)

☐ Saturday Delivery (Available for FedEx Priority Overnight and FedEx 2Day only)

☐ NEW Sunday Delivery (Available for FedEx Priority Overnight only)

8 0 8 0 3 0 0 1 5 0 3 1

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.

☒ FedEx Priority Overnight (Next business morning)

☐ FedEx Standard Overnight (Next business afternoon)

☐ FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)

☐ FedEx 2Day (Second business day)

☐ FedEx Express Saver (Third business day)

FedEx Letter Rate not available. Minimum charge: One pound rate.

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

☐ FedEx Overnight Freight (Next business day)

☐ FedEx 2Day Freight (Second business day)

☐ FedEx Express Saver Freight (Up to 3 business days)

(Call for delivery schedule. See back for detailed descriptions of freight services.)

5 Packaging

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

6 Special Handling

Does this shipment contain dangerous goods?* (One box must be checked)

☐ No ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)

☐ Dry Ice — Dry Ice, 9, UN 1845 _____ x _____ kg.

☐ Cargo Aircraft Only

*Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment

Bill to: ☐ Sender (Account No. in Section 1 will be billed) ☑ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

(Enter FedEx Account No. or Credit Card No. below)

☐ Obtain Recipient FedEx Account No.

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	19	$ .00	$

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

Credit Card Auth.

8 Release Signature

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

Questions?

Call 1·800·Go·FedEx® (800)463-3339

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[redacted] 981633 [redacted] SPL Laboratories, Inc. [redacted] UNOCAL

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Fax: (713) 660-8975

☐ 500 Ambassador Caffery Pkwy.
Scott, Louisiana 70583
(318) 237-4775
Fax: (318) 237-7080

Chain of Custody Record

Company Name: S & ME, INC.	Project Name: UNOCAL MEBANE 9787-214
Address: 9751 S. PINE BLVD.	UNOCAL Project Manager:
City: CHARLOTTE State: NC Zip Code: 28273	AFE#: 335927785
Telephone: FAX:	Site #: M
Report To: STEWART HINES Sampler: GARY SIMCOX	QC Data: ☑ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: (Calendar Days) ☐ 10 Days (Standard) ☐ 5 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☐ Detecl. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	8260 + MTBE + HE	8270	MADEP - EPH	MADEP - VPH						Comments
GP-6	11/23/98 3:30	S	3	GLASS ENCORE		X	X	X	X						-19' TO 22'
GP-2	11/23/98 4:15	S	3			X	X	X	X						-12' TO 16'
												8260S			
												PNPLMS, 8270S, TSOL			
												EPHMAS, EPHMAS, EXMACT			
												EXMACT			
												VPHEXS, VPHMAS			
															12/04/98

Relinquished By: [signature]	Date: 11/23/98	Time: 5:45AM	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date: 11-24-98	Time: 945

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

REC'D DEC 0 7 1998

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500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

LABORATORY REPORT

SPL WORKORDER NUMBER: 9811604

Submitted to:
STEWART HINES
S&ME
9751 SOUTHERN PINE BLVD
CHARLOTTE NC 28273

Reported: 11/25/98

Prepared For: UNOCAL CORPORATION

Measurement Basis: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Approved By:

ANNIE REEDY
Project Manager

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SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

REC'D DEC 17 1998

LABORATORY REPORT

SPL WORKORDER NUMBER: 9811B33

Submitted to:
STEWART HINES
S&ME
9751 SOUTHERN PINE BLVD
CHARLOTTE NC 28273

Reported: 12/07/98

Prepared For: UNOCAL CORPORATION

Measurement Basis: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Approved By:

ANNIE REEDY
Project Manager

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SCOTT, LOUISIANA 70583-8544
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FAX (318) 237-8005

Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-01	WATER	MW-7	11/11/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroform	3.2	0.50ug/L	Method 601 40 CFR PART 13
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Lead, Total	0.003	0.002mg/L	Method 239.2 *
				1,2-Dibromoethane	ND	0.02ug/L	Method 504 Revision 2.0
				Isopropyl Ether	ND	8ug/L	Method 602 40 CFR PART 136
				1,2,4-Trichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,2-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,3-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,4-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				2,4,6-Trichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dimethylphenol	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-01	WATER	MW-7	11/11/98	2,4-Dinitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
				2,4-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2,6-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chloronaphthalene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2-Nitrophenol	ND	5ug/L	Method 625 40 CFR Part 136
				3,3'-Dichlorobenzidine	ND	5ug/L	Method 625 40 CFR Part 136
				4,6-Dinitro-2-Methylphenol	ND	21ug/L	Method 625 40 CFR Part 136
				4-Bromophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chloro-3-Methylphenol	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chlorophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Nitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
				Acenaphthene	ND	5ug/L	Method 625 40 CFR Part 136
				Acenaphthylene	ND	5ug/L	Method 625 40 CFR Part 136
				Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzidine	ND	41ug/L	Method 625 40 CFR Part 136
				Benzo(a)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(a)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(b)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(g,h,i)Perylene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(k)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethoxy)Methane	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroisopropyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Ethylhexyl)Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Butylbenzylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Chrysene	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Butylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Octyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dibenz(a,h)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Diethylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dimethyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Fluorene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobutadiene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorocyclopentadiene	ND	10ug/L	Method 625 40 CFR Part 136
				Hexachloroethane	ND	5ug/L	Method 625 40 CFR Part 136
				Indeno(1,2,3-cd)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Isophorone	ND	5ug/L	Method 625 40 CFR Part 136
				N-Nitroso-Di-n-Propylamine	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811604-01	WATER	MW-7	11/11/98

Compound	Result	Det Limit	Method
N-Nitrosodiphenylamine (1)	ND	5ug/L	Method 625 40 CFR Part 136
Naphthalene	ND	5ug/L	Method 625 40 CFR Part 136
Nitrobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Pentachlorophenol	ND	21ug/L	Method 625 40 CFR Part 136
Phenanthrene	ND	5ug/L	Method 625 40 CFR Part 136
Phenol	ND	5ug/L	Method 625 40 CFR Part 136
Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Unadjusted Aliphatics C19-C36	ND	0.132mg/L	Method MA EPH
Unadjusted Aliphatics C9-C18	0.13	0.063mg/L	Method MA EPH
Unadjusted Aromatics C11-C22	ND	0.38mg/L	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	0.25mg/L	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	0.25mg/L	Method MA VPH
Unadjusted Aromatics C9-C10	ND	0.25mg/L	Method MA VPH
MTBE	ND	8ug/L	Method 602 40 CFR PART 136
Benzene	ND	1ug/L	Method 602 40 CFR PART 136
Toluene	ND	1ug/L	Method 602 40 CFR PART 136
EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-02	WATER	MW-8	11/11/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Lead, Total	0.008	0.002mg/L	Method 239.2 *
				1,2-Dibromoethane	ND	0.02ug/L	Method 504 Revision 2.0
				Isopropyl Ether	ND	8ug/L	Method 602 40 CFR PART 136
				1,2,4-Trichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,2-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,3-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,4-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				2,4,6-Trichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dimethylphenol	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes:

***Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.**

****Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.**

*****Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.**

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811604-02	WATER	MW-8	11/11/98

Compound	Result	Det Limit	Method
2,4-Dinitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
2,4-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
2,6-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
2-Chloronaphthalene	ND	5ug/L	Method 625 40 CFR Part 136
2-Chlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
2-Nitrophenol	ND	5ug/L	Method 625 40 CFR Part 136
3,3'-Dichlorobenzidine	ND	5ug/L	Method 625 40 CFR Part 136
4,6-Dinitro-2-Methylphenol	ND	21ug/L	Method 625 40 CFR Part 136
4-Bromophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
4-Chloro-3-Methylphenol	ND	5ug/L	Method 625 40 CFR Part 136
4-Chlorophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
4-Nitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
Acenaphthene	ND	5ug/L	Method 625 40 CFR Part 136
Acenaphthylene	ND	5ug/L	Method 625 40 CFR Part 136
Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Benzidine	ND	42ug/L	Method 625 40 CFR Part 136
Benzo(a)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(a)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(b)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(g,h,i)Perylene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(k)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroethoxy)Methane	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroethyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroisopropyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Ethylhexyl)Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Butylbenzylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Chrysene	ND	5ug/L	Method 625 40 CFR Part 136
Di-n-Butylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Di-n-Octyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Dibenz(a,h)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Diethylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Dimethyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
Fluorene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorobutadiene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorocyclopentadiene	ND	10ug/L	Method 625 40 CFR Part 136
Hexachloroethane	ND	5ug/L	Method 625 40 CFR Part 136
Indeno(1,2,3-cd)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Isophorone	ND	5ug/L	Method 625 40 CFR Part 136
N-Nitroso-Di-n-Propylamine	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811604-02	WATER	MW-8	11/11/98

Compound	Result	Det Limit	Method
N-Nitrosodiphenylamine (1)	ND	5ug/L	Method 625 40 CFR Part 136
Naphthalene	ND	5ug/L	Method 625 40 CFR Part 136
Nitrobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Pentachlorophenol	ND	21ug/L	Method 625 40 CFR Part 136
Phenanthrene	ND	5ug/L	Method 625 40 CFR Part 136
Phenol	ND	5ug/L	Method 625 40 CFR Part 136
Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Unadjusted Aliphatics C19-C36	ND	0.158mg/L	Method MA EPH
Unadjusted Aliphatics C9-C18	0.14	0.076mg/L	Method MA EPH
Unadjusted Aromatics C11-C22	ND	0.38mg/L	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	0.25mg/L	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	0.25mg/L	Method MA VPH
Unadjusted Aromatics C9-C10	ND	0.25mg/L	Method MA VPH
MTBE	ND	8ug/L	Method 602 40 CFR PART 136
Benzene	ND	1ug/L	Method 602 40 CFR PART 136
Toluene	ND	1ug/L	Method 602 40 CFR PART 136
EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-03	WATER	MW-3	11/11/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloroethane	46	5.00ug/L	Method 601 40 CFR PART 13
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Lead, Total	ND	0.002mg/L	Method 239.2 *
				1,2-Dibromoethane	ND	0.02ug/L	Method 504 Revision 2.0
				Isopropyl Ether	30	8ug/L	Method 602 40 CFR PART 136
				1,2,4-Trichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,2-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,3-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,4-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				2,4,6-Trichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dimethylphenol	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811604-03	WATER	MW-3	11/11/98

Compound	Result	Det Limit	Method
2,4-Dinitrophenol	ND	20ug/L	Method 625 40 CFR Part 136
2,4-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
2,6-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
2-Chloronaphthalene	ND	5ug/L	Method 625 40 CFR Part 136
2-Chlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
2-Nitrophenol	ND	5ug/L	Method 625 40 CFR Part 136
3,3'-Dichlorobenzidine	ND	5ug/L	Method 625 40 CFR Part 136
4,6-Dinitro-2-Methylphenol	ND	20ug/L	Method 625 40 CFR Part 136
4-Bromophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
4-Chloro-3-Methylphenol	ND	5ug/L	Method 625 40 CFR Part 136
4-Chlorophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
4-Nitrophenol	ND	20ug/L	Method 625 40 CFR Part 136
Acenaphthene	ND	5ug/L	Method 625 40 CFR Part 136
Acenaphthylene	ND	5ug/L	Method 625 40 CFR Part 136
Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Benzidine	ND	41ug/L	Method 625 40 CFR Part 136
Benzo(a)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(a)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(b)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(g,h,i)Perylene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(k)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroethoxy)Methane	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroethyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroisopropyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Ethylhexyl)Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Butylbenzylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Chrysene	ND	5ug/L	Method 625 40 CFR Part 136
Di-n-Butylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Di-n-Octyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Dibenz(a,h)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Diethylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Dimethyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
Fluorene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorobutadiene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorocyclopentadiene	ND	10ug/L	Method 625 40 CFR Part 136
Hexachloroethane	ND	5ug/L	Method 625 40 CFR Part 136
Indeno(1,2,3-cd)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Isophorone	ND	5ug/L	Method 625 40 CFR Part 136
N-Nitroso-Di-n-Propylamine	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811604-03	WATER	MW-3	11/11/98

Compound	Result	Det Limit	Method
N-Nitrosodiphenylamine (1)	ND	5ug/L	Method 625 40 CFR Part 136
Naphthalene	ND	5ug/L	Method 625 40 CFR Part 136
Nitrobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Pentachlorophenol	ND	20ug/L	Method 625 40 CFR Part 136
Phenanthrene	ND	5ug/L	Method 625 40 CFR Part 136
Phenol	ND	5ug/L	Method 625 40 CFR Part 136
Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Unadjusted Aliphatics C19-C36	ND	0.181mg/L	Method MA EPH
Unadjusted Aliphatics C9-C18	0.13	0.087mg/L	Method MA EPH
Unadjusted Aromatics C11-C22	ND	0.38mg/L	Method MA EPH
Unadjusted Aliphatics C5-C8	0.28	0.25mg/L	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	0.25mg/L	Method MA VPH
Unadjusted Aromatics C9-C10	ND	0.25mg/L	Method MA VPH
MTBE	25	8ug/L	Method 602 40 CFR PART 136
Benzene	5.3	1ug/L	Method 602 40 CFR PART 136
Toluene	ND	1ug/L	Method 602 40 CFR PART 136
EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION

Site: MEBANE, NC

Project No: 335927785

Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-04	WATER	DMW-5	11/11/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Lead, Total	ND	0.002mg/L	Method 239.2 *
				1,2-Dibromoethane	ND	0.02ug/L	Method 504 Revision 2.0
				Isopropyl Ether	ND	8ug/L	Method 602 40 CFR PART 136
				1,2,4-Trichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,2-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,3-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,4-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				2,4,6-Trichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dimethylphenol	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.

**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-04	WATER	DMW-5	11/11/98	2,4-Dinitrophenol	ND	20ug/L	Method 625 40 CFR Part 136
				2,4-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2,6-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chloronaphthalene	ND	5ug/L	Method 625 40 CFR Part 136
				2-Chlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2-Nitrophenol	ND	5ug/L	Method 625 40 CFR Part 136
				3,3'-Dichlorobenzidine	ND	5ug/L	Method 625 40 CFR Part 136
				4,6-Dinitro-2-Methylphenol	ND	20ug/L	Method 625 40 CFR Part 136
				4-Bromophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chloro-3-Methylphenol	ND	5ug/L	Method 625 40 CFR Part 136
				4-Chlorophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
				4-Nitrophenol	ND	20ug/L	Method 625 40 CFR Part 136
				Acenaphthene	ND	5ug/L	Method 625 40 CFR Part 136
				Acenaphthylene	ND	5ug/L	Method 625 40 CFR Part 136
				Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzidine	ND	41ug/L	Method 625 40 CFR Part 136
				Benzo(a)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(a)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(b)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(g,h,i)Perylene	ND	5ug/L	Method 625 40 CFR Part 136
				Benzo(k)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethoxy)Methane	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroethyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Chloroisopropyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
				bis(2-Ethylhexyl)Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Butylbenzylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Chrysene	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Butylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Di-n-Octyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dibenz(a,h)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
				Diethylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Dimethyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
				Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
				Fluorene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorobutadiene	ND	5ug/L	Method 625 40 CFR Part 136
				Hexachlorocyclopentadiene	ND	10ug/L	Method 625 40 CFR Part 136
				Hexachloroethane	ND	5ug/L	Method 625 40 CFR Part 136
				Indeno(1,2,3-cd)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
				Isophorone	ND	5ug/L	Method 625 40 CFR Part 136
				N-Nitroso-Di-n-Propylamine	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes: *Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811604-04	WATER	DMW-5	11/11/98

Compound	Result	Det Limit	Method
N-Nitrosodiphenylamine (1)	ND	5ug/L	Method 625 40 CFR Part 136
Naphthalene	ND	5ug/L	Method 625 40 CFR Part 136
Nitrobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Pentachlorophenol	ND	20ug/L	Method 625 40 CFR Part 136
Phenanthrene	ND	5ug/L	Method 625 40 CFR Part 136
Phenol	ND	5ug/L	Method 625 40 CFR Part 136
Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Unadjusted Aliphatics C19-C36	ND	0.139mg/L	Method MA EPH
Unadjusted Aliphatics C9-C18	0.10	0.067mg/L	Method MA EPH
Unadjusted Aromatics C11-C22	ND	0.38mg/L	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	0.25mg/L	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	0.25mg/L	Method MA VPH
Unadjusted Aromatics C9-C10	ND	0.25mg/L	Method MA VPH
MTBE	ND	8ug/L	Method 602 40 CFR PART 136
Benzene	ND	1ug/L	Method 602 40 CFR PART 136
Toluene	ND	1ug/L	Method 602 40 CFR PART 136
EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-05	WATER	WILLIAMS	11/11/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Lead, Total	ND	0.002mg/L	Method 239.2 *
				1,2-Dibromoethane	ND	0.02ug/L	Method 504 Revision 2.0
				Isopropyl Ether	ND	8ug/L	Method 602 40 CFR PART 136
				1,2,4-Trichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,2-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,3-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				1,4-Dichlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
				2,4,6-Trichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dichlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
				2,4-Dimethylphenol	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811604-05	WATER	WILLIAMS	11/11/98

Compound	Result	Det Limit	Method
2,4-Dinitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
2,4-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
2,6-Dinitrotoluene	ND	5ug/L	Method 625 40 CFR Part 136
2-Chloronaphthalene	ND	5ug/L	Method 625 40 CFR Part 136
2-Chlorophenol	ND	5ug/L	Method 625 40 CFR Part 136
2-Nitrophenol	ND	5ug/L	Method 625 40 CFR Part 136
3,3'-Dichlorobenzidine	ND	5ug/L	Method 625 40 CFR Part 136
4,6-Dinitro-2-Methylphenol	ND	21ug/L	Method 625 40 CFR Part 136
4-Bromophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
4-Chloro-3-Methylphenol	ND	5ug/L	Method 625 40 CFR Part 136
4-Chlorophenylphenyl ether	ND	5ug/L	Method 625 40 CFR Part 136
4-Nitrophenol	ND	21ug/L	Method 625 40 CFR Part 136
Acenaphthene	ND	5ug/L	Method 625 40 CFR Part 136
Acenaphthylene	ND	5ug/L	Method 625 40 CFR Part 136
Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Benzidine	ND	42ug/L	Method 625 40 CFR Part 136
Benzo(a)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(a)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(b)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(g,h,i)Perylene	ND	5ug/L	Method 625 40 CFR Part 136
Benzo(k)Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroethoxy)Methane	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroethyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Chloroisopropyl)Ether	ND	5ug/L	Method 625 40 CFR Part 136
bis(2-Ethylhexyl)Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Butylbenzylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Chrysene	ND	5ug/L	Method 625 40 CFR Part 136
Di-n-Butylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Di-n-Octyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Dibenz(a,h)Anthracene	ND	5ug/L	Method 625 40 CFR Part 136
Diethylphthalate	ND	5ug/L	Method 625 40 CFR Part 136
Dimethyl Phthalate	ND	5ug/L	Method 625 40 CFR Part 136
Fluoranthene	ND	5ug/L	Method 625 40 CFR Part 136
Fluorene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorobutadiene	ND	5ug/L	Method 625 40 CFR Part 136
Hexachlorocyclopentadiene	ND	10ug/L	Method 625 40 CFR Part 136
Hexachloroethane	ND	5ug/L	Method 625 40 CFR Part 136
Indeno(1,2,3-cd)Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Isophorone	ND	5ug/L	Method 625 40 CFR Part 136
N-Nitroso-Di-n-Propylamine	ND	5ug/L	Method 625 40 CFR Part 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected
9811604-05	WATER	WILLIAMS	11/11/98

Compound	Result	Det Limit	Method
N-Nitrosodiphenylamine (1)	ND	5ug/L	Method 625 40 CFR Part 136
Naphthalene	ND	5ug/L	Method 625 40 CFR Part 136
Nitrobenzene	ND	5ug/L	Method 625 40 CFR Part 136
Pentachlorophenol	ND	21ug/L	Method 625 40 CFR Part 136
Phenanthrene	ND	5ug/L	Method 625 40 CFR Part 136
Phenol	ND	5ug/L	Method 625 40 CFR Part 136
Pyrene	ND	5ug/L	Method 625 40 CFR Part 136
Unadjusted Aliphatics C19-C36	ND	0.250mg/L	Method MA EPH
Unadjusted Aliphatics C9-C18	0.20	0.120mg/L	Method MA EPH
Unadjusted Aromatics C11-C22	ND	0.38mg/L	Method MA EPH
Unadjusted Aliphatics C5-C8	ND	0.25mg/L	Method MA VPH
Unadjusted Aliphatics C9-C12	ND	0.25mg/L	Method MA VPH
Unadjusted Aromatics C9-C10	ND	0.25mg/L	Method MA VPH
MTBE	ND	8ug/L	Method 602 40 CFR PART 136
Benzene	ND	1ug/L	Method 602 40 CFR PART 136
Toluene	ND	1ug/L	Method 602 40 CFR PART 136
EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

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Date: Tuesday, December 01, 1998

*****SUMMARY REPORT*****

Company: UNOCAL CORPORATION
Site: MEBANE, NC

Project No: 335927785
Project: #9787214,1342 TROLLINGWOOD RD

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
9811604-06	WATER	TRIP BLANK	11/3/98	1,1,1-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2,2-Tetrachloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1,2-Trichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,1-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,2-Dichloropropane	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,3-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				1,4-Dichlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				2-Chloroethylvinyl ether	ND	5.00ug/L	Method 601 40 CFR PART 13
				Bromodichloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromoform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Bromomethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Carbon tetrachloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chlorobenzene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloroform	ND	0.50ug/L	Method 601 40 CFR PART 13
				Chloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				cis-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dibromochloromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Dichlorodifluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Methylene chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Tetrachloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trans-1,2-Dichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				trans-1,3-Dichloropropene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichloroethene	ND	0.50ug/L	Method 601 40 CFR PART 13
				Trichlorofluoromethane	ND	0.50ug/L	Method 601 40 CFR PART 13
				Vinyl chloride	ND	0.50ug/L	Method 601 40 CFR PART 13
				Isopropyl Ether	ND	8ug/L	Method 602 40 CFR PART 136
				MTBE	ND	8ug/L	Method 602 40 CFR PART 136
				Benzene	ND	1ug/L	Method 602 40 CFR PART 136
				Toluene	ND	1ug/L	Method 602 40 CFR PART 136
				EthylBenzene	ND	1ug/L	Method 602 40 CFR PART 136
				Total Xylene	ND	1ug/L	Method 602 40 CFR PART 136

ND - Not Detected.

Notes:
*Ref: Methods for chemical Analysis of Water and Wastes, 1983, EPA.
**Ref: Standard Methods for Examination of Water and Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-01

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-7

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 08:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	8 P	ug/L
ISOPROPYL ETHER	ND	8 P	ug/L
BENZENE	ND	1 P	ug/L
TOLUENE	ND	1 P	ug/L
ETHYLBENZENE	ND	1 P	ug/L
TOTAL XYLENE	ND	1 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	89		
4-Bromofluorobenzene	92		
Method 602 40 CFR PART 136			
Analyzed by: TD			
Date: 11/15/98			
1,2-Dibromoethane	ND	0.02 P	ug/L
Surrogate	**% Recovery**		
1-Chloro-2-Fluorobenzene	87		
Method 504 Revision 2.0			
Analyzed by: SM			
Date: 11/17/98			
Unadjusted Aliphatics C9-C18	0.13	0.063 P	mg/L
Unadjusted Aliphatics C19-C36	ND	0.132 P	mg/L
Surrogate	**% Recovery**		
Chloro-octa-decane	60		

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-7

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 08:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Unadjusted Aromatics C11-C22	ND	0.38 P	mg/L
Surrogate	**% Recovery**		
2-Bromonaphthalene o-Terphenyl 2-Fluorobiphenyl	59		
Method MA EPH			
Analyzed by: OL			
Date: 11/20/98			
Unadjusted Aliphatics C5-C8	ND	0.25 P	mg/L
Unadjusted Aliphatics C9-C12	ND	0.25 P	mg/L
Unadjusted Aromatics C9-C10	ND	0.25 P	mg/L
Surrogate	**% Recovery**		
2,5-Dibromotoluene	99		
Method MA VPH			
Analyzed by: TD			
Date: 11/22/98			
Micro-extraction	11/17/98		
Method 504 Revision 2			
Analyzed by: CB			
Date: 11/17/98 11:00:00			
Lead, Total	0.003	0.002	mg/L
Method 239.2 *			
Analyzed by: DD			
Date: 11/16/98 10:05:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
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P.O.#
9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-7

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 08:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Digestion for Acid-Extractable Metals Method 3030 C ** Analyzed by: ML Date: 11/13/98 11:30:00	11/13/03		
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: JB Date: 11/16/98 18:00:00	11/17/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/17/98 13:00:00	11/17/98		-

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
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12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-7

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 08:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Dichlorodifluoromethane	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Trans-1,2-Dichloroethene	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
Chloroform	3.2	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
2-Chloroethylvinyl ether	ND	5.00	ug/L
Trichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Dibromochloromethane	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L

METHOD: 601, Halogenated Volatile Organics

(continued on next page)

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Certificate of Analysis No. L1-9811604-01

UNOCAL CORPORATION

SAMPLE ID: MW-7

SURROGATES	**% RECOVERY**
Bromochloromethane	105

ANALYZED BY: TD DATE/TIME: 11/18/98 19:59:00
METHOD: 601, Halogenated Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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Certificate of Analysis No. L1-9811604-01

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2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.#
9787214-4675-62252
12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-7

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 08:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
Anthracene	ND	5	ug/L
Benzidine	ND	41	ug/L
Benzo(a)Anthracene	ND	5	ug/L
Benzo(a)Pyrene	ND	5	ug/L
Benzo(b)Fluoranthene	ND	5	ug/L
Benzo(g,h,i)Perylene	ND	5	ug/L
Benzo(k)Fluoranthene	ND	5	ug/L
4-Bromophenylphenyl ether	ND	5	ug/L
Butylbenzylphthalate	ND	5	ug/L
4-Chloro-3-Methylphenol	ND	5	ug/L
bis(2-Chloroethoxy)Methane	ND	5	ug/L
bis(2-Chloroethyl)Ether	ND	5	ug/L
bis(2-Chloroisopropyl)Ether	ND	5	ug/L
2-Chloronaphthalene	ND	5	ug/L
2-Chlorophenol	ND	5	ug/L
4-Chlorophenylphenyl ether	ND	5	ug/L
Chrysene	ND	5	ug/L
Di-n-Butylphthalate	ND	5	ug/L
Di-n-Octyl Phthalate	ND	5	ug/L
Dibenz(a,h)Anthracene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
3,3'-Dichlorobenzidine	ND	5	ug/L
2,4-Dichlorophenol	ND	5	ug/L
Diethylphthalate	ND	5	ug/L
Dimethyl Phthalate	ND	5	ug/L
2,4-Dimethylphenol	ND	5	ug/L
4,6-Dinitro-2-Methylphenol	ND	21	ug/L
2,4-Dinitrophenol	ND	21	ug/L
2,4-Dinitrotoluene	ND	5	ug/L
2,6-Dinitrotoluene	ND	5	ug/L
bis(2-Ethylhexyl)Phthalate	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Fluorene	ND	5	ug/L
Hexachlorobenzene	ND	5	ug/L

METHOD: USEPA 625

(continued on next page)

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Certificate of Analysis No. L1-9811604-01

UNOCAL CORPORATION

SAMPLE ID: MW-7

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
Hexachlorobutadiene	ND	5	ug/L
Hexachlorocyclopentadiene	ND	10	ug/L
Hexachloroethane	ND	5	ug/L
Indeno(1,2,3-cd)Pyrene	ND	5	ug/L
Isophorone	ND	5	ug/L
N-Nitroso-Di-n-Propylamine	ND	5	ug/L
N-Nitrosodiphenylamine	ND	5	ug/L
Naphthalene	ND	5	ug/L
Nitrobenzene	ND	5	ug/L
2-Nitrophenol	ND	5	ug/L
4-Nitrophenol	ND	21	ug/L
Pentachlorophenol	ND	21	ug/L
Phenanthrene	ND	5	ug/L
Phenol	ND	5	ug/L
Pyrene	ND	5	ug/L
1,2,4-Trichlorobenzene	ND	5	ug/L
2,4,6-Trichlorophenol	ND	5	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
2-Fluorobiphenyl	50 ug/L	96	43	116
2-Fluorophenol	75 ug/L	52	21	110
Nitrobenzene-d5	50 ug/L	92	35	114
Phenol-d5	75 ug/L	37	10	110
Terphenyl-d14	50 ug/L	94	33	141
2,4,6-Tribromophenol	75 ug/L	92	10	123
2-Chlorophenol-d4	75 ug/L	92	33	110
1,2-Dichlorobenzene-d4	50 ug/L	93	16	110

