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POST STEAM REMEDIATION LIMITED SOILS INVESTIGATION VISALIA POLE YARD VISALIA, CALIFORNIA

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POST STEAM REMEDIATION
LIMITED SOILS INVESTIGATION
VISALIA POLE YARD
VISALIA, CALIFORNIA

INTRODUCTION

This limited soils investigation was conducted to preliminarily evaluate the efficacy of the Visalia Steam Remediation Project in removing the pole-treating chemical mass from the subsurface at the SCE Visalia Pole Yard. In conducting the investigation, the soil boring locations were selected because they represented the most highly contaminated areas as determined from past site characterization.

FIELD INVESTIGATION

The field investigation was conducted between September 11th and 15th, 2000. Five soil borings were advanced, utilizing 8-inch diameter hollow-stem auger equipment, to depths ranging from 61.5 feet to 121.5 feet below grade. Boring locations are shown on the Soil Boring Location Map, Figure 1. Undisturbed soil samples were generally collected on either 5-foot or 10-foot intervals. Soils were classified in the field by visual inspection using the Unified Soil Classification System (USCS), by a California Registered Geologist. Drilling and sampling activities were overseen by Dr. Eva Davis, of USEPA, and Harold King and Emmanuel Mensah, of DTSC. Boring Logs are included in Appendix A.

Soil samples were collected at the intervals noted in the boring logs, using a California modified split spoon sampler, lined with three, 6-inch brass sampling tubes. At each sampling interval, the sampler was driven eighteen inches using a standard 140-pound hammer. The number of blow counts to drive each 6-inch interval was recorded to document soil density and consistency.

Upon retrieval of the sampler, the lowermost 6-inch brass tube was labeled for laboratory submittal with the appropriate boring number and sample depth. The open ends of the tube were sealed with Teflon™ sheets, plastic end caps, and PVC tape. Collected samples were logged into a chain-of-custody form, cooled temporarily in an ice chest, and then transferred to an on-site freezer.

They were stored in the freezer until delivery to the environmental testing laboratory. Copies of the Chain-of-Custody forms are attached in Appendix B.

ANALYTICAL PROGRAM

The three key chemicals of concern, as documented in the 1994 Visalia Pole Yard Remedial Action Plan (RAP), are: 1) benzo(a)pyrene; 2) pentachlorophenol, and; 3) TCDD equivalents. A total of 98 soil samples were submitted to the laboratory for analysis that included the key chemicals of concern. Samples were analyzed for: 1) polynuclear aromatic hydrocarbons and pentachlorophenol by EPA Method 8270 (semi-volatile organics), and; 2) TCDD equivalents by EPA Method 8280 (dioxins/furans). These are the same methods used in previous investigations.

Following receipt of the semi-volatile organics results, the data was evaluated to determine a representative sub-group of samples for analysis of TCDD equivalents. The criteria for selection were: 1) surficial samples (top ten feet) in the original source area; 2) the three highest pentachlorophenol concentrations from individual borings in this investigation, and; 3) where relatively high concentrations of dioxins/furans were observed in borings from the Remedial Investigation (specifically B-75(91)). It was understood that this analytical scheme would lead to exceedance of standard EPA holding times. However, for the following reasons, we considered the approach appropriate. First, we wanted to evaluate whether steam remediation had any effect on the pentachlorophenol and dioxin/furan relationship, i.e., were the dioxins/furans preferentially removed? Second, dioxins/furans are considered some of the most recalcitrant compounds in existence, so there is a low probability of significant degradation during the extended holding time. Third, all samples were maintained in a frozen state until analyzed.

Copies of all laboratory reports are included in Appendix B, along with corresponding chain-of-custody forms.

FINDINGS

The subsurface geologic conditions have been very well characterized in the many earlier site investigations, which includes the 1992 Remedial Investigation (RI), where the stratigraphic nomenclature noted below was first developed. The conditions observed during this investigation were generally

similar. In general, the top thirty feet are composed of silts and silty sands. Between thirty and thirty-five feet, the previously identified "30-foot silt" was observed in all five borings. The "Shallow Aquifer", generally composed of silty sands and gravelly sands, was encountered between thirty-five and fifty feet. The "Shallow Aquitard", composed of moderately dense silt, was observed between about 50 and 80 feet deep. The "60-Foot Sand", located in the middle of the "Shallow Aquitard", is composed of a sand-silt mixture generally encountered between 60 and 70 feet deep. The depth from 80 to 100 feet comprises the "Intermediate Aquifer", composed of silty sands and gravels. In this investigation, the bottom of the aquifer was observed to be at about 107-108 feet below grade, with the exception of boring S-14(00). The "Intermediate Aquitard", composed generally of dense silts, was the lowermost zone investigated. It generally extends to about 120 feet below grade.

Results of the analytical program in soils, for the chemicals of concern in each individual boring, are summarized in Table 1.

Site-wide averages for the chemicals of concern, as well as those for individual borings, are shown in Table 2. The Table includes averages for: 1) the depth interval of 0-10 feet; 2) the depth interval between 10 and 60 feet (ground water is at about 60 feet below grade), and; 3) the entire interval investigated. Also included are the site-specific remediation standards for comparison.

The site-wide averages tabulated were chosen for the following reasons. The 0-10 foot interval represents the typical depth for the application of the "soil" cleanup standards for human exposures. The 10-60 foot interval is the unsaturated zone of the site that may be subject to a deed restriction if it does not meet the cleanup standards or acceptable risk levels. Soil below sixty feet, in the saturated zone, is not subject to soil cleanup standards, but rather, is evaluated based on the ground water cleanup standard.

DISCUSSION

Based on a comparison of the site-wide averages with the remediation standards, it is apparent that the current soil concentrations, on average, are very near the remediation standards. For the top ten feet, the typical surface exposure route (for human health risk), all standards are met.

For the depth interval between ten feet and ground water (approximately sixty feet): benzo(a)pyrene is approximately 1.5 times the standard; pentachlorophenol is approximately 3 times the standard; and TCDD

equivalents are approximately ten times the remediation standard. Assuming the site-specific remediation standard values are based on a health risk of 10^{-6}, all average values are $1X10^{-5}$ or lower. If the latest TCDD equivalents (World Health Organization, 1997) were used, all concentrations would be well within the 10^{-6} health risk range.

For the site-wide average, the benzo(a)pyrene average is less than two times the remediation standard; pentachlorophenol is approximately 1.6 times the standard; and TCDD equivalents approximately 7.6 times the standard. Once again, assuming the remediation standards are based on a 10^{-6} health risk, all average concentrations are within the 10^{-6} risk range.

Considering this sampling program was extremely biased towards evaluating thermal remediation changes to the most highly contaminated areas of the site, these results are very encouraging. We believe that an unbiased full-site characterization will result in our having met the cleanup standards identified in the Visalia Pole Yard RAP and will have acheived acceptable health risk conditions.

TABLES

TABLE 1

SUMMARY OF SOIL CONCENTRATIONS OF CHEMICALS OF CONCERN
VISALIA POLE YARD POST-STEAM REMEDIATION INVESTIGATION

DEPTH (feet)	BENZO(A)PYRENE (µg/Kg)	PENTACHLOROPHENOL (µg/Kg)	TCDD TEQ (µg/Kg)
B-75			
5			
10	ND(350)	ND(2,500)	
15			
20	ND(350)	ND(2,500)	
25			
30	ND(350)	ND(2,500)	0.00
35	ND(350)	ND(2,500)	
40	ND(350)	ND(2,500)	
45	ND(350)	ND(2,500)	
50	ND(350)	ND(2,500)	0.02
55	ND(350)	ND(2,500)	
60	ND(350)	ND(2,500)	
AVERAGE*	175*	1,250*	0.01

Note: Detection limit in parenthesis.
* Denotes average based on half the detection limit for non-detects.

TABLE 1 (CONT.)

DEPTH (feet)	BENZO(A)PYRENE (µg/Kg)	PENTACHLOROPHENOL (µg/Kg)	TCDD TEQ (µg/Kg)
MW-34/B-79			
5	ND(350)	ND(2,500)	0.0
10	ND(350)	ND(2,500)	0.55
15	530	ND(2,500)	
20	620	ND(2,500)	
25	610	270,000	11.02
30	630	140,000	13.26
35	1,100	ND(2,500)	
40	1,100	25,000	23.59
45	560	ND(2,500)	
50	1,500	2,600	
55	150	500	
65	ND(350)	ND(2,500)	
60	ND(350)	ND(2,500)	
70	ND(350)	ND(2,500)	
75	ND(350)	ND(2,500)	
80	ND(350)	ND(2,500)	
85	340	ND(2,500)	
90	180	ND(2,500)	
95	160	ND(2,500)	
100	ND(350)	ND(2,500)	
105	ND(350)	ND(2,500)	
110	1,600	ND(2,500)	
115	4,100	ND(2,500)	
120	1,300	ND(2,500)	
AVERAGE	669	20,026	9.68

Note: Detection limit in parenthesis.
* Denotes average based on half the detection limit for non-detects.

TABLE 1 (CONT.)

DEPTH (feet)	BENZO(A)PYRENE (µg/Kg)	PENTACHLOROPHENOL (µg/Kg)	TCDD TEQ (µg/Kg)
EW-1/B-82			
5	ND(350)	ND(2,500)	0.00
10	ND(350)	250	1.67
15	ND(350)	240,000	
20	60	ND(2,500)	
25	ND(350)	180,000	4.61
30	870	970,000	5.03
35	960	ND(2,500)	
40	300	510,000	12.23
45	170	120,000	
50	7,500	ND(2,500)	
55	230	33,000	
60	140	ND(2,500)	
65	3,600	ND(2,500)	
70	ND(350)	ND(2,500)	
75	1,700	ND(2,500)	
80	470	ND(2,500)	
85	120	ND(2,500)	
90	130	ND(2,500)	
95	ND(350)	ND(2,500)	
100	ND(350)	ND(2,500)	
105.5	8,800	ND(2,500)	
110	3,300	ND(2,500)	
115	ND(350)	ND(2,500)	
AVERAGE	1,293	90,141	4.71

Note: Detection limit in parenthesis.
* Denotes average based on half the detection limit for non-detects.

TABLE 1 (CONT.)

DEPTH (feet)	BENZO(A)PYRENE (µg/Kg)	PENTACHLOROPHENOL (µg/Kg)	TCDD TEQ (µg/Kg)
S-14(00)			
5	ND(350)	ND(2,500)	
10	ND(350)	ND(2,500)	
15	ND(350)	ND(2,500)	
20	ND(350)	ND(2,500)	
25	ND(350)	ND(2,500)	
30	ND(350)	ND(2,500)	
35	120	62,000	2.38
40	280	620	
45	830	3,800	13.05
50	1,200	3,800	27.06
55	3,400	ND(2,500)	
60	640	140	
65	210	ND(2,500)	
70	1,100	ND(2,500)	
75	150	ND(2,500)	
80	140	ND(2,500)	
85	760	ND(2,500)	
90	230	ND(2,500)	
95	1,400	ND(2,500)	
100	2,500	ND(2,500)	
102	110	ND(2,500)	
105	850	ND(2,500)	
110	600	ND(2,500)	
112	430	ND(2,500)	
115	1,400	ND(2,500)	
AVERAGE	696	3,814	14.16

Note: Detection limit in parenthesis.
* Denotes average based on half the detection limit for non-detects.

TABLE 1 (CONT.)

DEPTH (feet)	BENZO(A)PYRENE (µg/Kg)	PENTACHLOROPHENOL (µg/Kg)	TCDD TEQ (µg/Kg)
B-94(00)			
10	ND(350)	ND(2,500)	
20	ND(350)	ND(2,500)	
30	ND(350)	ND(2,500)	
40	ND(350)	ND(2,500)	
50	ND(350)	ND(2,500)	
55	120	ND(2,500)	
60	ND(350)	ND(2,500)	
65	ND(350)	ND(2,500)	
70	ND(350)	ND(2,500)	
75	ND(350)	ND(2,500)	
80	ND(350)	ND(2,500)	
85	ND(350)	ND(2,500)	
90	ND(350)	ND(2,500)	
95	ND(350)	ND(2,500)	
100	ND(350)	ND(2,500)	
105	ND(350)	ND(2,500)	
110	ND(350)	ND(2,500)	
115	ND(350)	ND(2,500)	
AVERAGE	172	1,250	NONE

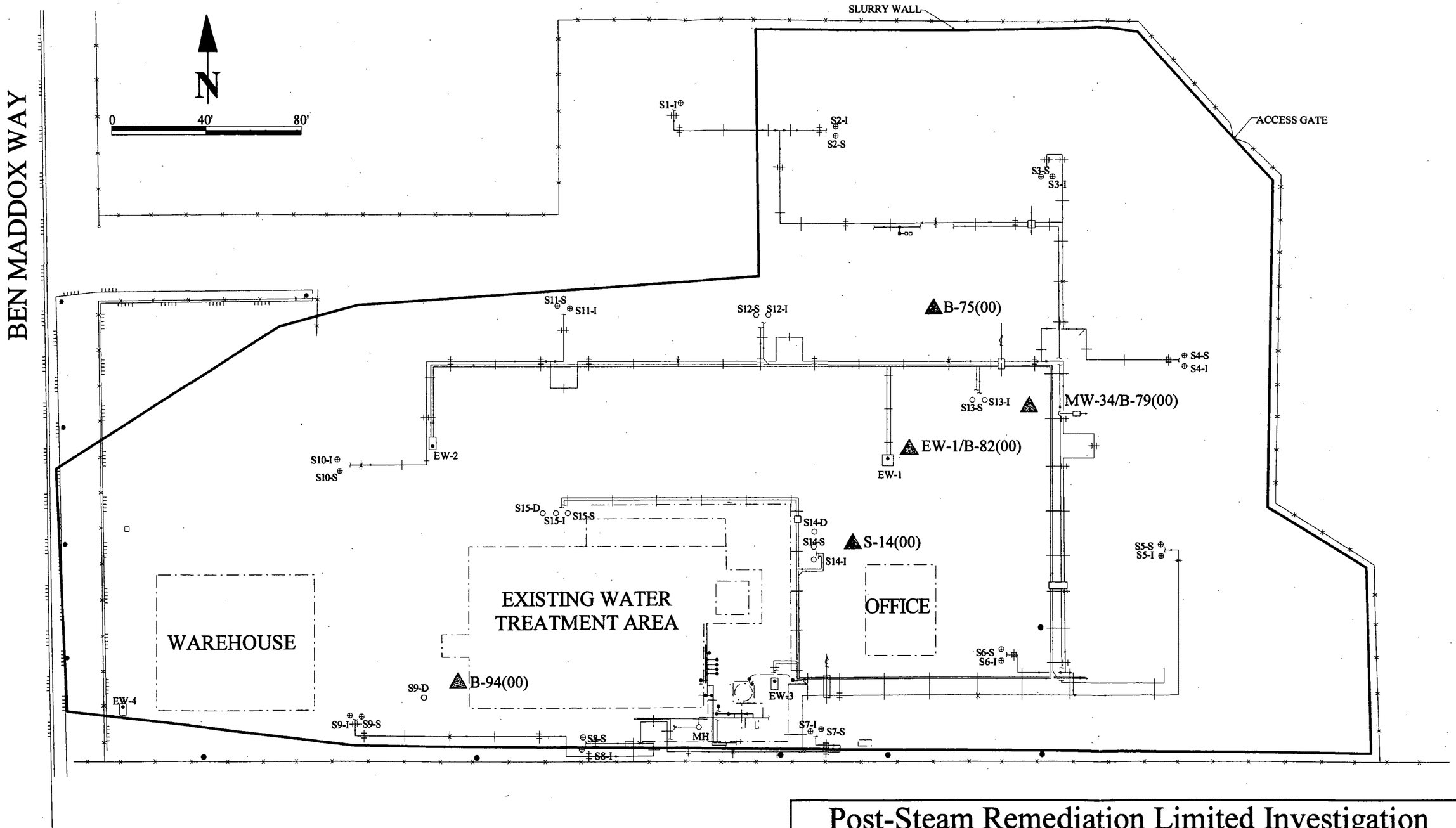
Note: Detection limit in parenthesis.
* Denotes average based on half the detection limit for non-detects.

TABLE 2

SITE-WIDE AVERAGE OF SOIL CONCENTRATIONS
CHEMICALS OF CONCERN
VISALIA POLE YARD POST-STEAM REMEDIATION INVESTIGATION

BORING NO.	BENZO(A)PYRENE (µg/Kg)	PENTACHLOROPHENOL (µg/Kg)	TCDD TEQ (µg/Kg)
B-75(00)	175	1,250	0.01
MW-34/B-79(00)	690	20,026	9.68
EW-1/B-82(00)	1,293	90,141	4.71
S-14(00)	696	3,814	14.16
B-94(00)	172	1,250	N/A
0-10' DEPTH AVERAGE	175	1,139	0.56
10'-60' DEPTH AVERAGE	597	56,499	10.20
SITE-WIDE AVERAGE	691	27,173	7.63
CLEANUP STANDARD	390	17,000	1.0

FIGURE



Legend

▲ Soil Boring Location

Post-Steam Remediation Limited Investigation

Soil Boring Location

Steam Remediation Project

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Figure 1

APPENDIX A

BORING LOGS

BORING NO. **B-75(00)** COOR./EL. **364164.93N 1918601.45E/334.74'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/11/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
					GM		Silt-sand-gravel fill. Railroad ballast.	0
					ML		Dk. yellowish brown, damp, sl. stiff sandy silt. No hydrocarbon odor.	
	3/5/3		B-75(00)-10	T			Reddish-brown mottled; soft clayey silt. No hydrocarbon odor.	10
	7/12/18		B-75(00)-20	T	SM		Mod. yellowish-brown, damp, med. dense sand-silt mixture. No hydrocarbon odor.	20
							Grades to silty fine to coarse, pebbly sand.	
	18/23/27		B-75(00)-30	T	ML		Dark yellowish-brown, dry, sl. stiff silt. No hydrocarbon odor.	30
	13/12/13	157	B-75(00)-35	T	SW		Grayish-orange, dry, loose, silty fine to medium sand.	
	13/13/11	146	B-75(00)-40	T				40
	18/18/20	156	B-75(00)-45	T			Pale yellowish-brown, dry, sl. dense silty fine to coarse sand with pebbles. No hydrocarbon odors.	
	13/13/11	158	B-75(00)-50	T	ML		Moderate yellowish-brown, damp, very stiff silt. No hydrocarbon odors.	50

BORING NO. **B-75(00)** COOR./EL. **364164.93N 1918601.45E/334.74'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/11/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
	13/13/11	158	B-75(00)-50	T	ML		Moderate yellowish-brown, damp, very stiff silt. No hydrocarbon odors.	50
	22/32/22	158	B-75(00)-55	T				
	12/16/25	164	B-75(00)-60	T				60
							Bottom of boring at 61.5'	70
								80
								90
								100

BORING NO. **MW-34/B-79(00)** COOR./EL. **364116.48N 1918642.33E/335.08'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/12/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
					ML		Dark yellowish-brown, damp, sl. stiff, fine sandy silt.	0
	12/16/20		MW34/B79(00)-5	T				
							Dusky yellowish-brown. "Sweet" organic odor.	10
	6/13/10	124	MW34/B79(00)-10	T				
					SM		Dusky yellowish-brown, damp, loose, silty fine-coarse sand.	
	5/11/15	132	MW34/B79(00)-15	T				
							Dusky yellowish-brown, damp, loose sand-silt mixture.	20
	2/3/3	159	MW34/B79(00)-20	T	ML		Dark yellowish-brown, damp, loose silt. "Sweet" organic odor.	
					SM		Dark yellowish-brown, damp, loose sand-silt mixture. "Sweet" organic odor.	
	7/11/15	155	MW34/B79(00)-25	T				
								30
	10/7/10	154	MW34/B79(00)-30	T				
	6/6/12	161	MW34/B79(00)-35	T				
					ML		Dark yellowish-brown, damp, med. stiff sandy silt. Very slight "sweet" organic odor.	
					SM		Pale yellowish-brown, dry, loose, silty fine sand.	40
	12/12/15	141	MW34/B79(00)-40	T				
	8/12/14	144	MW34/B79(00)-45	T				
	7/10/13	147	MW34/B79(00)-50	T			Grades to silty fine-coarse sand, with small pebbles (10%).	50
					ML		Moderate yellowish-brown, damp, very stiff, silt.	