ANALYZED BY: BTG DATE/TIME: 11/18/98 21:38:00
EXTRACTED BY: ADS DATE/TIME: 11/17/98 17:00:00
METHOD: USEPA 625
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

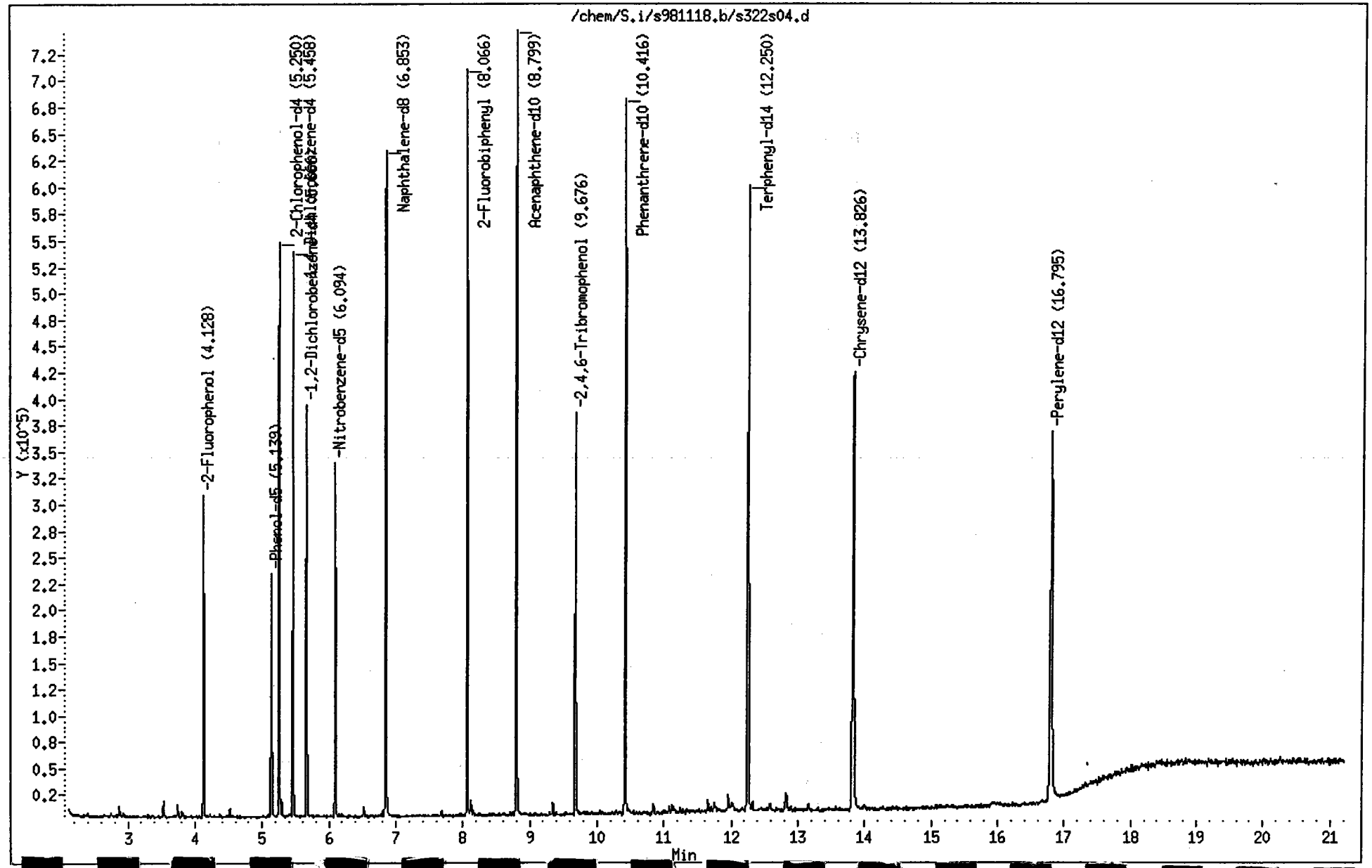
COMMENTS: Method 625 Assodicated Blank:S322B02 File ID:S322S04

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem/S.i/s981118.b/s322s04.d
Date : 18-NOV-1998 21:38
Client ID:
Sample Info: 9811604-01G-625/1X;1:1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: S.i

Operator: SEN
Column diameter: 0.25



Data File: /chem/ms.i/s981118.b/s322s04.d
Report Date: 10-Nov-1998 11:57

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Laboratories

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id:
Operator : SEN
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: s981118

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO COMPOUNDS FOUND			

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Certificate of Analysis No. L1-9811604-02

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-8

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 09:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	8 P	ug/L
ISOPROPYL ETHER	ND	8 P	ug/L
BENZENE	ND	1 P	ug/L
TOLUENE	ND	1 P	ug/L
ETHYLBENZENE	ND	1 P	ug/L
TOTAL XYLENE	ND	1 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	89		
4-Bromofluorobenzene	94		
Method 602 40 CFR PART 136			
Analyzed by: TD			
Date: 11/15/98			
1,2-Dibromoethane	ND	0.02 P	ug/L
Surrogate	**% Recovery**		
1-Chloro-2-Fluorobenzene	131		
Method 504 Revision 2.0			
Analyzed by: SM			
Date: 11/17/98			
Unadjusted Aliphatics C9-C18	0.14	0.076 P	mg/L
Unadjusted Aliphatics C19-C36	ND	0.158 P	mg/L
Surrogate	**% Recovery**		
Chloro-octa-decane	51		

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-8

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 09:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Unadjusted Aromatics C11-C22	ND	0.38 P	mg/L
Surrogate	**% Recovery**		
2-Bromonaphthalene			
o-Terphenyl	54		
2-Fluorobiphenyl			
Method MA EPH			
Analyzed by: OL			
Date: 11/20/98			
Unadjusted Aliphatics C5-C8	ND	0.25 P	mg/L
Unadjusted Aliphatics C9-C12	ND	0.25 P	mg/L
Unadjusted Aromatics C9-C10	ND	0.25 P	mg/L
Surrogate	**% Recovery**		
2,5-Dibromotoluene	100		
Method MA VPH			
Analyzed by: TD			
Date: 11/22/98			
Micro-extraction	11/17/98		
Method 504 Revision 2			
Analyzed by: CB			
Date: 11/17/98 11:00:00			
Lead, Total	0.008	0.002	mg/L
Method 239.2 *			
Analyzed by: DD			
Date: 11/16/98 10:05:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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DATE: 12/01/98

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SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-8

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 09:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Digestion for Acid-Extractable Metals Method 3030 C ** Analyzed by: ML Date: 11/13/98 11:30:00	11/13/03		
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: JB Date: 11/16/98 18:00:00	11/17/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/17/98 13:00:00	11/17/98		-

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Certificate of Analysis No. L1-9811604-02

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.#
9787214-4675-62252
12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-8

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 09:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Dichlorodifluoromethane	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Trans-1,2-Dichloroethene	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
2-Chloroethylvinyl ether	ND	5.00	ug/L
Trichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Dibromochloromethane	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L

METHOD: 601, Halogenated Volatile Organics
(continued on next page)

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-02

UNOCAL CORPORATION

SAMPLE ID: MW-8

SURROGATES	**% RECOVERY**
Bromochloromethane	110

ANALYZED BY: TD DATE/TIME: 11/18/98 20:42:00
METHOD: 601, Halogenated Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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P.O.#
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12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-8

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 09:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
Anthracene	ND	5	ug/L
Benzidine	ND	42	ug/L
Benzo(a)Anthracene	ND	5	ug/L
Benzo(a)Pyrene	ND	5	ug/L
Benzo(b)Fluoranthene	ND	5	ug/L
Benzo(g,h,i)Perylene	ND	5	ug/L
Benzo(k)Fluoranthene	ND	5	ug/L
4-Bromophenylphenyl ether	ND	5	ug/L
Butylbenzylphthalate	ND	5	ug/L
4-Chloro-3-Methylphenol	ND	5	ug/L
bis(2-Chloroethoxy)Methane	ND	5	ug/L
bis(2-Chloroethyl)Ether	ND	5	ug/L
bis(2-Chloroisopropyl)Ether	ND	5	ug/L
2-Chloronaphthalene	ND	5	ug/L
2-Chlorophenol	ND	5	ug/L
4-Chlorophenylphenyl ether	ND	5	ug/L
Chrysene	ND	5	ug/L
Di-n-Butylphthalate	ND	5	ug/L
Di-n-Octyl Phthalate	ND	5	ug/L
Dibenz(a,h)Anthracene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
3,3'-Dichlorobenzidine	ND	5	ug/L
2,4-Dichlorophenol	ND	5	ug/L
Diethylphthalate	ND	5	ug/L
Dimethyl Phthalate	ND	5	ug/L
2,4-Dimethylphenol	ND	5	ug/L
4,6-Dinitro-2-Methylphenol	ND	21	ug/L
2,4-Dinitrophenol	ND	21	ug/L
2,4-Dinitrotoluene	ND	5	ug/L
2,6-Dinitrotoluene	ND	5	ug/L
bis(2-Ethylhexyl)Phthalate	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Fluorene	ND	5	ug/L
Hexachlorobenzene	ND	5	ug/L

METHOD: USEPA 625

(continued on next page)

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Certificate of Analysis No. L1-9811604-02

UNOCAL CORPORATION

SAMPLE ID: MW-8

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
Hexachlorobutadiene	ND	5	ug/L
Hexachlorocyclopentadiene	ND	10	ug/L
Hexachloroethane	ND	5	ug/L
Indeno(1,2,3-cd)Pyrene	ND	5	ug/L
Isophorone	ND	5	ug/L
N-Nitroso-Di-n-Propylamine	ND	5	ug/L
N-Nitrosodiphenylamine	ND	5	ug/L
Naphthalene	ND	5	ug/L
Nitrobenzene	ND	5	ug/L
2-Nitrophenol	ND	5	ug/L
4-Nitrophenol	ND	21	ug/L
Pentachlorophenol	ND	21	ug/L
Phenanthrene	ND	5	ug/L
Phenol	ND	5	ug/L
Pyrene	ND	5	ug/L
1,2,4-Trichlorobenzene	ND	5	ug/L
2,4,6-Trichlorophenol	ND	5	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
2-Fluorobiphenyl	50 ug/L	79	43	116
2-Fluorophenol	75 ug/L	50	21	110
Nitrobenzene-d5	50 ug/L	71	35	114
Phenol-d5	75 ug/L	40	10	110
Terphenyl-d14	50 ug/L	83	33	141
2,4,6-Tribromophenol	75 ug/L	84	10	123
2-Chlorophenol-d4	75 ug/L	76	33	110
1,2-Dichlorobenzene-d4	50 ug/L	79	16	110

ANALYZED BY: BTG DATE/TIME: 11/18/98 22:10:00
EXTRACTED BY: ADS DATE/TIME: 11/17/98 17:00:00
METHOD: USEPA 625
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

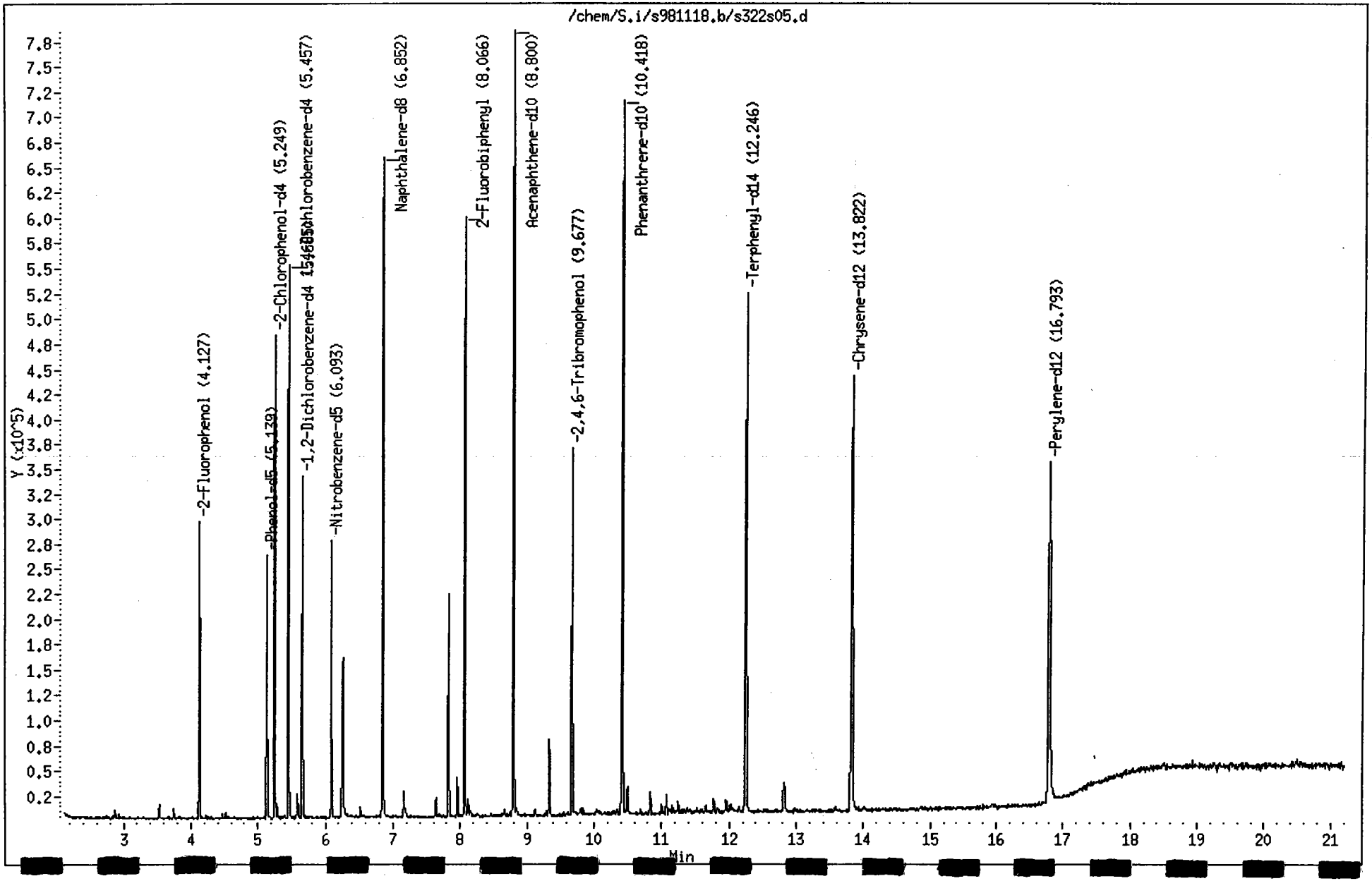
COMMENTS: Method 625 Assodicated Blank:S322B02 File ID:S322S05

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem/S.i/s981118.b/s322s05.d
Date : 18-NOV-1998 22:10
Client ID:
Sample Info: 9811604-02G-625/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: S.i

Operator: SEN
Column diameter: 0.25



Data File: /chem/msd/s981118.b/s322s05.d
Report Date: 10-Nov-1998 11:58

LAFAYETTE LABORATORY
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SPL Laboratories

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id:
Operator : SEN
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: s981118

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 3274-29-1	Heptanoic acid, 2-ethyl-	6.268	16	NJ
2. 102-76-1	Triacetin	7.832	11	NJ
3. 637-64-9	2-Furanmethanol, tetrahydro	9.339	4	NJ

Data File: /chem/S.i/s981118.b/s322s05.d

Date : 18-NOV-98 22:10

Client ID:

Instrument: S.i

Sample Info: 9811604-02G-625/1X;1;1

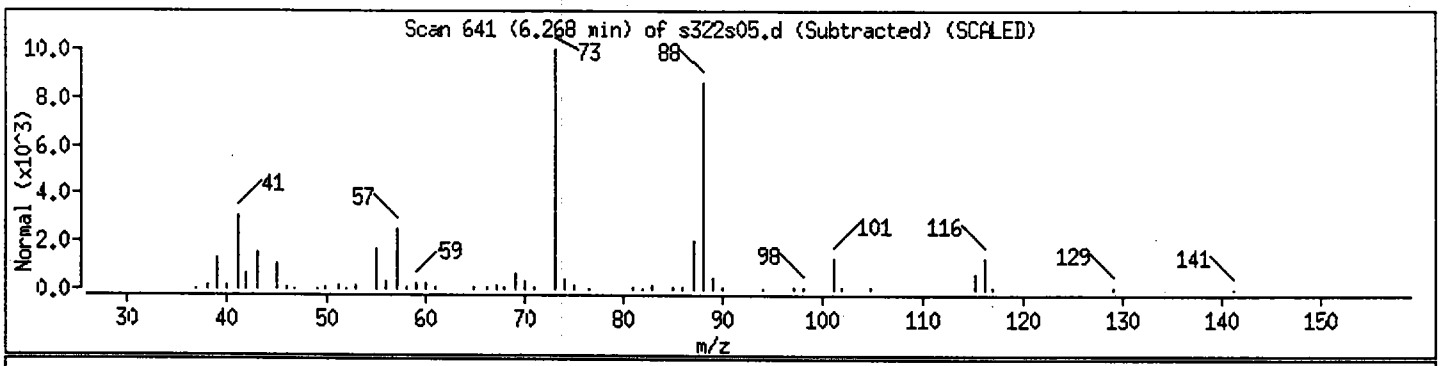
Volume Injected (uL): 1.0

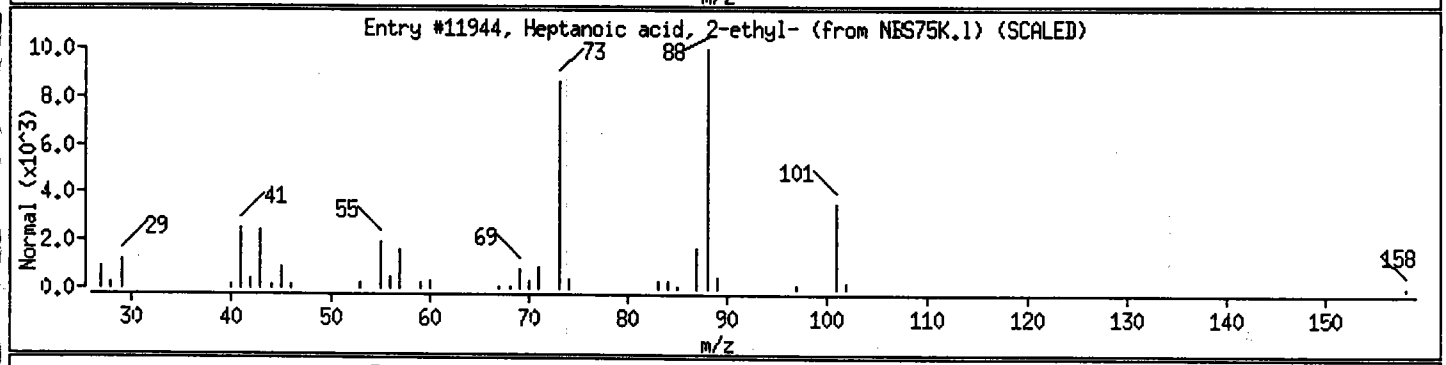
Operator: SEN

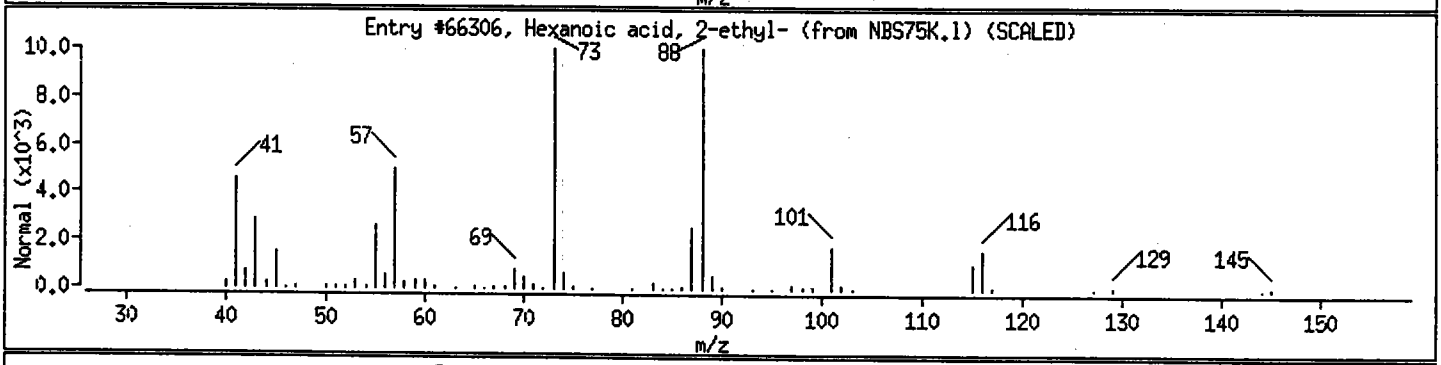
Column phase: 5% Phenyl methyl-Si

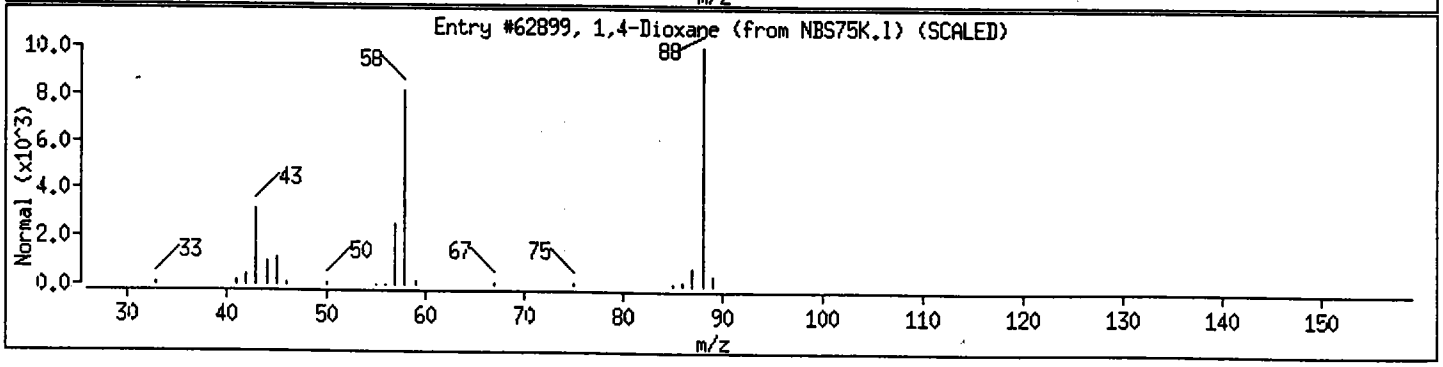
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptanoic acid, 2-ethyl-	3274-29-1	NBS75K.l	11944	64	C9H18O2	158
Hexanoic acid, 2-ethyl-	149-57-5	NBS75K.l	66306	56	C8H16O2	144
1,4-Dioxane	123-91-1	NBS75K.l	62899	46	C4H8O2	88









Data File: /chem/S.i/s981118.b/s322s05.d

Date : 18-NOV-98 22:10

Client ID:

Instrument: S.i

Sample Info: 9811604-02G-625/1X;1;1

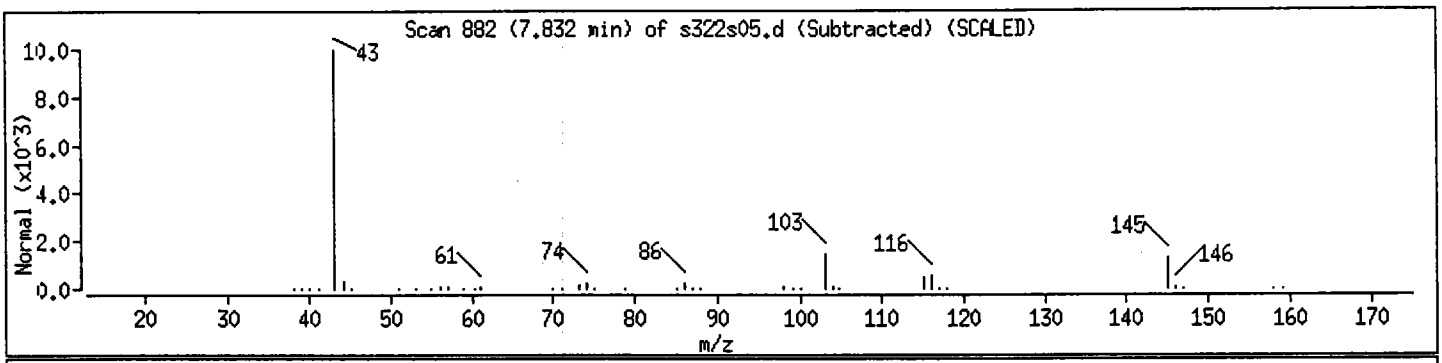
Volume Injected (uL): 1.0

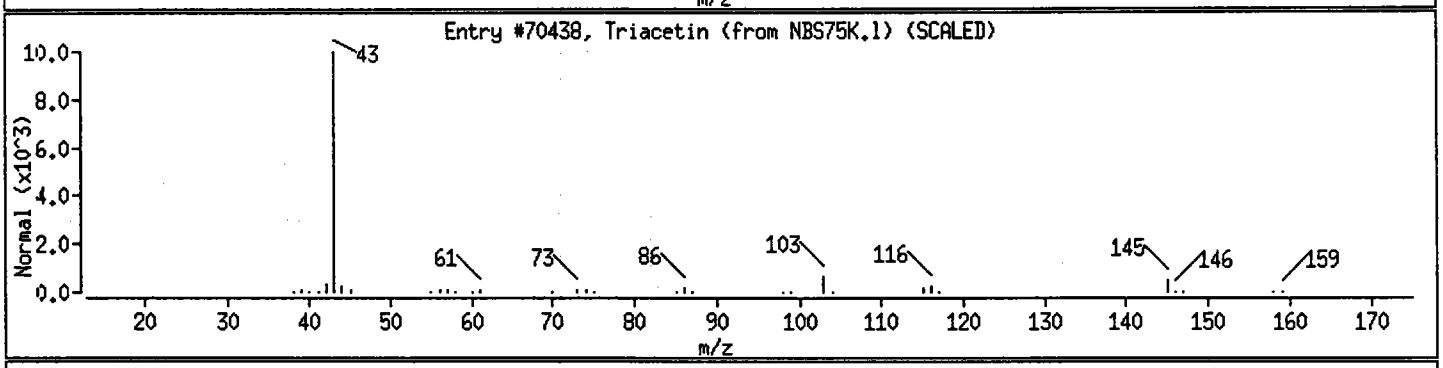
Operator: SEN

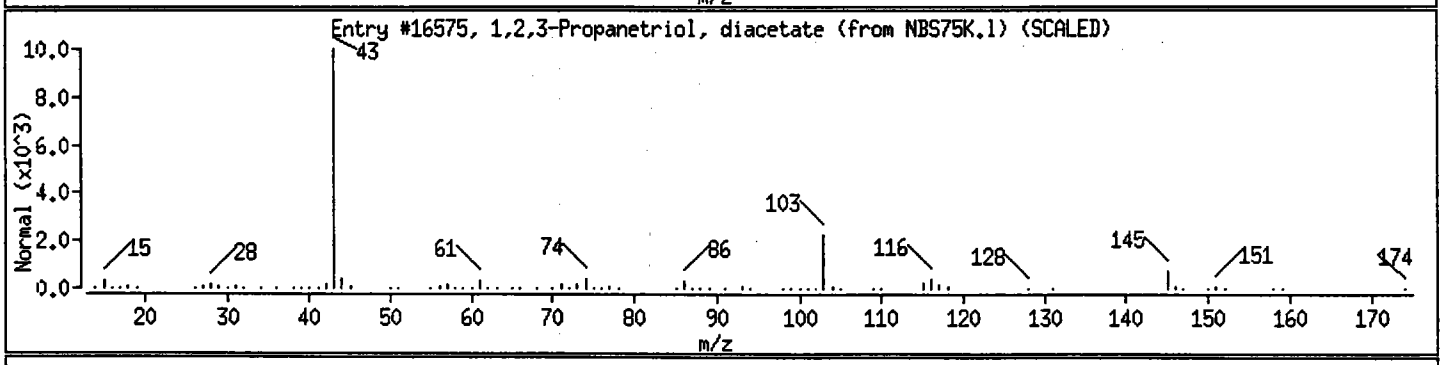
Column phase: 5% Phenyl methyl-Si

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Triacetin	102-76-1	NBS75K.l	70438	74	C9H1406	218
1,2,3-Propanetriol, diacetate	25395-31-7	NBS75K.l	16575	40	C7H1205	176







Data File: /chem/S.i/s981118.b/s322s05.d

Date : 18-NOV-98 22:10

Client ID:

Instrument: S.i

Sample Info: 9811604-02G-625/1X;1;1

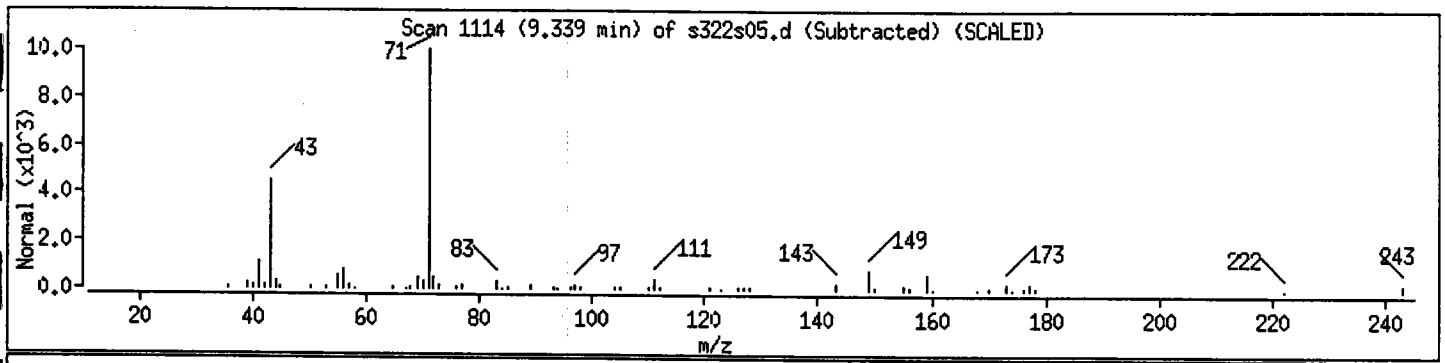
Volume Injected (uL): 1.0

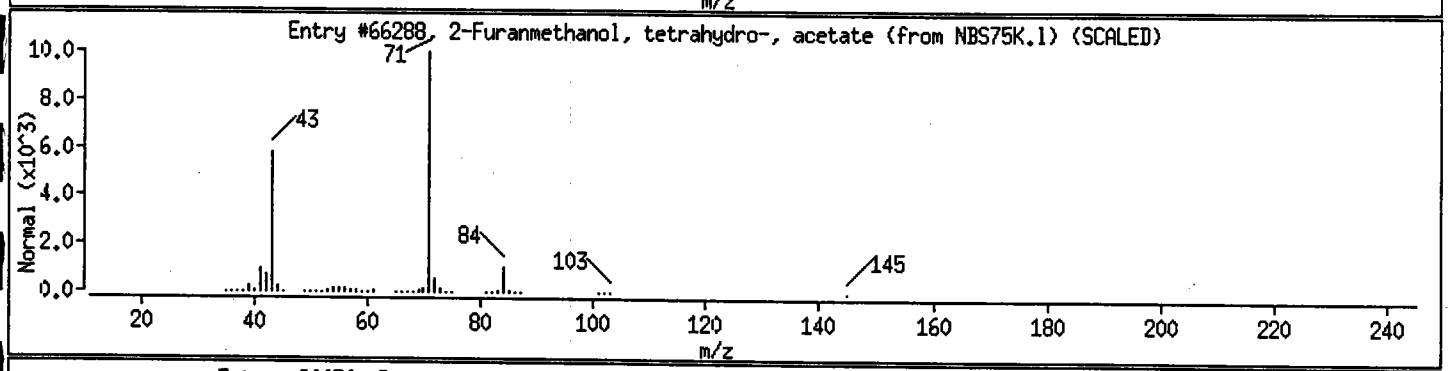
Operator: SEN

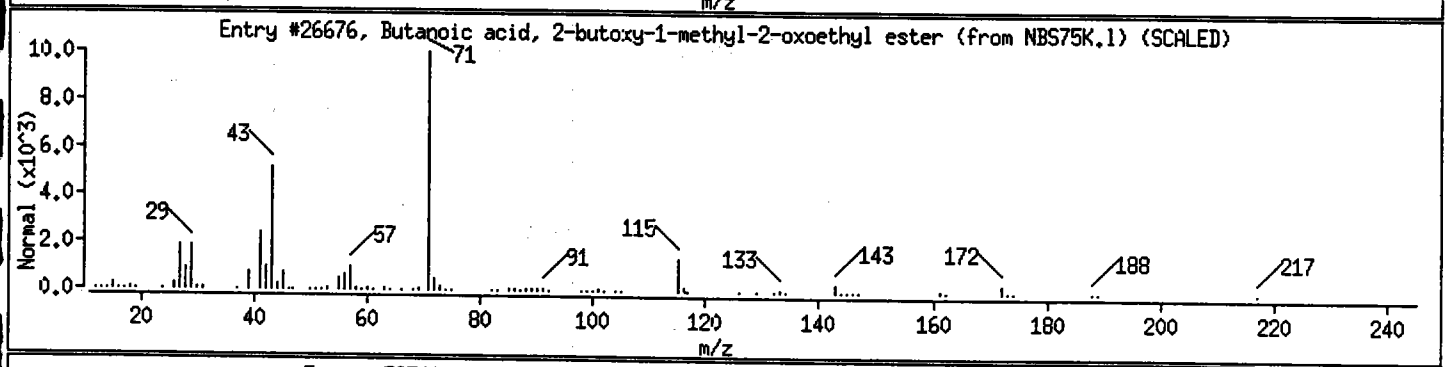
Column phase: 5% Phenyl methyl-Si

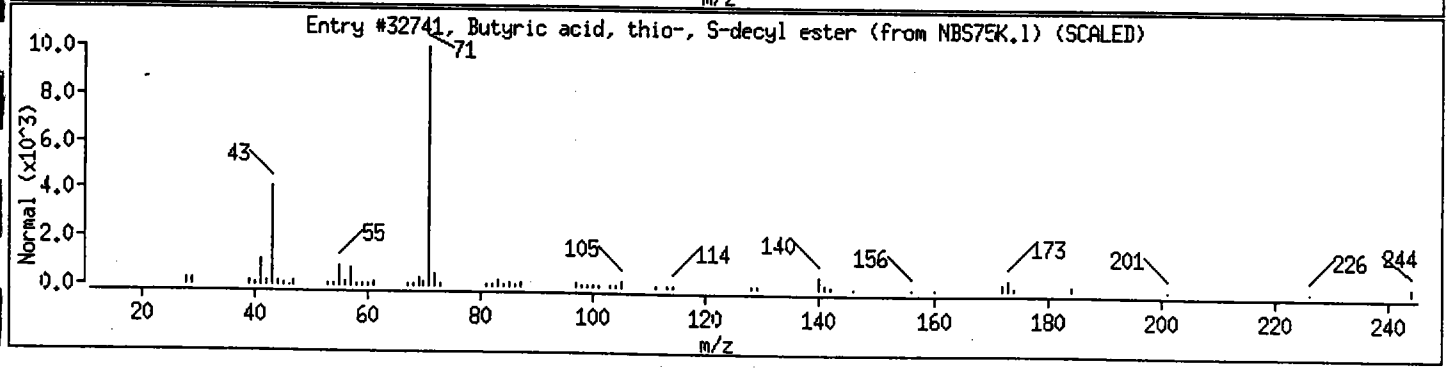
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Furanmethanol, tetrahydro-, acetate	637-64-9	NBS75K.l	66288	45	C7H12O3	144
Butanoic acid, 2-butoxy-1-methyl-2-oxoet	7492-70-8	NBS75K.l	26676	38	C11H20O4	216
Butyric acid, thio-, S-decyl ester	2432-55-5	NBS75K.l	32741	38	C14H28OS	244









LAFAYETTE LABORATORY
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SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
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Certificate of Analysis No. L1-9811604-03

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-3

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 10:00:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	25	8 P	ug/L
ISOPROPYL ETHER	30	8 P	ug/L
BENZENE	5.3	1 P	ug/L
TOLUENE	ND	1 P	ug/L
ETHYLBENZENE	ND	1 P	ug/L
TOTAL XYLENE	ND	1 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	5.3		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	73		
4-Bromofluorobenzene	90		
Method 602 40 CFR PART 136			
Analyzed by: TD			
Date: 11/15/98			
1,2-Dibromoethane	ND	0.02 P	ug/L
Surrogate	**% Recovery**		
1-Chloro-2-Fluorobenzene	130		
Method 504 Revision 2.0			
Analyzed by: SM			
Date: 11/17/98			
Unadjusted Aliphatics C9-C18	0.13	0.087 P	mg/L
Unadjusted Aliphatics C19-C36	ND	0.181 P	mg/L
Surrogate	**% Recovery**		
Chloro-octa-decane	53		

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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P.O.#
9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-3

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 10:00:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Unadjusted Aromatics C11-C22	ND	0.38 P	mg/L
Surrogate	**% Recovery**		
2-Bromonaphthalene			
o-Terphenyl	59		
2-Fluorobiphenyl			
Method MA EPH			
Analyzed by: OL			
Date: 11/20/98			
Unadjusted Aliphatics C5-C8	0.28	0.25 P	mg/L
Unadjusted Aliphatics C9-C12	ND	0.25 P	mg/L
Unadjusted Aromatics C9-C10	ND	0.25 P	mg/L
Surrogate	**% Recovery**		
2,5-Dibromotoluene	97		
Method MA VPH			
Analyzed by: TD			
Date: 11/22/98			
Micro-extraction	11/17/98		
Method 504 Revision 2			
Analyzed by: CB			
Date: 11/17/98 11:00:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-3

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 10:00:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Lead, Total Method 239.2 * Analyzed by: DD Date: 11/16/98 10:05:00	ND	0.002	mg/L
Digestion for Acid-Extractable Metals Method 3030 C ** Analyzed by: ML Date: 11/13/98 11:30:00	11/13/03		
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: JB Date: 11/16/98 18:00:00	11/17/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/17/98 13:00:00	11/17/98		-

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-3

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 10:00:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Dichlorodifluoromethane	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Trans-1,2-Dichloroethene	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
2-Chloroethylvinyl ether	46	5.00	ug/L
Trichloroethene	ND	5.00	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Dibromochloromethane	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L

METHOD: 601, Halogenated Volatile Organics
(continued on next page)

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FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-03

UNOCAL CORPORATION

SAMPLE ID: MW-3

SURROGATES	**% RECOVERY**
Bromochloromethane	106

ANALYZED BY: TD DATE/TIME: 11/18/98 21:25:00
METHOD: 601, Halogenated Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-03

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.#
9787214-4675-62252
12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: MW-3

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 10:00:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
Anthracene	ND	5	ug/L
Benzidine	ND	41	ug/L
Benzo(a)Anthracene	ND	5	ug/L
Benzo(a)Pyrene	ND	5	ug/L
Benzo(b)Fluoranthene	ND	5	ug/L
Benzo(g,h,i)Perylene	ND	5	ug/L
Benzo(k)Fluoranthene	ND	5	ug/L
4-Bromophenylphenyl ether	ND	5	ug/L
Butylbenzylphthalate	ND	5	ug/L
4-Chloro-3-Methylphenol	ND	5	ug/L
bis(2-Chloroethoxy)Methane	ND	5	ug/L
bis(2-Chloroethyl)Ether	ND	5	ug/L
bis(2-Chloroisopropyl)Ether	ND	5	ug/L
2-Chloronaphthalene	ND	5	ug/L
2-Chlorophenol	ND	5	ug/L
4-Chlorophenylphenyl ether	ND	5	ug/L
Chrysene	ND	5	ug/L
Di-n-Butylphthalate	ND	5	ug/L
Di-n-Octyl Phthalate	ND	5	ug/L
Dibenz(a,h)Anthracene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
3,3'-Dichlorobenzidine	ND	5	ug/L
2,4-Dichlorophenol	ND	5	ug/L
Diethylphthalate	ND	5	ug/L
Dimethyl Phthalate	ND	5	ug/L
2,4-Dimethylphenol	ND	5	ug/L
4,6-Dinitro-2-Methylphenol	ND	20	ug/L
2,4-Dinitrophenol	ND	20	ug/L
2,4-Dinitrotoluene	ND	5	ug/L
2,6-Dinitrotoluene	ND	5	ug/L
bis(2-Ethylhexyl)Phthalate	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Fluorene	ND	5	ug/L
Hexachlorobenzene	ND	5	ug/L

METHOD: USEPA 625

(continued on next page)

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Certificate of Analysis No. L1-9811604-03

UNOCAL CORPORATION

SAMPLE ID: MW-3

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
Hexachlorobutadiene	ND	5	ug/L
Hexachlorocyclopentadiene	ND	10	ug/L
Hexachloroethane	ND	5	ug/L
Indeno(1,2,3-cd)Pyrene	ND	5	ug/L
Isophorone	ND	5	ug/L
N-Nitroso-Di-n-Propylamine	ND	5	ug/L
N-Nitrosodiphenylamine	ND	5	ug/L
Naphthalene	ND	5	ug/L
Nitrobenzene	ND	5	ug/L
2-Nitrophenol	ND	5	ug/L
4-Nitrophenol	ND	20	ug/L
Pentachlorophenol	ND	20	ug/L
Phenanthrene	ND	5	ug/L
Phenol	ND	5	ug/L
Pyrene	ND	5	ug/L
1,2,4-Trichlorobenzene	ND	5	ug/L
2,4,6-Trichlorophenol	ND	5	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
2-Fluorobiphenyl	50 ug/L	98	43	116
2-Fluorophenol	75 ug/L	52	21	110
Nitrobenzene-d5	50 ug/L	99	35	114
Phenol-d5	75 ug/L	35	10	110
Terphenyl-d14	50 ug/L	96	33	141
2,4,6-Tribromophenol	75 ug/L	108	10	123
2-Chlorophenol-d4	75 ug/L	95	33	110
1,2-Dichlorobenzene-d4	50 ug/L	97	16	110

ANALYZED BY: BTG
DATE/TIME: 11/18/98 22:44:00
EXTRACTED BY: ADS
DATE/TIME: 11/17/98 17:00:00
METHOD: USEPA 625
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

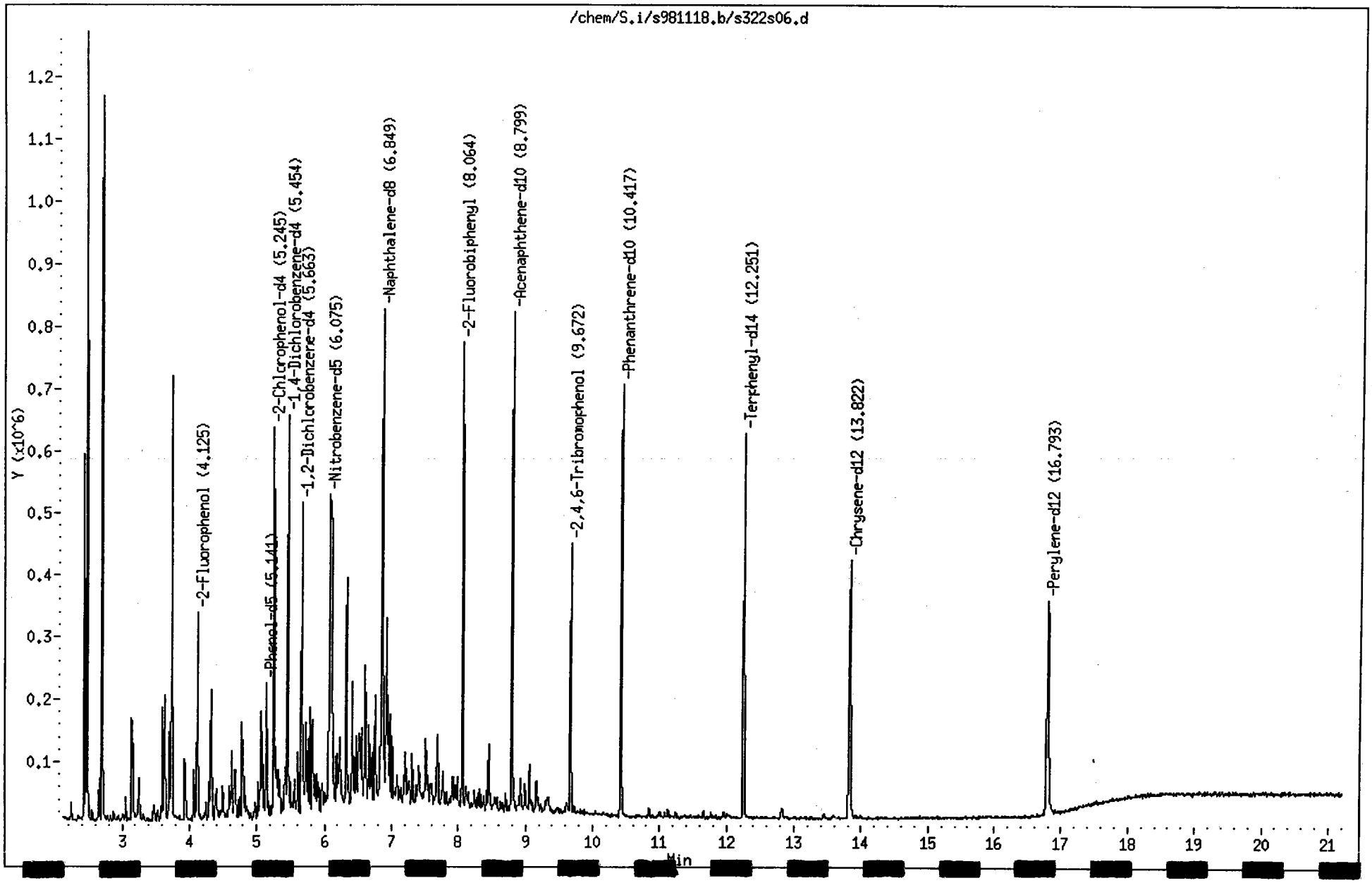
COMMENTS: Method 625 Assodicated Blank:S322B02 File ID:S322S06

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem/S.i/s981118.b/s322s06.d
Date : 18-NOV-1998 22:44
Client ID:
Sample Info: 9811604-03G-625/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: S.i

Operator: SEN
Column diameter: 0.25



LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-04

UNOCAL CORPORATION

SAMPLE ID: DMW-5

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
Hexachlorobutadiene	ND	5	ug/L
Hexachlorocyclopentadiene	ND	10	ug/L
Hexachloroethane	ND	5	ug/L
Indeno(1,2,3-cd)Pyrene	ND	5	ug/L
Isophorone	ND	5	ug/L
N-Nitroso-Di-n-Propylamine	ND	5	ug/L
N-Nitrosodiphenylamine	ND	5	ug/L
Naphthalene	ND	5	ug/L
Nitrobenzene	ND	5	ug/L
2-Nitrophenol	ND	5	ug/L
4-Nitrophenol	ND	20	ug/L
Pentachlorophenol	ND	20	ug/L
Phenanthrene	ND	5	ug/L
Phenol	ND	5	ug/L
Pyrene	ND	5	ug/L
1,2,4-Trichlorobenzene	ND	5	ug/L
2,4,6-Trichlorophenol	ND	5	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
2-Fluorobiphenyl	50 ug/L	86	43	116
2-Fluorophenol	75 ug/L	46	21	110
Nitrobenzene-d5	50 ug/L	78	35	114
Phenol-d5	75 ug/L	33	10	110
Terphenyl-d14	50 ug/L	84	33	141
2,4,6-Tribromophenol	75 ug/L	80	10	123
2-Chlorophenol-d4	75 ug/L	82	33	110
1,2-Dichlorobenzene-d4	50 ug/L	82	16	110

ANALYZED BY: BTG DATE/TIME: 11/18/98 23:18:00
EXTRACTED BY: ADS DATE/TIME: 11/17/98 17:00:00
METHOD: USEPA 625
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

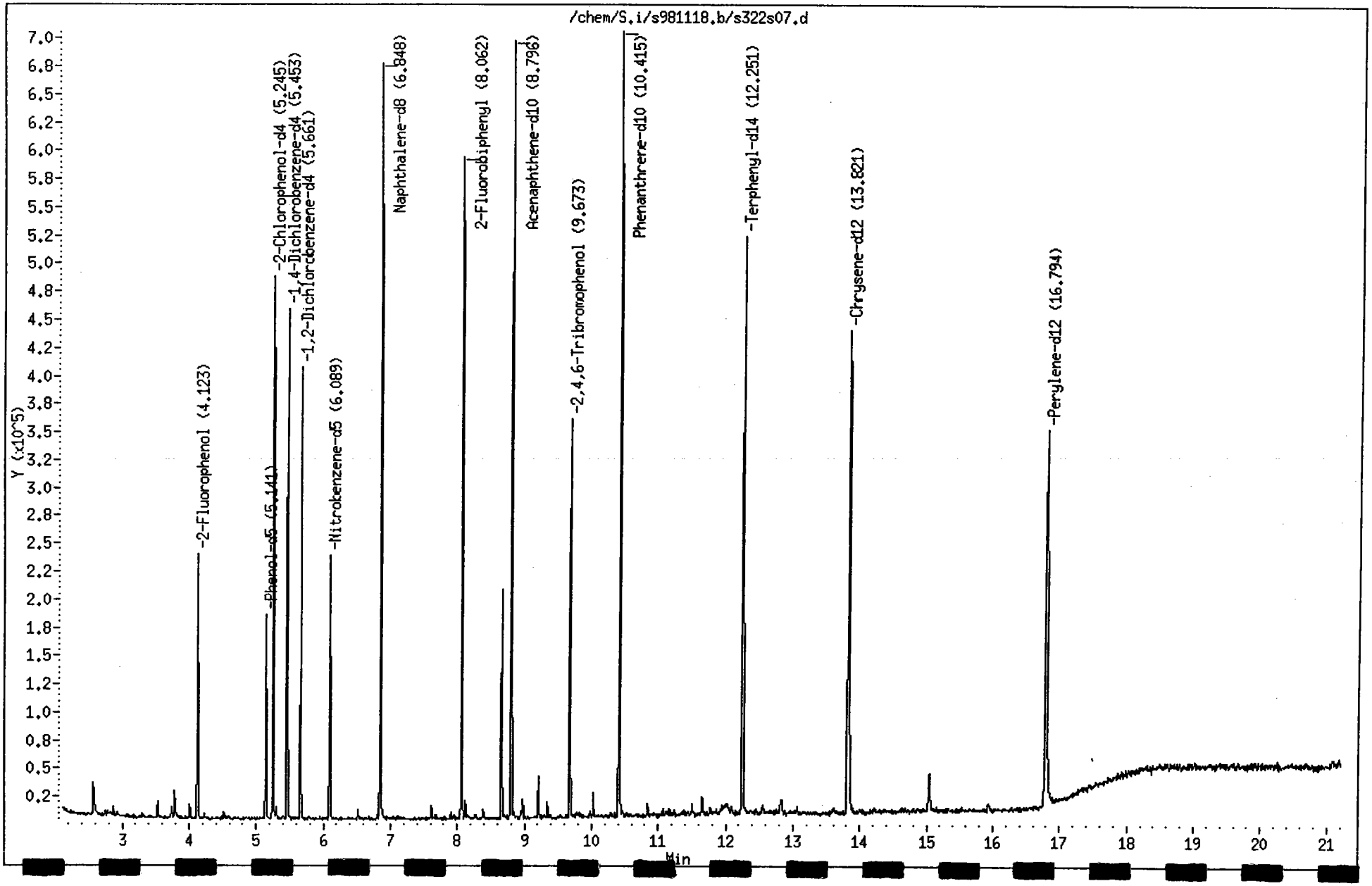
COMMENTS: Method 625 Assodicated Blank:S322B02 File ID:S322S07

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem/S.i/s981118.b/s322s07.d
Date : 18-NOV-1998 23:18
Client ID:
Sample Info: 9811604-04G-625/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: S.i

Operator: SEN
Column diameter: 0.25



Data File: /chem/ms/s981118.b/s322s07.d
Report Date: 10-Nov-1998 11:58

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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PHONE (318) 237-4775
FAX (318) 237-8005

SPL Laboratories

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id:
Operator : SEN
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: s981118

Sample Date:
Sample Point:
Date Received:
Level: LOW

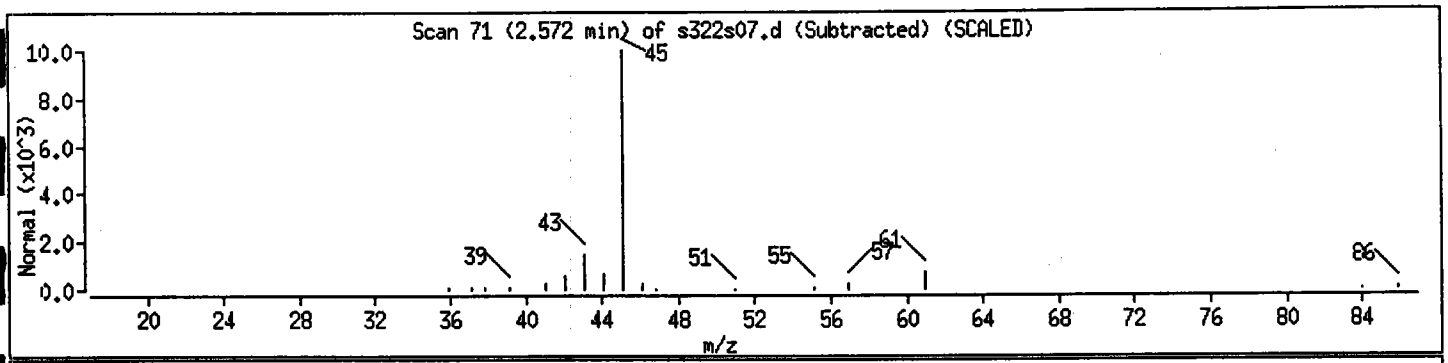
Number TICs found: 1

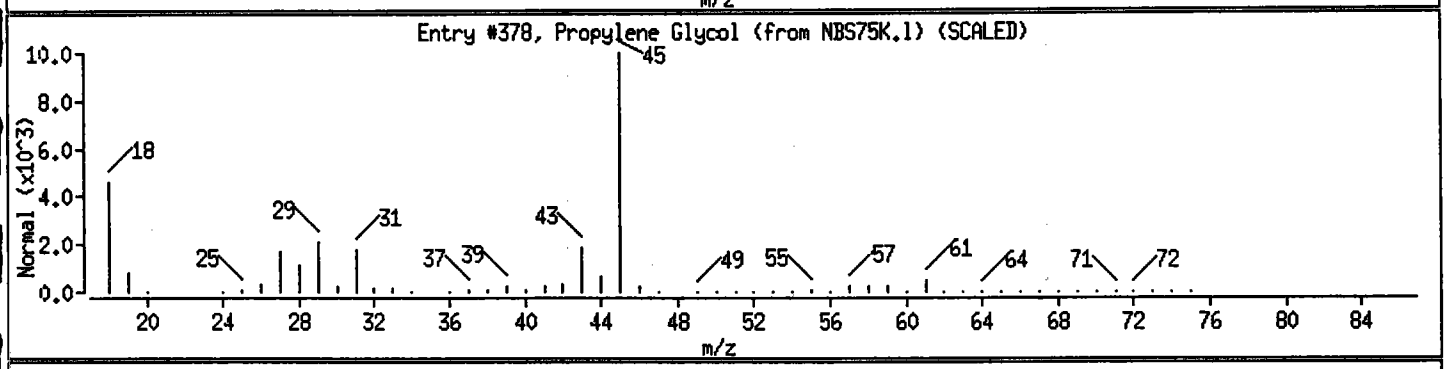
CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 57-55-6	Propylene Glycol	2.572	5	NJ