BORING NO. **MW-34/B-79(00)** COOR./EL. **364116.48N 1918642.33E/335.08'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/12/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
					SM		Grades to silty fine-coarse sand, with small pebbles (10%).	50
					ML		Moderate yellowish-brown, damp, very stiff, silt.	
	9/21/30	156	MW34/B79(00)-55	T				
	7/7/14	161	MW34/B79(00)-60	T			Dark yellowish-brown, damp, very stiff, fine-medium sandy silt.	60
					SM			
	11/14/28	151	MW34/B79(00)-65	T			Moderate yellowish-brown, moist, medium stiff, sand-silt mixture. No hydrocarbon odor.	
	19/50		MW34/B79(00)-70	T	ML		Moderate yellowish-brown, damp, very stiff, fine sandy silt. No hydrocarbon odor.	70
	15/17/26	138	MW34/B79(00)-75	T				
	15/17/22	117	MW34/B79(00)-80	T	SM		Moderate yellowish-brown, saturated, loose, silty fine-coarse sand. No hydrocarbon odor.	80
	4/4/10	106	MW34/B79(00)-85	T				
	9/30/50	100	MW34/B79(00)-90	T				90
	5/6/50	100	MW34/B79(00)-95	T				
	153/6"	100	MW34/B79(00)-100	T			Becomes pebbly (~20%).	100

BORING NO. **MW-34/B-79(00)** COOR./EL. **364116.48N 1918642.33E/335.08'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/12/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
					SM		**Moderate yellowish-brown, saturated, loose, silty fine-coarse sand. No hydrocarbon odor.**	100
	6/7/14	96	MW34/B79(00)-104	T				
	12/12/24	128	MW34/B79(00)-110	T	ML		**Dark yellowish-brown, moist, sl. stiff, fine sandy silt. Creosote stringers in top 6". Moderate creosote odor.**	110
	12/13/25	160	MW34/B79(00)-116	T			**Slight creosote odor.**	
	4/4/8		MW34/B79(00)-120	T			**Moderate creosote odor. Dark gray stringers in soil matrix.**	120
							Bottom of boring at 121.5'.	130
								140
								150

BORING NO. **EW-1/B-82(00)** COOR./EL. 364100.05N 1918589.68E/334.59'

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/12-13/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
					ML		**Dark yellowish-brown, damp, sl. stiff, fine sandy silt.**	0
	8/12/16		EW1/B82(00)-5	T				
							Dusky yellowish-brown.	10
	6/6/6	94	EW1/B82(00)-10	T	SM		**Dusky yellowish-brown to grayish-orange, damp, loose, sand-silt-pebble mixture.**	
	5/5/7	106	EW1/B82(00)-15	T			**Dark yellowish-brown, damp, med. dense sand-silt mixture. Slight "sweet" organic odor.**	
	4/4/6	111	EW1/B82(00)-20	T	ML		**Dark yellowish-brown, damp, sl. stiff silt. Sl.-mod. "sweet" organic odor.**	20
	6/9/12	107	EW1/B82(00)-25	T	SM		**Moderate yellowish-brown, damp, loose fine-v. coarse sand. V. slight "Sweet" organic odor.**	30
	7/8/16	114	EW1/B82(00)-30	T	ML		**Moderate yellowish-brown, dry, med. stiff silt. V. slight "sweet" organic odor.**	
	5/10/15		EW1/B82(00)-35	T	SM		**Moderate yellowish-brown, dry, loose silty fine-v. coarse sand. V. slight "sweet" organic odor.**	40
	7/7/11	134	EW1/B82(00)-40	T				
	10/12/17	156	EW1/B82(00)-45	T				
	14/16/20	165	EW1/B82(00)-50	T			**Grades to silty fine-coarse sand, with small pebbles (15%).**	50
					ML		**Moderate yellowish-brown, damp, very stiff, silt.**	

BORING NO. **EW-1/B-82(00)** COOR./EL. **364100.05N 1918589.68E/334.59'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/12-13/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
					SM		Grades to silty fine-coarse sand, with small pebbles (15%).	50
	11/23/34	183	MW34/B79(00)-55	T	ML		Moderate yellowish-brown to orange mottled, dry, med. stiff silt.	
	6/7/13	179	MW34/B79(00)-60	T				60
	13/23/24	157	MW34/B79(00)-65	T	SM		Dark yellowish-brown, wet, sl. dense, silty fine-coarse sand. No hydrocarbon odor.	
	16/35/40	155	MW34/B79(00)-70	T			Moderate yellowish-brown, moist, med. dense sand-silt mixture. No odor.	70
	11/18/32	152	MW34/B79(00)-75	T	ML		Dark yellowish-brown, damp, med. stiff, silt. No hydrocarbon odor. Minor sheen in soil/water jar test.	
	7/33/45	124	MW34/B79(00)-80	T	SM		Dark yellowish-brown, saturated, loose, silty fine-coarse sand, with pebbles (<5%). No hydrocarbon odor.	80
	14/24/27	109	MW34/B79(00)-85	T			Moderate yellowish-brown, wet, loose sand-silt mixture. No odor. No sheen.	
	11/15/26	111	MW34/B79(00)-90	T				90
	12/34/26	106	MW34/B79(00)-95	T				
	20/20/50+	104	MW34/B79(00)-100	T			Dark yellowish-brown, wet, mod. dense, sand-silt-gravel mixture. No odor. No sheen.	100
	9/6/12		-101.5	T				
	1/1/1		-103	T				
	3/7/15		-104.5	T				

BORING NO. **EW-1/B-82(00)** COOR./EL. **364100.05N 1918589.68E/334.59'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/12-13/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
								100
	20/20/50+	104	EW1/B82(00)-100	T	SM		Dark yellowish-brown, wet, mod. dense, sand-silt-gravel mixture. No odor. No sheen.	
	9/6/12		-101.5	T				
	1/1/1		-103	T			Free product creosote in sampler.	
	3/7/15		-104.5	T				
			-106	T				
					ML		Moderate yellowish-brown, moist, med. stiff, silt.	
								110
	12/12/24	155	EW1/B82(00)-110	T				
	10/15/31	155	EW1/B82(00)-115	T			Free product creosote in middle core tube. Moderate creosote odor.	
								120
	1/2/8	152	EW1/B82(00)-120	T			No sample recovery. Probably loose, wet, granular soils.	
							Bottom of boring at 121.5'.	
								130
								140
								150

BORING NO. **S-14(00)** COOR./EL. **364058.08N 1918562.47E/335.19'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/13-14/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
					ML		Dark yellowish-brown, damp, soft, silt. No odor.	0
	3/4/7	108	S14(00)-5	T				
	3/3/3	117	S14(00)-10	T			Grades to clayey silt.	10
					SM		Pale yellowish-brown, damp, loose, fine-medium sand. No odor.	
	6/6/6	123	S14(00)-15	T				
	5/5/5	126	S14(00)-20	T				20
	3/3/4	126	S14(00)-25	T				
	9/10/13	140	S14(00)-30	T				30
					ML		Moderate yellowish-brown, dry, med. stiff silt. No odor.	
	9/13/20	133	S14(00)-35	T				
					SM		Moderate yellowish-brown, dry, loose, silty fine-coarse sand. No odor.	40
	8/10/15	126	S14(00)-40	T				
	12/15/25	143	S14(00)-45	T				
	10/17/19	144	S14(00)-50	T				50
					ML		Dark yellowish-brown, damp, med. stiff, silt. Slight creosote odor.	

BORING NO. S-14(00) COOR./EL. 364058.08N 1918562.47E/335.19'

PROJECT VISALIA POLE YARD POST-STEAM BORINGS

DRILLING METHOD 8" Hollow Stem Auger

DATE DRILLED 9/13-14/00 LOGGED BY RSWeidner

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
					SM		Moderate yellowish-brown, dry, loose, silty fine-coarse sand. No odor.	50
					ML		Dark yellowish-brown, damp, med. stiff, silt. Slight creosote odor.	
	8/18/28	161	S14(00)-55	T				
	6/9/13	172	S14(00)-60	T			Becomes clayey silt.	60
	14/50-6"	162	S14(00)-65	T				
					SM		Dark yellowish-brown, moist, med. dense, silt-sand mixture. No odor.	
	6/11/25	147	S14(00)-70	T				70
					ML		Dark yellowish-brown, moist, med. stiff, fine sandy silt with some gray mottling. No odor. No sheen in jar test.	
	3/4/7	144	S14(00)-75	T				
	2/1/3	139	S14(00)-80	T			Dark yellowish-brown, wet, soft/plastic, sandy silt with minor clay. No odor.	80
	3/4/31	112	S14(00)-85	T	SM		Dark yellowish-brown, saturated, sl. dense, silty, pebbly medium-coarse sand. No odor.	
	8/20/34	105	S14(00)-90	T			Pale yellowish-brown.	90
	7/9/15	114	S14(00)-95	T			Oily sheen on core.	
	5/16/37	116	S14(00)-100	T			Medium Dark gray. Moderate odor. No oily sheen in core.	100
	15/22/24	114	S14(00)-101.5	T				
					ML		Dark yellowish-brown, moist, med. stiff, silt. No odor. No oily sheen.	

BORING NO. **S-14(00)** COOR./EL. **364058.08N 1918562.47E/335.19'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/13-14/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
	5/16/37	116	S14(00)-100	T	SM			100
	15/22/24	114	S14(00)-101.5	T	ML		Dark yellowish-brown, moist, med. dense, silt. No creosote odor. No sheen.	
	9/9/10	117	S14(00)-105	T	SM		Dark yellowish-brown, saturated, loose, silt-sand mixture. Moderate creosote odor. Local oily sheen on core.	
	4/7/8	135	S14(00)-110	T	ML		Dark yellowish-brown, moist, med. stiff, clayey silt. No creosote odor. No sheen.	110
	11/12/18	170	S14(00)-111.5					
	1/2/3	161	S14(00)-115	T				
							Bottom of boring at 116.5'.	120
								130
								140
								150

BORING NO. **B-94(00)** COOR./EL. **363996.84N 1918387.56E/334.36'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/14-15/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
					ML		Dark yellowish-brown, damp, med. stiff, silt. No creosote odor.	0
	6/6/7	112	B94(00)-10	T				10
					SM		Pale yellowish-brown, damp, loose, fine-coarse sand. No creosote odor.	
	5/8/8	113	B94(00)-20	T				20
	14/13/10	123	B94(00)-30	T			Fine-medium sand. No creosote odor.	30
					ML		Dark yellowish-brown, damp, soft silt. No odor.	
					SM		Pale yellowish-brown, dry, loose, pebbly medium-very coarse sand. No odor.	40
	15/23/26	127	B94(00)-40	T				
	12/18/18	141	B94(00)-45	T				
	4/8/11	138	B94(00)-50	T	ML		Dark yellowish-brown, damp, med. stiff, silt. No creosote odor.	50

BORING NO. **B-94(00)** COOR./EL. **363996.84N 1918387.56E/334.36'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/14-15/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
					ML		**Dark yellowish-brown, damp, med. stiff, silt. No creosote odor.**	50
	7/8/16	155	B94(00)-55	T				
	12/12/13	157	B94(00)-60	T	SM		**Dark yellowish-brown, wet, med. dense, silty fine-coarse sand with trace pebbles. Very slight creosote odor.**	60
	4/6/8	148	B94(00)-70	T	ML		**Dark yellowish-brown, moist, very stiff, clayey, sandy silt. No creosote odor.**	70
	2/2/3	137	B94(00)-80	T	SM		**Pale yellowish-brown, wet, loose, silty fine-coarse sand. No odor.**	80
	3/3/3	134	B94(00)-90	T				90
								100

BORING NO. **B-94(00)** COOR./EL. **363996.84N 1918387.56E/334.36'**

PROJECT **VISALIA POLE YARD POST-STEAM BORINGS**

DRILLING METHOD **8" Hollow Stem Auger**

DATE DRILLED **9/14-15/00** LOGGED BY **RSWeidner**

WELL CONSTRUCTION	SAMPLE DATA: BLOWS/6"	TEMP. (F)	SAMPLE #	SAMPLE TYPE	SOIL TYPE: USCS	GRAPHIC LOG	DESCRIPTION	DEPTH (FEET)
	3/4/6	130	B94(00)-100	T	SM		Pale yellowish-brown, wet, loose, silty fine-coarse sand. No creosote odor. No sheen.	100
	3/5/8	128	B94(00)-101.5	T				
	Push	129	B94(00)-103	T				
	Push	128	B94(00)-104.5	T				
	Push	129	B94(00)-106	T				
	10/16/23	147	B94(00)-110	T	ML		Dark yellowish-brown, moist, med. stiff, silt. ?? creosote odor. No sheen.	110
	1/1/1	144	B94(00)-115	T	SM		Dark yellowish-brown, saturated, loose, silt-sand mixture. No creosote odor.	
							Bottom of boring at 116.5'.	120
								130
								140
								150

APPENDIX B

LABORATORY REPORTS

Calscience
Environmental
Laboratories, Inc.

September 29, 2000

Randy Weidner
Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Subject: **Calscience Work Order No.: 00-09-0517**
Client Reference: SCE VPY Steam Remediation

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 09/15/00 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
William H. Christensen
Quality Assurance Manager

William H. Christensen
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0517
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-75(00)-10	00-09-0517-1	09/11/00	Solid	09/19/00	09/20/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.17	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.16	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	104	31-142		Phenol-d6	109	30-136	
Nitrobenzene-d5	101	28-139		2-Fluorobiphenyl	94	33-144	
2,4,6-Tribromophenol	103	24-152		p-Terphenyl-d14	114	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0517
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-75(00)-20	00-09-0517-2	09/11/00	Solid	09/19/00	09/20/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	112	31-142		Phenol-d6	113	30-136	
Nitrobenzene-d5	104	28-139		2-Fluorobiphenyl	93	33-144	
2,4,6-Tribromophenol	103	24-152		p-Terphenyl-d14	113	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0517
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-75(00)-30	00-09-0517-3	09/11/00	Solid	09/19/00	09/20/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	0.47	0.50	1	J	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	102	31-142		Phenol-d6	106	30-136	
Nitrobenzene-d5	95	28-139		2-Fluorobiphenyl	88	33-144	
2,4,6-Tribromophenol	92	24-152		p-Terphenyl-d14	100	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0517
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-75(00)-35	00-09-0517-4	09/11/00	Solid	09/19/00	09/20/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	113	31-142		Phenol-d6	114	30-136	
Nitrobenzene-d5	104	28-139		2-Fluorobiphenyl	95	33-144	
2,4,6-Tribromophenol	104	24-152		p-Terphenyl-d14	113	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0517
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-75(00)-40	00-09-0517-5	09/11/00	Solid	09/19/00	09/21/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	111	31-142		Phenol-d6	113	30-136	
Nitrobenzene-d5	104	28-139		2-Fluorobiphenyl	95	33-144	
2,4,6-Tribromophenol	102	24-152		p-Terphenyl-d14	109	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0517
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-75(00)-45	00-09-0517-6	09/11/00	Solid	09/19/00	09/21/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	113	31-142		Phenol-d6	117	30-136	
Nitrobenzene-d5	105	28-139		2-Fluorobiphenyl	95	33-144	
2,4,6-Tribromophenol	102	24-152		p-Terphenyl-d14	114	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0517
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-75(00)-50	00-09-0517-7	09/11/00	Solid	09/19/00	09/21/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	1.7	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	0.46	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.21	0.40	1	J	mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	111	31-142		Phenol-d6	113	30-136	
Nitrobenzene-d5	103	28-139		2-Fluorobiphenyl	94	33-144	
2,4,6-Tribromophenol	98	24-152		p-Terphenyl-d14	106	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0517
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-75(00)-55	00-09-0517-8	09/11/00	Solid	09/19/00	09/21/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	110	31-142		Phenol-d6	112	30-136	
Nitrobenzene-d5	101	28-139		2-Fluorobiphenyl	92	33-144	
2,4,6-Tribromophenol	101	24-152		p-Terphenyl-d14	106	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0517
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-75(00)-60	00-09-0517-9	09/11/00	Solid	09/19/00	09/21/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	111	31-142		Phenol-d6	111	30-136	
Nitrobenzene-d5	103	28-139		2-Fluorobiphenyl	92	33-144	
2,4,6-Tribromophenol	99	24-152		p-Terphenyl-d14	106	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0517
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	**099-04-010-775**	**N/A**	**Solid**	**09/19/00**	**09/20/00**	**0009195**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	106	31-142		Phenol-d6	111	30-136	
Nitrobenzene-d5	100	28-139		2-Fluorobiphenyl	94	33-144	
2,4,6-Tribromophenol	106	24-152		p-Terphenyl-d14	97	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0517
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-75(00)-10	Solid	GC/MS F	09/19/00	09/20/00	000905171

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	88	107	53-118	19	0-19	
2-Chlorophenol	94	112	60-119	18	0-18	
1,4-Dichlorobenzene	90	105	56-131	16	0-18	
N-Nitroso-di-n-propylamine	96	99	64-123	4	0-18	
1,2,4-Trichlorobenzene	87	101	52-144	15	0-17	
4-Chloro-3-Methylphenol	98	113	45-135	14	0-20	
Acenaphthene	87	100	45-152	14	0-18	
4-Nitrophenol	80	92	45-135	14	0-20	
2,4-Dinitrotoluene	86	99	42-128	14	0-23	
Pentachlorophenol	94	112	45-135	17	0-20	
Pyrene	101	120	45-135	17	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received:	09/15/00
Work Order No:	00-09-0517
Preparation:	EPA 3545
Method:	EPA 8270C

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-010-775	Solid	GC/MS F	09/19/00	09/20/00	0009195

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	104	109	67-118	4	0-24	
2-Chlorophenol	107	115	72-119	7	0-24	
1,4-Dichlorobenzene	101	108	69-118	6	0-27	
N-Nitroso-di-n-propylamine	95	99	70-112	4	0-24	
1,2,4-Trichlorobenzene	99	105	65-135	7	0-25	
4-Chloro-3-Methylphenol	113	120	45-135	6	0-20	
Acenaphthene	99	106	61-142	7	0-25	
4-Nitrophenol	98	112	45-135	14	0-20	
2,4-Dinitrotoluene	97	108	47-137	11	0-24	
Pentachlorophenol	109	123	45-135	12	0-20	
Pyrene	103	111	45-135	7	0-20	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-09-0517

Qualifier	Definition
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

SCE - ROSEMEAD, CA
ENVIRONMENTAL AFFAIRS
GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/11/00

Page 1 of 1

LABORATORY CLIENT: Southern California Edison Co.

ADDRESS: 2244 Walnut Grove Avenue

CITY: Rosemead, STATE: CA, ZIP: 91770

TEL: 626 / 302-4033 FAX: 626 / 302-9730 E-MAIL: WEIDNERS@sce.com

SCE PROJECT NAME / NUMBER: VISALIA STEAM REMEDIATION PROJ

PROJECT CONTACT: RANDY WEIDNER

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 9 - 0 5 1 7

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)____	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	B-75(00)-10		9/11/00	12:35P	S	1									X					
	B-75(00)-20			12:45	S										X					
	-30			12:55P	S										X					
	-35			1:05P	S										X					
	-40			1:14P	S										X					
	-45			1:20P	S										X					
	-50			1:30P	S										X					
	-55			1:40P	S										X					
	-60			1:50P	S										X					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		9/15/00	1:30 PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 09/15/00	Time: 1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

9/27/97 Revision

DISTRIBUTION: White with final report, Yellow to File, Pink to SCE

Q&Q Graphic (714) 898-9702

Calscience
Environmental
Laboratories, Inc.

September 29, 2000

Randy Weidner
Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Subject: **Calscience Work Order No.: 00-09-0520**
Client Reference: SCE VPY Steam Remediation

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 09/15/00 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
William H. Christensen
Quality Assurance Manager

William H. Christensen
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-5	00-09-0520-1	09/12/00	Solid	09/19/00	09/22/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	31-142		Phenol-d6	77	30-136	
Nitrobenzene-d5	73	28-139		2-Fluorobiphenyl	87	33-144	
2,4,6-Tribromophenol	86	24-152		p-Terphenyl-d14	93	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-10	00-09-0520-2	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	0.24	0.50	1	J	mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	0.15	0.40	1	J	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.29	0.40	1	J	mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	79	31-142		Phenol-d6	79	30-136	
Nitrobenzene-d5	78	28-139		2-Fluorobiphenyl	86	33-144	
2,4,6-Tribromophenol	96	24-152		p-Terphenyl-d14	94	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-15	00-09-0520-3	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	1.8	0.5	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	250	100	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	220	40	100	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.25	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	11	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	3.8	0.4	1		mg/kg
Naphthalene	6.6	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.12	0.40	1	J	mg/kg
2-Methylnaphthalene	7.8	0.4	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	4.9	0.4	1		mg/kg	Chrysene	3.5	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.63	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.65	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.53	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	74	31-142		Phenol-d6	72	30-136	
Nitrobenzene-d5	71	28-139		2-Fluorobiphenyl	85	33-144	
2,4,6-Tribromophenol	90	24-152		p-Terphenyl-d14	84	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-20	00-09-0520-4	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	10	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	250	100	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	89	40	100	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	1.5	0.4	1		mg/kg
Benzoic Acid	0.34	2.5	1	J	mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	11	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	8.9	0.4	1		mg/kg
Naphthalene	7.5	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	1.3	0.4	1		mg/kg
2-Methylnaphthalene	16	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	13	0.40	1		mg/kg	Chrysene	4.1	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.64	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	1.3	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.62	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.14	0.40	1	J	mg/kg
Acenaphthylene	0.26	0.40	1	J	mg/kg	Dibenz (a,h) Anthracene	0.33	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.15	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	68	31-142		Phenol-d6	65	30-136	
Nitrobenzene-d5	65	28-139		2-Fluorobiphenyl	66	33-144	
2,4,6-Tribromophenol	80	24-152		p-Terphenyl-d14	79	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-25	00-09-0520-5	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.79	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	270	130	50	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	66	20	50	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	1.3	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	12	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	6.1	0.4	1		mg/kg
Naphthalene	0.27	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.34	0.40	1	J	mg/kg
2-Methylnaphthalene	0.29	0.40	1	J	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.17	0.40	1	J	mg/kg	Chrysene	4.0	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.72	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.85	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.61	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.11	0.40	1	J	mg/kg
Acenaphthene	0.64	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	71	31-142		Phenol-d6	68	30-136	
Nitrobenzene-d5	68	28-139		2-Fluorobiphenyl	78	33-144	
2,4,6-Tribromophenol	81	24-152		p-Terphenyl-d14	75	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-30	00-09-0520-6	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	8.6	0.5	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	140	130	50	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	270	20	50	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	88	20	50	D	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	9.4	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	5.6	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	1.3	0.4	1		mg/kg
2-Methylnaphthalene	0.16	0.40	1	J	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	3.4	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.73	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.78	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.66	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.11	0.40	1	J	mg/kg
Acenaphthylene	0.33	0.40	1	J	mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.12	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	65	31-142		Phenol-d6	62	30-136	
Nitrobenzene-d5	61	28-139		2-Fluorobiphenyl	68	33-144	
2,4,6-Tribromophenol	100	24-152		p-Terphenyl-d14	62	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-35	00-09-0520-7	09/12/00	Solid	09/19/00	09/27/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.5	5		mg/kg	2,4-Dinitrophenol	ND	13	5		mg/kg
Aniline	ND	2.5	5		mg/kg	4-Nitrophenol	ND	2.5	5		mg/kg
Phenol	ND	2.5	5		mg/kg	Dibenzofuran	54	2	5		mg/kg
Bis(2-Chloroethyl) Ether	ND	13	5		mg/kg	2,4-Dinitrotoluene	ND	2.5	5		mg/kg
2-Chlorophenol	ND	2.5	5		mg/kg	2,6-Dinitrotoluene	ND	2.5	5		mg/kg
1,3-Dichlorobenzene	ND	2.5	5		mg/kg	Diethyl Phthalate	ND	2.5	5		mg/kg
1,4-Dichlorobenzene	ND	2.5	5		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	2.5	5		mg/kg
Benzyl Alcohol	ND	2.5	5		mg/kg	Fluorene	ND	2.0	5		mg/kg
1,2-Dichlorobenzene	ND	2.5	5		mg/kg	4-Nitroaniline	ND	2.5	5		mg/kg
2-Methylphenol	ND	2.5	5		mg/kg	Azobenzene	ND	2.5	5		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	2.5	5		mg/kg	4,6-Dinitro-2-Methylphenol	ND	13	5		mg/kg
3/4-Methylphenol	ND	2.5	5		mg/kg	N-Nitrosodiphenylamine	ND	2.5	5		mg/kg
N-Nitroso-di-n-propylamine	ND	2.5	5		mg/kg	2,4,6-Trichlorophenol	ND	2.5	5		mg/kg
Hexachloroethane	ND	2.5	5		mg/kg	4-Bromophenyl-Phenyl Ether	ND	2.5	5		mg/kg
Nitrobenzene	ND	13	5		mg/kg	Hexachlorobenzene	ND	2.5	5		mg/kg
Isophorone	ND	2.5	5		mg/kg	Pentachlorophenol	ND	13	5		mg/kg
2-Nitrophenol	ND	2.5	5		mg/kg	Phenanthrene	1100	40	100	D	mg/kg
2,4-Dimethylphenol	ND	2.5	5		mg/kg	Anthracene	1200	40	100	D	mg/kg
Benzoic Acid	ND	13	5		mg/kg	Di-n-Butyl Phthalate	ND	2.5	5		mg/kg
Bis(2-Chloroethoxy) Methane	ND	2.5	5		mg/kg	Fluoranthene	230	40	100	D	mg/kg
2,4-Dichlorophenol	ND	2.5	5		mg/kg	Benzidine	ND	50	5		mg/kg
1,2,4-Trichlorobenzene	ND	2.5	5		mg/kg	Pyrene	67	2	5		mg/kg
Naphthalene	ND	2.0	5		mg/kg	Pyridine	ND	2.5	5		mg/kg
4-Chloroaniline	ND	2.5	5		mg/kg	Butyl Benzyl Phthalate	ND	2.5	5		mg/kg
Hexachloro-1,3-Butadiene	ND	2.5	5		mg/kg	3,3'-Dichlorobenzidine	ND	2.5	5		mg/kg
4-Chloro-3-Methylphenol	ND	2.5	5		mg/kg	Benzo (a) Anthracene	13	2	5		mg/kg
2-Methylnaphthalene	9.6	2.0	5		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	2.5	5		mg/kg
1-Methylnaphthalene	9.4	2.0	5		mg/kg	Chrysene	26	2	5		mg/kg
Hexachlorocyclopentadiene	ND	7.5	5		mg/kg	Di-n-Octyl Phthalate	ND	2.5	5		mg/kg
2,4,5-Trichlorophenol	ND	2.5	5		mg/kg	Benzo (b) Fluoranthene	6.4	2.0	5		mg/kg
2-Chloronaphthalene	ND	2.5	5		mg/kg	Benzo (k) Fluoranthene	8.1	2.0	5		mg/kg
2-Nitroaniline	ND	2.5	5		mg/kg	Benzo (a) Pyrene	0.63	1.8	5	J	mg/kg
Dimethyl Phthalate	ND	2.5	5		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	2.0	5		mg/kg
Acenaphthylene	0.80	2.0	5	J	mg/kg	Dibenz (a,h) Anthracene	0.51	2.0	5	J	mg/kg
3-Nitroaniline	ND	2.5	5		mg/kg	Benzo (g,h,i) Perylene	1.3	2.0	5	J	mg/kg
Acenaphthene	22	2	5		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	55	31-142		Phenol-d6	51	30-136	
Nitrobenzene-d5	53	28-139		2-Fluorobiphenyl	67	33-144	
2,4,6-Tribromophenol	57	24-152		p-Terphenyl-d14	53	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-40	00-09-0520-8	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	25	25	10	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	77	4	10	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	110	4	10	D	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	120	4	10	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	110	4	10	D	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	4.2	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	7.1	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.2	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	2.3	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	1.1	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	0.33	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.19	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	63	31-142		Phenol-d6	59	30-136	
Nitrobenzene-d5	58	28-139		2-Fluorobiphenyl	64	33-144	
2,4,6-Tribromophenol	57	24-152		p-Terphenyl-d14	60	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-45	00-09-0520-9	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.15	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	0.23	0.40	1	J	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	500	200	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	82	80	200	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	2000	80	200	D	mg/kg
Benzoic Acid	0.23	2.5	1	J	mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	120	80	200	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	80	200	D	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	3.1	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	7.2	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.73	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	2.4	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	1.1	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.19	0.40	1	J	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	0.11	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.18	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	60	31-142		Phenol-d6	56	30-136	
Nitrobenzene-d5	50	28-139		2-Fluorobiphenyl	62	33-144	
2,4,6-Tribromophenol	59	24-152		p-Terphenyl-d14	53	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-50	00-09-0520-10	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	2.6	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	13	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	7.2	0.4	1		mg/kg
Benzoic Acid	0.18	2.5	1	J	mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	150	8	20	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	0.16	0.50	1	J	mg/kg	Pyrene	120	8	20	D	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	16	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	51	8	20	D	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.2	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	5.4	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.56	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.25	0.40	1	J	mg/kg
Acenaphthylene	0.21	0.40	1	J	mg/kg	Dibenz (a,h) Anthracene	0.12	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.20	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	62	31-142		Phenol-d6	57	30-136	
Nitrobenzene-d5	51	28-139		2-Fluorobiphenyl	64	33-144	
2,4,6-Tribromophenol	65	24-152		p-Terphenyl-d14	53	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-55	00-09-0520-11	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	0.50	2.5	1	J	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	6.7	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	7.0	0.4	1		mg/kg
Benzoic Acid	0.14	2.5	1	J	mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	150	8	20	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	120	8	20	D	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	9.5	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	11	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	2.6	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	3.8	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	1.5	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.34	0.40	1	J	mg/kg
Acenaphthylene	0.48	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.28	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	56	31-142		Phenol-d6	52	30-136	
Nitrobenzene-d5	47	28-139		2-Fluorobiphenyl	54	33-144	
2,4,6-Tribromophenol	53	24-152		p-Terphenyl-d14	47	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-60	00-09-0520-12	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.71	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.12	0.40	1	J	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.43	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	3.4	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	6.3	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.48	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.79	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.15	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	52	31-142		Phenol-d6	50	30-136	
Nitrobenzene-d5	45	28-139		2-Fluorobiphenyl	57	33-144	
2,4,6-Tribromophenol	58	24-152		p-Terphenyl-d14	57	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-65	00-09-0520-13	09/12/00	Solid	09/19/00	09/22/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.42	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.16	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	1.5	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	1.9	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.94	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	1.6	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.14	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.21	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	82	31-142		Phenol-d6	81	30-136	
Nitrobenzene-d5	78	28-139		2-Fluorobiphenyl	91	33-144	
2,4,6-Tribromophenol	94	24-152		p-Terphenyl-d14	93	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-70	00-09-0520-14	09/12/00	Solid	09/19/00	09/22/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	15	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.55	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	11	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	9.0	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.44	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.83	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	103	31-142		Phenol-d6	101	30-136	
Nitrobenzene-d5	98	28-139		2-Fluorobiphenyl	113	33-144	
2,4,6-Tribromophenol	121	24-152		p-Terphenyl-d14	118	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-75	00-09-0520-15	09/12/00	Solid	09/19/00	09/22/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.21	0.40	1	J	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.39	0.40	1	J	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	95	31-142		Phenol-d6	94	30-136	
Nitrobenzene-d5	90	28-139		2-Fluorobiphenyl	110	33-144	
2,4,6-Tribromophenol	106	24-152		p-Terphenyl-d14	114	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-80	00-09-0520-16	09/12/00	Solid	09/19/00	09/22/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	106	31-142		Phenol-d6	104	30-136	
Nitrobenzene-d5	101	28-139		2-Fluorobiphenyl	118	33-144	
2,4,6-Tribromophenol	118	24-152		p-Terphenyl-d14	123	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-85	00-09-0520-17	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.13	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.16	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.16	0.40	1	J	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.19	0.40	1	J	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.12	0.40	1	J	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.14	0.40	1	J	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.29	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.43	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.34	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.11	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	90	31-142		Phenol-d6	83	30-136	
Nitrobenzene-d5	81	28-139		2-Fluorobiphenyl	106	33-144	
2,4,6-Tribromophenol	101	24-152		p-Terphenyl-d14	111	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-90	00-09-0520-18	09/12/00	Solid	09/19/00	09/20/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.51	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.29	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.78	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.85	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.42	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.54	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.21	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.41	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.18	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	83	31-142		Phenol-d6	78	30-136	
Nitrobenzene-d5	77	28-139		2-Fluorobiphenyl	96	33-144	
2,4,6-Tribromophenol	96	24-152		p-Terphenyl-d14	109	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-95	00-09-0520-19	09/12/00	Solid	09/19/00	09/21/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.41	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.15	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	1.3	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	1.4	0.4	1		mg/kg
Naphthalene	0.13	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.14	0.40	1	J	mg/kg
2-Methylnaphthalene	0.40	0.40	1	J	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.42	0.40	1		mg/kg	Chrysene	0.17	0.40	1	J	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.14	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.22	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.16	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	90	31-142		Phenol-d6	84	30-136	
Nitrobenzene-d5	85	28-139		2-Fluorobiphenyl	107	33-144	
2,4,6-Tribromophenol	102	24-152		p-Terphenyl-d14	119	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-100	00-09-0520-20	09/12/00	Solid	09/19/00	09/22/00	0009194

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	100	31-142		Phenol-d6	98	30-136	
Nitrobenzene-d5	94	28-139		2-Fluorobiphenyl	112	33-144	
2,4,6-Tribromophenol	111	24-152		p-Terphenyl-d14	114	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-104	00-09-0520-21	09/12/00	Solid	09/19/00	09/21/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.54	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.27	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.73	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.82	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.35	0.40	1	J	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.45	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.16	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	113	31-142		Phenol-d6	119	30-136	
Nitrobenzene-d5	111	28-139		2-Fluorobiphenyl	98	33-144	
2,4,6-Tribromophenol	110	24-152		p-Terphenyl-d14	119	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-110	00-09-0520-22	09/12/00	Solid	09/19/00	09/21/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	13	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	6.2	0.4	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	55	4	10	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	5.4	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	25	4	10	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	27	4	10	D	mg/kg
Naphthalene	21	4	10	D	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	5.1	0.4	1		mg/kg
2-Methylnaphthalene	13	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	10	0.40	1		mg/kg	Chrysene	5.2	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.2	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	2.0	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	1.6	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	0.38	0.40	1	J	mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.30	0.40	1	J	mg/kg
Acenaphthene	15	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	113	31-142		Phenol-d6	98	30-136	D
Nitrobenzene-d5	105	28-139		2-Fluorobiphenyl	89	33-144	
2,4,6-Tribromophenol	116	24-152		p-Terphenyl-d14	109	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-115	00-09-0520-23	09/12/00	Solid	09/19/00	09/21/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	41	10	20	D	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	2.7	0.4	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	140	8	20	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	8.1	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	65	8	20	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	70	8	20	D	mg/kg
Naphthalene	73	8	20	D	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	13	0.40	1		mg/kg
2-Methylnaphthalene	49	8	20	D	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	28	8	20	D	mg/kg	Chrysene	15	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	3.6	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	5.2	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	4.1	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	1.5	0.4	1		mg/kg	Dibenz (a,h) Anthracene	0.14	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.72	0.40	1		mg/kg
Acenaphthene	24	8	20	D	mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	117	31-142		Phenol-d6	92	30-136	D
Nitrobenzene-d5	120	28-139		2-Fluorobiphenyl	91	33-144	
2,4,6-Tribromophenol	63	24-152	D	p-Terphenyl-d14	110	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-34/B-19(00)-120	00-09-0520-24	09/12/00	Solid	09/19/00	09/21/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	15	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	1.0	0.4	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	56	4	10	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	3.1	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	22	4	10	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	25	4	10	D	mg/kg
Naphthalene	37	4	10	D	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	4.5	0.4	1		mg/kg
2-Methylnaphthalene	21	4	10	D	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	13	0.40	1		mg/kg	Chrysene	5.0	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.3	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	1.6	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	1.3	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	0.54	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.20	0.40	1	J	mg/kg
Acenaphthene	9.1	0.4	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	108	31-142		Phenol-d6	113	30-136	
Nitrobenzene-d5	106	28-139		2-Fluorobiphenyl	87	33-144	
2,4,6-Tribromophenol	116	24-152		p-Terphenyl-d14	109	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	**099-04-010-775**	**N/A**	**Solid**	**09/19/00**	**09/20/00**	**0009195**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	106	31-142		Phenol-d6	111	30-136	
Nitrobenzene-d5	100	28-139		2-Fluorobiphenyl	94	33-144	
2,4,6-Tribromophenol	106	24-152		p-Terphenyl-d14	97	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	**099-04-010-785**	**N/A**	**Solid**	**09/19/00**	**09/22/00**	**0009194**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	31-142		Phenol-d6	78	30-136	
Nitrobenzene-d5	75	28-139		2-Fluorobiphenyl	90	33-144	
2,4,6-Tribromophenol	95	24-152		p-Terphenyl-d14	95	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
00-09-0517-1	Solid	GC/MS F	09/19/00	09/20/00	000905171

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	88	107	53-118	19	0-19	
2-Chlorophenol	94	112	60-119	18	0-18	
1,4-Dichlorobenzene	90	105	56-131	16	0-18	
N-Nitroso-di-n-propylamine	96	99	64-123	4	0-18	
1,2,4-Trichlorobenzene	87	101	52-144	15	0-17	
4-Chloro-3-Methylphenol	98	113	45-135	14	0-20	
Acenaphthene	87	100	45-152	14	0-18	
4-Nitrophenol	80	92	45-135	14	0-20	
2,4-Dinitrotoluene	86	99	42-128	14	0-23	
Pentachlorophenol	94	112	45-135	17	0-20	
Pyrene	101	120	45-135	17	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-34/B-19(00)-45	Solid	GC/MS H	09/19/00	09/26/00	000905209

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	46	47	53-118	4	0-19	X
2-Chlorophenol	45	46	60-119	3	0-18	X
1,4-Dichlorobenzene	44	45	56-131	3	0-18	X
N-Nitroso-di-n-propylamine	50	53	64-123	5	0-18	X
1,2,4-Trichlorobenzene	43	46	52-144	5	0-17	X
4-Chloro-3-Methylphenol	51	28	45-135	58	0-20	X
Acenaphthene	38	206	45-152	137	0-18	X
4-Nitrophenol	294	822	45-135	95	0-20	X
Pentachlorophenol	6650	4560	45-135	37	0-20	X
Pyrene	99	99	45-135	1	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received: 09/15/00
Work Order No: 00-09-0520
Preparation: EPA 3545
Method: EPA 8270C

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-010-775	Solid	GC/MS F	09/19/00	09/20/00	0009195

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	104	109	67-118	4	0-24	
2-Chlorophenol	107	115	72-119	7	0-24	
1,4-Dichlorobenzene	101	108	69-118	6	0-27	
N-Nitroso-di-n-propylamine	95	99	70-112	4	0-24	
1,2,4-Trichlorobenzene	99	105	65-135	7	0-25	
4-Chloro-3-Methylphenol	113	120	45-135	6	0-20	
Acenaphthene	99	106	61-142	7	0-25	
4-Nitrophenol	98	112	45-135	14	0-20	
2,4-Dinitrotoluene	97	108	47-137	11	0-24	
Pentachlorophenol	109	123	45-135	12	0-20	
Pyrene	103	111	45-135	7	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received:	09/15/00
Work Order No:	00-09-0520
Preparation:	EPA 3545
Method:	EPA 8270C

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-010-785	Solid	GC/MS H	09/19/00	09/22/00	0009194

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	88	95	67-118	7	0-24	
2-Chlorophenol	84	90	72-119	7	0-24	
1,4-Dichlorobenzene	90	97	69-118	7	0-27	
N-Nitroso-di-n-propylamine	87	90	70-112	3	0-24	
1,2,4-Trichlorobenzene	98	106	65-135	8	0-25	
4-Chloro-3-Methylphenol	102	111	45-135	8	0-20	
Acenaphthene	99	107	61-142	8	0-25	
4-Nitrophenol	86	95	45-135	10	0-20	
2,4-Dinitrotoluene	88	95	47-137	8	0-24	
Pentachlorophenol	80	92	45-135	13	0-20	
Pyrene	100	109	45-135	9	0-20	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-09-0520

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.
X	% Recovery and/or RPD out-of-range.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

SCE ROSEMEAD, CA
ENVIRONMENTAL AFFAIRS
GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/12/00

Page 1 of 3

LABORATORY CLIENT: **Southern California Edison Co.**

ADDRESS: **2244 Walnut Grove Avenue**

CITY: **Rosemead,** STATE: **CA** ZIP: **91770**

TEL: 626 / 302-4033 FAX: 626 / 302-9730 E-MAIL: weidners@sce.com

SCE PROJECT NAME / NUMBER: VISALIA STEAM REMEDIATION PROJECT.