Data File: /chem/S.i/s981118.b/s322s07.d
Date : 18-NOV-98 23:18
Client ID:
Instrument: S.i
Sample Info: 9811604-04G-625/1X;1;1
Volume Injected (uL): 1.0
Operator: SEN
Column phase: 5% Phenyl methyl-Si
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propylene Glycol	57-55-6	NBS75K.1	378	64	C3H8O2	76





Data File: /chem/[illegible].i/s981118.b/s322s06.d
Report Date: 20-Nov-1998 11:58

LAFAYETTE LABORATORY
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FAX (318) 237-8005

SPL Laboratories

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id:
Operator : SEN
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: s981118

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 594-60-5	2-Butanol, 2,3-dimethyl-	2.422	41	NJ
2. 590-36-3	2-Pentanol, 2-methyl-	2.461	86	NJ
3. 77-74-7	3-Pentanol, 3-methyl-	2.695	84	NJ
4. 597-96-6	3-Hexanol, 3-methyl-	3.735	57	NJ
5. 590-67-0	Cyclohexanol, 1-methyl-	4.321	19	NJ
6. 527-53-7	Benzene, 1,2,3,5-tetramethy	6.324	16	NJ
7. 5455-94-7	2,2,5,5-Tetramethyltetrahyd	6.416	10	NJ
8. 824-22-6	1H-Indene, 2,3-dihydro-4-me	6.600	10	NJ
9. 2049-95-8	Benzene, (1,1-dimethylpropy	6.757	9	NJ
10. 98-51-1	4-tert-Butyltoluene	6.922	12	NJ

Data File: /chem/S.i/s981118.b/s322s06.d

Date : 18-NOV-98 22:44

Client ID:

Instrument: S.i

Sample Info: 9811604-03G-625/1X;1;1

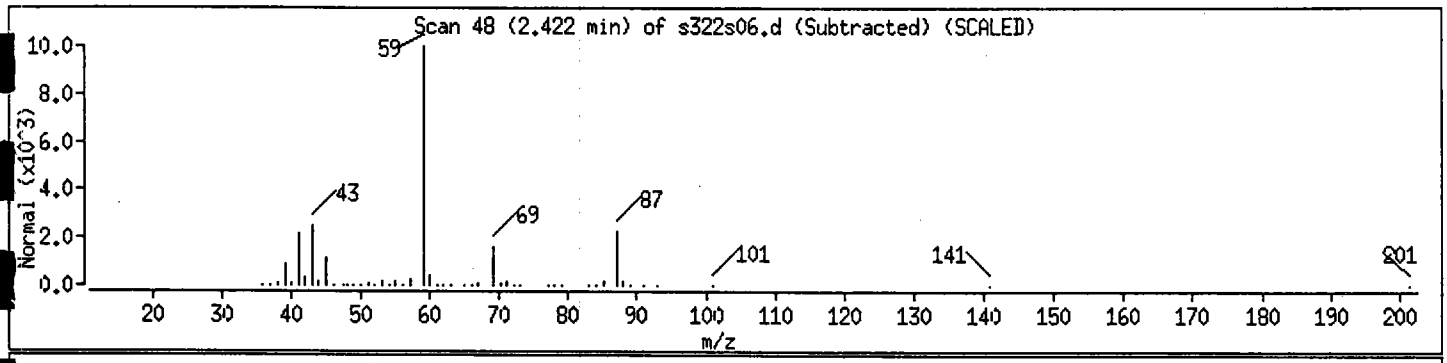
Volume Injected (uL): 1.0

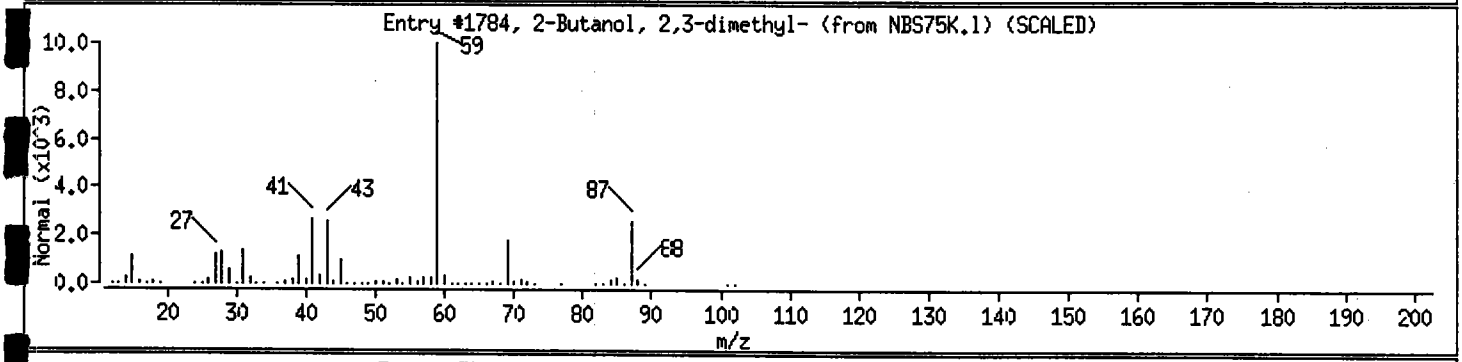
Operator: SEN

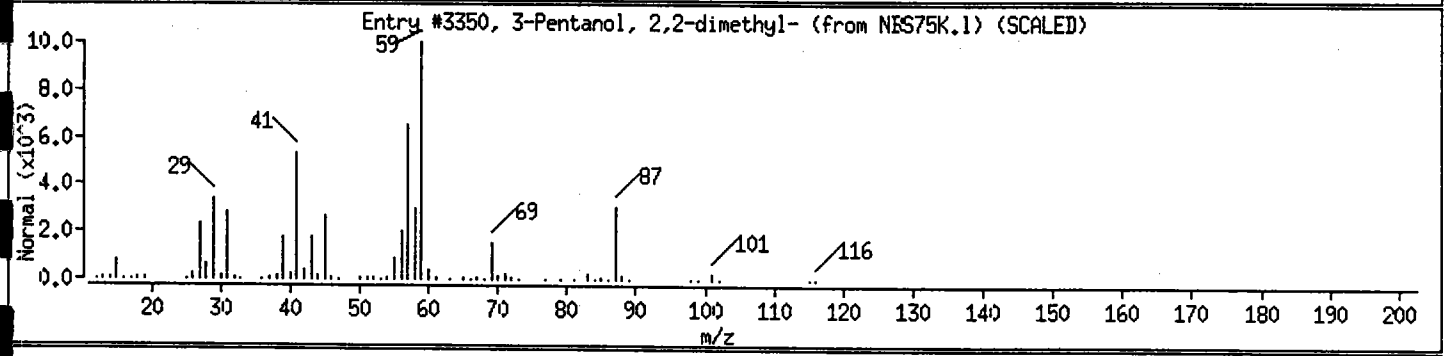
Column phase: 5% Phenyl methyl-Si

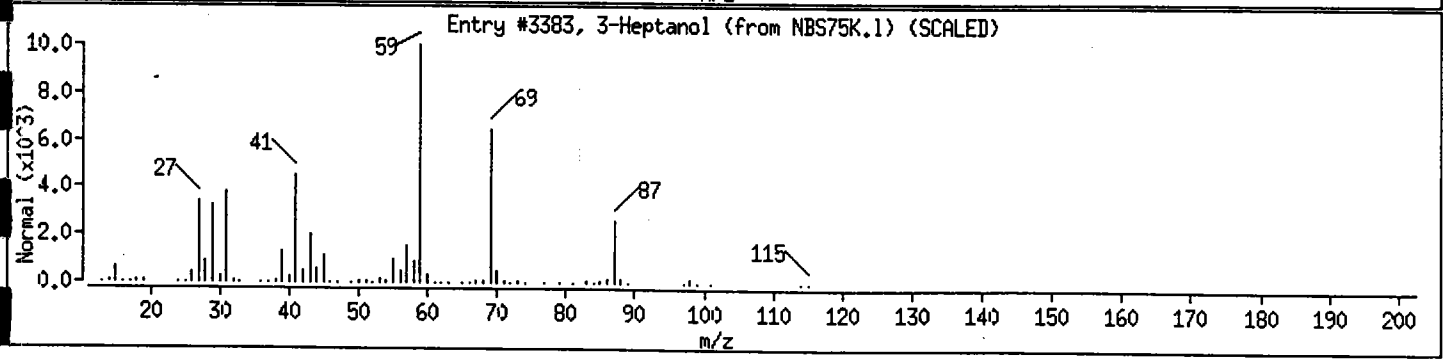
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butanol, 2,3-dimethyl-	594-60-5	NBS75K.l	1784	83	C6H14O	102
3-Pentanol, 2,2-dimethyl-	3970-62-5	NBS75K.l	3350	40	C7H16O	116
3-Heptanol	589-82-2	NBS75K.l	3383	40	C7H16O	116









Data File: /chem/S.i/s981118.b/s322s06.d

Date : 18-NOV-98 22:44

Client ID:

Instrument: S.i

Sample Info: 9811604-03G-625/1X;1;1

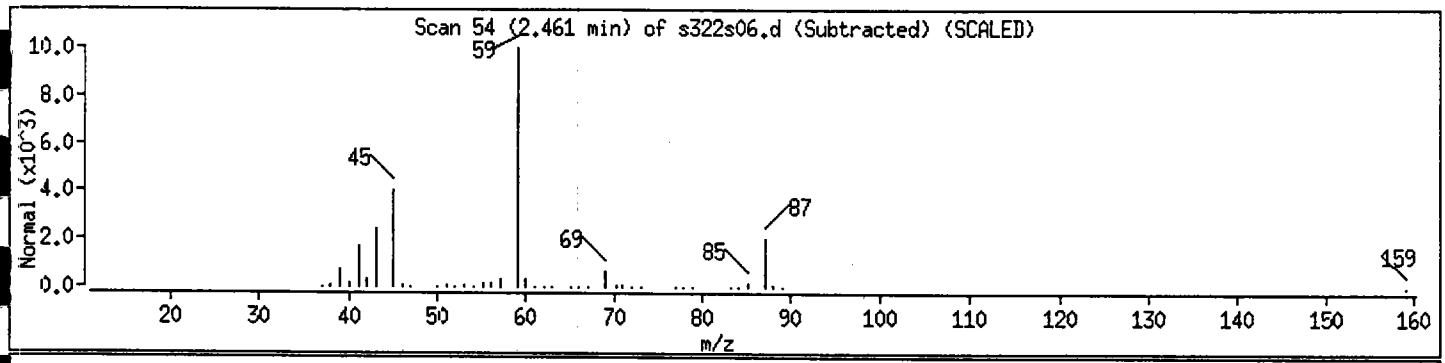
Volume Injected (uL): 1.0

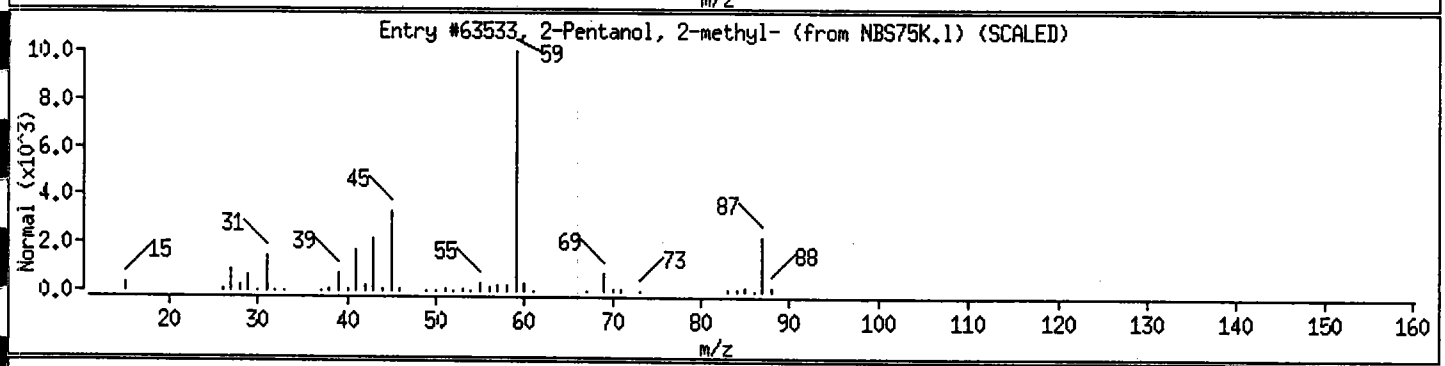
Operator: SEN

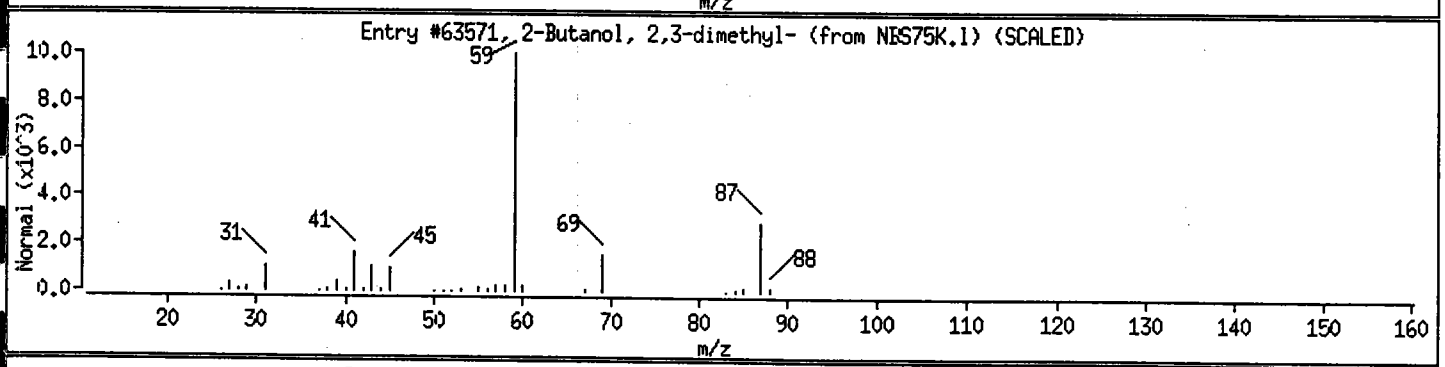
Column phase: 5% Phenyl methyl-Si

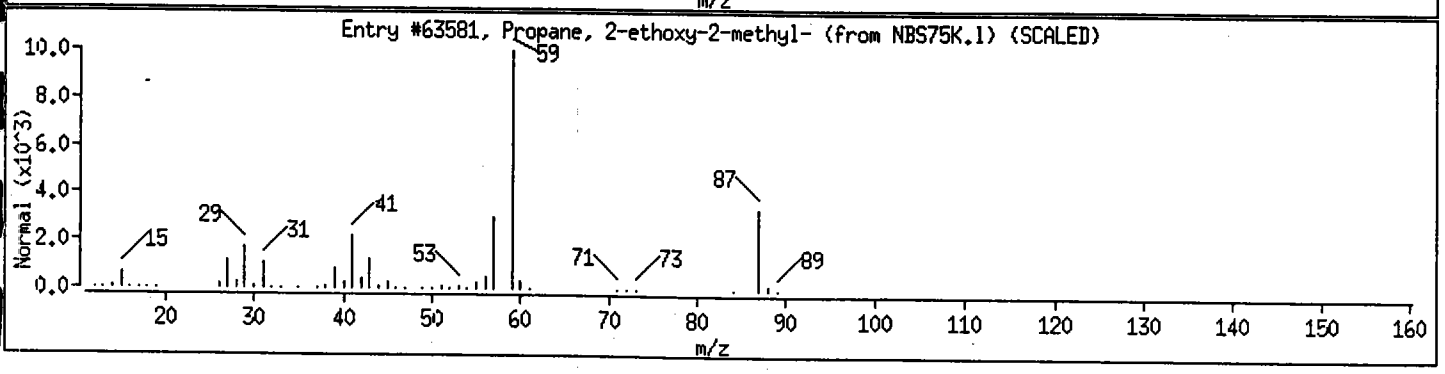
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanol, 2-methyl-	590-36-3	NBS75K.l	63533	83	C6H14O	102
2-Butanol, 2,3-dimethyl-	594-60-5	NBS75K.l	63571	59	C6H14O	102
Propane, 2-ethoxy-2-methyl-	637-92-3	NBS75K.l	63581	50	C6H14O	102









Data File: /chem/S.i/s981118.b/s322s06.d

Date : 18-NOV-98 22:44

Client ID:

Instrument: S.i

Sample Info: 9811604-03G-625/1X;1;1

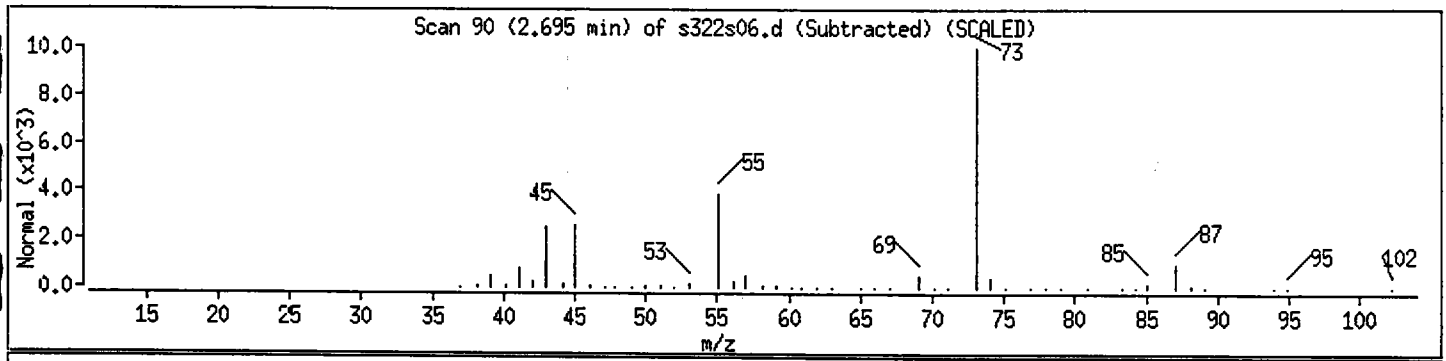
Volume Injected (uL): 1.0

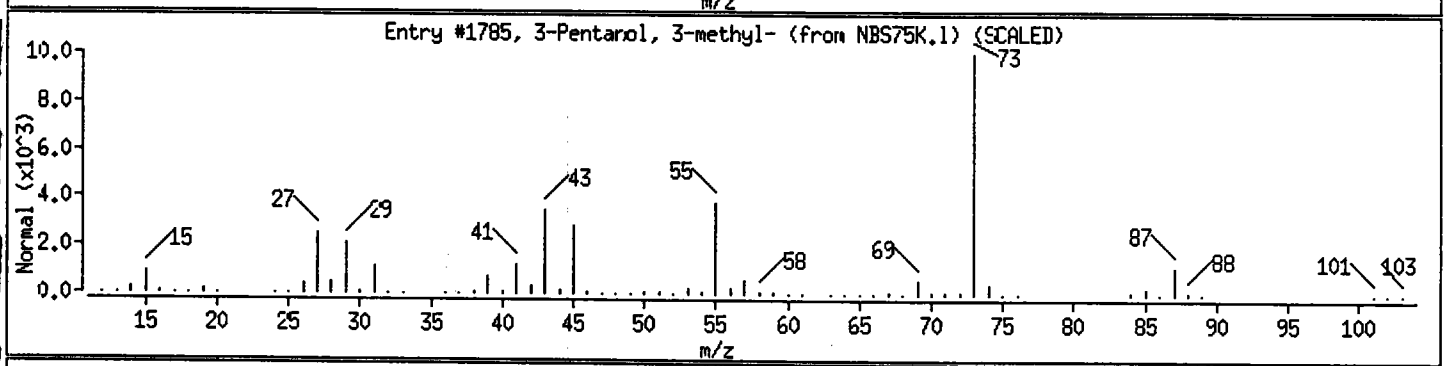
Operator: SEN

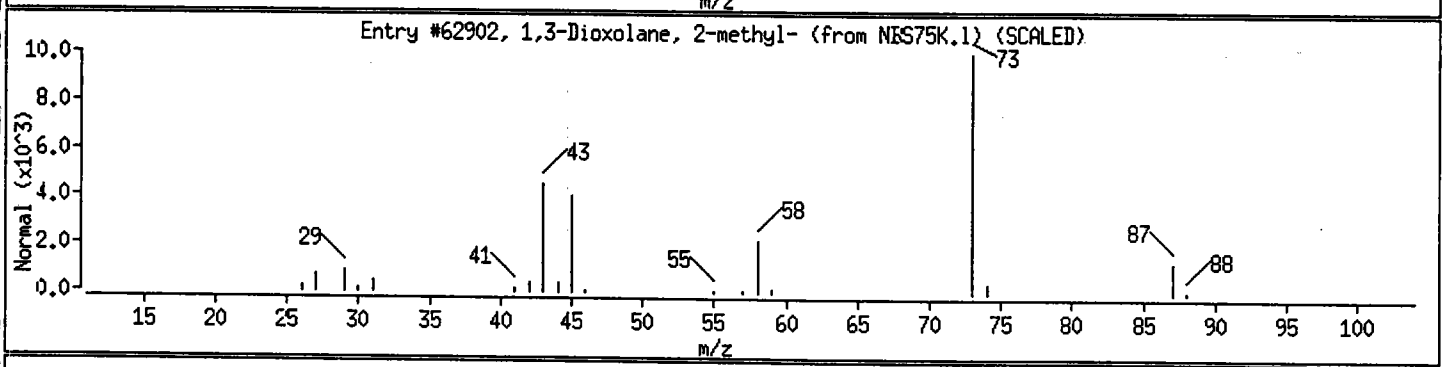
Column phase: 5% Phenyl methyl-Si

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Pentanol, 3-methyl-	77-74-7	NBS75K.l	1785	83	C6H14O	102
1,3-Dioxolane, 2-methyl-	497-26-7	NBS75K.l	62902	25	C4H8O2	88







Data File: /chem/S.i/s981118.b/s322s06.d

Date : 18-NOV-98 22:44

Client ID:

Instrument: S.i

Sample Info: 9811604-03G-625/1X;1;1

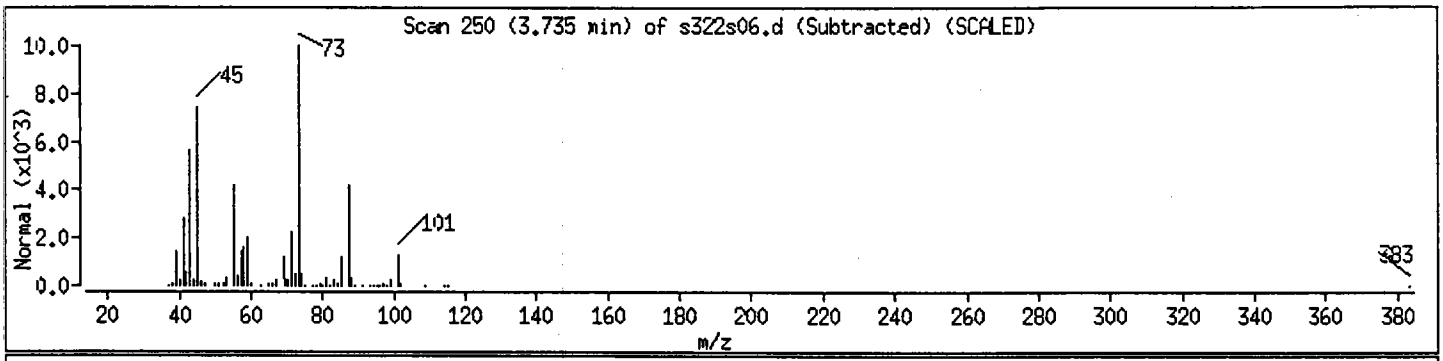
Volume Injected (uL): 1.0

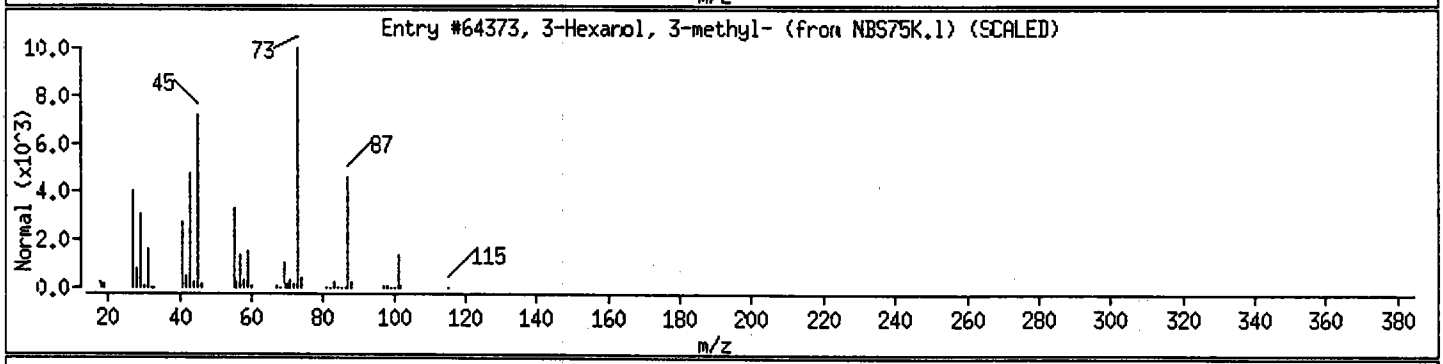
Operator: SEN

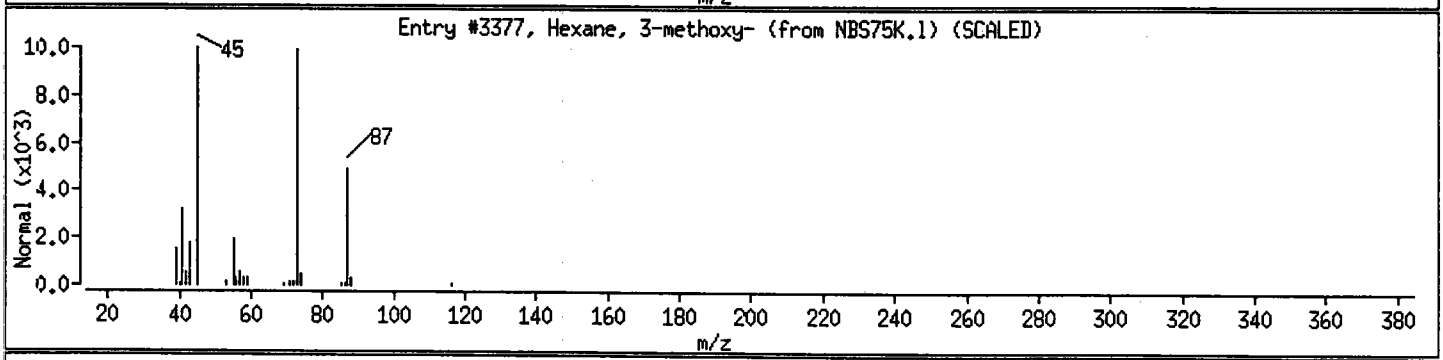
Column phase: 5% Phenyl methyl-Si

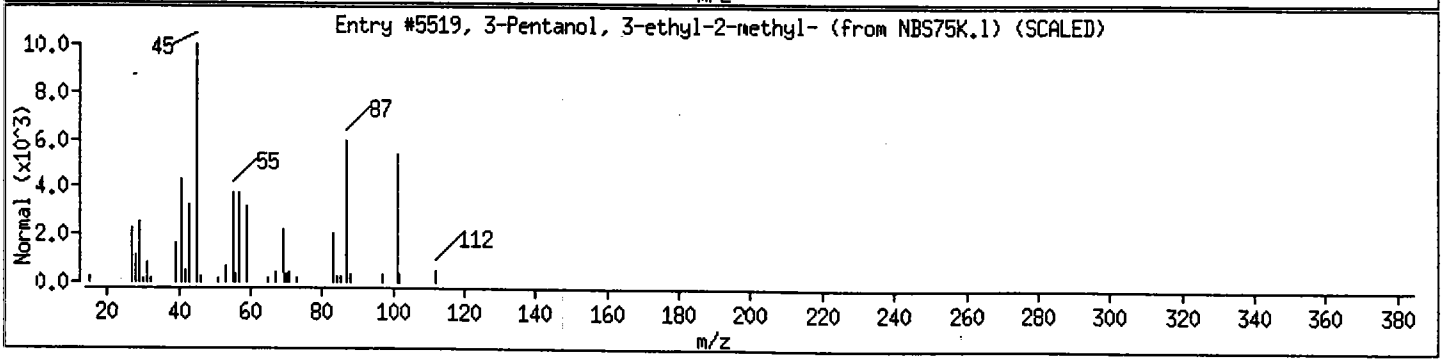
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Hexanol, 3-methyl-	597-96-6	NBS75K.l	64373	72	C7H16O	116
Hexane, 3-methoxy-	54658-01-4	NBS75K.l	3377	50	C7H16O	116
3-Pentanol, 3-ethyl-2-methyl-	597-05-7	NBS75K.l	5519	42	C8H18O	130