PROJECT CONTACT: RANDY WEIDNER

SAMPLER(S): (SIGNATURE) R M Weidner

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 9 - 0 5 2 0

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	MW-34/B-79(00)	-5	9/12/00	7:30	S	1									X					
		-10		7:40	S	1									X					
		-15		7:50	S	1									X					
		-20		8:00	S	1									X					
		-25		8:05	S	1									X					
		-30		8:15	S	1									X					
		-35		8:20	S	1									X					
		-40		8:26	S	1									X					
		-45		8:35	S	1									X					
		-50		8:45	S	1									X					

Relinquished by: (Signature) R M Weidner	Received by: (Signature)	Date: 9/15/00	Time: 1:30 pm
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 09/15/00	Time: 1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt. 9/27/97 Revision

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SCE - ROSEMEAD, CA

ENVIRONMENTAL AFFAIRS

GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/12/00

Page 2 of 3

LABORATORY CLIENT: Southern California Edison Co.

ADDRESS: 2244 Walnut Grove Avenue

CITY: Rosemead, STATE: CA, ZIP: 91770

TEL: 626 / 302-4033 FAX: 626 / 302-9730 E-MAIL: weidner5@sce.com

SCE PROJECT NAME / NUMBER: VISALIA STEAM REMEDIATION PROJECT

PROJECT CONTACT: RANDY WEIDNER

SAMPLER(S): (SIGNATURE) [signature]

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 9 - 0 5 2 0

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	MW34/B-19(00)	-55	9/12	8:55	S	1									X					
		-60		9:05											X					
		-65		9:20											X					
		-70		9:35											X					
		-75		9:45											X					
		-80		9:55											X					
		-85		10:07											X					
		-90		10:17											X					
		-95		10:29											X					
		-100		10:40											X					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/15/00	1:30 PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
	[signature]	09/15/00	1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

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SCE - ROSEMEAD, CA

ENVIRONMENTAL AFFAIRS

GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/12/00

Page 3 of 3

LABORATORY CLIENT: Southern California Edison Co.

ADDRESS: 2244 Walnut Grove Avenue

CITY: Rosemead, STATE: CA, ZIP: 91770

TEL: 626 / 302-4033 FAX: 626 / 302-9730 E-MAIL: weidners@sce.com

SCE PROJECT NAME / NUMBER: VISALIA STEAM REMEDIATION PROJECT

PROJECT CONTACT: RANDY WEIDNER

SAMPLER(S): (SIGNATURE) [signature]

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 9 - 0 5 2 0

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o) ___	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	MW-34/B-79(00)	-105	9/12/00	11:10	S	1									X					
		-110		11:20											X					
		-115		11:35											X					
		-120		11:45											X					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		9/15/00	1:30 PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature) [signature]	Date: 09/15/00	Time: 1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

9/27/97 Revision

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Calscience
Environmental
Laboratories, Inc.

September 29, 2000

Randy Weidner
Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Subject: **Calscience Work Order No.: 00-09-0519**
Client Reference: SCE VPY Steam Remediation

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 09/15/00 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
William H. Christensen
Quality Assurance Manager

William H. Christensen
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-5'	00-09-0519-1	09/12/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	92	31-142		Phenol-d6	87	30-136	
Nitrobenzene-d5	85	28-139		2-Fluorobiphenyl	105	33-144	
2,4,6-Tribromophenol	102	24-152		p-Terphenyl-d14	118	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-10'	00-09-0519-2	09/12/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	0.25	2.5	1	J	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	50	31-142		Phenol-d6	48	30-136	
Nitrobenzene-d5	47	28-139		2-Fluorobiphenyl	58	33-144	
2,4,6-Tribromophenol	54	24-152		p-Terphenyl-d14	62	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-15'	00-09-0519-3	09/12/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.35	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	0.29	0.50	1	J	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	240	250	100	D,J	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.20	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	3.4	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.27	0.40	1	J	mg/kg
Naphthalene	9.0	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	52	40	100	D	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	46	40	100	D	mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.43	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	75	31-142		Phenol-d6	69	30-136	
Nitrobenzene-d5	54	28-139		2-Fluorobiphenyl	62	33-144	
2,4,6-Tribromophenol	65	24-152		p-Terphenyl-d14	108	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-20'	00-09-0519-4	09/12/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	100	200	500	J,D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	200	500	D	mg/kg
Naphthalene	800	200	500	D	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.10	0.40	1	J	mg/kg
2-Methylnaphthalene	1500	200	500	D	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	980	200	500	D	mg/kg	Chrysene	0.11	0.40	1	J	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.60	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	50	31-142		Phenol-d6	51	30-136	
Nitrobenzene-d5	38	28-139		2-Fluorobiphenyl	48	33-144	
2,4,6-Tribromophenol	46	24-152		p-Terphenyl-d14	38	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-25'	00-09-0519-5	09/12/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	48	50	100	J,D	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	180	250	100	J,D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	26	40	100	J,D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	2.5	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	1.3	0.4	1		mg/kg
Naphthalene	14	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	84	40	100	D	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	61	40	100	D	mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.22	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	31-142		Phenol-d6	70	30-136	
Nitrobenzene-d5	62	28-139		2-Fluorobiphenyl	70	33-144	
2,4,6-Tribromophenol	83	24-152		p-Terphenyl-d14	84	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-30'	00-09-0519-6	09/12/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	60	50	100	D	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	970	250	100	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	120	40	100	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	49	40	100	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	24	40	100	J,D	mg/kg
Naphthalene	9.3	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	12	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	19	40	100	J,D	mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.87	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	73	31-142		Phenol-d6	56	30-136	
Nitrobenzene-d5	65	28-139		2-Fluorobiphenyl	64	33-144	
2,4,6-Tribromophenol	94	24-152		p-Terphenyl-d14	33	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-35'	00-09-0519-7	09/12/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	48	25	50	D	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	120	20	50	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	27	20	50	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	15	0.40	1		mg/kg
Naphthalene	7.5	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.13	0.40	1	J	mg/kg
2-Methylnaphthalene	77	20	50	D	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	75	20	50	D	mg/kg	Chrysene	6.2	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	2.7	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.96	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.13	0.40	1	J	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.16	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	54	31-142		Phenol-d6	33	30-136	
Nitrobenzene-d5	38	28-139		2-Fluorobiphenyl	45	33-144	
2,4,6-Tribromophenol	36	24-152		p-Terphenyl-d14	32	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-40'	00-09-0519-8	09/13/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	44	25	50	D	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	510	130	50	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	65	20	50	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	15	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	2.6	0.4	1		mg/kg
Naphthalene	3.5	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	45	20	50	D	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	48	20	50	D	mg/kg	Chrysene	1.9	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.74	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.30	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	88	31-142		Phenol-d6	56	30-136	
Nitrobenzene-d5	69	28-139		2-Fluorobiphenyl	83	33-144	
2,4,6-Tribromophenol	72	24-152		p-Terphenyl-d14	77	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-45'	00-09-0519-9	09/13/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.86	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	120	50	20	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	100	8	20	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	1.2	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	68	8	20	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	30	8	20	D	mg/kg
Naphthalene	0.38	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	2.1	0.4	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	2.0	0.4	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.70	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.17	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	82	31-142		Phenol-d6	68	30-136	
Nitrobenzene-d5	62	28-139		2-Fluorobiphenyl	80	33-144	
2,4,6-Tribromophenol	74	24-152		p-Terphenyl-d14	75	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-50'	00-09-0519-10	09/13/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.11	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	53	4	10	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	3.3	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	77	4	10	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	56	4	10	D	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	1.0	0.4	1		mg/kg
2-Methylnaphthalene	0.10	0.40	1	J	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	7.7	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	3.5	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.75	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.14	0.40	1	J	mg/kg
Acenaphthylene	0.10	0.40	1	J	mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.16	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	66	31-142		Phenol-d6	60	30-136	
Nitrobenzene-d5	64	28-139		2-Fluorobiphenyl	83	33-144	
2,4,6-Tribromophenol	17	24-152	2	p-Terphenyl-d14	88	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-55'	00-09-0519-11	09/13/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.26	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	33	25	10	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	64	4	10	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	4.1	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	14	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	11	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	2.0	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	2.7	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.64	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	1.0	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.23	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.11	0.40	1	J	mg/kg
Acenaphthylene	0.16	0.40	1	J	mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	31-142		Phenol-d6	68	30-136	
Nitrobenzene-d5	62	28-139		2-Fluorobiphenyl	79	33-144	
2,4,6-Tribromophenol	80	24-152		p-Terphenyl-d14	87	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-60'	00-09-0519-12	09/13/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	5.6	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	2.2	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	39	4	10	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	24	4	10	D	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	2.1	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	2.9	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.60	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.99	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.14	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	0.13	0.40	1	J	mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	87	31-142		Phenol-d6	77	30-136	
Nitrobenzene-d5	72	28-139		2-Fluorobiphenyl	90	33-144	
2,4,6-Tribromophenol	94	24-152		p-Terphenyl-d14	102	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-65'	00-09-0519-13	09/13/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	0.19	0.40	1	J	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	24	8	20	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	9.6	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	110	8	20	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	97	8	20	D	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	27	8	20	D	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	34	8	20	D	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	6.7	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	6.4	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	3.6	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	1.0	0.4	1		mg/kg
Acenaphthylene	0.94	0.40	1		mg/kg	Dibenz (a,h) Anthracene	7.8	0.4	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.89	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	32	31-142		Phenol-d6	28	30-136	2
Nitrobenzene-d5	28	28-139		2-Fluorobiphenyl	35	33-144	
2,4,6-Tribromophenol	33	24-152		p-Terphenyl-d14	45	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-70'	00-09-0519-14	09/13/00	Solid	09/19/00	09/25/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.23	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.17	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	3.9	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	3.9	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.74	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.91	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.17	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	87	31-142		Phenol-d6	78	30-136	
Nitrobenzene-d5	74	28-139		2-Fluorobiphenyl	92	33-144	
2,4,6-Tribromophenol	94	24-152		p-Terphenyl-d14	107	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-75'	00-09-0519-15	09/13/00	Solid	09/19/00	09/26/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	1.8	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.83	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	14	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	16	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	9.5	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	12	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.9	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	3.0	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	1.7	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.26	0.40	1	J	mg/kg
Acenaphthylene	0.17	0.40	1	J	mg/kg	Dibenz (a,h) Anthracene	0.11	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.22	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	98	31-142		Phenol-d6	97	30-136	
Nitrobenzene-d5	88	28-139		2-Fluorobiphenyl	74	33-144	
2,4,6-Tribromophenol	92	24-152		p-Terphenyl-d14	87	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-80'	00-09-0519-16	09/13/00	Solid	09/19/00	09/26/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.17	0.40	1	J	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.20	0.40	1	J	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.11	0.40	1	J	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.14	0.40	1	J	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.63	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.93	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.47	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.25	0.40	1	J	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.18	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	106	31-142		Phenol-d6	105	30-136	
Nitrobenzene-d5	95	28-139		2-Fluorobiphenyl	81	33-144	
2,4,6-Tribromophenol	91	24-152		p-Terphenyl-d14	102	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-85'	00-09-0519-17	09/13/00	Solid	09/19/00	09/26/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.15	0.40	1	J	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.19	0.40	1	J	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.19	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.23	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.12	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.11	0.40	1	J	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	0.13	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	31-142		Phenol-d6	87	30-136	
Nitrobenzene-d5	79	28-139		2-Fluorobiphenyl	71	33-144	
2,4,6-Tribromophenol	81	24-152		p-Terphenyl-d14	90	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-90'	00-09-0519-18	09/13/00	Solid	09/19/00	09/26/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.13	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.45	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.55	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.19	0.40	1	J	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.22	0.40	1	J	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.14	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.26	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.13	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	101	31-142		Phenol-d6	102	30-136	
Nitrobenzene-d5	91	28-139		2-Fluorobiphenyl	80	33-144	
2,4,6-Tribromophenol	90	24-152		p-Terphenyl-d14	95	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-95'	00-09-0519-19	09/13/00	Solid	09/19/00	09/22/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.11	0.40	1	J	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.16	0.40	1	J	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	76	31-142		Phenol-d6	77	30-136	
Nitrobenzene-d5	75	28-139		2-Fluorobiphenyl	90	33-144	
2,4,6-Tribromophenol	90	24-152		p-Terphenyl-d14	91	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-100'	00-09-0519-20	09/13/00	Solid	09/19/00	09/22/00	0009193

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.15	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.45	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.52	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.13	0.40	1	J	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.23	0.40	1	J	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	86	31-142		Phenol-d6	84	30-136	
Nitrobenzene-d5	82	28-139		2-Fluorobiphenyl	95	33-144	
2,4,6-Tribromophenol	97	24-152		p-Terphenyl-d14	96	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-105.5'	00-09-0519-21	09/13/00	Solid	09/19/00	09/26/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	130	25	50	D	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	71	20	50	D	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	370	20	50	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	41	20	50	D	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	160	20	50	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	160	20	50	D	mg/kg
Naphthalene	590	20	50	D	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	30	20	50	D	mg/kg
2-Methylnaphthalene	250	20	50	D	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	140	20	50	D	mg/kg	Chrysene	34	20	50	D	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	11	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	8.0	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	8.8	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	2.5	0.4	1		mg/kg	Dibenz (a,h) Anthracene	0.13	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.68	0.40	1		mg/kg
Acenaphthene	130	20	50	D	mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	98	31-142		Phenol-d6	102	30-136	
Nitrobenzene-d5	85	28-139	J,D	2-Fluorobiphenyl	88	33-144	
2,4,6-Tribromophenol	0	24-152	D,2	p-Terphenyl-d14	96	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-110'	00-09-0519-22	09/13/00	Solid	09/19/00	09/26/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	42	10	20	D	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	23	8	20	D	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	130	8	20	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	9.2	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	53	8	20	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	47	8	20	D	mg/kg
Naphthalene	210	8	20	D	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	10	0.40	1		mg/kg
2-Methylnaphthalene	83	8	20	D	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	47	8	20	D	mg/kg	Chrysene	11	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	3.5	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	4.8	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	3.3	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.39	0.40	1	J	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	0.16	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.26	0.40	1	J	mg/kg
Acenaphthene	43	8	20	D	mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	96	31-142		Phenol-d6	96	30-136	
Nitrobenzene-d5	156	28-139	2	2-Fluorobiphenyl	73	33-144	
2,4,6-Tribromophenol	61	24-152	D	p-Terphenyl-d14	96	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-82/EW-1(00)-115'	00-09-0519-23	09/13/00	Solid	09/19/00	09/21/00	0009195

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.77	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	0.14	0.40	1	J	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	49	4	10	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.26	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	5.2	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	2.9	0.4	1		mg/kg
Naphthalene	1.1	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	0.48	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.30	0.40	1	J	mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	0.24	0.40	1	J	mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	102	31-142		Phenol-d6	107	30-136	
Nitrobenzene-d5	94	28-139		2-Fluorobiphenyl	77	33-144	
2,4,6-Tribromophenol	102	24-152		p-Terphenyl-d14	94	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	**099-04-010-775**	**N/A**	**Solid**	**09/19/00**	**09/20/00**	**0009195**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	106	31-142		Phenol-d6	111	30-136	
Nitrobenzene-d5	100	28-139		2-Fluorobiphenyl	94	33-144	
2,4,6-Tribromophenol	106	24-152		p-Terphenyl-d14	97	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	**099-04-010-786**	**N/A**	**Solid**	**09/19/00**	**09/22/00**	**0009193**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	31-142		Phenol-d6	78	30-136	
Nitrobenzene-d5	74	28-139		2-Fluorobiphenyl	89	33-144	
2,4,6-Tribromophenol	94	24-152		p-Terphenyl-d14	94	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
00-09-0517-1	Solid	GC/MS F	09/19/00	09/20/00	000905171

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	88	107	53-118	19	0-19	
2-Chlorophenol	94	112	60-119	18	0-18	
1,4-Dichlorobenzene	90	105	56-131	16	0-18	
N-Nitroso-di-n-propylamine	96	99	64-123	4	0-18	
1,2,4-Trichlorobenzene	87	101	52-144	15	0-17	
4-Chloro-3-Methylphenol	98	113	45-135	14	0-20	
Acenaphthene	87	100	45-152	14	0-18	
4-Nitrophenol	80	92	45-135	14	0-20	
2,4-Dinitrotoluene	86	99	42-128	14	0-23	
Pentachlorophenol	94	112	45-135	17	0-20	
Pyrene	101	120	45-135	17	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-82/EW-1(00)-30'	Solid	GC/MS H	09/19/00	09/26/00	000905196

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	81	84	53-118	3	0-19	
2-Chlorophenol	87	85	60-119	2	0-18	
1,4-Dichlorobenzene	83	82	56-131	1	0-18	
N-Nitroso-di-n-propylamine	96	96	64-123	0	0-18	
1,2,4-Trichlorobenzene	81	79	52-144	2	0-17	
4-Chloro-3-Methylphenol	91	92	45-135	1	0-20	
Acenaphthene	74	74	45-152	0	0-18	
4-Nitrophenol	82	78	45-135	5	0-20	
2,4-Dinitrotoluene	75	75	42-128	0	0-23	
Pentachlorophenol	269	285	45-135	4	0-20	X
Pyrene	405	412	45-135	2	0-20	X

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received:	09/15/00
Work Order No:	00-09-0519
Preparation:	EPA 3545
Method:	EPA 8270C

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-010-775	Solid	GC/MS F	09/19/00	09/20/00	0009195

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	104	109	67-118	4	0-24	
2-Chlorophenol	107	115	72-119	7	0-24	
1,4-Dichlorobenzene	101	108	69-118	6	0-27	
N-Nitroso-di-n-propylamine	95	99	70-112	4	0-24	
1,2,4-Trichlorobenzene	99	105	65-135	7	0-25	
4-Chloro-3-Methylphenol	113	120	45-135	6	0-20	
Acenaphthene	99	106	61-142	7	0-25	
4-Nitrophenol	98	112	45-135	14	0-20	
2,4-Dinitrotoluene	97	108	47-137	11	0-24	
Pentachlorophenol	109	123	45-135	12	0-20	
Pyrene	103	111	45-135	7	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received: 09/15/00
Work Order No: 00-09-0519
Preparation: EPA 3545
Method: EPA 8270C

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-010-786	Solid	GC/MS H	09/19/00	09/22/00	0009193

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	83	86	67-118	4	0-24	
2-Chlorophenol	79	82	72-119	4	0-24	
1,4-Dichlorobenzene	87	89	69-118	3	0-27	
N-Nitroso-di-n-propylamine	82	83	70-112	1	0-24	
1,2,4-Trichlorobenzene	94	98	65-135	4	0-25	
4-Chloro-3-Methylphenol	95	102	45-135	7	0-20	
Acenaphthene	94	99	61-142	6	0-25	
4-Nitrophenol	77	84	45-135	8	0-20	
2,4-Dinitrotoluene	82	87	47-137	6	0-24	
Pentachlorophenol	75	83	45-135	11	0-20	
Pyrene	98	105	45-135	7	0-20	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-09-0519

Qualifier	Definition
2	Surrogate spike compound was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
D	The sample data was reported from a diluted analysis.
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.
X	% Recovery and/or RPD out-of-range.

SCE - ROSEMEAD, CA
ENVIRONMENTAL AFFAIRS
GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/12-9/13

Page 1 of 3

LABORATORY CLIENT: **Southern California Edison Co.**

ADDRESS: 2244 Walnut Grove Avenue

CITY: Rosemead, STATE: CA, ZIP: 91770

TEL: 626 / 302-4033 FAX: 626 / 302-9730 E-MAIL: weidners@sce.com

SCE PROJECT NAME / NUMBER: VISALIA STEAM REMEDIATION PROJECT

PROJECT CONTACT: RANDY WEIDNER

SAMPLER(S): (SIGNATURE) [signature]

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 9 - 0 5 1 9

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS: B-82/EW-1(00)

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	B-82/EW-1(00) 1-5'		9/12/00	4:05											X					
	-10'			4:15											X					
	-15'			4:20											X					
	-20'			4:30											X					
	-25'			4:35											X					
	-30'			4:42											X					
	-35'			4:52											X					
	-40'		9/13/00	7:45											X					
	-45'			7:55											X					
	-50'			8:05											X					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/15/00	1:30PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature) [signature]	Date: 09/15/00	Time: 1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

9/27/97 Revision

DISTRIBUTION: White with final report, Yellow to File, Pink to SCE

Q&Q Graphic (714) 898-9702

SCE - ROSEMEAD, CA
ENVIRONMENTAL AFFAIRS
GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/13

Page 2 of 3

LABORATORY CLIENT:	Southern California Edison Co.
ADDRESS:	2244 Walnut Grove Avenue
CITY	Rosemead,
STATE	CA
ZIP	91770
TEL:	626 / 302-4033
FAX:	626 / 302-9730
E-MAIL:	weidner5@sce.com
SCE PROJECT NAME / NUMBER:	VISALIA STEAM REMEDIATION PROJ
PROJECT CONTACT:	RANDY WEIDNER
SAMPLER(S): (SIGNATURE)	
P.O. NO.:	
QUOTE NO.:	
LAB USE ONLY	0 9 - 0 5 1 9

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	B82/EW1-55'		9/13/00	8:15											X					
	-60'			8:20											X					
	-65'			8:40											X					
	-70'			8:50											X					
	-75'			9:00											X					
	-80'			9:10											X					
	-85'			9:25											X					
	-90'			9:38											X					
	-95'			9:48											X					
	-100'			9:58											X					

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/15/00	Time: 1:30 PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 09/15/00	Time: 1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

9/27/97 Revision

DISTRIBUTION: White with final report, Yellow to File, Pink to SCE

Q&Q Graphic (714) 898-9702

SCE ROSEMEAD, CA
ENVIRONMENTAL AFFAIRS
GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/13/00

Page 3 of 3

LABORATORY CLIENT:	Southern California Edison Co.
ADDRESS:	2244 Walnut Grove Avenue
CITY	Rosemead,
STATE	CA
ZIP	91770
TEL:	626 / 302-4033
FAX:	626 / 302-9730
E-MAIL:	weidners@sce.com
SCE PROJECT NAME / NUMBER:	VISALIA STEAM REMEDIATION PROJ.
PROJECT CONTACT:	RANDY WEIDNER
SAMPLER(S): (SIGNATURE)	RSWeidner
P.O. NO.:	
QUOTE NO.:	
LAB USE ONLY	0 9 - 0 5 1 9

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	~~B-82/EW-1(00)~~	~~104'~~																		
X	B-82/EW-1(00)	-105.5'													X					
		~~-107'~~																		
		~~-108.5~~																		
X		-110													X					
		-115		11:20											X					
		~~-120~~		~~11:30~~																

Relinquished by: (Signature) RSWeidner	Received by: (Signature)	Date: 9/15/00	Time: 1:30 PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 09/15/00	Time: 1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

9/27/97 Revision

DISTRIBUTION: White with final report, Yellow to File, Pink to SCE

Q-Q Graphic (714) 898-9702

Calscience
Environmental
Laboratories, Inc.

September 29, 2000

Randy Weidner
Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Subject: **Calscience Work Order No.: 00-09-0518**
Client Reference: SCE VPY Steam Remediation

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 09/15/00 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
William H. Christensen
Quality Assurance Manager

William H. Christensen
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-5	00-09-0518-1	09/13/00	Solid	09/16/00	09/20/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	31-142		Phenol-d6	89	30-136	
Nitrobenzene-d5	82	28-139		2-Fluorobiphenyl	87	33-144	
2,4,6-Tribromophenol	98	24-152		p-Terphenyl-d14	87	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-10	00-09-0518-2	09/13/00	Solid	09/16/00	09/20/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	87	31-142		Phenol-d6	91	30-136	
Nitrobenzene-d5	83	28-139		2-Fluorobiphenyl	88	33-144	
2,4,6-Tribromophenol	101	24-152		p-Terphenyl-d14	89	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-15	00-09-0518-3	09/13/00	Solid	09/16/00	09/20/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.15	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.93	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	0.44	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.36	0.40	1	J	mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	91	31-142		Phenol-d6	96	30-136	
Nitrobenzene-d5	88	28-139		2-Fluorobiphenyl	93	33-144	
2,4,6-Tribromophenol	107	24-152		p-Terphenyl-d14	90	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-20	00-09-0518-4	09/13/00	Solid	09/16/00	09/20/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	89	31-142		Phenol-d6	93	30-136	
Nitrobenzene-d5	86	28-139		2-Fluorobiphenyl	91	33-144	
2,4,6-Tribromophenol	104	24-152		p-Terphenyl-d14	90	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-25	00-09-0518-5	09/13/00	Solid	09/16/00	09/20/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	80	31-142		Phenol-d6	84	30-136	
Nitrobenzene-d5	81	28-139		2-Fluorobiphenyl	83	33-144	
2,4,6-Tribromophenol	90	24-152		p-Terphenyl-d14	83	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-30	00-09-0518-6	09/13/00	Solid	09/16/00	09/20/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	88	31-142		Phenol-d6	91	30-136	
Nitrobenzene-d5	86	28-139		2-Fluorobiphenyl	88	33-144	
2,4,6-Tribromophenol	103	24-152		p-Terphenyl-d14	92	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-35	00-09-0518-7	09/13/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	0.16	0.50	1	J	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	62	25	10	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	3.7	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.11	0.40	1	J	mg/kg
Benzoic Acid	2.2	2.5	1	J	mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	3.0	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	1.2	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	0.11	0.50	1	J	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	1.0	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.16	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.13	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.12	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	90	31-142		Phenol-d6	88	30-136	
Nitrobenzene-d5	93	28-139		2-Fluorobiphenyl	89	33-144	
2,4,6-Tribromophenol	96	24-152		p-Terphenyl-d14	93	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-40	00-09-0518-8	09/13/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.24	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	0.62	2.5	1	J	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	3.4	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.27	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	3.8	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	4.0	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.22	0.40	1	J	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	2.8	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.38	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.36	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.28	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	0.12	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	89	31-142		Phenol-d6	90	30-136	
Nitrobenzene-d5	93	28-139		2-Fluorobiphenyl	98	33-144	
2,4,6-Tribromophenol	102	24-152		p-Terphenyl-d14	101	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-45	00-09-0518-9	09/13/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.20	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	3.8	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	2.1	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	1.4	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	28	20	50	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	22	20	50	D	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	1.5	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	0.12	0.50	1	J	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	5.4	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.2	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	1.2	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.83	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	87	31-142		Phenol-d6	85	30-136	
Nitrobenzene-d5	87	28-139		2-Fluorobiphenyl	89	33-144	
2,4,6-Tribromophenol	90	24-152		p-Terphenyl-d14	97	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-50	00-09-0518-10	09/13/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	0.17	2.5	1	J	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	3.8	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	5.3	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	1.6	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	23	20	50	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	32	20	50	D	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	4.1	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	10	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.7	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	2.3	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	1.2	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.23	0.40	1	J	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	0.42	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.35	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	86	31-142		Phenol-d6	87	30-136	
Nitrobenzene-d5	89	28-139		2-Fluorobiphenyl	94	33-144	
2,4,6-Tribromophenol	97	24-152		p-Terphenyl-d14	108	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-55	00-09-0518-11	09/14/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	1.2	0.5	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	130	50	D	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	77	20	50	D	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	4.1	0.4	1		mg/kg
Benzoic Acid	0.12	2.5	1	J	mg/kg	Di-n-Butyl Phthalate	0.15	0.50	1	J	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	100	20	50	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	73	20	50	D	mg/kg
Naphthalene	0.31	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	9.4	0.4	1		mg/kg
2-Methylnaphthalene	0.51	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	0.10	0.50	1	J	mg/kg
1-Methylnaphthalene	0.33	0.40	1	J	mg/kg	Chrysene	22	20	50	D	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	5.5	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	5.9	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	3.4	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.68	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	0.30	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.81	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	31-142		Phenol-d6	86	30-136	
Nitrobenzene-d5	88	28-139		2-Fluorobiphenyl	84	33-144	
2,4,6-Tribromophenol	98	24-152		p-Terphenyl-d14	96	23-160	D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-60	00-09-0518-12	09/14/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	0.14	2.5	1	J	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.69	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.40	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	1.8	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	2.4	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	2.3	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	3.6	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.97	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	1.3	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.64	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.14	0.40	1	J	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	0.20	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.17	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	31-142		Phenol-d6	78	30-136	
Nitrobenzene-d5	75	28-139		2-Fluorobiphenyl	78	33-144	
2,4,6-Tribromophenol	81	24-152		p-Terphenyl-d14	95	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-65	00-09-0518-13	09/14/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.78	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.21	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	2.1	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	2.3	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	2.2	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	2.6	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.41	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.50	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.21	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	83	31-142		Phenol-d6	86	30-136	
Nitrobenzene-d5	81	28-139		2-Fluorobiphenyl	76	33-144	
2,4,6-Tribromophenol	91	24-152		p-Terphenyl-d14	95	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-70	00-09-0518-14	09/14/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.31	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	3.9	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.64	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	8.9	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	11	0.40	1		mg/kg
Naphthalene	0.21	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	4.7	0.4	1		mg/kg
2-Methylnaphthalene	0.43	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.24	0.40	1	J	mg/kg	Chrysene	5.4	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.4	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	1.6	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	1.1	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.24	0.40	1	J	mg/kg
Acenaphthylene	0.14	0.40	1	J	mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.21	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	31-142		Phenol-d6	88	30-136	
Nitrobenzene-d5	87	28-139		2-Fluorobiphenyl	86	33-144	
2,4,6-Tribromophenol	88	24-152		p-Terphenyl-d14	92	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-75	00-09-0518-15	09/14/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.99	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.14	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.80	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.89	0.40	1		mg/kg
Naphthalene	0.23	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.74	0.40	1		mg/kg
2-Methylnaphthalene	0.13	0.40	1	J	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.94	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.17	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.25	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.15	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	79	31-142		Phenol-d6	81	30-136	
Nitrobenzene-d5	76	28-139		2-Fluorobiphenyl	61	33-144	
2,4,6-Tribromophenol	84	24-152		p-Terphenyl-d14	92	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-80	00-09-0518-16	09/14/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.32	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	1.6	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.19	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	1.3	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	1.3	0.4	1		mg/kg
Naphthalene	0.54	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.78	0.40	1		mg/kg
2-Methylnaphthalene	0.36	0.40	1	J	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.22	0.40	1	J	mg/kg	Chrysene	0.94	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.17	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.25	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.14	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	0.19	0.40	1	J	mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	85	31-142		Phenol-d6	87	30-136	
Nitrobenzene-d5	83	28-139		2-Fluorobiphenyl	58	33-144	
2,4,6-Tribromophenol	91	24-152		p-Terphenyl-d14	93	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-85	00-09-0518-17	09/14/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.52	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.11	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.49	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.54	0.40	1		mg/kg
Naphthalene	0.11	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	1.3	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	1.2	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.29	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.43	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.76	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.16	0.40	1	J	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	85	31-142		Phenol-d6	85	30-136	
Nitrobenzene-d5	86	28-139		2-Fluorobiphenyl	90	33-144	
2,4,6-Tribromophenol	87	24-152		p-Terphenyl-d14	93	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-90	00-09-0518-18	09/14/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.88	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	0.16	0.40	1	J	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	2.6	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.36	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	2.5	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	2.4	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.35	0.40	1	J	mg/kg
2-Methylnaphthalene	1.0	0.4	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.75	0.40	1		mg/kg	Chrysene	0.35	0.40	1	J	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.16	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.27	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.23	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	1.4	0.4	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	89	31-142		Phenol-d6	89	30-136	
Nitrobenzene-d5	89	28-139		2-Fluorobiphenyl	95	33-144	
2,4,6-Tribromophenol	91	24-152		p-Terphenyl-d14	96	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-95	00-09-0518-19	09/14/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.42	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	0.11	0.40	1	J	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	1.8	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.85	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	21	8	20	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	33	8	20	D	mg/kg
Naphthalene	11	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	4.2	0.4	1		mg/kg
2-Methylnaphthalene	1.4	0.4	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	1.8	0.4	1		mg/kg	Chrysene	4.6	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.5	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	2.0	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	1.4	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.13	0.40	1	J	mg/kg
Acenaphthylene	0.24	0.40	1	J	mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.11	0.40	1	J	mg/kg
Acenaphthene	0.89	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	81	31-142		Phenol-d6	82	30-136	
Nitrobenzene-d5	83	28-139		2-Fluorobiphenyl	77	33-144	
2,4,6-Tribromophenol	93	24-152		p-Terphenyl-d14	102	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-100	00-09-0518-20	09/14/00	Solid	09/16/00	09/22/00	0009162

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	7.6	0.5	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	3.4	0.4	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	0.10	2.5	1	J	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	6.5	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	2.8	0.4	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	5.9	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	8.1	0.4	1		mg/kg
Naphthalene	5.1	0.4	1	D	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	2.3	0.4	1	D	mg/kg
2-Methylnaphthalene	1.8	0.4	1	D	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	9.9	0.4	1		mg/kg	Chrysene	3.0	0.4	1	D	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.8	0.4	1	D	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	15	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	2.5	0.3	1	D	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	5.7	0.4	1		mg/kg
Acenaphthylene	1.6	0.4	1		mg/kg	Dibenz (a,h) Anthracene	3.2	0.4	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	4.6	0.4	1		mg/kg
Acenaphthene	5.3	0.4	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	31-142		Phenol-d6	78	30-136	
Nitrobenzene-d5	78	28-139		2-Fluorobiphenyl	83	33-144	
2,4,6-Tribromophenol	81	24-152		p-Terphenyl-d14	100	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-101.5	00-09-0518-21	09/14/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.12	0.40	1	J	mg/kg
Naphthalene	0.33	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.57	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.81	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.27	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.38	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.11	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	72	31-142		Phenol-d6	75	30-136	
Nitrobenzene-d5	69	28-139		2-Fluorobiphenyl	55	33-144	
2,4,6-Tribromophenol	78	24-152		p-Terphenyl-d14	115	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-105	00-09-0518-22	09/14/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.59	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	0.13	0.40	1	J	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	1.8	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.41	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	3.8	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	4.9	0.4	1		mg/kg
Naphthalene	4.7	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	2.7	0.4	1		mg/kg
2-Methylnaphthalene	1.7	0.4	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	1.3	0.4	1		mg/kg	Chrysene	3.1	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.84	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	1.1	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.85	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	0.16	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.13	0.40	1	J	mg/kg
Acenaphthene	0.64	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	73	31-142		Phenol-d6	75	30-136	
Nitrobenzene-d5	70	28-139		2-Fluorobiphenyl	58	33-144	
2,4,6-Tribromophenol	84	24-152		p-Terphenyl-d14	108	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-110	00-09-0518-23	09/14/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.45	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	0.10	0.40	1	J	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	1.4	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.31	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	2.6	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	3.4	0.4	1		mg/kg
Naphthalene	3.5	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	1.8	0.4	1		mg/kg
2-Methylnaphthalene	1.2	0.4	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.90	0.40	1		mg/kg	Chrysene	2.1	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.60	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.78	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.60	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	0.46	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	76	31-142		Phenol-d6	77	30-136	
Nitrobenzene-d5	74	28-139		2-Fluorobiphenyl	59	33-144	
2,4,6-Tribromophenol	81	24-152		p-Terphenyl-d14	105	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-111.5	00-09-0518-24	09/14/00	Solid	09/16/00	09/25/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.27	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.88	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.18	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	1.1	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	1.3	0.4	1		mg/kg
Naphthalene	1.7	0.4	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	1.1	0.4	1		mg/kg
2-Methylnaphthalene	0.60	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.39	0.40	1	J	mg/kg	Chrysene	1.3	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.36	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.51	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.43	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.11	0.40	1	J	mg/kg
Acenaphthene	0.23	0.40	1	J	mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	72	31-142		Phenol-d6	74	30-136	
Nitrobenzene-d5	73	28-139		2-Fluorobiphenyl	47	33-144	
2,4,6-Tribromophenol	75	24-152		p-Terphenyl-d14	84	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
S-14(00)-115	00-09-0518-25	09/14/00	Solid	09/16/00	09/25/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	0.11	0.50	1	J	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.37	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	0.54	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	14	4	10	D	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	19	4	10	D	mg/kg
Naphthalene	0.86	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	0.12	0.50	1	J	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	4.6	0.4	1		mg/kg
2-Methylnaphthalene	0.25	0.40	1	J	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.16	0.40	1	J	mg/kg	Chrysene	4.9	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	1.1	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	1.5	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	1.4	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	0.37	0.40	1	J	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	0.14	0.40	1	J	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	0.33	0.40	1	J	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	31-142		Phenol-d6	80	30-136	
Nitrobenzene-d5	73	28-139		2-Fluorobiphenyl	55	33-144	
2,4,6-Tribromophenol	82	24-152		p-Terphenyl-d14	88	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	**099-04-010-776**	**N/A**	**Solid**	**09/16/00**	**09/20/00**	**0009163**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	89	31-142		Phenol-d6	94	30-136	
Nitrobenzene-d5	89	28-139		2-Fluorobiphenyl	94	33-144	
2,4,6-Tribromophenol	107	24-152		p-Terphenyl-d14	93	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	**099-04-010-782**	**N/A**	**Solid**	**09/16/00**	**09/21/00**	**0009162**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	90	31-142		Phenol-d6	91	30-136	
Nitrobenzene-d5	93	28-139		2-Fluorobiphenyl	96	33-144	
2,4,6-Tribromophenol	94	24-152		p-Terphenyl-d14	100	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-14(00)-40	Solid	GC/MS P	09/16/00	09/22/00	00095188