Data File: /chem/S.i/s981118.b/s322s06.d

Date : 18-NOV-98 22:44

Client ID:

Instrument: S.i

Sample Info: 9811604-03G-625/1X;1;1

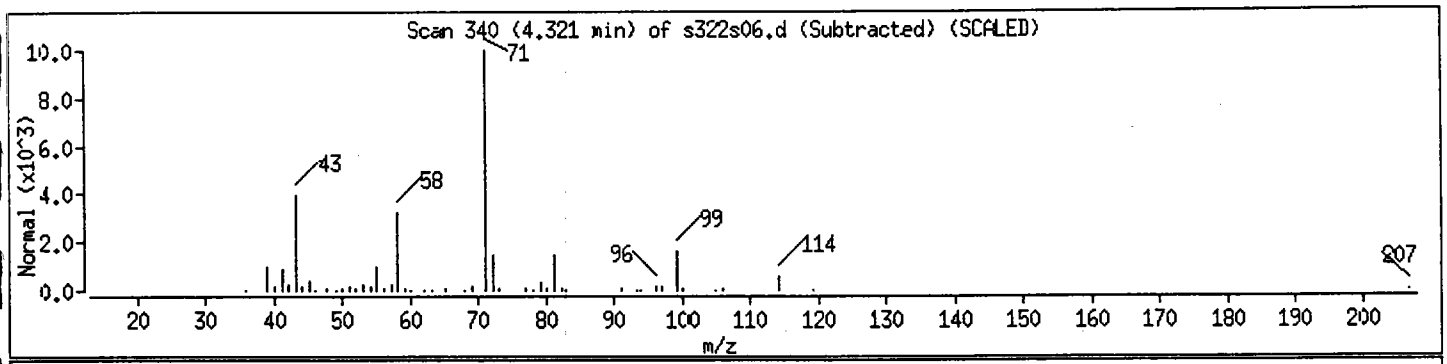
Volume Injected (uL): 1.0

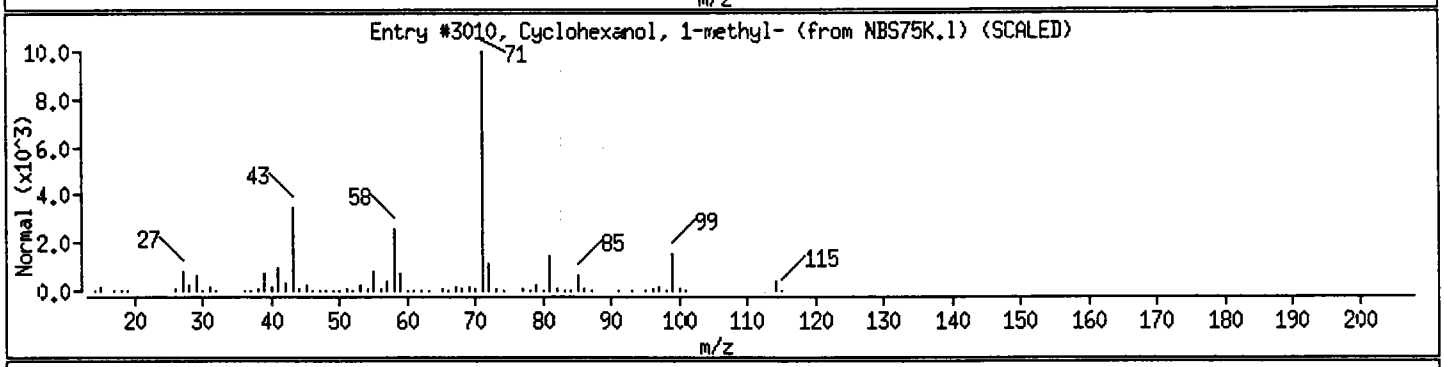
Operator: SEN

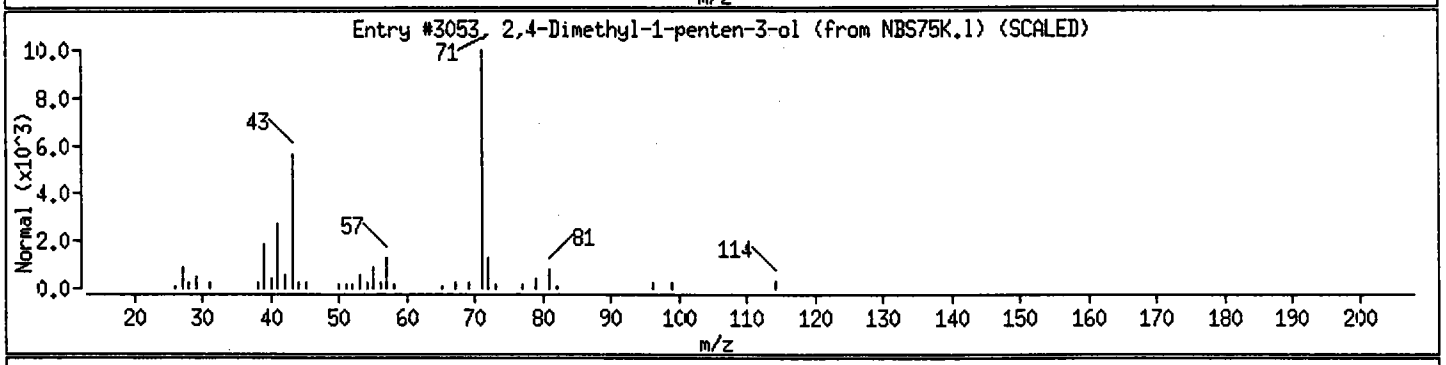
Column phase: 5% Phenyl methyl-Si

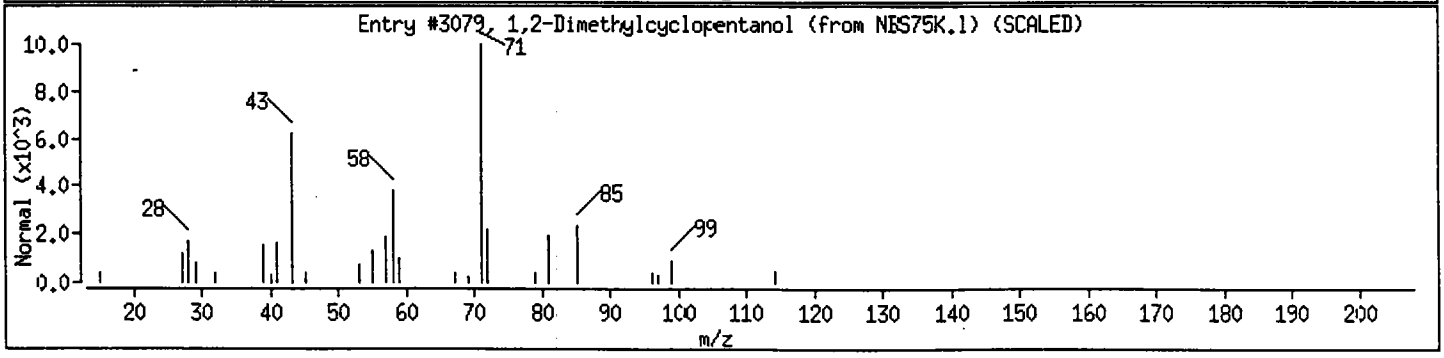
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexanol, 1-methyl-	590-67-0	NBS75K.l	3010	86	C7H14O	114
2,4-Dimethyl-1-penten-3-ol	19781-54-5	NBS75K.l	3053	59	C7H14O	114
1,2-Dimethylcyclopentanol	19550-45-9	NBS75K.l	3079	38	C7H14O	114









Data File: /chem/S.i/s981118.b/s322s06.d

Date : 18-NOV-98 22:44

Client ID:

Instrument: S.i

Sample Info: 9811604-03G-625/1X;1;1

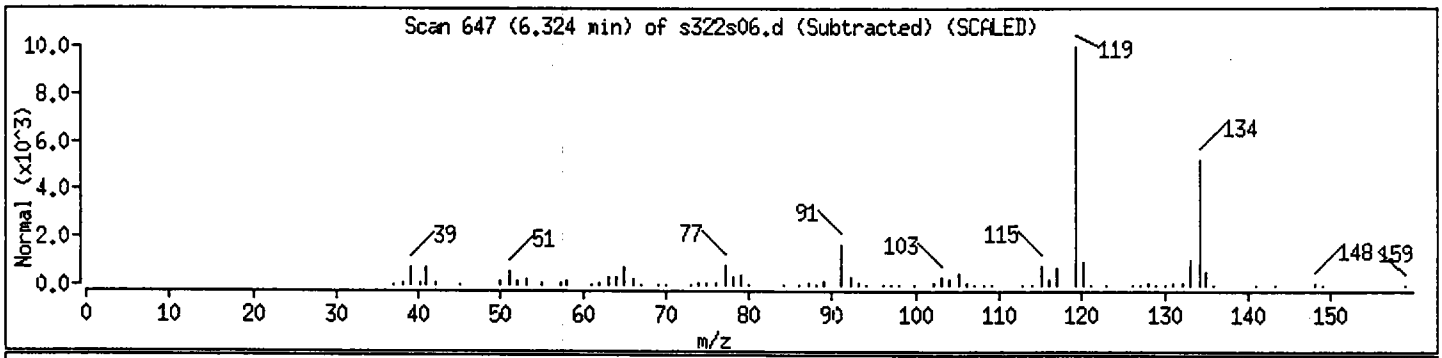
Volume Injected (uL): 1.0

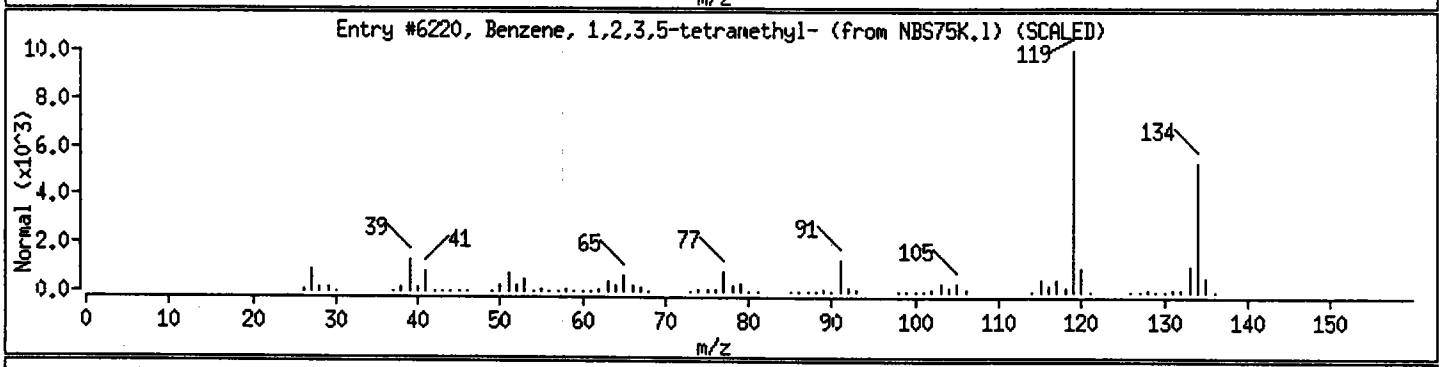
Operator: SEN

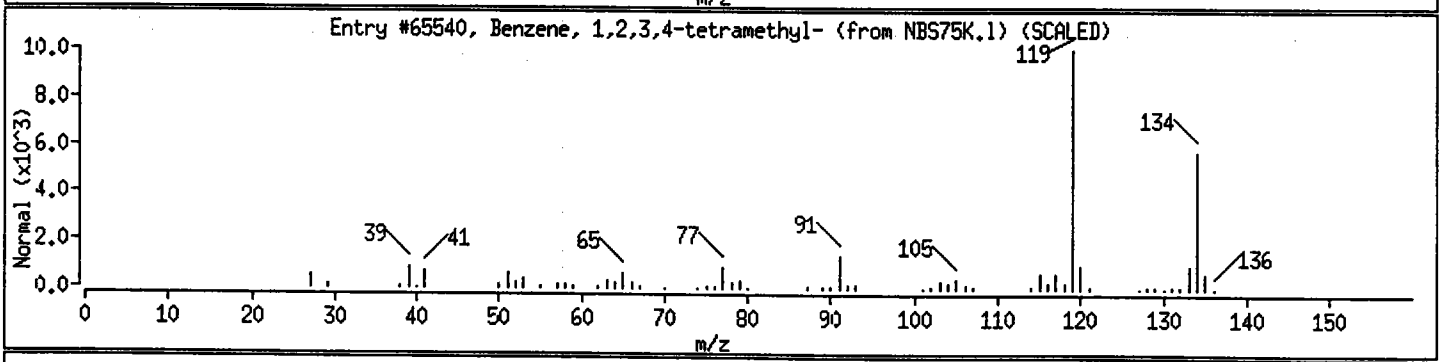
Column phase: 5% Phenyl methyl-Si

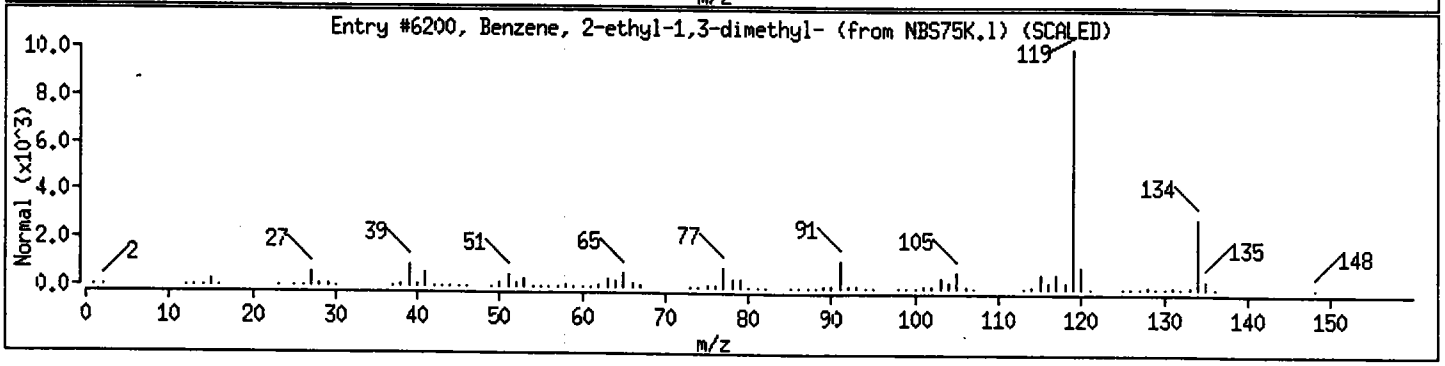
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NBS75K.l	6220	95	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NBS75K.l	65540	95	C10H14	134
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NBS75K.l	6200	94	C10H14	134









Data File: /chem/S.i/s981118.b/s322s06.d

Date : 18-NOV-98 22:44

Client ID:

Sample Info: 9811604-03G-625/1X;1;1

Volume Injected (uL): 1.0

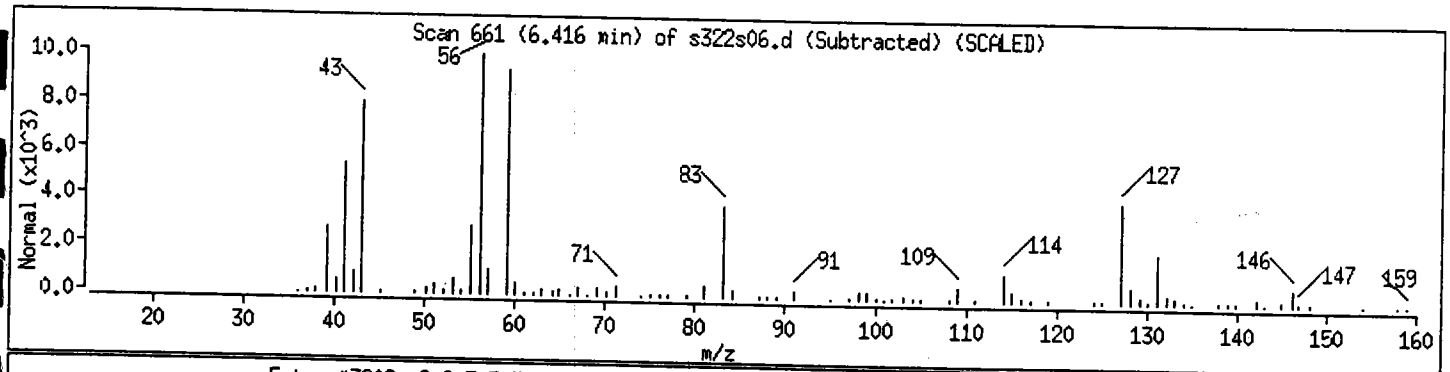
Column phase: 5% Phenyl methyl-Si

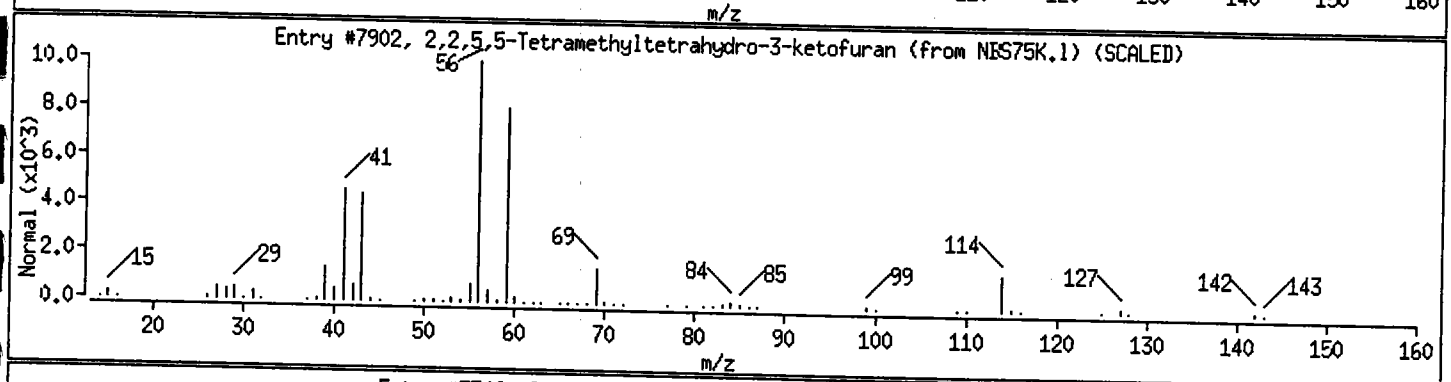
Instrument: S.i

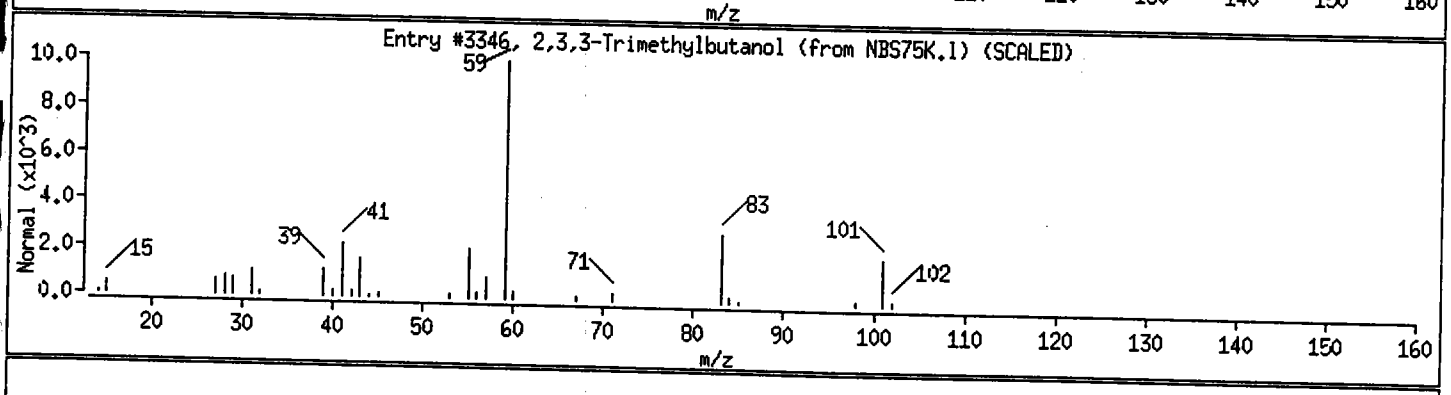
Operator: SEN

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,2,5,5-Tetramethyltetrahydro-3-ketofura	5455-94-7	NBS75K.l	7902	43	C8H14O2	142
2,3,3-Trimethylbutanol	36794-64-6	NBS75K.l	3346	27	C7H16O	116







Data File: /chem/S.i/s981118.b/s322s06.d

Date : 18-NOV-98 22:44

Client ID:

Instrument: S.i

Sample Info: 9811604-03G-625/1X;1;1

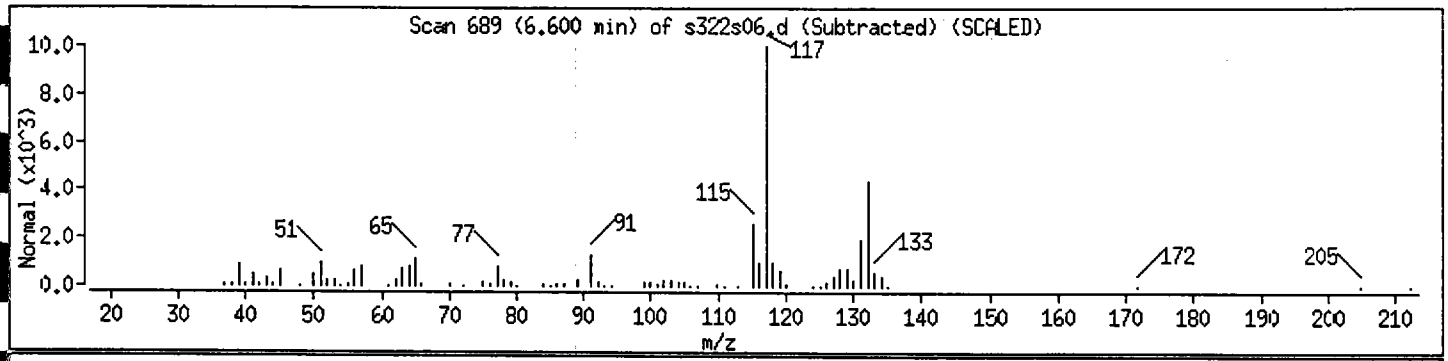
Volume Injected (uL): 1.0

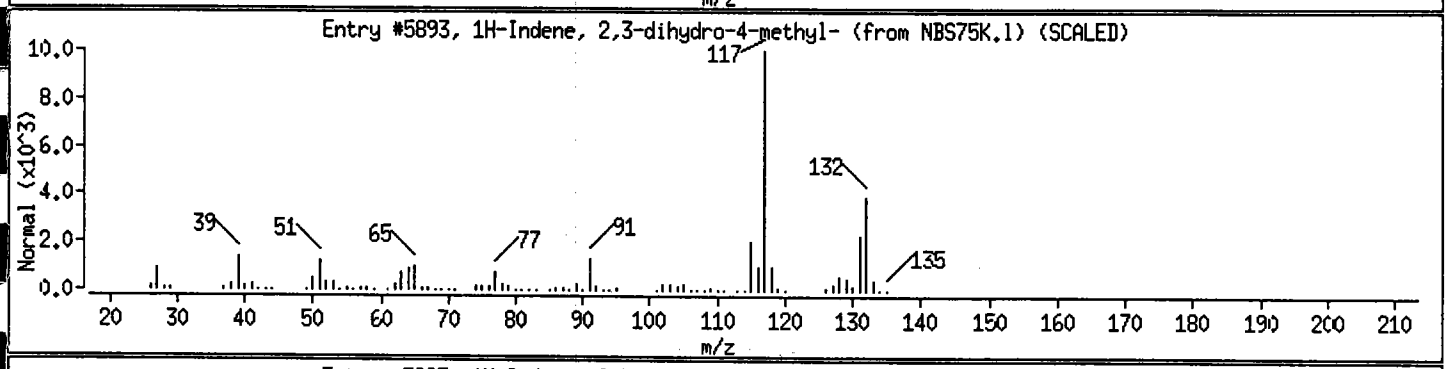
Operator: SEN

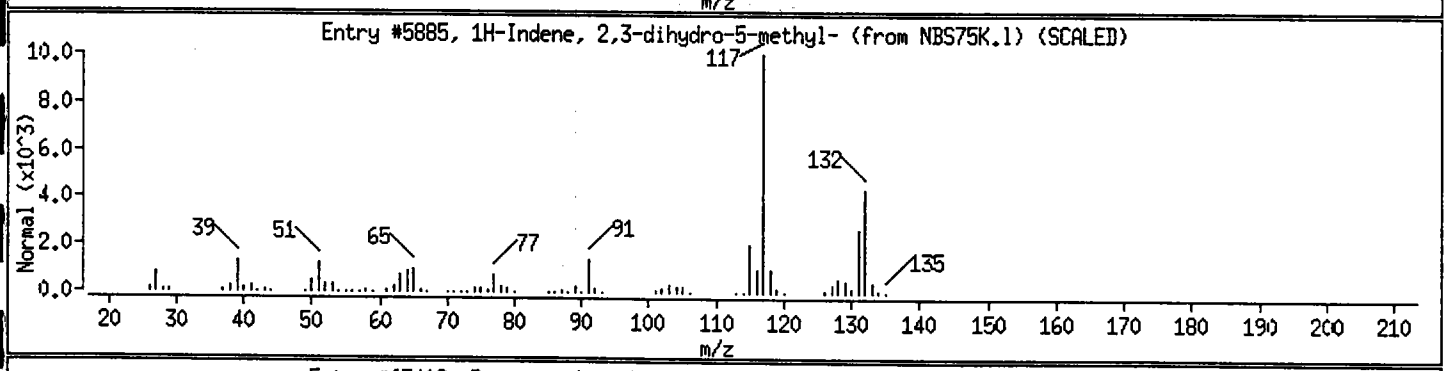
Column phase: 5% Phenyl methyl-Si

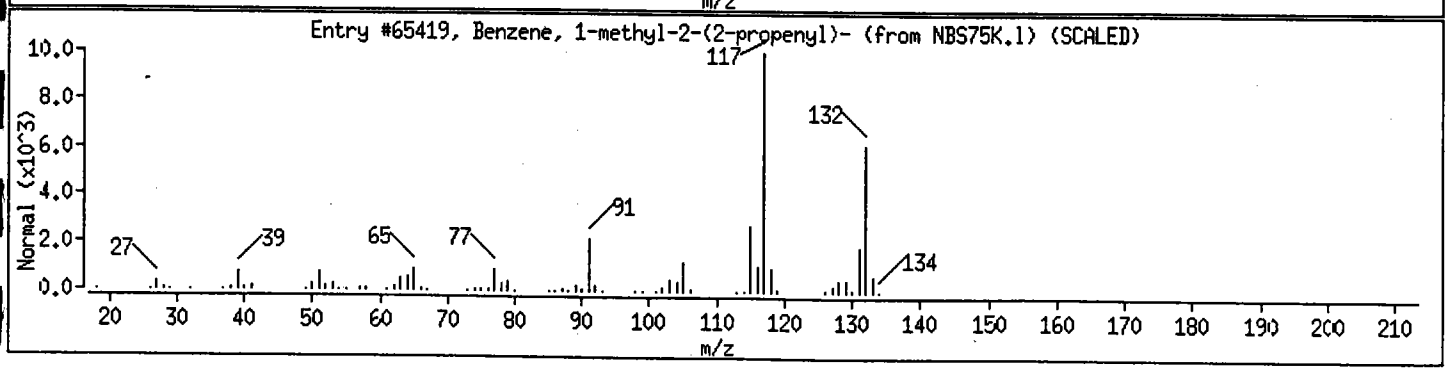
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-Indene, 2,3-dihydro-4-methyl-	824-22-6	NBS75K.l	5893	94	C10H12	132
1H-Indene, 2,3-dihydro-5-methyl-	874-35-1	NBS75K.l	5885	94	C10H12	132
Benzene, 1-methyl-2-(2-propenyl)-	1587-04-8	NBS75K.l	65419	94	C10H12	132