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	74	81	53-118	8	0-19	
2-Chlorophenol	84	91	60-119	8	0-18	
1,4-Dichlorobenzene	83	90	56-131	8	0-18	
N-Nitroso-di-n-propylamine	84	91	64-123	8	0-18	
1,2,4-Trichlorobenzene	86	93	52-144	8	0-17	
4-Chloro-3-Methylphenol	86	95	45-135	10	0-20	
Acenaphthene	85	91	45-152	7	0-18	
4-Nitrophenol	102	103	45-135	1	0-20	
2,4-Dinitrotoluene	83	89	42-128	7	0-23	
Pentachlorophenol	107	119	45-135	10	0-20	
Pyrene	86	95	45-135	7	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
00-09-0521-1	Solid	GC/MS P	09/16/00	09/22/00	00095211

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	74	78	53-118	6	0-19	
2-Chlorophenol	83	87	60-119	5	0-18	
1,4-Dichlorobenzene	79	85	56-131	7	0-18	
N-Nitroso-di-n-propylamine	83	87	64-123	5	0-18	
1,2,4-Trichlorobenzene	82	88	52-144	7	0-17	
4-Chloro-3-Methylphenol	86	89	45-135	4	0-20	
Acenaphthene	86	88	45-152	3	0-18	
4-Nitrophenol	86	87	45-135	1	0-20	
2,4-Dinitrotoluene	81	83	42-128	2	0-23	
Pentachlorophenol	84	86	45-135	2	0-20	
Pyrene	84	89	45-135	5	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received: 09/15/00
Work Order No: 00-09-0518
Preparation: EPA 3545
Method: EPA 8270C

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-010-782	Solid	GC/MS P	09/16/00	09/21/00	0009162

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	75	78	67-118	4	0-24	
2-Chlorophenol	82	88	72-119	6	0-24	
1,4-Dichlorobenzene	78	83	69-118	5	0-27	
N-Nitroso-di-n-propylamine	82	87	70-112	5	0-24	
1,2,4-Trichlorobenzene	81	87	65-135	7	0-25	
4-Chloro-3-Methylphenol	85	86	45-135	2	0-20	
Acenaphthene	84	86	61-142	3	0-25	
4-Nitrophenol	92	94	45-135	1	0-20	
2,4-Dinitrotoluene	85	84	47-137	1	0-24	
Pentachlorophenol	83	89	45-135	7	0-20	
Pyrene	88	90	45-135	3	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received:	09/15/00
Work Order No:	00-09-0518
Preparation:	EPA 3545
Method:	EPA 8270C

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-010-776	Solid	GC/MS P	09/16/00	09/20/00	0009163

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	77	78	67-118	1	0-24	
2-Chlorophenol	85	87	72-119	2	0-24	
1,4-Dichlorobenzene	81	84	69-118	3	0-27	
N-Nitroso-di-n-propylamine	82	83	70-112	1	0-24	
1,2,4-Trichlorobenzene	84	86	65-135	3	0-25	
4-Chloro-3-Methylphenol	87	89	45-135	2	0-20	
Acenaphthene	85	86	61-142	1	0-25	
4-Nitrophenol	90	95	45-135	6	0-20	
2,4-Dinitrotoluene	83	85	47-137	2	0-24	
Pentachlorophenol	99	104	45-135	5	0-20	
Pyrene	87	88	45-135	1	0-20	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-09-0518

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.
X	% Recovery and/or RPD out-of-range.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

SCE - ROSEMEAD, CA
ENVIRONMENTAL AFFAIRS
GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/13/00

Page 1 of 3

LABORATORY CLIENT:	Southern California Edison Co.
ADDRESS:	2244 Walnut Grove Avenue
CITY	Rosemead,
STATE	CA
ZIP	91770
TEL:	626 / 302-4033
FAX:	626 / 302-9730
E-MAIL:	Weidners@sce.com
SCE PROJECT NAME / NUMBER:	VISALIA STEAM REMEDIATION PROJ
PROJECT CONTACT:	RANDY WEIDNER
SAMPLER(S): (SIGNATURE)	RSWeidner
P.O. NO.:	
QUOTE NO.:	
LAB USE ONLY	09-0518

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	S-14(00)	-5'	9/13	4:00	S	1									X					
		-10'		4:15	S	1									X					
		-15'		4:22	S	1									X					
		-20'		4:28	S	1									X					
		-25		4:35	S	1									X					
		-30		4:40	S	1									X					
		-35		4:50	S	1									X					
		-40		4:55	S	1									X					
		-45		5:05	S	1									X					
		-50		5:15	S	1									X					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
RSWeidner		9/15/00	1:30 PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature) R. Faure	09/15/00	1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

9/27/97 Revision

DISTRIBUTION: White with final report, Yellow to File, Pink to SCE

Q&Q Graphic (714) 898-9702

SCE ROSEMEAD, CA

ENVIRONMENTAL AFFAIRS

GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/14/00

Page 2 of 3

LABORATORY CLIENT: Southern California Edison Co.

ADDRESS: 2244 Walnut Grove Avenue

CITY: Rosemead, STATE: CA ZIP: 91770

TEL: 626 / 302-4033 FAX: 626 / 302-9730 E-MAIL: weidners@sce.com

SCE PROJECT NAME / NUMBER: VISALIA STEAM REMEDIATION PROJECT

PROJECT CONTACT: RANDY WEIDNER

SAMPLER(S): (SIGNATURE) [signature]

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 8 - 0 5 1 8

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	S-14(00)-55		9/14	7:30	S	1									X					
	-60			7:40	S	1									X					
	-65			7:55	S	1									X					
	-70			8:05	S	1									X					
	-75			8:20	S	1									X					
	-80			8:35	S	1									X					
	-85			9:05	S	1									X					
	-90			9:30	S	1									X					
	-95			9:40	S	1									X					
	-100			9:50	S	1									X					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/15/00	1:30 PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
	[signature]	09/15/00	1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

9/27/97 Revision

DISTRIBUTION: White with final report, Yellow to File, Pink to SCE

Q&Q Graphic (714) 898-9702

SCE - ROSEMEAD, CA

ENVIRONMENTAL AFFAIRS

GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/14/00

Page 3 of 3

LABORATORY CLIENT: **Southern California Edison Co.**

ADDRESS: **2244 Walnut Grove Avenue**

CITY: **Rosemead,** STATE: **CA** ZIP: **91770**

TEL: 626 / 302-4033 FAX: 626 / 302-9730 E-MAIL: weidnerr@sce.com

SCE PROJECT NAME / NUMBER: VISALIA STEAM REMEDIATION PROJ

PROJECT CONTACT: RANDY WEIDNER

SAMPLER(S): (SIGNATURE) [signature]

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 2 - 0 5 1 8

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	S-14(00)-101.5		9/14	10.00	S	1									X					
	-105			10:05	S	1									X					
	-110			10:20	S	1									X					
	111.5			10:25	S	1									X					
	-115			10:35	S	1									X					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/15/00	1:30PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
	[signature]	09/15/00	1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

9/27/97 Revision

DISTRIBUTION: White with final report, Yellow to File, Pink to SCE

Q&Q Graphic (714) 898-9702

Calscience
Environmental
Laboratories, Inc.

September 29, 2000

Randy Weidner
Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Subject: **Calscience Work Order No.: 00-09-0521**
Client Reference: SCE VPY Steam Remediation

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 09/15/00 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
William H. Christensen
Quality Assurance Manager

William H. Christensen
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0521
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-10	00-09-0521-1	09/14/00	Solid	09/16/00	09/21/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	74	31-142		Phenol-d6	77	30-136	
Nitrobenzene-d5	77	28-139		2-Fluorobiphenyl	77	33-144	
2,4,6-Tribromophenol	72	24-152		p-Terphenyl-d14	77	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0521
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-20	00-09-0521-2	09/14/00	Solid	09/16/00	09/21/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	79	31-142		Phenol-d6	83	30-136	
Nitrobenzene-d5	81	28-139		2-Fluorobiphenyl	83	33-144	
2,4,6-Tribromophenol	78	24-152		p-Terphenyl-d14	87	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0521
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-30	00-09-0521-3	09/14/00	Solid	09/16/00	09/21/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	31-142		Phenol-d6	85	30-136	
Nitrobenzene-d5	84	28-139		2-Fluorobiphenyl	85	33-144	
2,4,6-Tribromophenol	80	24-152		p-Terphenyl-d14	86	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0521
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-40	00-09-0521-4	09/14/00	Solid	09/16/00	09/21/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	31-142		Phenol-d6	80	30-136	
Nitrobenzene-d5	80	28-139		2-Fluorobiphenyl	80	33-144	
2,4,6-Tribromophenol	72	24-152		p-Terphenyl-d14	83	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0521
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-45	00-09-0521-5	09/14/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	76	31-142		Phenol-d6	79	30-136	
Nitrobenzene-d5	79	28-139		2-Fluorobiphenyl	80	33-144	
2,4,6-Tribromophenol	76	24-152		p-Terphenyl-d14	83	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0521
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-50	00-09-0521-6	09/14/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	81	31-142		Phenol-d6	82	30-136	
Nitrobenzene-d5	81	28-139		2-Fluorobiphenyl	78	33-144	
2,4,6-Tribromophenol	77	24-152		p-Terphenyl-d14	84	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0521
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-55	00-09-0521-7	09/14/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.28	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.17	0.40	1	J	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.14	0.40	1	J	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	0.16	0.40	1	J	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0.65	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	0.15	0.40	1	J	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	0.19	0.40	1	J	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	0.12	0.35	1	J	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	81	31-142		Phenol-d6	84	30-136	
Nitrobenzene-d5	80	28-139		2-Fluorobiphenyl	71	33-144	
2,4,6-Tribromophenol	78	24-152		p-Terphenyl-d14	82	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0521
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-60	00-09-0521-8	09/15/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.29	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.21	0.40	1	J	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.14	0.40	1	J	mg/kg
Naphthalene	0.31	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	80	31-142		Phenol-d6	83	30-136	
Nitrobenzene-d5	83	28-139		2-Fluorobiphenyl	82	33-144	
2,4,6-Tribromophenol	79	24-152		p-Terphenyl-d14	86	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0521
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-70	00-09-0521-9	09/15/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.19	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.11	0.40	1	J	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	80	31-142		Phenol-d6	82	30-136	
Nitrobenzene-d5	76	28-139		2-Fluorobiphenyl	72	33-144	
2,4,6-Tribromophenol	76	24-152		p-Terphenyl-d14	83	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0521
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-80	00-09-0521-10	09/15/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	79	31-142		Phenol-d6	81	30-136	
Nitrobenzene-d5	78	28-139		2-Fluorobiphenyl	79	33-144	
2,4,6-Tribromophenol	73	24-152		p-Terphenyl-d14	80	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0521
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-90	00-09-0521-11	09/15/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	76	31-142		Phenol-d6	76	30-136	
Nitrobenzene-d5	77	28-139		2-Fluorobiphenyl	76	33-144	
2,4,6-Tribromophenol	69	24-152		p-Terphenyl-d14	79	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0521
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-100	00-09-0521-12	09/15/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	0.14	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	83	31-142		Phenol-d6	83	30-136	
Nitrobenzene-d5	82	28-139		2-Fluorobiphenyl	83	33-144	
2,4,6-Tribromophenol	78	24-152		p-Terphenyl-d14	86	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0521
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-104.5	00-09-0521-13	09/15/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	0.17	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	31-142		Phenol-d6	79	30-136	
Nitrobenzene-d5	78	28-139		2-Fluorobiphenyl	77	33-144	
2,4,6-Tribromophenol	74	24-152		p-Terphenyl-d14	83	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0521
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-110	00-09-0521-14	09/15/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.61	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.37	0.40	1	J	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.18	0.40	1	J	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	82	31-142		Phenol-d6	84	30-136	
Nitrobenzene-d5	81	28-139		2-Fluorobiphenyl	79	33-144	
2,4,6-Tribromophenol	79	24-152		p-Terphenyl-d14	84	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received:	09/15/00
Work Order No:	00-09-0521
Preparation:	EPA 3545
Method:	EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
B-94(00)-115	00-09-0521-15	09/15/00	Solid	09/16/00	09/22/00	0009163

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.30	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.16	0.40	1	J	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	0.11	0.40	1	J	mg/kg
Naphthalene	0.20	0.40	1	J	mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	0.16	0.40	1	J	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	0.11	0.40	1	J	mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	83	31-142		Phenol-d6	84	30-136	
Nitrobenzene-d5	86	28-139		2-Fluorobiphenyl	86	33-144	
2,4,6-Tribromophenol	80	24-152		p-Terphenyl-d14	89	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Date Received: 09/15/00
Work Order No: 00-09-0521
Preparation: EPA 3545
Method: EPA 8270C

Project: SCE VPY Steam Remediation

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	**099-04-010-776**	**N/A**	**Solid**	**09/16/00**	**09/20/00**	**0009163**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophenol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran	ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene	ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphenylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine	ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene	ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthracene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (b) Fluoranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluoranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrene	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Perylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	89	31-142		Phenol-d6	94	30-136	
Nitrobenzene-d5	89	28-139		2-Fluorobiphenyl	94	33-144	
2,4,6-Tribromophenol	107	24-152		p-Terphenyl-d14	93	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received:	09/15/00
Work Order No:	00-09-0521
Preparation:	EPA 3545
Method:	EPA 8270C

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-94(00)-10	Solid	GC/MS P	09/16/00	09/22/00	00095211

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	74	78	53-118	6	0-19	
2-Chlorophenol	83	87	60-119	5	0-18	
1,4-Dichlorobenzene	79	85	56-131	7	0-18	
N-Nitroso-di-n-propylamine	83	87	64-123	5	0-18	
1,2,4-Trichlorobenzene	82	88	52-144	7	0-17	
4-Chloro-3-Methylphenol	86	89	45-135	4	0-20	
Acenaphthene	86	88	45-152	3	0-18	
4-Nitrophenol	86	87	45-135	1	0-20	
2,4-Dinitrotoluene	81	83	42-128	2	0-23	
Pentachlorophenol	84	86	45-135	2	0-20	
Pyrene	84	89	45-135	5	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Project: SCE VPY Steam Remediation

Date Received:	09/15/00
Work Order No:	00-09-0521
Preparation:	EPA 3545
Method:	EPA 8270C

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-010-776	Solid	GC/MS P	09/16/00	09/20/00	0009163

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	77	78	67-118	1	0-24	
2-Chlorophenol	85	87	72-119	2	0-24	
1,4-Dichlorobenzene	81	84	69-118	3	0-27	
N-Nitroso-di-n-propylamine	82	83	70-112	1	0-24	
1,2,4-Trichlorobenzene	84	86	65-135	3	0-25	
4-Chloro-3-Methylphenol	87	89	45-135	2	0-20	
Acenaphthene	85	86	61-142	1	0-25	
4-Nitrophenol	90	95	45-135	6	0-20	
2,4-Dinitrotoluene	83	85	47-137	2	0-24	
Pentachlorophenol	99	104	45-135	5	0-20	
Pyrene	87	88	45-135	1	0-20	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-09-0521

Qualifier	Definition
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

SCE - ROSEMEAD, CA
ENVIRONMENTAL AFFAIRS
GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/14/00

Page 1 of 2

LABORATORY CLIENT: Southern California Edison Co.

ADDRESS: 2244 Walnut Grove Avenue

CITY: Rosemead, STATE: CA, ZIP: 91770

TEL: 626 / 302-4033 FAX: 626 / 302-9730 E-MAIL: weidner5@sce.com

SCE PROJECT NAME / NUMBER: VISALIA STEAM REMEDIATION PROJ.

PROJECT CONTACT: RANDY WEIDNER

SAMPLER(S): (SIGNATURE) R W Weidner

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 9 - 0 5 2 1

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	B-44(00)-10		9/14	3:20											X					
	-20			3:30											X					
	-30			3:40											X					
	-40			3:50											X					
	-45			4:00											X					
	-50			4:10											X					
	-55			4:20											X					
	-60		9/15	7:27											X					
	-70			7:40											X					
	-80			8:00											X					

Relinquished by: (Signature) R W Weidner	Received by: (Signature)	Date: 9/15/00	Time: 1:30 PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 09/15/00	Time: 1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

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SCE - ROSEMEAD, CA

ENVIRONMENTAL AFFAIRS

GO1, ROOM 405

CHAIN OF CUSTODY RECORD

Date 9/15/00

Page 2 of 2

LABORATORY CLIENT: Southern California Edison Co.

ADDRESS: 2244 Walnut Grove Avenue

CITY: Rosemead, STATE: CA, ZIP: 91770

TEL: 626 / 302-4033 FAX: 626 / 302-9730 E-MAIL: weidners@sce.com

SCE PROJECT NAME / NUMBER: VISALIA STEAM REMEDIATION PROJ.

PROJECT CONTACT: RANDY WEIDNER

SAMPLER(S): (SIGNATURE) RS Weidner

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 9 - 0 5 2 1

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HRS ☐ 5 DAYS ☒ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8280	EPA 525.2 (SCE LIST)	EPA 8270C (SCE LIST)	TPH (d), RL = 0.05 ppm	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	CAC, T22 METALS (6010A)	ICP / MS METALS (6020)	PNAs (8310)	VOCs (TO-14)
	B-94(00)-90		9/15	8:14											X					
X	-100			8:25											X					
	-101.5			8:30											X					
	-103			8:40											X					
X	-104.5			8:45											X					
	-106			8:50											X					
X	-110			9:07											X					
	-115			9:15											X					

Relinquished by: (Signature) RS Weidner	Received by: (Signature)	Date: 9/15/00	Time: 1:30 PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 09/15/00	Time: 1330

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

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STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605-1500

Tel: 916 373 5600
Fax: 916 371 8420
www.stl-inc.com

December 5, 2000

STL SACRAMENTO PROJECT NUMBER: G0J260325
PO/CONTRACT: M4048901

Randy Weidner
Conservation Financing Corp.
Southern California Edison
P.O. Box 800
Rosemead, CA 91770

Dear Mr. Weidner,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on 10/26/00. These samples are associated with your Visalia Pole Yard project.

All applicable quality control procedures met method-specified acceptance criteria, except as noted on the following page.

If you have any questions, please feel free to call me at (916)374-4362.

Sincerely,

Diana Brooks
Project Manager

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G0J260325

SOLID, 8280, Dioxins/Furans, HRGC/LRMS

The laboratory control sample associated with your samples shows the PcDF recovery above control limits. All samples are "not detected" for this analyte, thus no further corrective action was needed.

All samples show an OCDD concentration above the calibration level of the curve and many of these samples had ratios outside of control limits for the 13C-OCDD internal standard due to contribution to the internal standard.

Sample MW-34/B-19 (00) - 40 was diluted due to saturation of OCDD on the detector. The sample also had to be calculated against the 13C-HpCDF internal standard due to matrix interference in the 13C-OCDD internal standard.

There were no other anomalies associated with this project.

STL SACRAMENTO

Quality Control Definitions

QC Parameter	Definition
QC Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Duplicate Control Sample (DCS)	Consist of a pair of LCSs analyzed within the same QC batch to monitor precision and accuracy independent of sample matrix effects. This QC is performed only if required by client or when insufficient sample is available to perform MS/MSD.
Duplicate Sample (DU)	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Laboratory Control Sample (LCS)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. An LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MSs/MSDs are carried through the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank (MB)	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate Spike	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.

Source: STL Sacramento® Quality Control Program, Policy QA-003, Rev. 0, 8/19/96.

SAMPLE SUMMARY

G0J260325

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DNWCD	001	B-75(00)-30	09/11/00	
DNWCM	002	B-75(00)-50	09/11/00	
DNWCN	003	S-14(00)-35	09/13/00	
DNWCQ	004	S-14(00)-45	09/13/00	
DNWCT	005	S-14(00)-50	09/13/00	
DNWCW	006	B-82/EW-1(00)-5	09/12/00	
DNWC3	007	B-82/EW-1(00)-10	09/12/00	
DNWC5	008	B-82/EW-1(00)-25	09/12/00	
DNWC8	009	B-82/EW-1(00)-30	09/12/00	
DNWDA	010	B-82/EW-1(00)-40	09/12/00	
DNWDD	011	MW-34/B-19(00)-5	09/12/00	
DNWDP	012	MW-34/B-19(00)-10	09/12/00	
DNWDQ	013	MW-34/B-19(00)-25	09/12/00	
DNWDR	014	MW-34/B-19(00)-30	09/12/00	
DNWDV	015	MW-34/B-19(00)-40	09/12/00	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

Date 10/25/00

Page 1 of 2

LABORATORY CLIENT: Southern California Edison Company

ADDRESS: 2244 Walnut Grove Avenue

CITY: Rosemead, CA 91770 STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: SCE VPY Steam Remediation

P.O. NO.:

PROJECT CONTACT: C. Eaker / R. Weidner

LAB USE ONLY

SAMPLER(S): (SIGNATURE)

COOLER RECEIPT TEMP = °C

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS Report and invoice to SCE. Refer any questions to C. Eaker (626/302-8531 eakercl@sce.com) or R. Weidner (626/302-4033 weidners@sce.com).

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or ___	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)	EPA 8280 Modified for SCE			
	B-75(00)-30		9/11/00		S	1																X			
	B-75(00)-50		9/11/00		S	1																X			
	S-14(00)-35		9/13/00		S	1																X			
	S-14(00)-45		9/13/00		S	1																X			
	S-14(00)-50		9/13/00		S	1																X			
	B-82/EW-1(00)-5		9/12/00		S	1																X			
	B-82/EW-1(00)-10		9/12/00		S	1																X			
	B-82/EW-1(00)-25		9/12/00		S	1																X			
	B-82/EW-1(00)-30		9/12/00		S	1																X			
	B-82/EW-1(00)-40		9/13/00		S	1																X			

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[signature]		10/25/00	1610
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	[signature]	10/26/00	1355

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

Date 10/25/00

LABORATORY CLIENT: Southern California Edison Company

ADDRESS: 2244 Walnut Grove Avenue

CITY: Rosemead, CA 91770 STATE: ZIP:

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: SCE VPY Steam Remediation

PROJECT CONTACT: C. Eaker / R. Weidner

SAMPLER(S): (SIGNATURE)

P.O. NO.:

LAB USE ONLY

COOLER RECEIPT TEMP = °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS: Report and invoice to SCE. Refer any questions to C. Eaker (626/302-8531 eakercl@sce.com) or R. Weidner (626/302-4033 weidners@sce.com).

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or ___	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)	EPA 8280 Modified for SCE			
	MW-34/B-19(00)-5		9/12/00		S	1																X			
	MW-34/B-19(00)-10		9/12/00		S	1																X			
	MW-34/B-19(00)-25		9/12/00		S	1																X			
	MW-34/B-19(00)-30		9/12/00		S	1																X			
	MW-34/B-19(00)-40		9/12/00		S	1																X			

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R. Fan		10/25/00	1610
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
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Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
	Megan Burcent	10/26/00	1355

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CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: B-75(00)-30

Lot-Sample #...:	G0J260325-001	Work Order #...:	DNWCD1AA	Matrix....:	SOLID
Date Sampled...:	9/11/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/12/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.030	1.000	0.00
Total TCDD	ND		0.030		
1,2,3,7,8-PeCDD	ND		0.14	0.500	0.00
Total PeCDD	ND		0.14		
1,2,3,4,7,8-HxCDD	ND		0.051	0.100	0.00
1,2,3,6,7,8-HxCDD	ND		0.042	0.100	0.00
1,2,3,7,8,9-HxCDD	ND		0.044	0.100	0.00
Total HxCDD	ND		0.042		
1,2,3,4,6,7,8-HpCDD	ND		0.23	0.010	0.00
Total HpCDD	ND		0.23		
OCDD	2.4	J	--	0.001	0.00
2,3,7,8-TCDF	ND		0.047	0.100	0.00
Total TCDF	ND		0.047		
1,2,3,7,8-PeCDF	ND		0.042	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.038	0.500	0.00
Total PeCDF	ND		0.038		
1,2,3,4,7,8-HxCDF	ND		0.028	0.100	0.00
1,2,3,6,7,8-HxCDF	ND		0.023	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.028	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.028	0.100	0.00
Total HxCDF	ND		0.023		
1,2,3,4,6,7,8-HpCDF	ND		0.073	0.010	0.00
1,2,3,4,7,8,9-HpCDF	ND		0.095	0.010	0.00
Total HpCDF	ND		0.073		
OCDF	ND		0.22	0.001	0.00
Total TEQ Concentration					**0.00**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	40 - 120
13C-2,3,7,8-TCDF	88	40 - 120
13C-1,2,3,6,7,8-HxCDD	100	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	102	40 - 120
13C-OCDD	92	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: B-75(00)-50

Lot-Sample #...:	G0J260325-002	Work Order #...:	DNWCM1AA	Matrix....:	SOLID
Date Sampled...:	9/11/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/12/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.046	1.000	0.00
Total TCDD	ND		0.046		
1,2,3,7,8-PeCDD	ND		0.12	0.500	0.00
Total PeCDD	ND		0.12		
1,2,3,4,7,8-HxCDD	ND		0.089	0.100	0.00
1,2,3,6,7,8-HxCDD	ND		0.074	0.100	0.00
1,2,3,7,8,9-HxCDD	ND		0.077	0.100	0.00
Total HxCDD	ND		0.074		
1,2,3,4,6,7,8-HpCDD	0.91	J	--	0.010	0.01
Total HpCDD	0.91		--		
OCDD	9.2		--	0.001	0.01
2,3,7,8-TCDF	ND		0.069	0.100	0.00
Total TCDF	ND		0.069		
1,2,3,7,8-PeCDF	ND		0.050	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.045	0.500	0.00
Total PeCDF	ND		0.045		
1,2,3,4,7,8-HxCDF	ND		0.049	0.100	0.00
1,2,3,6,7,8-HxCDF	ND		0.039	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.048	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.049	0.100	0.00
Total HxCDF	ND		0.039		
1,2,3,4,6,7,8-HpCDF	ND		0.19	0.010	0.00
1,2,3,4,7,8,9-HpCDF	ND		0.24	0.010	0.00
Total HpCDF	ND		0.19		
OCDF	ND		0.41	0.001	0.00
Total TEQ Concentration					0.02

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	40 - 120
13C-2,3,7,8-TCDF	84	40 - 120
13C-1,2,3,6,7,8-HxCDD	89	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	91	40 - 120
13C-OCDD	85	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: S-14(00)-35

Lot-Sample #...:	G0J260325-003	Work Order #...:	DNWCN1AA	Matrix....:	SOLID
Date Sampled...:	9/13/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/12/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.039	1.000	0.00
Total TCDD	ND		0.039		
1,2,3,7,8-PeCDD	ND		0.076	0.500	0.00
Total PeCDD	ND		0.076		
1,2,3,4,7,8-HxCDD	ND		0.38	0.100	0.00
1,2,3,6,7,8-HxCDD	0.67	J	--	0.100	0.07
1,2,3,7,8,9-HxCDD	ND		0.33	0.100	0.00
Total HxCDD	2.8		--		
1,2,3,4,6,7,8-HpCDD	130	E	--	0.010	1.28
Total HpCDD	230		--		
OCDD	950	E	--	0.001	0.95
2,3,7,8-TCDF	ND		0.067	0.100	0.00
Total TCDF	ND		0.067		
1,2,3,7,8-PeCDF	ND		0.14	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.13	0.500	0.00
Total PeCDF	ND		0.13		
1,2,3,4,7,8-HxCDF	0.24	J	--	0.100	0.02
1,2,3,6,7,8-HxCDF	ND		0.18	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.22	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.22	0.100	0.00
Total HxCDF	3.4		--		
1,2,3,4,6,7,8-HpCDF	4.3		--	0.010	0.04
1,2,3,4,7,8,9-HpCDF	ND		0.26	0.010	0.00
Total HpCDF	26		--		
OCDF	16		--	0.001	0.02
Total TEQ Concentration					2.38

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C-2,3,7,8-TCDD	81		40 - 120
13C-2,3,7,8-TCDF	79		40 - 120
13C-1,2,3,6,7,8-HxCDD	79		40 - 120
13C-1,2,3,4,6,7,8-HpCDF	83		40 - 120
13C-OCDD	172	*	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

* Surrogate recovery is outside stated control limits.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: S-14(00)-45

Lot-Sample #...:	G0J260325-004	Work Order #...:	DNWCQ1AA	Matrix....:	SOLID
Date Sampled...:	9/13/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/12/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.064	1.000	0.00
Total TCDD	ND		0.064		
1,2,3,7,8-PeCDD	ND		0.18	0.500	0.00
Total PeCDD	ND		1.4		
1,2,3,4,7,8-HxCDD	1.3		--	0.100	0.13
1,2,3,6,7,8-HxCDD	7.4		--	0.100	0.74
1,2,3,7,8,9-HxCDD	2.0		--	0.100	0.20
Total HxCDD	48		--		
1,2,3,4,6,7,8-HpCDD	830	E	--	0.010	8.28
Total HpCDD	1200		--		
OCDD	3300	E	--	0.001	3.34
2,3,7,8-TCDF	ND		0.27	0.100	0.00
Total TCDF	ND		0.27		
1,2,3,7,8-PeCDF	ND		0.24	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.22	0.500	0.00
Total PeCDF	ND		0.22		
1,2,3,4,7,8-HxCDF	0.66	J	--	0.100	0.06
1,2,3,6,7,8-HxCDF	ND		0.26	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.32	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.32	0.100	0.00
Total HxCDF	15		--		
1,2,3,4,6,7,8-HpCDF	17		--	0.010	0.17
1,2,3,4,7,8,9-HpCDF	ND		1.1	0.010	0.00
Total HpCDF	130		--		
OCDF	120	E	--	0.001	0.12
Total TEQ Concentration					13.05

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	40 - 120
13C-2,3,7,8-TCDF	83	40 - 120
13C-1,2,3,6,7,8-HxCDD	92	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	76	40 - 120
13C-OCDD	87	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: S-14(00)-50

Lot-Sample #...:	G0J260325-005	Work Order #...:	DNWCT1AA	Matrix....:	SOLID
Date Sampled...:	9/13/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/12/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.12	1.000	0.00
Total TCDD	ND		0.12		
1,2,3,7,8-PeCDD	ND		0.39	0.500	0.00
Total PeCDD	3.9		--		
1,2,3,4,7,8-HxCDD	3.2		--	0.100	0.32
1,2,3,6,7,8-HxCDD	20		--	0.100	1.95
1,2,3,7,8,9-HxCDD	5.6		--	0.100	0.56
Total HxCDD	140		--		
1,2,3,4,6,7,8-HpCDD	1800	E	--	0.010	18.00
Total HpCDD	2700		--		
OCDD	5400	E	--	0.001	5.36
2,3,7,8-TCDF	ND		0.13	0.100	0.00
Total TCDF	ND		0.13		
1,2,3,7,8-PeCDF	ND		0.25	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.22	0.500	0.00
Total PeCDF	ND		0.40		
1,2,3,4,7,8-HxCDF	1.6	J	--	0.100	0.16
1,2,3,6,7,8-HxCDF	ND		0.38	0.100	0.00
2,3,4,6,7,8-HxCDF	0.33	J	--	0.100	0.03
1,2,3,7,8,9-HxCDF	ND		0.47	0.100	0.00
Total HxCDF	38		--		
1,2,3,4,6,7,8-HpCDF	39	E	--	0.010	0.39
1,2,3,4,7,8,9-HpCDF	2.2	J	--	0.010	0.02
Total HpCDF	270		--		
OCDF	270	E	--	0.001	0.27
Total TEQ Concentration					27.06

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 120
13C-2,3,7,8-TCDF	86	40 - 120
13C-1,2,3,6,7,8-HxCDD	100	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	87	40 - 120
13C-OCDD	84	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: B-82/EW-1(00)-5

Lot-Sample #...:	G0J260325-006	Work Order #...:	DNWCW1AA	Matrix....:	SOLID
Date Sampled...:	9/12/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/12/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND	0.063	1.000	0.00
Total TCDD	ND	0.063		
1,2,3,7,8-PeCDD	ND	0.53	0.500	0.00
Total PeCDD	ND	0.53		
1,2,3,4,7,8-HxCDD	ND	0.17	0.100	0.00
1,2,3,6,7,8-HxCDD	ND	0.14	0.100	0.00
1,2,3,7,8,9-HxCDD	ND	0.14	0.100	0.00
Total HxCDD	ND	0.14		
1,2,3,4,6,7,8-HpCDD	ND	0.98	0.010	0.00
Total HpCDD	ND	0.98		
OCDD	4.8	--	0.001	0.00
2,3,7,8-TCDF	ND	0.075	0.100	0.00
Total TCDF	ND	0.075		
1,2,3,7,8-PeCDF	ND	0.059	0.050	0.00
2,3,4,7,8-PeCDF	ND	0.053	0.500	0.00
Total PeCDF	ND	0.053		
1,2,3,4,7,8-HxCDF	ND	0.068	0.100	0.00
1,2,3,6,7,8-HxCDF	ND	0.054	0.100	0.00
2,3,4,6,7,8-HxCDF	ND	0.067	0.100	0.00
1,2,3,7,8,9-HxCDF	ND	0.067	0.100	0.00
Total HxCDF	ND	0.054		
1,2,3,4,6,7,8-HpCDF	ND	0.20	0.010	0.00
1,2,3,4,7,8,9-HpCDF	ND	0.26	0.010	0.00
Total HpCDF	ND	0.20		
OCDF	ND	0.078	0.001	0.00
Total TEQ Concentration				0.00

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	75	40 - 120
13C-2,3,7,8-TCDF	79	40 - 120
13C-1,2,3,6,7,8-HxCDD	97	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	98	40 - 120
13C-OCDD	88	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: B-82/EW-1(00)-10

Lot-Sample #...:	G0J260325-007	Work Order #...:	DNWC31AA	Matrix....:	SOLID
Date Sampled...:	9/12/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/13/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.026	1.000	0.00
Total TCDD	ND		0.026		
1,2,3,7,8-PeCDD	ND		0.093	0.500	0.00
Total PeCDD	ND		0.093		
1,2,3,4,7,8-HxCDD	ND		0.20	0.100	0.00
1,2,3,6,7,8-HxCDD	0.74	J	--	0.100	0.07
1,2,3,7,8,9-HxCDD	ND		0.18	0.100	0.00
Total HxCDD	2.4		--		
1,2,3,4,6,7,8-HpCDD	62	E	--	0.010	0.62
Total HpCDD	120		--		
OCDD	900	E	--	0.001	0.90
2,3,7,8-TCDF	ND		0.053	0.100	0.00
Total TCDF	ND		0.053		
1,2,3,7,8-PeCDF	ND		0.088	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.080	0.500	0.00
Total PeCDF	ND		0.080		
1,2,3,4,7,8-HxCDF	ND		0.30	0.100	0.00
1,2,3,6,7,8-HxCDF	ND		0.24	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.30	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.30	0.100	0.00
Total HxCDF	3.6		--		
1,2,3,4,6,7,8-HpCDF	4.3		--	0.010	0.04
1,2,3,4,7,8,9-HpCDF	ND		0.39	0.010	0.00
Total HpCDF	31		--		
OCDF	33		--	0.001	0.03
Total TEQ Concentration					1.67

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	40 - 120
13C-2,3,7,8-TCDF	78	40 - 120
13C-1,2,3,6,7,8-HxCDD	84	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	94	40 - 120
13C-OCDD	106	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: B-82/EW-1(00)-25

Lot-Sample #...:	G0J260325-008	Work Order #...:	DNWC51AA	Matrix....:	SOLID
Date Sampled...:	9/12/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/13/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.044	1.000	0.00
Total TCDD	ND		0.044		
1,2,3,7,8-PeCDD	ND		0.16	0.500	0.00
Total PeCDD	ND		0.16		
1,2,3,4,7,8-HxCDD	ND		0.41	0.100	0.00
1,2,3,6,7,8-HxCDD	4.0		--	0.100	0.40
1,2,3,7,8,9-HxCDD	ND		0.36	0.100	0.00
Total HxCDD	11		--		
1,2,3,4,6,7,8-HpCDD	230	E	--	0.010	2.26
Total HpCDD	370		--		
OCDD	1600	E	--	0.001	1.62
2,3,7,8-TCDF	ND		0.12	0.100	0.00
Total TCDF	ND		0.12		
1,2,3,7,8-PeCDF	ND		0.13	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.12	0.500	0.00
Total PeCDF	ND		0.12		
1,2,3,4,7,8-HxCDF	ND		0.35	0.100	0.00
1,2,3,6,7,8-HxCDF	ND		0.25	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.31	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.31	0.100	0.00
Total HxCDF	16		--		
1,2,3,4,6,7,8-HpCDF	21		--	0.010	0.21
1,2,3,4,7,8,9-HpCDF	1.2	J	--	0.010	0.01
Total HpCDF	160		--		
OCDF	110	E	--	0.001	0.11
Total TEQ Concentration					4.61

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C-2,3,7,8-TCDD	83		40 - 120
13C-2,3,7,8-TCDF	86		40 - 120
13C-1,2,3,6,7,8-HxCDD	84		40 - 120
13C-1,2,3,4,6,7,8-HpCDF	82		40 - 120
13C-OCDD	156	*	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

*	Surrogate recovery is outside stated control limits.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: B-82/EW-1(00)-30

Lot-Sample #...:	G0J260325-009	Work Order #...:	DNWC81AA	Matrix....:	SOLID
Date Sampled...:	9/12/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/13/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.11	1.000	0.00
Total TCDD	ND		0.11		
1,2,3,7,8-PeCDD	ND		0.39	0.500	0.00
Total PeCDD	ND		0.39		
1,2,3,4,7,8-HxCDD	ND		0.97	0.100	0.00
1,2,3,6,7,8-HxCDD	**7.1**		--	**0.100**	**0.71**
1,2,3,7,8,9-HxCDD	ND		0.85	0.100	0.00
Total HxCDD	**19**		--		
1,2,3,4,6,7,8-HpCDD	**360**	**E**	--	**0.010**	**3.60**
Total HpCDD	**600**		--		
OCDD	ND			0.001	0.00
2,3,7,8-TCDF	ND		0.13	0.100	0.00
Total TCDF	ND		0.13		
1,2,3,7,8-PeCDF	ND		0.30	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.27	0.500	0.00
Total PeCDF	ND		0.27		
1,2,3,4,7,8-HxCDF	ND		0.78	0.100	0.00
1,2,3,6,7,8-HxCDF	ND		0.62	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.76	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.77	0.100	0.00
Total HxCDF	**32**		--		
1,2,3,4,6,7,8-HpCDF	**39**	**E**	--	**0.010**	**0.39**
1,2,3,4,7,8,9-HpCDF	**2.1**		--	**0.010**	**0.02**
Total HpCDF	**270**		--		
OCDF	**310**	**E**	--	**0.001**	**0.31**
Total TEQ Concentration					**5.03**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	40 - 120
13C-2,3,7,8-TCDF	89	40 - 120
13C-1,2,3,6,7,8-HxCDD	98	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	93	40 - 120
13C-OCDD	90	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