Data File: /chem/S.i/s981118.b/s322s06.d

Date : 18-NOV-98 22:44

Client ID:

Instrument: S.i

Sample Info: 9811604-03G-625/1X;1;1

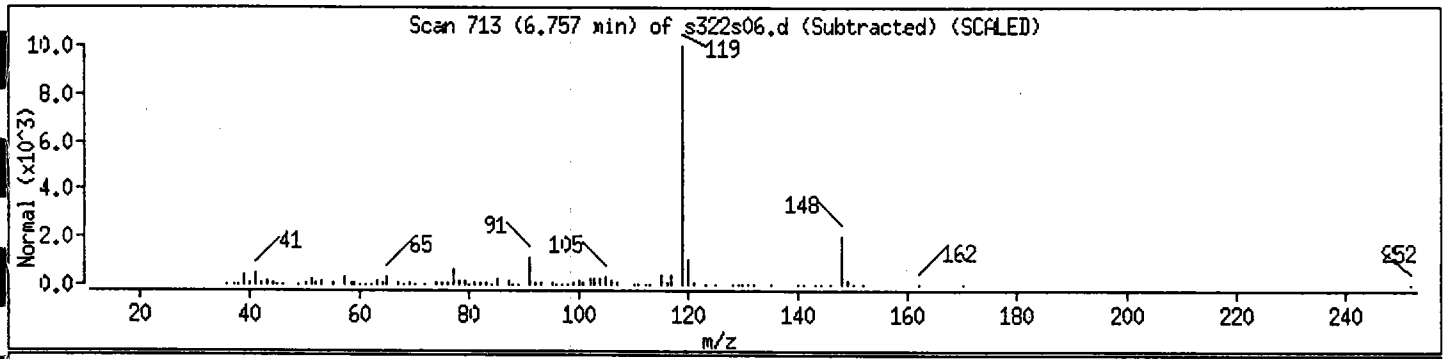
Volume Injected (uL): 1.0

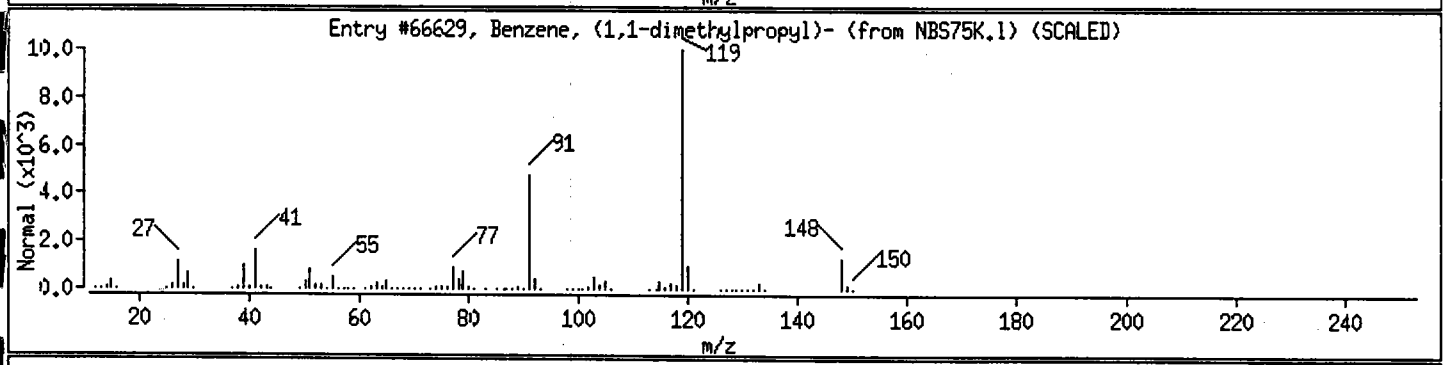
Operator: SEN

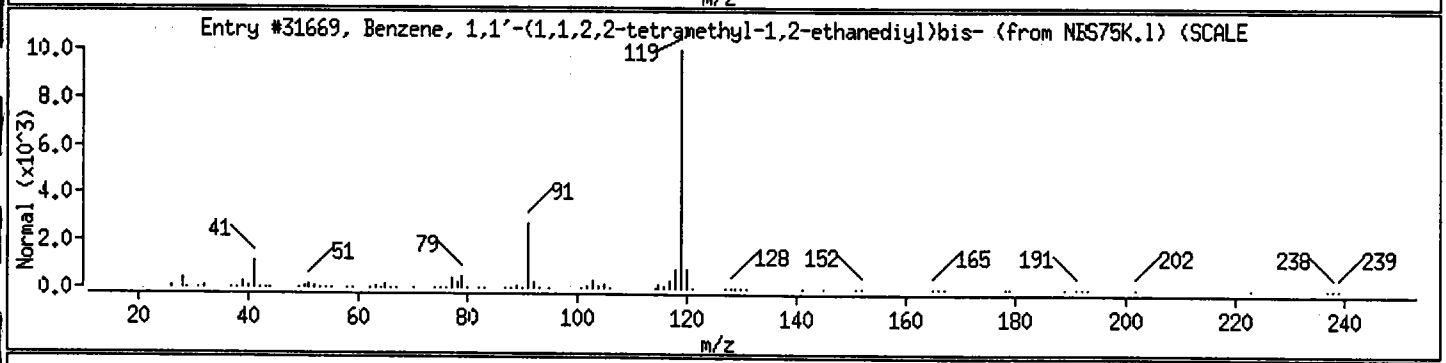
Column phase: 5% Phenyl methyl-Si

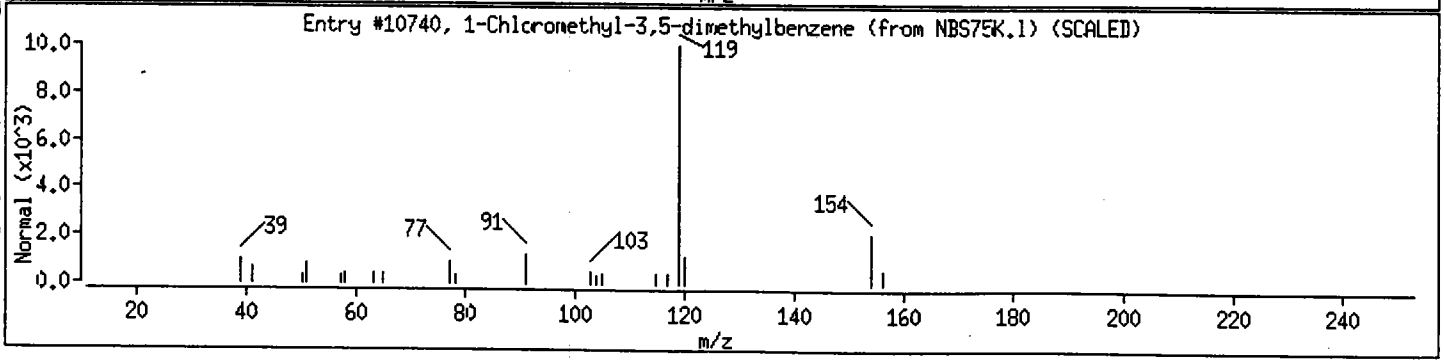
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, (1,1-dimethylpropyl)-	2049-95-8	NBS75K.l	66629	78	C11H16	148
Benzene, 1,1'-(1,1,2,2-tetramethyl-1,2-e	1889-67-4	NBS75K.l	31669	59	C18H22	238
1-Chloromethyl-3,5-dimethylbenzene	2745-54-2	NBS75K.l	10740	59	C9H11Cl	154





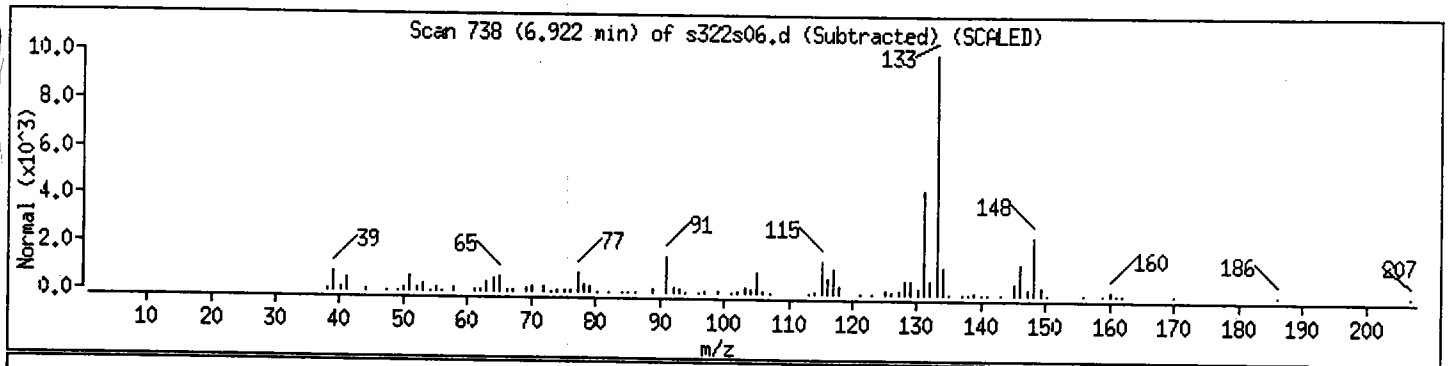


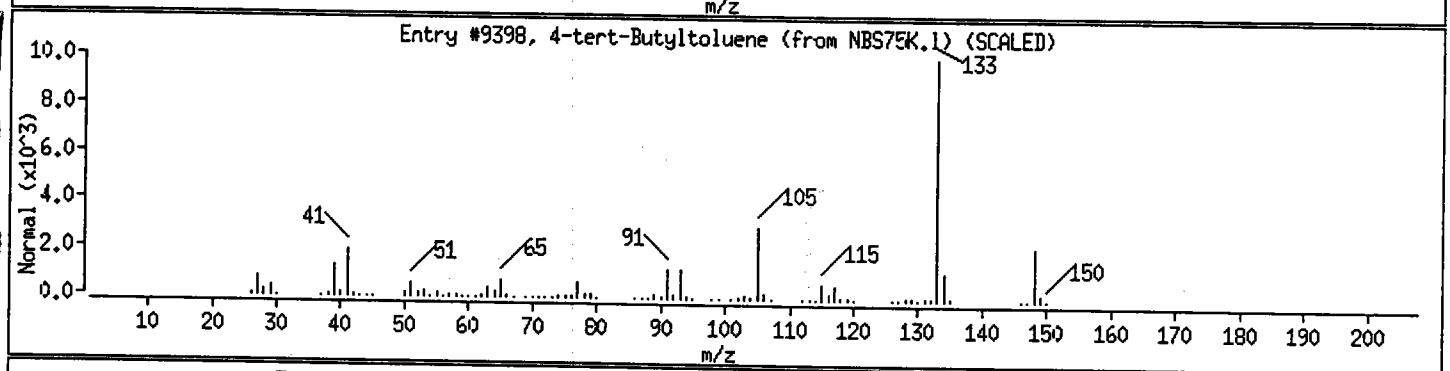


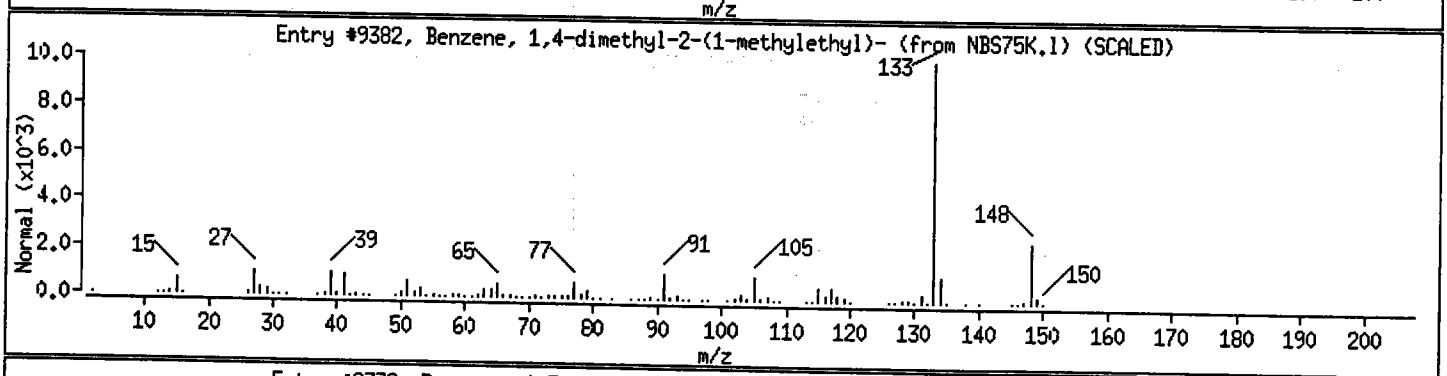
Data File: /chem/S.i/s981118.b/s322s06.d
Date : 18-NOV-98 22:44
Client ID:
Sample Info: 9811604-03G-625/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

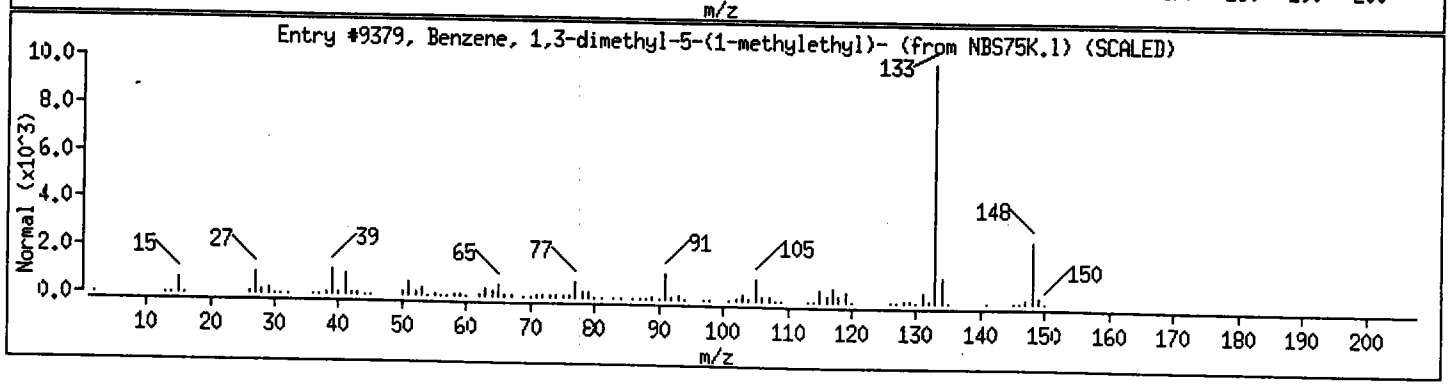
Instrument: S.i
Operator: SEN
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4-tert-Butyltoluene	98-51-1	NBS75K.l	9398	58	C11H16	148
Benzene, 1,4-dimethyl-2-(1-methylethyl)-	4132-72-3	NBS75K.l	9382	58	C11H16	148
Benzene, 1,3-dimethyl-5-(1-methylethyl)-	4706-90-5	NBS75K.l	9379	52	C11H16	148









LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-04

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: DMW-5

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 11:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	8 P	ug/L
ISOPROPYL ETHER	ND	8 P	ug/L
BENZENE	ND	1 P	ug/L
TOLUENE	ND	1 P	ug/L
ETHYLBENZENE	ND	1 P	ug/L
TOTAL XYLENE	ND	1 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	88		
4-Bromofluorobenzene	93		
Method 602 40 CFR PART 136			
Analyzed by: TD			
Date: 11/15/98			
1,2-Dibromoethane	ND	0.02 P	ug/L
Surrogate	**% Recovery**		
1-Chloro-2-Fluorobenzene	136		
Method 504 Revision 2.0			
Analyzed by: SM			
Date: 11/17/98			
Unadjusted Aliphatics C9-C18	0.10	0.067 P	mg/L
Unadjusted Aliphatics C19-C36	ND	0.139 P	mg/L
Surrogate	**% Recovery**		
Chloro-octa-decane	57		

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
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PHONE (318) 237-4775
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Certificate of Analysis No. L1-9811604-04

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: DMW-5

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 11:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Unadjusted Aromatics C11-C22	ND	0.38 P	mg/L
Surrogate	**% Recovery**		
2-Bromonaphthalene			
o-Terphenyl	61		
2-Fluorobiphenyl			
Method MA EPH			
Analyzed by: OL			
Date: 11/20/98			
Unadjusted Aliphatics C5-C8	ND	0.25 P	mg/L
Unadjusted Aliphatics C9-C12	ND	0.25 P	mg/L
Unadjusted Aromatics C9-C10	ND	0.25 P	mg/L
Surrogate	**% Recovery**		
2,5-Dibromotoluene	99		
Method MA VPH			
Analyzed by: TD			
Date: 11/22/98			
Micro-extraction	11/17/98		
Method 504 Revision 2			
Analyzed by: CB			
Date: 11/17/98 11:00:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-04

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: DMW-5

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 11:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Lead, Total Method 239.2 * Analyzed by: DD Date: 11/16/98 10:05:00	ND	0.002	mg/L
Digestion for Acid-Extractable Metals Method 3030 C ** Analyzed by: ML Date: 11/13/98 11:30:00	11/13/03		
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: JB Date: 11/16/98 18:00:00	11/17/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/17/98 13:00:00	11/17/98		-

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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Certificate of Analysis No. L1-9811604-04

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2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.#
9787214-4675-62252
12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: DMW-5

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 11:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Dichlorodifluoromethane	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Trans-1,2-Dichloroethene	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
2-Chloroethylvinyl ether	ND	5.00	ug/L
Trichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Dibromochloromethane	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L

METHOD: 601, Halogenated Volatile Organics
(continued on next page)

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Certificate of Analysis No. L1-9811604-04

UNOCAL CORPORATION **SAMPLE ID:** DMW-5

SURROGATES	% RECOVERY
Bromochloromethane	114

ANALYZED BY: TD DATE/TIME: 11/18/98 22:08:00
METHOD: 601, Halogenated Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-04

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.#
9787214-4675-62252
12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: DMW-5

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 11:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
Anthracene	ND	5	ug/L
Benzidine	ND	41	ug/L
Benzo(a)Anthracene	ND	5	ug/L
Benzo(a)Pyrene	ND	5	ug/L
Benzo(b)Fluoranthene	ND	5	ug/L
Benzo(g,h,i)Perylene	ND	5	ug/L
Benzo(k)Fluoranthene	ND	5	ug/L
4-Bromophenylphenyl ether	ND	5	ug/L
Butylbenzylphthalate	ND	5	ug/L
4-Chloro-3-Methylphenol	ND	5	ug/L
bis(2-Chloroethoxy)Methane	ND	5	ug/L
bis(2-Chloroethyl)Ether	ND	5	ug/L
bis(2-Chloroisopropyl)Ether	ND	5	ug/L
2-Chloronaphthalene	ND	5	ug/L
2-Chlorophenol	ND	5	ug/L
4-Chlorophenylphenyl ether	ND	5	ug/L
Chrysene	ND	5	ug/L
Di-n-Butylphthalate	ND	5	ug/L
Di-n-Octyl Phthalate	ND	5	ug/L
Dibenz(a,h)Anthracene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
3,3'-Dichlorobenzidine	ND	5	ug/L
2,4-Dichlorophenol	ND	5	ug/L
Diethylphthalate	ND	5	ug/L
Dimethyl Phthalate	ND	5	ug/L
2,4-Dimethylphenol	ND	5	ug/L
4,6-Dinitro-2-Methylphenol	ND	5	ug/L
2,4-Dinitrophenol	ND	20	ug/L
2,4-Dinitrotoluene	ND	20	ug/L
2,6-Dinitrotoluene	ND	5	ug/L
bis(2-Ethylhexyl)Phthalate	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Fluorene	ND	5	ug/L
Hexachlorobenzene	ND	5	ug/L
	ND	5	ug/L

METHOD: USEPA 625

(continued on next page)

LAFAYETTE LABORATORY
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PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-05

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: WILLIAMS

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 12:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	8 P	ug/L
ISOPROPYL ETHER	ND	8 P	ug/L
BENZENE	ND	1 P	ug/L
TOLUENE	ND	1 P	ug/L
ETHYLBENZENE	ND	1 P	ug/L
TOTAL XYLENE	ND	1 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	88		
4-Bromofluorobenzene	93		
Method 602 40 CFR PART 136			
Analyzed by: TD			
Date: 11/15/98			
1,2-Dibromoethane	ND	0.02 M	ug/L
Surrogate	**% Recovery**		
1-Chloro-2-Fluorobenzene	144		
Method 504 Revision 2.0			
Analyzed by: SM			
Date: 11/17/98			
Unadjusted Aliphatics C9-C18	0.20	0.120 P	mg/L
Unadjusted Aliphatics C19-C36	ND	0.250 P	mg/L

ND - Not detected. (P) - Practical Quantitation Limit
(M) - Method Detection Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-05

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: WILLIAMS

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 12:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Surrogate	**% Recovery**		
Chloro-octa-decane	58		
Unadjusted Aromatics C11-C22	ND	0.38 P	mg/L
2-Bromonaphthalene			
o-Terphenyl	55		
2-Fluorobiphenyl			
Method MA EPH			
Analyzed by: OL			
Date: 11/20/98			
Unadjusted Aliphatics C5-C8	ND	0.25 P	mg/L
Unadjusted Aliphatics C9-C12	ND	0.25 P	mg/L
Unadjusted Aromatics C9-C10	ND	0.25 P	mg/L
Surrogate	**% Recovery**		
2,5-Dibromotoluene	100		
Method MA VPH			
Analyzed by: TD			
Date: 11/22/98			
Micro-extraction	11/17/98		
Method 504 Revision 2			
Analyzed by: CB			
Date: 11/17/98 11:00:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-05

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.# 9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: WILLIAMS

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 12:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Lead, Total Method 239.2 * Analyzed by: DD Date: 11/16/98 10:05:00	ND	0.002	mg/L
Digestion for Acid-Extractable Metals Method 3030 C ** Analyzed by: ML Date: 11/13/98 11:30:00	11/13/03		
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: JB Date: 11/16/98 18:00:00	11/17/98		-
Aliphatic and Aromatic Extraction Method MA EPH Analyzed by: TM Date: 11/17/98 13:00:00	11/17/98		-

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

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PHONE (318) 237-4775
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Certificate of Analysis No. L1-9811604-05

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.#
9787214-4675-62252
12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: WILLIAMS

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 12:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Dichlorodifluoromethane	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Trans-1,2-Dichloroethene	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
2-Chloroethylvinyl ether	ND	5.00	ug/L
Trichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Dibromochloromethane	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L

METHOD: 601, Halogenated Volatile Organics
(continued on next page)

LAFAYETTE LABORATORY
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Certificate of Analysis No. L1-9811604-05

UNOCAL CORPORATION

SAMPLE ID: WILLIAMS

SURROGATES	**% RECOVERY**
Bromochloromethane	110

ANALYZED BY: TD DATE/TIME: 11/18/98 22:51:00
METHOD: 601, Halogenated Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
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PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-05

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.#
9787214-4675-62252
12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: S&ME
SAMPLE ID: WILLIAMS

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/11/98 12:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
Anthracene	ND	5	ug/L
Benzidine	ND	42	ug/L
Benzo(a)Anthracene	ND	5	ug/L
Benzo(a)Pyrene	ND	5	ug/L
Benzo(b)Fluoranthene	ND	5	ug/L
Benzo(g,h,i)Perylene	ND	5	ug/L
Benzo(k)Fluoranthene	ND	5	ug/L
4-Bromophenylphenyl ether	ND	5	ug/L
Butylbenzylphthalate	ND	5	ug/L
4-Chloro-3-Methylphenol	ND	5	ug/L
bis(2-Chloroethoxy)Methane	ND	5	ug/L
bis(2-Chloroethyl)Ether	ND	5	ug/L
bis(2-Chloroisopropyl)Ether	ND	5	ug/L
2-Chloronaphthalene	ND	5	ug/L
2-Chlorophenol	ND	5	ug/L
4-Chlorophenylphenyl ether	ND	5	ug/L
Chrysene	ND	5	ug/L
Di-n-Butylphthalate	ND	5	ug/L
Di-n-Octyl Phthalate	ND	5	ug/L
Dibenz(a,h)Anthracene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
3,3'-Dichlorobenzidine	ND	5	ug/L
2,4-Dichlorophenol	ND	5	ug/L
Diethylphthalate	ND	5	ug/L
Dimethyl Phthalate	ND	5	ug/L
2,4-Dimethylphenol	ND	5	ug/L
4,6-Dinitro-2-Methylphenol	ND	21	ug/L
2,4-Dinitrophenol	ND	21	ug/L
2,4-Dinitrotoluene	ND	5	ug/L
2,6-Dinitrotoluene	ND	5	ug/L
bis(2-Ethylhexyl)Phthalate	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Fluorene	ND	5	ug/L
Hexachlorobenzene	ND	5	ug/L

METHOD: USEPA 625

(continued on next page)

LAFAYETTE LABORATORY
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PHONE (318) 237-4775
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Certificate of Analysis No. L1-9811604-05

UNOCAL CORPORATION

SAMPLE ID: WILLIAMS

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
Hexachlorobutadiene	ND	5	ug/L
Hexachlorocyclopentadiene	ND	10	ug/L
Hexachloroethane	ND	5	ug/L
Indeno(1,2,3-cd)Pyrene	ND	5	ug/L
Isophorone	ND	5	ug/L
N-Nitroso-Di-n-Propylamine	ND	5	ug/L
N-Nitrosodiphenylamine	ND	5	ug/L
Naphthalene	ND	5	ug/L
Nitrobenzene	ND	5	ug/L
2-Nitrophenol	ND	5	ug/L
4-Nitrophenol	ND	21	ug/L
Pentachlorophenol	ND	21	ug/L
Phenanthrene	ND	5	ug/L
Phenol	ND	5	ug/L
Pyrene	ND	5	ug/L
1,2,4-Trichlorobenzene	ND	5	ug/L
2,4,6-Trichlorophenol	ND	5	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
2-Fluorobiphenyl	50 ug/L	100	43	116
2-Fluorophenol	75 ug/L	52	21	110
Nitrobenzene-d5	50 ug/L	91	35	114
Phenol-d5	75 ug/L	35	10	110
Terphenyl-d14	50 ug/L	96	33	141
2,4,6-Tribromophenol	75 ug/L	94	10	123
2-Chlorophenol-d4	75 ug/L	97	33	110
1,2-Dichlorobenzene-d4	50 ug/L	98	16	110

ANALYZED BY: BTG DATE/TIME: 11/18/98 23:54:00
EXTRACTED BY: ADS DATE/TIME: 11/17/98 17:00:00
METHOD: USEPA 625
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

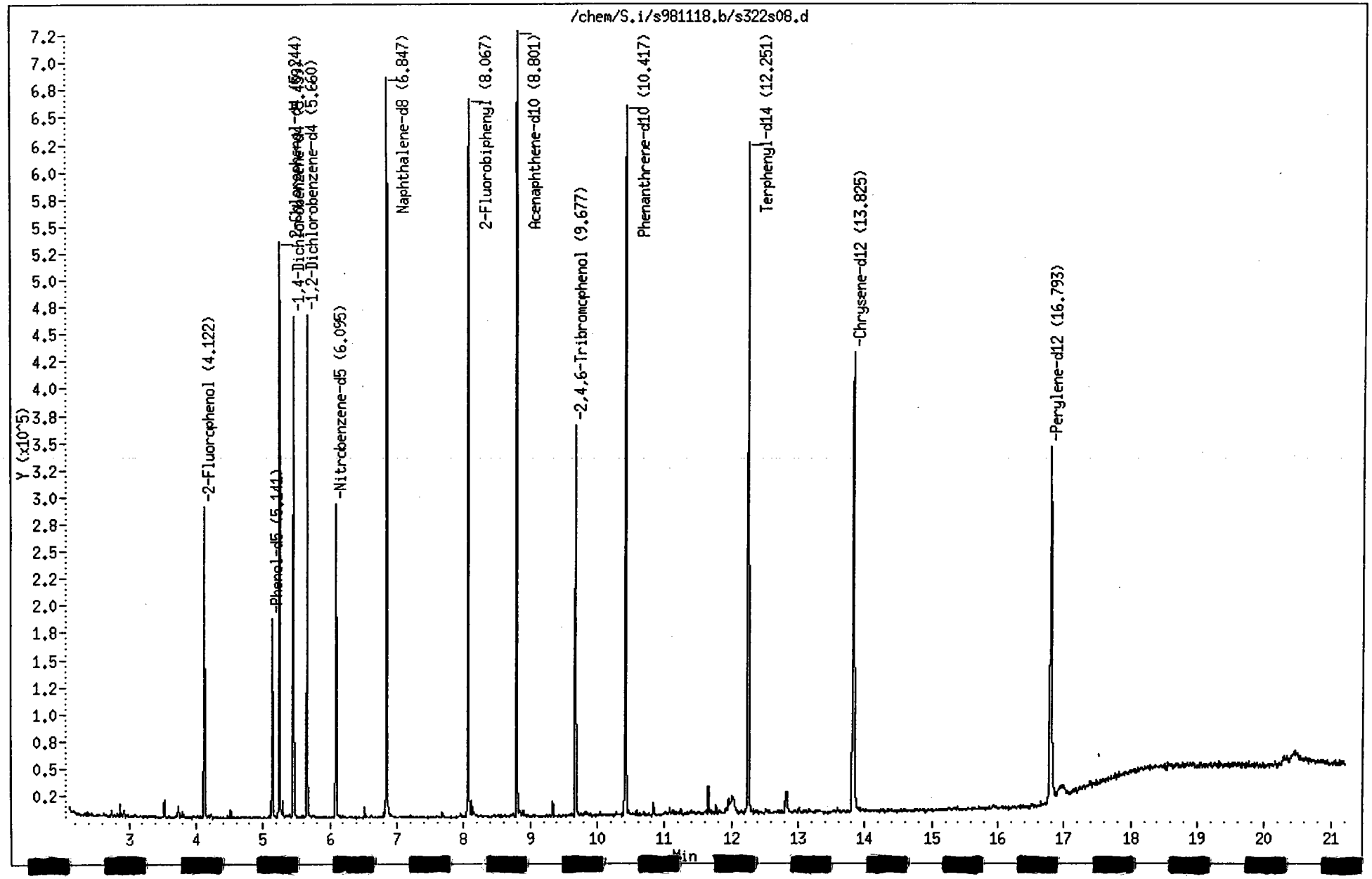
COMMENTS: Method 625 Assodicated Blank:S322B02 File ID:S322S08

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

Data File: /chem/S.i/s981118.b/s322s08.d
Date : 18-NOV-1998 23:54
Client ID:
Sample Info: 9811604-05G-625/1X;1;1
Volume Injected (uL): 1.0
Column phase: 5% Phenyl methyl-Si

Instrument: S.i

Operator: SEN
Column diameter: 0.25



Data File /d[illegible] s981118.b/s322s08.d
Report [illegible] 1998 11:58

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Laboratories

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id:
Operator : SEN
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: s981118

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0-00-0	4-(5-Aminopyrimidinyl-2)ben	12.016	6	NJ__

Data File: /chem/S.i/s981118.b/s322s08.d

Date : 18-NOV-98 23:54

Client ID:

Instrument: S.i

Sample Info: 9811604-05G-625/1X;1;1

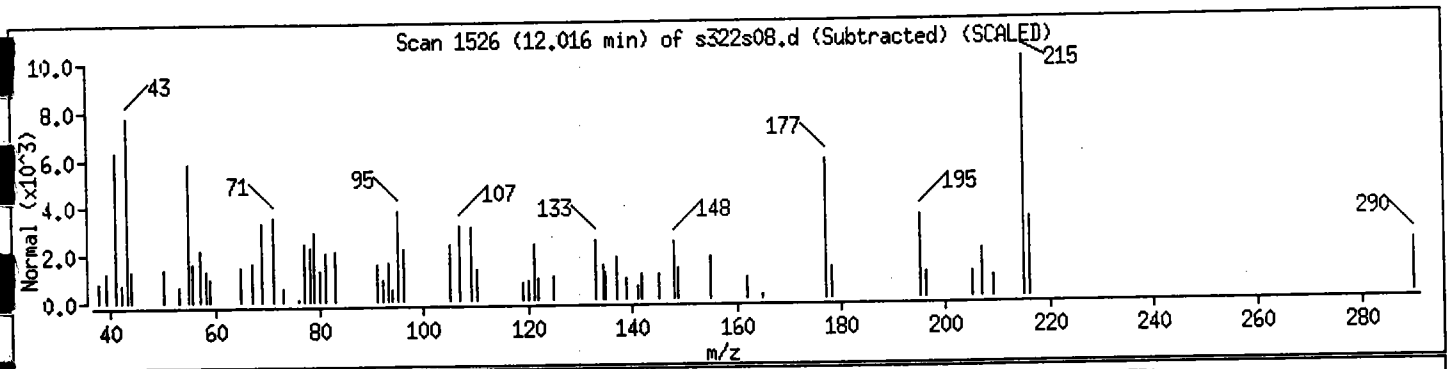
Volume Injected (uL): 1.0

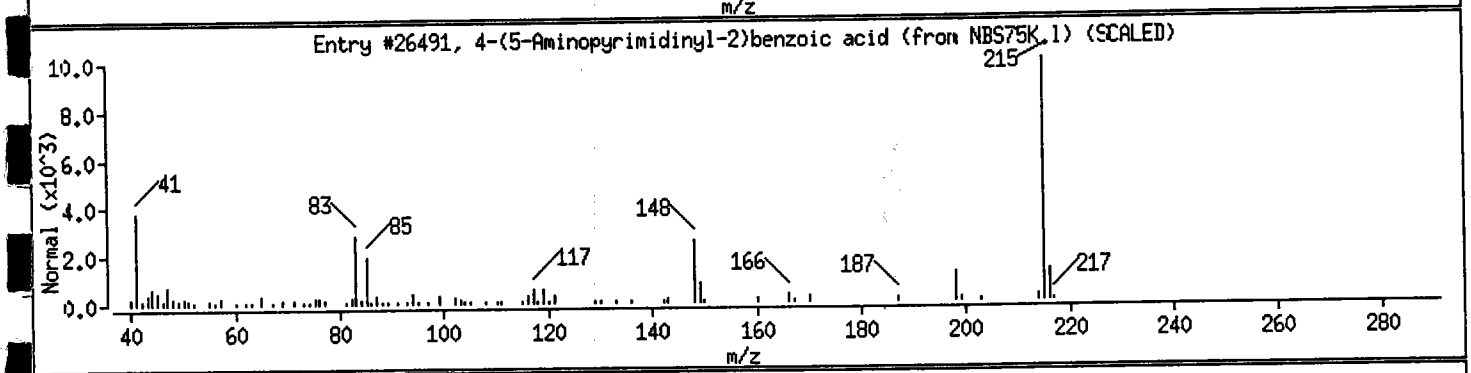
Operator: SEN

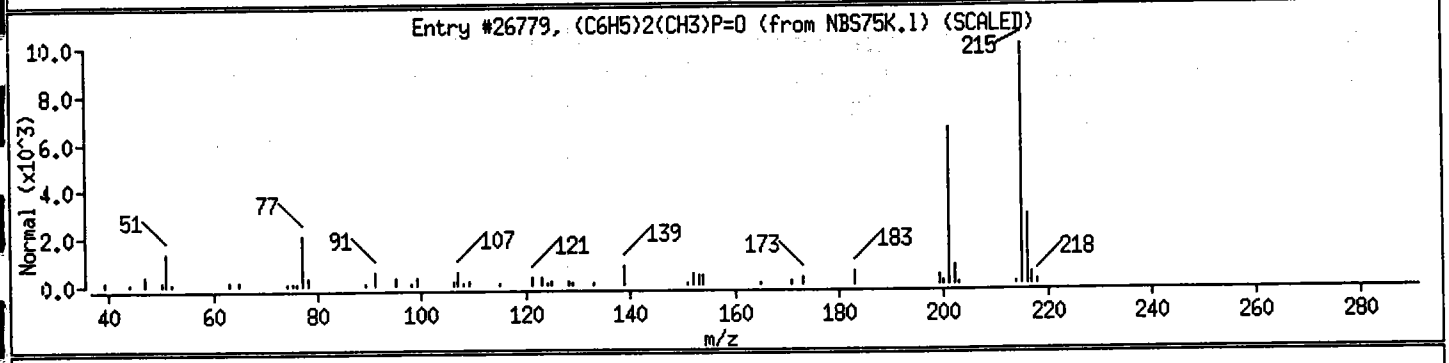
Column phase: 5% Phenyl methyl-Si

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4-(5-Aminopyrimidinyl-2)benzoic acid	0-00-0	NBS75K.l	26491	27	C11H9N3O2	215
(C6H5)2(CH3)P=O	2129-89-7	NBS75K.l	26779	22	C13H13OP	216







LAFAYETTE LABORATORY
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FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-06

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.#
9787214-4675-62252
DATE: 12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: SPL
SAMPLE ID: TRIP BLANK

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/03/98 15:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	8 P	ug/L
ISOPROPYL ETHER	ND	8 P	ug/L
BENZENE	ND	1 P	ug/L
TOLUENE	ND	1 P	ug/L
ETHYLBENZENE	ND	1 P	ug/L
TOTAL XYLENE	ND	1 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	88
4-Bromofluorobenzene	95

Method 602 40 CFR PART 136
Analyzed by: TD
Date: 11/15/98

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-06

UNOCAL CORPORATION
2300 BARRINGTON ROAD, STE 500
HOFFMAN ESTATES, IL 60195
ATTN: PAUL LINQUIST

P.O.#
9787214-4675-62252
12/01/98

PROJECT: #9787214,1342 TROLLINGWOOD RD
SITE: MEBANE, NC
SAMPLED BY: SPL
SAMPLE ID: TRIP BLANK

PROJECT NO: 335927785
MATRIX: WATER
DATE SAMPLED: 11/03/98 15:30:00
DATE RECEIVED: 11/13/98

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Dichlorodifluoromethane	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Trans-1,2-Dichloroethene	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
2-Chloroethylvinyl ether	ND	5.00	ug/L
Trichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Dibromochloromethane	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L

METHOD: 601, Halogenated Volatile Organics
(continued on next page)

LAFAYETTE LABORATORY
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PHONE (318) 237-4775
FAX (318) 237-8005

Certificate of Analysis No. L1-9811604-06

UNOCAL CORPORATION

SAMPLE ID: TRIP BLANK

SURROGATES	**% RECOVERY**
Bromochloromethane	110

ANALYZED BY: TD DATE/TIME: 11/18/98 23:34:00
METHOD: 601, Halogenated Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: This analysis was performed in accordance with EPA guidelines for analysis and quality control. Results on Dry Weight Basis for soil samples. SPL Certification Number 487

** SPL BATCH QUALITY CONTROL REPORT **

Method 601 40 CFR PART 136

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Water
Units: ug/L

Batch Id: HP00981118095400

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Dichlorodifluoromethane	ND	10	9.6	96.0	-
Chloromethane	ND	10	11	110	- 193
Vinyl chloride	ND	10	9.8	98.0	28 - 163
Bromomethane	ND	10	10	100	- 170
Chloroethane	ND	10	10	100	46 - 175
Trichlorofluoromethane	ND	10	10	100	21 - 156
1,1-Dichloroethene	ND	10	10	100	28 - 167
Methylene chloride	ND	10	9.0	90.0	25 - 162
Trans-1,2-Dichloroethene	ND	10	10	100	38 - 155
1,1-Dichloroethane	ND	10	11	110	47 - 142
Chloroform	ND	10	10	100	49 - 133
1,1,1-Trichloroethane	ND	10	11	110	41 - 138
Carbon tetrachloride	ND	10	10	100	43 - 143
1,2-Dichloroethane	ND	10	11	110	51 - 147
2-Chloroethylvinyl ether	ND	10	10	100	14 - 186
Trichloroethene	ND	10	11	110	35 - 156
1,2-Dichloropropane	ND	10	11	110	44 - 156
Bromodichloromethane	ND	10	10	100	42 - 172
cis-1,3-Dichloropropene	ND	10	11	110	22 - 178
trans-1,3-Dichloropropene	ND	10	11	110	22 - 178
1,1,2-Trichloroethane	ND	10	10	100	39 - 136
Tetrachloroethene	ND	10	10	100	26 - 162
Dibromochloromethane	ND	10	10	100	24 - 191
Chlorobenzene	ND	10	10	100	38 - 150
Bromoform	ND	10	11	110	13 - 159
1,1,2,2-Tetrachloroethane	ND	10	10	100	8 - 184
1,3-Dichlorobenzene	ND	10	10	100	7 - 187
1,4-Dichlorobenzene	ND	10	9.8	98.0	- 208
1,2-Dichlorobenzene	ND	10	10	100	42 - 143

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	Recovery Range
DICHLORODIFLUOROMETHANE	ND	10.0	7.7	77.0	7.7	77.0	0		-
CHLOROMETHANE	ND	10.0	9.3	93.0	9.4	94.0	1.07	37	- 193
VINYL CHLORIDE	ND	10.0	9.3	93.0	9.4	94.0	1.07	29	28 - 163
BROMOMETHANE	ND	10.0	9.8	98.0	10	100	2.02	38	- 170
CHLOROETHANE	ND	10.0	10	100	11	110	9.52	32	46 - 175

** SPL BATCH QUALITY CONTROL REPORT **

Method 601 40 CFR PART 136

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Water

Units: ug/L

Batch Id: HPOO981118095400

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
TRICHLOROFLUOROMETHANE	ND	10.0	10	100	10	100	0	30	21 - 156
1,1-DICHLOROETHENE	ND	10.0	11	110	10	100	9.52	33	28 - 167
METHYLENE CHLORIDE	ND	10.0	9.2	92.0	9.2	92.0	0	20	25 - 162
TRANS-1,2-DICHLOROETHENE	ND	10.0	11	110	10	100	9.52	32	38 - 155
1,1-DICHLOROETHANE	ND	10.0	11	110	11	110	0	20	47 - 132
CHLOROFORM	ND	10.0	11	110	11	110	0	23	49 - 133
1,1,1-TRICHLOROETHANE	ND	10.0	11	110	11	110	0	24	41 - 148
CARBON TETRACHLORIDE	ND	10.0	11	110	11	110	0	28	43 - 143
1,2-DICHLOROETHANE	ND	10.0	11	110	11	110	0	26	51 - 147
2-CHLOROETHYLVINYL ETHER	ND	10.0	12	120	10	100	18.2	42	14 - 186
TRICHLOROETHENE	ND	10.0	12	120	12	120	0	21	35 - 156
1,2-DICHLOROPROPANE	ND	10.0	11	110	11	110	0	26	44 - 156
BROMODICHLOROMETHANE	ND	10.0	10	100	10	100	0	22	42 - 172
CIS-1,3-DICHLOROPROPENE	ND	10.0	10	100	10	100	0	37	22 - 178
TRANS-1,3-DICHLOROPROPENE	ND	10.0	10	100	10	100	0	37	22 - 178
1,1,2-TRICHLOROETHANE	ND	10.0	10	100	11	110	9.52	22	39 - 136
TETRACHLOROETHENE	ND	10.0	9.7	97.0	10	100	3.05	27	26 - 162
DIBROMOCHLOROMETHANE	ND	10.0	10	100	11	110	9.52	32	24 - 191
CHLOROBENZENE	ND	10.0	10	100	10	100	0	25	38 - 150
BROMOFORM	ND	10.0	11	110	11	110	0	24	13 - 159
1,1,2,2-TETRACHLOROETHANE	ND	10.0	7.5	75.0	7.1	71.0	5.48	46	8 - 184
1,3-DICHLOROBENZENE	ND	10.0	9.9	99.0	10	100	1.01	46	7 - 187
1,4-DICHLOROBENZENE	ND	10.0	9.9	99.0	11	110	10.5	28	- 208
1,2-DICHLOROBENZENE	ND	10.0	10	100	11	110	9.52	28	42 - 143

Analyst: TD

Sequence Date: 11/18/98

SPL ID of sample spiked: 9811639-05A

Sample File ID: EK18327B.TX0

Method Blank File ID: EK18314B.TX0

Blank Spike File ID: EK18313B.TX0

Matrix Spike File ID: EK18333B.TX0

Matrix Spike Duplicate File ID: EK18334A.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: 601 Table 2

(***) = Source: 601 Table 2

SAMPLES IN BATCH(SPL ID):

9811639-02A	9811639-03A	9811639-04A	9811639-05A
9811639-06A	9811711-01B	9811711-02B	9811711-03B
9811711-04B	9811711-05B	9811711-06B	9811711-07B
9811711-08B	9811604-01B	9811604-02B	9811604-03B
9811604-04B	9811604-05B	9811604-06B	9811639-01A

** SPL BATCH QUALITY CONTROL REPORT **

METHOD 625

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Water

Units: ug/L

Batch Id: E981117045430

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Blank Results	Spike Added <3>	LCS Result <1>	LCS Recovery <4>	LCS Duplicate Result <1>	LCS Duplicate Recovery <5>	LCS/LCSD Relative % Difference	QC Limits(**) (Mandatory) RPD Max.	Recovery Range
Phenol	ND	100	34	34.0	33	33.0	3.0	40.00	5 - 112
bis(2-Chloroethyl)ether	ND	100	91	91.0	87	87.0	4.5	40.00	12 - 158
2-Chlorophenol	ND	100	90	90.0	89	89.0	1.1	40.00	23 - 134
1,3-Dichlorobenzene	ND	100	71	71.0	73	73.0	2.8	40.00	1 - 172
1,4-Dichlorobenzene	ND	100	74	74.0	77	77.0	4.0	40.00	20 - 124
1,2-Dichlorobenzene	ND	100	73	73.0	75	75.0	2.7	40.00	32 - 129
bis(2-chloroisopropyl)ethe	ND	100	51	51.0	73	73.0	35.5	40.00	36 - 166
N-Nitroso-di-n-propylamine	ND	100	98	98.0	96	96.0	2.1	40.00	1 - 230
Hexachloroethane	ND	100	71	71.0	74	74.0	4.1	40.00	40 - 113
Nitrobenzene	ND	100	98	98.0	94	94.0	4.2	40.00	35 - 180
Isophorone	ND	100	82	82.0	84	84.0	2.4	40.00	21 - 196
2-Nitrophenol	ND	100	100	100	110	110	9.5	40.00	29 - 182
2,4-Dimethylphenol	ND	100	87	87.0	89	89.0	2.3	40.00	32 - 119
bis(2-Chloroethoxy)methane	ND	100	96	96.0	98	98.0	2.1	40.00	33 - 184
2,4-Dichlorophenol	ND	100	97	97.0	100	100	3.0	40.00	39 - 135
1,2,4-Trichlorobenzene	ND	100	76	76.0	83	83.0	8.8	40.00	44 - 142
Naphthalene	ND	100	87	87.0	90	90.0	3.4	40.00	21 - 133
Hexachlorobutadiene	ND	100	74	74.0	78	78.0	5.3	40.00	24 - 116
4-Chloro-3-methylphenol	ND	100	94	94.0	98	98.0	4.2	40.00	22 - 147
2,4,6-Trichlorophenol	ND	100	100	100	110	110	9.5	40.00	37 - 144
2-Chloronaphthalene	ND	100	85	85.0	89	89.0	4.6	40.00	60 - 118
Dimethylphthalate	ND	100	95	95.0	100	100	5.1	40.00	1 - 112
Acenaphthylene	ND	100	86	86.0	90	90.0	4.6	40.00	33 - 145
2,6-Dinitrotoluene	ND	100	84	84.0	92	92.0	9.1	40.00	50 - 158
Acenaphthene	ND	100	93	93.0	99	99.0	6.2	40.00	47 - 145
2,4-Dinitrophenol	ND	100	75	75.0	87	87.0	14.8	40.00	1 - 191
4-Nitrophenol	ND	100	32	32.0	36	36.0	11.8	40.00	1 - 132
2,4-Dinitrotoluene	ND	100	90	90.0	96	96.0	6.4	40.00	39 - 139
Diethylphthalate	ND	100	97	97.0	100	100	3.0	40.00	1 - 114
Fluorene	ND	100	93	93.0	97	97.0	4.2	40.00	59 - 121
4-Chlorophenyl phenyl ethe	ND	100	94	94.0	98	98.0	4.2	40.00	25 - 158
4,6-Dinitro-2-methylphenol	ND	100	78	78.0	89	89.0	13.2	40.00	1 - 181
4-Bromophenyl phenyl ether	ND	100	110	110	110	110	0	40.00	53 - 127
Hexachlorobenzene	ND	100	91	91.0	96	96.0	5.4	40.00	1 - 152
Pentachlorophenol	ND	100	98	98.0	100	100	2.0	40.00	14 - 176
Phenanthrene	ND	100	97	97.0	100	100	3.0	40.00	54 - 120
Anthracene	ND	100	95	95.0	98	98.0	3.1	40.00	27 - 133
Di-n-butylphthalate	ND	100	96	96.0	100	100	4.1	40.00	1 - 118
Fluoranthene	ND	100	96	96.0	100	100	4.1	40.00	26 - 137
Pyrene	ND	100	94	94.0	98	98.0	4.2	40.00	52 - 115
Butyl benzyl phthalate	ND	100	100	100	100	100	0	40.00	1 - 152

** SPL BATCH QUALITY CONTROL REPORT **

METHOD 625

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Water

Units: ug/L

Batch Id: E981117045430

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Blank Results	Spike Added <3>	LCS Result <1>	LCS Recovery <4>	LCS Duplicate Result <1>	LCS Duplicate Recovery <5>	LCS/LCSD Relative % Difference	QC Limits(**) (Mandatory) RPD Max.	QC Limits(**) (Mandatory) Recovery Range
Benzo[a]anthracene	ND	100	100	100	100	100	0	40.00	33 - 143
3,3'-Dichlorobenzidine	ND	100	86	86.0	90	90.0	4.6	40.00	1 - 262
bis(2-Ethylhexyl)phthalate	ND	100	97	97.0	96	96.0	1.0	40.00	8 - 158
Di-n-octylphthalate	ND	100	100	100	100	100	0	40.00	4 - 146
Benzo[b]fluoranthene	ND	100	100	100	110	110	9.5	40.00	24 - 159
Benzo[k]fluoranthene	ND	100	94	94.0	98	98.0	4.2	40.00	11 - 162
Benzo[a]pyrene	ND	100	100	100	110	110	9.5	40.00	17 - 163
Indeno[1,2,3-cd]pyrene	ND	100	96	96.0	97	97.0	1.0	40.00	1 - 171
Dibenz[a,h]anthracene	ND	100	110	110	110	110	0	40.00	1 - 227
Benzo[g,h,i]perylene	ND	100	100	100	110	110	9.5	40.00	1 - 219
Chrysene	ND	100	100	100	100	100	0	40.00	17 - 168

Analyst: BTG

Sequence Date: 11/18/98

SPL ID of sample spiked: METHSPIKEDU

Sample File ID: S322TL2.D

Method Blank File ID: S322BO2

Blank Spike File ID: S322TD2.D

Matrix Spike File ID:

Matrix Spike Duplicate File ID: S322TD2.D

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source:

(***) = Source:

SAMPLES IN BATCH(SPL ID): 9811604-01G 9811604-02G 9811604-03G 9811604-04G 9811604-05G 9811705-03A 9811707-03A

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8905

SPL Blank QC Report

Matrix: Water
Sample ID: BLANK
Batch: E981117045430

Reported on: 11/25/98 16:39
Analyzed on: 11/18/98 19:56
Analyst: BTG

METHOD 625 - S322B02

Compound	Result	Detection Limit	Units
Phenol	ND	5	ug/L
bis(2-Chloroethyl)ether	ND	5	ug/L
2-Chlorophenol	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
bis(2-chloroisopropyl)ethe	ND	5	ug/L
N-Nitroso-di-n-propylamine	ND	5	ug/L
Hexachloroethane	ND	5	ug/L
Nitrobenzene	ND	5	ug/L
Isophorone	ND	5	ug/L
2-Nitrophenol	ND	5	ug/L
2,4-Dimethylphenol	ND	5	ug/L
bis(2-Chloroethoxy)methane	ND	5	ug/L
2,4-Dichlorophenol	ND	5	ug/L
1,2,4-Trichlorobenzene	ND	5	ug/L
Naphthalene	ND	5	ug/L
Hexachlorobutadiene	ND	5	ug/L
4-Chloro-3-methylphenol	ND	5	ug/L
Hexachlorocyclopentadiene	ND	10	ug/L
2,4,6-Trichlorophenol	ND	5	ug/L
2-Chloronaphthalene	ND	5	ug/L
Dimethylphthalate	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
2,6-Dinitrotoluene	ND	5	ug/L
Acenaphthene	ND	5	ug/L
2,4-Dinitrophenol	ND	20	ug/L
4-Nitrophenol	ND	20	ug/L
2,4-Dinitrotoluene	ND	5	ug/L
Diethylphthalate	ND	5	ug/L
Fluorene	ND	5	ug/L
4-Chlorophenyl phenyl ethe	ND	5	ug/L
4,6-Dinitro-2-methylphenol	ND	20	ug/L
N-Nitrosodiphenylamine	ND	5	ug/L

Notes

ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Blank QC Report

Matrix: Water
Sample ID: BLANK
Batch: E981117045430

Reported on: 11/25/98 16:39
Analyzed on: 11/18/98 19:56
Analyst: BTG

METHOD 625 - S322B02

Compound	Result	Detection Limit	Units
4-Bromophenyl phenyl ether	ND	5	ug/L
Hexachlorobenzene	ND	5	ug/L
Pentachlorophenol	ND	20	ug/L
Phenanthrene	ND	5	ug/L
Anthracene	ND	5	ug/L
Di-n-butylphthalate	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Benzidine	ND	40	ug/L
Pyrene	ND	5	ug/L
Butyl benzyl phthalate	ND	5	ug/L
Benzo[a]anthracene	ND	5	ug/L
3,3'-Dichlorobenzidine	ND	5	ug/L
bis(2-Ethylhexyl)phthalate	ND	5	ug/L
Di-n-octylphthalate	ND	5	ug/L
Benzo[b]fluoranthene	ND	5	ug/L
Benzo[k]fluoranthene	ND	5	ug/L
Benzo[a]pyrene	ND	5	ug/L
Indeno[1,2,3-cd]pyrene	ND	5	ug/L
Dibenz[a,h]anthracene	ND	5	ug/L
Benzo[g,h,i]perylene	ND	5	ug/L
Chrysene	ND	5	ug/L

Notes
ND - Not detected.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SPL Blank QC Report

Matrix: Water
Sample ID: BLANK
Batch: E981117045430

Reported on: 11/25/98 16:39
Analyzed on: 11/18/98 19:56
Analyst: BTG

METHOD 625 - S322B02

Surrogate	Result	QC Criteria	Units
2-Fluorophenol	50	21-110	% Recovery
Phenol-d5	34	10-110	% Recovery
2-Chlorophenol-d4	96	33-110	% Recovery
1,2-Dichlorobenzene-d4	82	16-110	% Recovery
Nitrobenzene-d5	96	35-114	% Recovery
2-Fluorobiphenyl	90	43-116	% Recovery
2,4,6-Tribromophenol	90	10-123	% Recovery
Terphenyl-d14	95	33-141	% Recovery

Samples in Batch 9811604-01 9811604-02 9811604-03 9811604-04 9811604-05

Notes
ND - Not detected.