E Estimated result. Result concentration exceeds the calibration range.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: B-82/EW-1(00)-40

Lot-Sample #...:	G0J260325-010	Work Order #...:	DNWDA1AA	Matrix....:	SOLID
Date Sampled...:	9/12/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/13/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.058	1.000	0.00
Total TCDD	ND		0.058		
1,2,3,7,8-PeCDD	ND		0.60	0.500	0.00
Total PeCDD	ND		0.60		
1,2,3,4,7,8-HxCDD	ND		1.3	0.100	0.00
1,2,3,6,7,8-HxCDD	10		--	0.100	1.00
1,2,3,7,8,9-HxCDD	ND		1.2	0.100	0.00
Total HxCDD	28		--		
1,2,3,4,6,7,8-HpCDD	540	E	--	0.010	5.43
Total HpCDD	930		--		
OCDD	4900	E	--	0.001	4.87
2,3,7,8-TCDF	ND		0.089	0.100	0.00
Total TCDF	ND		0.089		
1,2,3,7,8-PeCDF	ND		0.26	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.23	0.500	0.00
Total PeCDF	ND		0.23		
1,2,3,4,7,8-HxCDF	0.85	J	--	0.100	0.08
1,2,3,6,7,8-HxCDF	ND		0.39	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.48	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.48	0.100	0.00
Total HxCDF	38		--		
1,2,3,4,6,7,8-HpCDF	49	E	--	0.010	0.49
1,2,3,4,7,8,9-HpCDF	3.1		--	0.010	0.03
Total HpCDF	370		--		
OCDF	330	E	--	0.001	0.32
Total TEQ Concentration					12.23

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	40 - 120
13C-2,3,7,8-TCDF	87	40 - 120
13C-1,2,3,6,7,8-HxCDD	98	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	91	40 - 120
13C-OCDD	109	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: MW-34/B-19(00)-5

Lot-Sample #...:	G0J260325-011	Work Order #...:	DNWDD1AA	Matrix....:	SOLID
Date Sampled...:	9/12/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/13/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.021	1.000	0.00
Total TCDD	ND		0.021		
1,2,3,7,8-PeCDD	ND		0.073	0.500	0.00
Total PeCDD	ND		0.073		
1,2,3,4,7,8-HxCDD	ND		0.056	0.100	0.00
1,2,3,6,7,8-HxCDD	ND		0.046	0.100	0.00
1,2,3,7,8,9-HxCDD	ND		0.048	0.100	0.00
Total HxCDD	ND		0.046		
1,2,3,4,6,7,8-HpCDD	ND		0.32	0.010	0.00
Total HpCDD	ND		0.53		
OCDD	1.9	J	--	0.001	0.00
2,3,7,8-TCDF	ND		0.057	0.100	0.00
Total TCDF	ND		0.057		
1,2,3,7,8-PeCDF	ND		0.032	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.029	0.500	0.00
Total PeCDF	ND		0.029		
1,2,3,4,7,8-HxCDF	ND		0.11	0.100	0.00
1,2,3,6,7,8-HxCDF	ND		0.091	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.11	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.11	0.100	0.00
Total HxCDF	ND		0.091		
1,2,3,4,6,7,8-HpCDF	ND		0.087	0.010	0.00
1,2,3,4,7,8,9-HpCDF	ND		0.11	0.010	0.00
Total HpCDF	ND		0.087		
OCDF	ND		0.093	0.001	0.00
Total TEQ Concentration					0.00

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	40 - 120
13C-2,3,7,8-TCDF	82	40 - 120
13C-1,2,3,6,7,8-HxCDD	104	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	98	40 - 120
13C-OCDD	101	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: MW-34/B-19(00)-10

Lot-Sample #...:	G0J260325-012	Work Order #...:	DNWDP1AA	Matrix....:	SOLID
Date Sampled...:	9/12/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/13/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.038	1.000	0.00
Total TCDD	ND		0.038		
1,2,3,7,8-PeCDD	ND		0.098	0.500	0.00
Total PeCDD	ND		0.098		
1,2,3,4,7,8-HxCDD	ND		0.79	0.100	0.00
1,2,3,6,7,8-HxCDD	ND		0.66	0.100	0.00
1,2,3,7,8,9-HxCDD	ND		0.69	0.100	0.00
Total HxCDD	ND		0.66		
1,2,3,4,6,7,8-HpCDD	26	E	--	0.010	0.26
Total HpCDD	49		--		
OCDD	280	E	--	0.001	0.28
2,3,7,8-TCDF	ND		0.064	0.100	0.00
Total TCDF	ND		0.064		
1,2,3,7,8-PeCDF	ND		0.046	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.042	0.500	0.00
Total PeCDF	ND		0.042		
1,2,3,4,7,8-HxCDF	ND		0.11	0.100	0.00
1,2,3,6,7,8-HxCDF	ND		0.090	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.11	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.11	0.100	0.00
Total HxCDF	0.30		--		
1,2,3,4,6,7,8-HpCDF	0.66	J	--	0.010	0.01
1,2,3,4,7,8,9-HpCDF	ND		0.090	0.010	0.00
Total HpCDF	4.4		--		
OCDF	3.9		--	0.001	0.00
Total TEQ Concentration					0.55

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	40 - 120
13C-2,3,7,8-TCDF	82	40 - 120
13C-1,2,3,6,7,8-HxCDD	68	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	68	40 - 120
13C-OCDD	116	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: MW-34/B-19(00)-25

Lot-Sample #...:	G0J260325-013	Work Order #...:	DNWDQ1AA	Matrix....:	SOLID
Date Sampled...:	9/12/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/13/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.055	1.000	0.00
Total TCDD	ND		0.055		
1,2,3,7,8-PeCDD	ND		0.11	0.500	0.00
Total PeCDD	ND		0.52		
1,2,3,4,7,8-HxCDD	0.58	J	--	0.100	0.06
1,2,3,6,7,8-HxCDD	5.1		--	0.100	0.51
1,2,3,7,8,9-HxCDD	0.92	J	--	0.100	0.09
Total HxCDD	30		--		
1,2,3,4,6,7,8-HpCDD	550	E	--	0.010	5.54
Total HpCDD	940		--		
OCDD	4100	E	--	0.001	4.13
2,3,7,8-TCDF	ND		0.067	0.100	0.00
Total TCDF	ND		0.067		
1,2,3,7,8-PeCDF	ND		0.091	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.082	0.500	0.00
Total PeCDF	ND		0.082		
1,2,3,4,7,8-HxCDF	0.61	J	--	0.100	0.06
1,2,3,6,7,8-HxCDF	ND		0.18	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.22	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.22	0.100	0.00
Total HxCDF	18		--		
1,2,3,4,6,7,8-HpCDF	22		--	0.010	0.22
1,2,3,4,7,8,9-HpCDF	1.5		--	0.010	0.01
Total HpCDF	170		--		
OCDF	390	E	--	0.001	0.39
Total TEQ Concentration					11.02

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C-2,3,7,8-TCDD	87		40 - 120
13C-2,3,7,8-TCDF	88		40 - 120
13C-1,2,3,6,7,8-HxCDD	98		40 - 120
13C-1,2,3,4,6,7,8-HpCDF	80		40 - 120
13C-OCDD	31	*	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

* Surrogate recovery is outside stated control limits.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: MW-34/B-19(00)-30

Lot-Sample #...:	G0J260325-014	Work Order #...:	DNWDR1AA	Matrix....:	SOLID
Date Sampled...:	9/12/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/13/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.051	1.000	0.00
Total TCDD	ND		0.051		
1,2,3,7,8-PeCDD	ND		0.078	0.500	0.00
Total PeCDD	ND		0.66		
1,2,3,4,7,8-HxCDD	0.84	J	--	0.100	0.08
1,2,3,6,7,8-HxCDD	6.1		--	0.100	0.61
1,2,3,7,8,9-HxCDD	1.4		--	0.100	0.14
Total HxCDD	44		--		
1,2,3,4,6,7,8-HpCDD	830	E	--	0.010	8.28
Total HpCDD	1500		--		
OCDD	3700	E	--	0.001	3.69
2,3,7,8-TCDF	ND		0.059	0.100	0.00
Total TCDF	ND		0.059		
1,2,3,7,8-PeCDF	ND		0.18	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.17	0.500	0.00
Total PeCDF	ND		0.17		
1,2,3,4,7,8-HxCDF	0.57	J	--	0.100	0.06
1,2,3,6,7,8-HxCDF	ND		0.24	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.29	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.29	0.100	0.00
Total HxCDF	16		--		
1,2,3,4,6,7,8-HpCDF	23		--	0.010	0.23
1,2,3,4,7,8,9-HpCDF	1.4		--	0.010	0.01
Total HpCDF	170		--		
OCDF	160	E	--	0.001	0.16
Total TEQ Concentration					13.26

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	40 - 120
13C-2,3,7,8-TCDF	90	40 - 120
13C-1,2,3,6,7,8-HxCDD	87	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	81	40 - 120
13C-OCDD	100	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Client Sample ID: MW-34/B-19(00)-40

Lot-Sample #...:	G0J260325-015	Work Order #...:	DNWDV1AA	Matrix....:	SOLID
Date Sampled...:	9/12/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/13/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND		0.15	1.000	0.00
Total TCDD	ND		0.15		
1,2,3,7,8-PeCDD	ND		0.59	0.500	0.00
Total PeCDD	ND		9.0		
1,2,3,4,7,8-HxCDD	3.8		--	0.100	0.38
1,2,3,6,7,8-HxCDD	16		--	0.100	1.62
1,2,3,7,8,9-HxCDD	5.9		--	0.100	0.59
Total HxCDD	180		--		
1,2,3,4,6,7,8-HpCDD	1700	E	--	0.010	17.32
Total HpCDD	2800		--		
OCDD	3200	E	--	0.001	3.24
2,3,7,8-TCDF	ND		0.073	0.100	0.00
Total TCDF	ND		0.073		
1,2,3,7,8-PeCDF	ND		0.35	0.050	0.00
2,3,4,7,8-PeCDF	ND		0.32	0.500	0.00
Total PeCDF	ND		0.32		
1,2,3,4,7,8-HxCDF	0.70	J	--	0.100	0.07
1,2,3,6,7,8-HxCDF	ND		0.50	0.100	0.00
2,3,4,6,7,8-HxCDF	ND		0.61	0.100	0.00
1,2,3,7,8,9-HxCDF	ND		0.62	0.100	0.00
Total HxCDF	20		--		
1,2,3,4,6,7,8-HpCDF	25		--	0.010	0.25
1,2,3,4,7,8,9-HpCDF	1.3		--	0.010	0.01
Total HpCDF	170		--		
OCDF	110	E	--	0.001	0.10
Total TEQ Concentration					23.59

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C-2,3,7,8-TCDD	83		40 - 120
13C-2,3,7,8-TCDF	85		40 - 120
13C-1,2,3,6,7,8-HxCDD	93		40 - 120
13C-1,2,3,4,6,7,8-HpCDF	88		40 - 120
13C-OCDD	188	*	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

*	Surrogate recovery is outside stated control limits.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated result. Result is less than the reporting limit.

CONSERVATION FINANCING CORP.

Dioxins/Furans, HRGC/LRMS (8280)

Method Blank

Lot-Sample #...:	G0K100000-510MB	Work Order #...:	DPPMW1AA	Matrix....:	SOLID
Date Sampled...:	9/11/00	Date Received..:	10/26/00	Instrument:	2DB
Prep Date.....:	11/8/00	Analysis Date..:	11/12/00	Units.....:	ng/g
Prep Batch #...:	0315510	Dilution Factor:	1		

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ Conc.
2,3,7,8-TCDD	ND	0.024	1.000	0.00
Total TCDD	ND	0.024		
1,2,3,7,8-PeCDD	ND	0.087	0.500	0.00
Total PeCDD	ND	0.087		
1,2,3,4,7,8-HxCDD	ND	0.054	0.100	0.00
1,2,3,6,7,8-HxCDD	ND	0.045	0.100	0.00
1,2,3,7,8,9-HxCDD	ND	0.047	0.100	0.00
Total HxCDD	ND	0.045		
1,2,3,4,6,7,8-HpCDD	ND	0.080	0.010	0.00
Total HpCDD	ND	0.080		
OCDD	ND	0.56	0.001	0.00
2,3,7,8-TCDF	ND	0.071	0.100	0.00
Total TCDF	ND	0.071		
1,2,3,7,8-PeCDF	ND	0.041	0.050	0.00
2,3,4,7,8-PeCDF	ND	0.037	0.500	0.00
Total PeCDF	ND	0.037		
1,2,3,4,7,8-HxCDF	ND	0.030	0.100	0.00
1,2,3,6,7,8-HxCDF	ND	0.024	0.100	0.00
2,3,4,6,7,8-HxCDF	ND	0.030	0.100	0.00
1,2,3,7,8,9-HxCDF	ND	0.030	0.100	0.00
Total HxCDF	ND	0.024		
1,2,3,4,6,7,8-HpCDF	ND	0.038	0.010	0.00
1,2,3,4,7,8,9-HpCDF	ND	0.049	0.010	0.00
Total HpCDF	ND	0.038		
OCDF	ND	0.071	0.001	0.00
Total TEQ Concentration				**0.00**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 120
13C-2,3,7,8-TCDF	81	40 - 120
13C-1,2,3,6,7,8-HxCDD	90	40 - 120
13C-1,2,3,4,6,7,8-HpCDF	94	40 - 120
13C-OCDD	73	40 - 120

NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

QC DATA ASSOCIATION SUMMARY

G0J260325

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
002	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
003	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
004	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
005	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
006	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
007	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306217	
008	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
009	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
010	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
011	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
012	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
013	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	
014	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G0J260325

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
015	SOLID	SW846 8280		0315510	
	SOLID	ASTM D 2216-90		0306224	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G0J260325 Work Order #...: DPPMW1AA Matrix.....: SOLID
MB Lot-Sample #: G0K100000-510

Prep Date.....: 11/08/00
Analysis Date..: 11/12/00 Prep Batch #...: 0315510
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.024	ng/g	SW846 8280
Total TCDD	ND	0.024	ng/g	SW846 8280
1,2,3,7,8-PeCDD	ND	0.087	ng/g	SW846 8280
Total PeCDD	ND	0.087	ng/g	SW846 8280
1,2,3,4,7,8-HxCDD	ND	0.054	ng/g	SW846 8280
1,2,3,6,7,8-HxCDD	ND	0.045	ng/g	SW846 8280
1,2,3,7,8,9-HxCDD	ND	0.047	ng/g	SW846 8280
Total HxCDD	ND	0.045	ng/g	SW846 8280
1,2,3,4,6,7,8-HpCDD	ND	0.080	ng/g	SW846 8280
Total HpCDD	ND	0.080	ng/g	SW846 8280
OCDD	ND	0.56	ng/g	SW846 8280
2,3,7,8-TCDF	ND	0.071	ng/g	SW846 8280
Total TCDF	ND	0.071	ng/g	SW846 8280
1,2,3,7,8-PeCDF	ND	0.041	ng/g	SW846 8280
2,3,4,7,8-PeCDF	ND	0.037	ng/g	SW846 8280
Total PeCDF	ND	0.037	ng/g	SW846 8280
1,2,3,4,7,8-HxCDF	ND	0.030	ng/g	SW846 8280
1,2,3,6,7,8-HxCDF	ND	0.024	ng/g	SW846 8280
2,3,4,6,7,8-HxCDF	ND	0.030	ng/g	SW846 8280
1,2,3,7,8,9-HxCDF	ND	0.030	ng/g	SW846 8280
Total HxCDF	ND	0.024	ng/g	SW846 8280
1,2,3,4,6,7,8-HpCDF	ND	0.038	ng/g	SW846 8280
1,2,3,4,7,8,9-HpCDF	ND	0.049	ng/g	SW846 8280
Total HpCDF	ND	0.038	ng/g	SW846 8280
OCDF	ND	0.071	ng/g	SW846 8280

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	(40 - 120)
13C-2,3,7,8-TCDF	81	(40 - 120)
13C-1,2,3,6,7,8-HxCDD	90	(40 - 120)
13C-1,2,3,4,6,7,8-HpCDF	94	(40 - 120)
13C-OCDD	73	(40 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G0J260325 Work Order #...: DPPMW1AC Matrix.....: SOLID
LCS Lot-Sample#: G0K100000-510
Prep Date.....: 11/08/00 Analysis Date..: 11/12/00
Prep Batch #...: 0315510
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	2.50	2.56	ng/g	103	SW846 8280
1,2,3,7,8-PeCDD	6.25	6.02	ng/g	96	SW846 8280
1,2,3,6,7,8-HxCDD	6.25	6.15	ng/g	98	SW846 8280
1,2,3,4,6,7,8-HpCDD	6.25	6.30	ng/g	101	SW846 8280
OCDD	12.5	12.8	ng/g	103	SW846 8280
2,3,7,8-TCDF	2.50	2.53	ng/g	101	SW846 8280
1,2,3,7,8-PeCDF	6.25	7.11 a	ng/g	114	SW846 8280
1,2,3,6,7,8-HxCDF	6.25	6.50	ng/g	104	SW846 8280
1,2,3,4,6,7,8-HpCDF	6.25	6.51	ng/g	104	SW846 8280
OCDF	12.5	13.3	ng/g	106	SW846 8280

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(40 - 120)
13C-2,3,7,8-TCDF	79	(40 - 120)
13C-1,2,3,6,7,8-HxCDD	94	(40 - 120)
13C-1,2,3,4,6,7,8-HpCDF	88	(40 - 120)
13C-OCDD	84	(40 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G0J260325 Work Order #...: DPPMW1AC Matrix.....: SOLID
LCS Lot-Sample#: G0K100000-510
Prep Date.....: 11/08/00 Analysis Date..: 11/12/00
Prep Batch #...: 0315510
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	**103**	**(70 - 115)**	**SW846 8280**
1,2,3,7,8-PeCDD	**96**	**(71 - 116)**	**SW846 8280**
1,2,3,6,7,8-HxCDD	**98**	**(78 - 116)**	**SW846 8280**
1,2,3,4,6,7,8-HpCDD	**101**	**(73 - 121)**	**SW846 8280**
OCDD	**103**	**(74 - 112)**	**SW846 8280**
2,3,7,8-TCDF	**101**	**(76 - 108)**	**SW846 8280**
1,2,3,7,8-PeCDF	**114 a**	**(73 - 112)**	**SW846 8280**
1,2,3,6,7,8-HxCDF	**104**	**(68 - 119)**	**SW846 8280**
1,2,3,4,6,7,8-HpCDF	**104**	**(72 - 110)**	**SW846 8280**
OCDF	**106**	**(73 - 110)**	**SW846 8280**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(40 - 120)
13C-2,3,7,8-TCDF	79	(40 - 120)
13C-1,2,3,6,7,8-HxCDD	94	(40 - 120)
13C-1,2,3,4,6,7,8-HpCDF	88	(40 - 120)
13C-OCDD	84	(40 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.