** SPL BATCH QUALITY CONTROL REPORT **

Method 602 [40 CFR]

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Matrix: Water

Units: ug/L

Batch Id: HPCC981115095902

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	50	54	108	70 - 130
Isopropyl Ether	ND	50	54	108	70 - 130
Benzene	ND	50	52	104	70 - 130
Toluene	ND	50	52	104	70 - 130
Ethyl Benzene	ND	50	52	104	70 - 130
O-Xylene	ND	50	49	98.0	70 - 130
M and P Xylene	ND	100	96	96.0	70 - 130

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	21	95.0	21	95.0	0	20	70 - 130
ISOPROPYL ETHER	ND	20	25	115	25	115	0	20	70 - 130
BENZENE	ND	20	19	95.0	19	95.0	0	20	70 - 130
TOLUENE	ND	20	18	90.0	18	90.0	0	20	70 - 130
ETHYL BENZENE	ND	20	19	95.0	19	95.0	0	20	70 - 130
O-XYLENE	ND	20	17	85.0	18	90.0	5.71	20	70 - 130
M AND P XYLENE	ND	40	35	87.5	35	87.5	0	20	70 - 130

Analyst: TD

Sequence Date: 11/15/98

SPL ID of sample spiked: 9811614-02A

Sample File ID: CK16108.TX0

Method Blank File ID: CK16106.TX0

Blank Spike File ID: CK16103.TX0

Matrix Spike File ID: CK16123.TX0

Matrix Spike Duplicate File ID: CK16124.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: 602 Table 2

(***) = Source: 602 Table 2

SAMPLES IN BATCH(SPL ID): 9811604-01A 9811604-02A 9811604-03A 9811604-04A 9811604-05A 9811604-06A

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

** SPL QUALITY CONTROL REPORT **

Matrix: Liquid

Reported on: 11/16/98
Analyzed on: 11/16/98
Analyst: DD

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Lead, Total
Method 239.2 *

SPL Sample ID Number	Method Blank mg/L	Sample Result mg/L	Spike Added mg/L	Matrix Spike Result mg/L	Matrix Spike Recovery %	Matrix Spike Duplicate Result mg/L	Matrix Spike Duplicate Recovery %	RPD (%)	QC LIMITS (Advisory) RPD Max	QC LIMITS (Advisory) % REC
9811604-05D	ND	ND	0.040	0.047	118	0.047	118	0	20	75 -125

3100981116100500-9811827

Samples in batch:

9811604-01D 9811604-02D 9811604-03D 9811604-04D
9811604-05D

COMMENTS:

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

** SPL QUALITY CONTROL REPORT **

Matrix: Liquid

Reported on: 11/16/98
Analyzed on: 11/16/98
Analyst: DD

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Lead, Total
Method 239.2 *

SPL Sample ID Number	Blank Value mg/L	LCS Concentration mg/L	Measured Concentration mg/L	% Recovery	QC Limits Recovery
LCS	ND	0.040	0.045	112	80 - 120

3100981116100500-9811828

Samples in batch:

9811604-01D 9811604-02D 9811604-03D 9811604-04D
9811604-05D

COMMENTS:

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

** SPL QUALITY CONTROL REPORT **

Matrix: Water

Reported on: 11/19/98
Analyzed on: 11/17/98
Analyst: SM

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

EDB with Micro extraction
Method 504 Revision 2.0

SPL Sample ID Number	Method Blank µg/L	Sample Result µg/L	Spike Added µg/L	Matrix Spike Result µg/L	Matrix Spike Recovery %	Matrix Spike Duplicate Result µg/L	Matrix Spike Duplicate Recovery %	RPD (%)	QC LIMITS (Advisory) RPD Max	QC LIMITS (Advisory) % REC
BLANK_SPIKE	ND	ND	0.28	0.36	129	0.34	121	6.4	30	56 -152

EDBA981117173800-9811A01

Samples in batch:

9811604-01C 9811604-02C 9811604-03C 9811604-04C
9811604-05C

COMMENTS:

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

** SPL QUALITY CONTROL REPORT **

Matrix: Water

Reported on: 11/19/98
Analyzed on: 11/17/98
Analyst: SM

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

EDB with Micro extraction
Method 504 Revision 2.0

SPL Sample ID Number	Blank Value µg/L	LCS Concentration µg/L	Measured Concentration µg/L	% Recovery	QC Limits Recovery
LCS	ND	0.28	0.25	89.3	56 - 152

EDBA981117173800-9811A02

Samples in batch:

9811604-01C 9811604-02C 9811604-03C 9811604-04C
9811604-05C

COMMENTS:

SPL COMPOUND

SURROGATE RECOVERY SUMMARY
11/25/98 16:39:39

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Method 625 40 CFR Part 136 BATCH#:E981117045430
WORK ORDER: 9811604-01G CLIENT SAMPLE ID:MW-7

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
2-Fluorobiphenyl	50	48	96	43- 116
2-Fluorophenol	75	39	52	21- 110
Nitrobenzene-d5	50	46	92	35- 114
Phenol-d5	75	28	37	10- 110
Terphenyl-d14	50	47	94	33- 141
2,4,6-Tribromophenol	75	69	92	10- 123
2-Chlorophenol-d4	75	69	92	33- 110
1,2-Dichlorobenzene-d4	50	47	93	16- 110

Method 625 40 CFR Part 136 BATCH#:E981117045430
WORK ORDER: 9811604-02G CLIENT SAMPLE ID:MW-8

2-Fluorobiphenyl	50	39	79	43- 116
2-Fluorophenol	75	37	50	21- 110
Nitrobenzene-d5	50	35	71	35- 114
Phenol-d5	75	30	40	10- 110
Terphenyl-d14	50	42	83	33- 141
2,4,6-Tribromophenol	75	63	84	10- 123
2-Chlorophenol-d4	75	57	76	33- 110
1,2-Dichlorobenzene-d4	50	39	79	16- 110

Method 625 40 CFR Part 136 BATCH#:E981117045430
WORK ORDER: 9811604-03G CLIENT SAMPLE ID:MW-3

2-Fluorobiphenyl	50	49	98	43- 116
2-Fluorophenol	75	39	52	21- 110
Nitrobenzene-d5	50	49	99	35- 114
Phenol-d5	75	26	35	10- 110
Terphenyl-d14	50	48	96	33- 141
2,4,6-Tribromophenol	75	81	108	10- 123
2-Chlorophenol-d4	75	72	95	33- 110
1,2-Dichlorobenzene-d4	50	49	97	16- 110

Method 625 40 CFR Part 136 BATCH#:E981117045430
WORK ORDER: 9811604-04G CLIENT SAMPLE ID:DMW-5

2-Fluorobiphenyl	50	43	86	43- 116
2-Fluorophenol	75	34	46	21- 110
Nitrobenzene-d5	50	39	78	35- 114
Phenol-d5	75	24	33	10- 110
Terphenyl-d14	50	42	84	33- 141
2,4,6-Tribromophenol	75	60	80	10- 123
2-Chlorophenol-d4	75	62	82	33- 110

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
1,2-Dichlorobenzene-d4	50	41	82	16- 110

Method 625 40 CFR Part 136 **BATCH#:**E981117045430
WORK ORDER: 9811604-05G **CLIENT SAMPLE ID:**WILLIAMS

2-Fluorobiphenyl	50	50	100	43- 116
2-Fluorophenol	75	39	52	21- 110
Nitrobenzene-d5	50	46	91	35- 114
Phenol-d5	75	26	35	10- 110
Terphenyl-d14	50	48	96	33- 141
2,4,6-Tribromophenol	75	70	94	10- 123
2-Chlorophenol-d4	75	73	97	33- 110
1,2-Dichlorobenzene-d4	50	49	98	16- 110

Method 625 40 CFR Part 136 **BATCH#:**E981117045430
WORK ORDER: Method Blank **CLIENT SAMPLE ID:**

2-Fluorophenol	75	38	50	21- 110
Phenol-d5	75	26	34	10- 110
2-Chlorophenol-d4	75	72	96	33- 110
1,2-Dichlorobenzene-d4	50	41	82	16- 110
Nitrobenzene-d5	50	48	96	35- 114
2-Fluorobiphenyl	50	45	90	43- 116
2,4,6-Tribromophenol	75	68	90	10- 123
Terphenyl-d14	50	48	95	33- 141

Method 625 40 CFR Part 136 **BATCH#:**E981117045430
WORK ORDER: LCS **CLIENT SAMPLE ID:**

2-Fluorophenol	75	37	49.3	21- 110
Phenol-d5	75	25	33.3	10- 110
2-Chlorophenol-d4	75	72	96.0	33- 110
1,2-Dichlorobenzene-d4	50	43	86.0	16- 110
Nitrobenzene-d5	50	50	100	35- 114
2-Fluorobiphenyl	50	46	92.0	43- 116
2,4,6-Tribromophenol	75	78	104	10- 123
Terphenyl-d14	50	46	92.0	33- 141

Method 625 40 CFR Part 136 **BATCH#:**E981117045430
WORK ORDER: LCS Duplicate **CLIENT SAMPLE ID:**

2-Fluorophenol	75	37	49.3	21- 110
Phenol-d5	75	26	34.7	10- 110
2-Chlorophenol-d4	75	71	94.7	33- 110
1,2-Dichlorobenzene-d4	50	45	90.0	16- 110
Nitrobenzene-d5	50	50	100	35- 114
2-Fluorobiphenyl	50	48	96.0	43- 116

SPL COMPOUND®
LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

SURROGATE RECOVERY SUMMARY
11/25/98 16:39:39

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
2,4,6-Tribromophenol	75	78	104	10- 123
Terphenyl-d14	50	46	92.0	33- 141

Method 602 40 CFR PART 136 **BATCH#:**HPCC981115095902
WORK ORDER: 9811604-01A **CLIENT SAMPLE ID:**MW-7

1,4 Difluorobenzene	30	26.8015	89	67- 141
4,Bromofluorobenzene	30	27.4775	92	63- 135

Method 602 40 CFR PART 136 **BATCH#:**HPCC981115095902
WORK ORDER: 9811604-02A **CLIENT SAMPLE ID:**MW-8

1,4 Difluorobenzene	30	26.5817	89	67- 141
4,Bromofluorobenzene	30	28.1916	94	63- 135

Method 602 40 CFR PART 136 **BATCH#:**HPCC981115095902
WORK ORDER: 9811604-03A **CLIENT SAMPLE ID:**MW-3

1,4 Difluorobenzene	30	21.8475	73	67- 141
4,Bromofluorobenzene	30	27.0943	90	63- 135

Method 602 40 CFR PART 136 **BATCH#:**HPCC981115095902
WORK ORDER: 9811604-04A **CLIENT SAMPLE ID:**DMW-5

1,4 Difluorobenzene	30	26.3979	88	67- 141
4,Bromofluorobenzene	30	27.8898	93	63- 135

Method 602 40 CFR PART 136 **BATCH#:**HPCC981115095902
WORK ORDER: 9811604-05A **CLIENT SAMPLE ID:**WILLIAMS

1,4 Difluorobenzene	30	26.4923	88	67- 141
4,Bromofluorobenzene	30	27.8354	93	63- 135

Method 602 40 CFR PART 136 **BATCH#:**HPCC981115095902
WORK ORDER: 9811604-06A **CLIENT SAMPLE ID:**TRIP BLANK

1,4 Difluorobenzene	30	26.3904	88	67- 141
4,Bromofluorobenzene	30	28.4526	95	63- 135

Method 602 40 CFR PART 136 **BATCH#:**HPCC981115095902
WORK ORDER: Method Blank **CLIENT SAMPLE ID:**

1,4 Difluorobenzene	30	26.6197	89	67- 141
4,Bromofluorobenzene	30	28.0444	93	63- 133

SURROGATE RECOVERY SUMMARY
11/25/98 16:39:39

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Method 602 40 CFR PART 136 BATCH#:HPCC981115095902
WORK ORDER: LCS CLIENT SAMPLE ID:

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
1,4 Difluorobenzene	30	30.8665	103	67- 141
4,Bromofluorobenzene	30	27.5885	92.0	63- 135

Method 602 40 CFR PART 136 BATCH#:HPCC981115095902
WORK ORDER: Matrix Spike CLIENT SAMPLE ID:9811614-02A

1,4 DIFLUOROBENZENE	30	27.1901	91	67- 141
4,BROMOFLUOROBENZENE	30	27.478	92	63- 135

Method 602 40 CFR PART 136 BATCH#:HPCC981115095902
WORK ORDER: Matrix Spike Dup. CLIENT SAMPLE ID:9811614-02A

1,4 Difluorobenzene	30	27.6374	92	67- 141
4,Bromofluorobenzene	30	28.3486	94	63- 135

Method 601 40 CFR PART 136 BATCH#:HPOO981118095400
WORK ORDER: 9811604-01B CLIENT SAMPLE ID:MW-7

Bromochloromethane	10	10.5299	105	70- 139

Method 601 40 CFR PART 136 BATCH#:HPOO981118095400
WORK ORDER: 9811604-02B CLIENT SAMPLE ID:MW-8

Bromochloromethane	10	11.0439	110	70- 139

Method 601 40 CFR PART 136 BATCH#:HPOO981118095400
WORK ORDER: 9811604-03B CLIENT SAMPLE ID:MW-3

Bromochloromethane	10	10.5643	106	70- 139

Method 601 40 CFR PART 136 BATCH#:HPOO981118095400
WORK ORDER: 9811604-04B CLIENT SAMPLE ID:DMW-5

Bromochloromethane	10	11.3658	114	70- 139

Method 601 40 CFR PART 136 BATCH#:HPOO981118095400
WORK ORDER: 9811604-05B CLIENT SAMPLE ID:WILLIAMS

Bromochloromethane	10	11.0028	110	70- 139

SPL COMPOUND

SURROGATE RECOVERY SUMMARY
11/25/98 16:39:39

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PKWY.
SCOTT, LOUISIANA 70583-8544
PHONE (318) 237-4775
FAX (318) 237-8005

Method 601 40 CFR PART 136 BATCH#:HPOO981118095400
WORK ORDER: 9811604-06B CLIENT SAMPLE ID:TRIP BLANK

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
Bromochloromethane	10	10.9725	110	70- 139

Method 601 40 CFR PART 136 BATCH#:HPOO981118095400
WORK ORDER: Method Blank CLIENT SAMPLE ID:

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
Bromochloromethane	10	10.8858	109	70- 139

Method 601 40 CFR PART 136 BATCH#:HPOO981118095400
WORK ORDER: LCS CLIENT SAMPLE ID:

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
Bromochloromethane	10	10.31	103	70- 139

Method 601 40 CFR PART 136 BATCH#:HPOO981118095400
WORK ORDER: Matrix Spike CLIENT SAMPLE ID:9811639-05A

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
BROMOCHLOROMETHANE	10	10.2466	102	70- 139

Method 601 40 CFR PART 136 BATCH#:HPOO981118095400
WORK ORDER: Matrix Spike Dup. CLIENT SAMPLE ID:9811639-05A

	AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
Bromochloromethane	10	10.3663	104	70- 139

« = Recovery outside of control limits
* = Methods for Chemical Analysis of Water & Wastes,1983,EPA
** = Standard Methods for Examination of Water & Wastewater,17th
*** = Test Methods for Evaluating Solid Waste,EPA SW846,3rd

SPL/LE/SM-F1.06

ZIP 70583-8544
PHONE: (318) 237-4775

Sample Receipt Checklist

0811604

Client: Same	COC Serial #: 15916			
Project #: 33592 7785	Project Loc: NC	Yes	No	NA
Are Custody seals on the shipping container present and intact?		—		
Chain-of-Custody (COC) present and signed by the sampler?		✓		
Traffic reports, airbills, or bills of lading present?		—		
Are sample containers intact?		✓		
Are sample tags/field labels present on each sample?		✓		
Are all samples present in the sample kit listed on the COC?		✓		
Do date/time of sample collection agree with COC?		✓		
Do sample tags/field tags agree with COC?		✓		
Does sample type agree with COC?		✓		
Does the number of bottles recieved for each parameter agree with COC?		✓		
Does the bottle type and volume agree with COC?		✓		
Are the analyses requested listed on the COC?		✓		
Is the sample kit temperature 2 - 6 degrees C?		✓		
Record the temperature in degrees C in the NA column.		✓		4C
Is the pH of all preserved samples checked and documented properly?		✓		
Are all samples preserved according to EPA guidelines?		✓		
Are all samples within the EPA maximum holding times?		✓		
Do sample containers conform to EPA guidelines?		✓		
Did the receiving technician record the date/time of receipt and sign the COC?		✓		
Was a nonconformance filled out for any items with a NO response?			✓	

Method of sample delivery to SPL and airbill number where applicable (circle one)?

(Fed-X) . UPS Other: 808030475818

Method of sample disposal:(circle one) (SPL Disposal) HOLD Return to Client

Receiving Technician signature: RC	Date/Time: 11-13-08 11:20

SNA33

USA Airbill

FedEx Tracking Number 808030475818

Form I.D. No. 0210

Recipient's Copy

1/12/98 [redacted]

Gary Simox — Phone (336) 288-7188

Company: S-ME, Inc.

Address: 3718 Old Battleground Rd — Dept/Floor/Suite/Room

City: GBO — State: NC — ZIP: 27410

2 Your Internal Billing Reference Information

3 To

Recipient's Name: KENNETH CONSTANTINE S&R — Phone (318 237-4775

Company: SOUTHERN PETROLEUM LAB

Address: 500 AMBASSADOR CAFFERY PKWY — Dept/Floor/Suite/Room

(To "HOLD" at FedEx location, print FedEx address here)

City: SCOTT — State: LA — ZIP: 70583

☐ Check here if residence (Extra charge applies for FedEx Express Saver)

For HOLD at FedEx Location check here

☐ Hold Weekday (Not available with FedEx First Overnight)

☐ Hold Saturday (Not available at all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

For WEEKEND Delivery check here

☐ Saturday Delivery (Available for FedEx Priority Overnight and FedEx 2Day only)

☐ NEW Sunday Delivery (Extra Charge. Not available at all locations) (Available for FedEx Priority Overnight only)

8 0 8 0 3 0 4 7 5 8 1 8

4a Express Package Service / *Packages under 150 lbs.* — Delivery commitment may be later in some areas.

☐ FedEx Priority Overnight (Next business morning)

☑ FedEx Standard Overnight (Next business afternoon)

☐ FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)

☐ FedEx 2Day (Second business day)

☐ FedEx Express Saver (Third business day)

FedEx Letter Rate not available. Minimum charge: One pound rate.

4b Express Freight Service *Packages over 150 lbs.* — Delivery commitment may be later in some areas.

☐ FedEx Overnight Freight (Next business day)

☐ FedEx 2Day Freight (Second business day)

☐ FedEx Express Saver Freight (Up to 3 business days)

(Call for delivery schedule. See back for detailed descriptions of freight services.)

5 Packaging

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

6 Special Handling (One box must be checked)

Does this shipment contain dangerous goods?* ☐ No ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)

☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ lb.

☐ Cargo Aircraft Only

*Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment

Bill to: ☐ Sender (Account No. in Section 1 will be billed) ☒ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

☐ Obtain Recipient FedEx Account No.

(Enter FedEx Account No. or Credit Card No. below)

[redacted]

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

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

Credit Card Auth.

8 Release Signature

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

321

Questions?
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EPH (Aliphatics/Aromatics) Laboratory Reporting Form Continued

Client Name	UNOCAL	Laboratory Name	Southern Petroleum Labs
Project Name	#9787214, 1342 Trollingwood Rd.	NC Certification # (Lab)	487
Site Location	Mebane, NC		

INCLUDE APPROPRIATE UNITS

Sample Information and Analytical Results							
Lab ID	9811604-01E	9811604-02E	9811604-03E	9811604-04E	9811604-05E	9811604-05E	
Sample Identification	MW-7	MW-8	MW-3	DMW-5	Williams	Williams	
Sample Matrix	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	
Date Collected	11/11/98	11/11/98	11/11/98	11/11/98	11/11/98	11/11/98	
Date Received	11/13/98	11/13/98	11/13/98	11/13/98	11/13/98	11/13/98	
Date Extracted	11/17/98	11/17/98	11/17/98	11/17/98	11/17/98	11/17/98	
Dry Weight	NA	NA	NA	NA	NA	NA	
Dilution Factor - Aliphatics	1	1	1	1	1	1	
Date Analyzed - Aliphatics	11/19/98	11/19/98	11/19/98	11/19/98	11/19/98	11/19/98	
Dilution Factor - Aromatics	1	1	1	1	1	1	
Date Analyzed - Aromatics	11/20/98	11/20/98	11/20/98	11/20/98	11/20/98	11/20/98	
C9 - C18 Aliphatics*	0.130	0.140	0.130	0.10	0.20	0.18	
C19 - C36 Aliphatics*	ND	ND	ND	ND	ND	ND	
C11 - C22 Aromatics*	ND	ND	ND	ND	ND	ND	
COD Surrogate % Recovery	60	51	53	57	58	60	
O-T Surrogate % Recovery	58	54	60	61	54	60	
Fractionation Surrogate % Recovery 2-Bromonaphthalene	62	67	53	59	56	62	
Fractionation Surrogate % Recovery 2-Fluorobiphenyl	71	67	69	69	63	68	

*Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

	C9 - C18 Aliphatic	C19 - C36 Aliphatic	C11 - C22 Aromatic
Percent Recovery - Fortified Blank (Spike)	70	72	73
Relative Percent Difference - Sample Duplicates	10	NA	NA

revision 5/6/98

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date 5/5/98

Calibration Ranges and Limits

Range	MDL	ML	RL
C9 - C18 Aliphatics	59	190	60
C19 - C36 Aliphatics	125	400	125
C11 - C22 Aromatics	380	1200	380

NOTE: Please include units as appropriate

Method of Quantitation (check one): Curve or Average Response Factor

Calibration Concentration Levels

Range	Levels µg/L	%RSD ☒ CCC ☐
C9 - C18 Aliphatics	30	6.1
	60	
	120	
	300	
	600	
	1200	
C19 - C36 Aliphatics	40	3.7
	80	
	160	
	400	
	800	
	1600	
C11 - C22 Aromatics	170	2.6
	850	
	1700	
	2550	
	3400	

NOTE: Please include units as appropriate

Calibration Check Date 11/19/98

Calibration Check

Range	Level µg/L	RPD
C9 - C18 Aliphatics	600	21
C19 - C36 Aliphatics	800	18
C11 - C22 Aromatics	1700	22

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

revision 5/6/98

VPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date 8/1/98

Calibration Ranges and Limits

Range	MDL	ML	RL
C5 - C8 Aliphatics	0.08	0.25	0.25
C9 - C12 Aliphatics	0.08	0.25	0.25
C9 - C10 Aromatics	0.08	0.25	0.25

NOTE: Please include units as appropriate

Method of Quantitation (check one): Curve or Average Response Factor

Calibration Concentration Levels

Range	Levels mg/L	%RSD ☒ CCC ☐
C5 - C8 Aliphatics	0.04	10.9
	0.08	
	0.16	
	0.40	
	0.80	
	1.2	
	1.6	
	4.0	
C9 - C12 Aliphatics	0.01	10.3
	0.02	
	0.04	
	0.10	
	0.20	
	0.30	
	0.40	
	1.0	
C9 - C10 Aromatics	0.01	9.1
	0.02	
	0.04	
	0.10	
	0.20	
	0.30	
	0.40	
	1.0	

NOTE: Please include units as appropriate

Calibration Check Date 11/22/98

Calibration Check

Range	Level mg/L	RPD
C5 - C8 Aliphatics	2.0	4.3
C9 - C12 Aliphatics	0.5	12
C9 - C10 Aromatics	0.5	7.0

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

revision 5/6/98

VPH (Aliphatics/Aromatics) Laboratory Reporting Form Continued

Client Name: Unocal Corporation

Project Name: #9787214,1342 Trollingwood Rd

Site Location: Mebane, NC

Laboratory Name: Southern Petroleum

NC Certification # (Lab): 487

INCLUDE APPROPRIATE UNITS

Sample Information and Analytical Results							
Lab ID	9811604-01F	9811604-02F	9811604-03F	9811604-04F	9811604-05F		
Sample Identification	MW-7	MW-8	MW-3	DMW-5	WILLIAMS		
Sample Matrix	WATER	WATER	WATER	WATER	WATER		
Date Collected	11/11/98	11/11/98	11/11/98	11/11/98	11/11/98		
Date Received	11/13/98	11/13/98	11/13/98	11/13/98	11/13/98		
Date Extracted	11/22/98	11/22/98	11/22/98	11/22/98	11/22/98		
Date Analyzed	11/22/98	11/22/98	11/22/98	11/22/98	11/22/98		
Dry Weight	NA	NA	NA	NA	NA		
Dilution Factor	1	1	1	1	1		
C5 - C8 Aliphatics*	ND	ND	0.28	ND	ND		
C9 - C12 Aliphatics*	ND	ND	ND	ND	ND		
C9 - C10 Aromatics*	ND	ND	ND	ND	ND		
Surrogate % Recovery - PID	99	100	97	99	100		
Surrogate % Recovery - FID	97	100	96	97	98		

Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. Encore) Option 3 = Field weight of soil

*Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

	C5 - C8 Aliphatic	C9 - C12 Aliphatic	C9 - C10 Aromatic
Percent Recovery - Matrix (Spike) - PID	NA	NA	95
Relative Percent Difference - PID Duplicate	NA	NA	2.1
Percent Recovery - Matrix (Spike) - FID	83	75	NA
Relative Percent Difference - FID Duplicate	4.7	6.5	NA
Percent Recovery - Fortified Blank (Spike) - PID	NA	NA	100
Percent Recovery - Fortified Blank (Spike) - FID	110	130	NA

NC = Not calculated (Sample exceeds spike by factor of 4 or more)

revision 5/6/98

9811604

SPL Laboratories, Inc.

☐ 1511 East Orangethorpe Ave.
Fullerton, CA 92631
(714) 447-6868
Fax:(714) 447-6800

☐ 8880 Interchange Drive
Houston, Texas 77054
(713) 660-0901
Fax: (713) 660-8975

☐ 500 Ambassador Caffery Pkwy.
Scott, Louisiana 70583
(318) 237-4775
Fax: (318) 237-7080

UNOCAL

Chain of Custody Record

PINK - Client

Company Name: S&ME, INC.	Project Name: UNOCAL MEBANE 9787-214
Address: 9751 S. PINE BLVD.	UNOCAL Project Manager:
City: CHARLOTTE State: NC Zip Code: 28273	AFE#: 335927785
Telephone: FAX:	Site #:
Report To: STEWART HINES Sampler: GARY SIMCOX	QC Data: ☑ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: (Calendar Days) ☐ 10 Days (Standard) ☐ 5 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☑ Other

CODE: ☐ Misc. ☐ Detecl. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	LOI	602 + MTBE + IPE	504.1 (EDB)	DB 3030C	EPH	VPH	625 + 10 HIGHEST NON-TARGETED PEAKS			Comments
MW-7	11/11/98 8:30	W	11			X	X	X	X	X	X	X			
MW-8	11/11/98 9:30	W	11			X	X	X	X	X	X	X			
MW-3	11/11/98 10:00	W	11			X	X	X	X	X	X	X			601W
DMW-5	11/11/98 11:30	W	11			X	X	X	X	X	X	X			B602M2
WILLIAMS	11/11/98 12:30	W	11			X	X	X	X	X	X	X			P504.504-1W
T:3	11-3-98 15:30					X	X								PW3030, PBWG
															EXMACF, EPHMAW, EXMA7F,8
															VPHMAW
															PCP/625-625, TICSW 11/20/98

Relinquished By:	Date: 11/12/98	Time: 3:10P	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date: 11-13-98	Time: 11:20

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: _____