APPENDIX S
DRAFT WASTE MANAGEMENT PLAN

ATTACHMENT S-1
Additional Buyer's Due Diligence Investigations:
El Segundo Generating Station
El Segundo, California

ADDITIONAL BUYER'S DUE DILIGENCE INVESTIGATIONS: EL SEGUNDO GENERATING STATION
EL SEGUNDO, CALIFORNIA

VOLUME 1 - TEXT, TABLES, FIGURES, AND APPENDICES

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TABLE 4-1
SAMPLING LOCATIONS AND RATIONALE
El Segundo Generating Station
El Segundo, California
February 1998

Site Areas	Sample Locations	Soil Sample Depths (ft)	Matrix/Analysis	Investigation Activities
1. Chevron USA Inc. Refinery	Monitor 20 existing wells (see Table 4-2)	NA	Water - D2887, 8260, 8270, metals	Conduct baseline sampling of the 20 selected wells to assess current groundwater conditions.
2. Gasoline vapors under structures	No further action recommended at this time.		NA	Phase II investigation of the vapors appears to have been adequate.
3. Displacement Oil Tank	Sample: EOW-11, EOW-12, EOW-13	NA	Water: D2887, 8260, 8270, metals	TPH and BTEX detected in soil sample collected at the AST and groundwater samples collected from the adjacent well, EOW-11. Sample adjacent well and downgradient wells.
4a. ASTs: South Fuel Oil Storage Tank	Sample: EOW-12, EOW-13	NA	Water: D2887, 8260, 8270, metals	TPH and BTEX detected in soil samples collected at the AST and groundwater samples collected from nearby wells. Sample wells upgradient and downgradient of the AST.
4b. ASTs: North Fuel Oil Tank	Sample: EOW-12, EOW-13	NA	Water: D2887, 8260, 8270, metals	TPH and BTEX detected in soil samples collected at the AST and groundwater samples collected from nearby wells. Sample wells upgradient and downgradient of the AST.
4c. ASTs: Lube Oil Tanks	Sample: EOW-18	NA	Water: D2887, 8260, 8270, metals	Sample well EOW-18 which is located in the vicinity of the lube oil tanks.
5. Transformers	Sample: 8 HAs (HA-1 through HA-8), two per transformer	HA-1 - HA-8: 1,5	Soil: D2887, 8080, selected samples for 8270 & metals	SCE and GeoTrans sampling method and data conflict. TPH were detected at concentrations up to 108,000 mg/kg and PCBs at concentrations up to 1,230 µg/kg in SCE's composite samples. Conduct 8 HAs.
6. Powerblocks	No further action recommended at this time.		NA	Requested Chevron data pertaining to soil vapor extraction wells completed within the Powerblocks.
7a. Pipelines: Underground Pipelines	No further action recommended at this time.		NA	Phase II investigation of the underground pipelines appears to be adequate.
7b. Pipelines: Primary Fuel Pumping Area	Sample: ES-7 (former EOW-4)	NA	Water: D2887, 8260, 8270, metals	Well (MW-1) proposed south of primary fuel area where soil sampling and water sampling had not been conducted previously. Well was not installed in this investigation at the request of NRG/DE.

TABLE 4-1
SAMPLING LOCATIONS AND RATIONALE
El Segundo Generating Station
El Segundo, California
February 1998

Site Areas	Sample Locations	Soil Sample Depths (ft)	Matrix/Analysis	Investigation Activities
7c. Pipelines: Secondary Fuel Pumping Area #1	Sample: 1 GP/HP (GP/HP-4); Sample: EOW-34	GP/HP-4: 1,5,10,15,20,30, water sample @ 30	Soil: D2887, 8260, selected samples for 8270 & metals Water: D2887, 8260, 8270, metals	GP/HP-4 installed downgradient of B-22 and B-23. Hydropunch water sample to assess water quality downgradient of fuel area. Well EOW-28 was sampled to further assess water quality in this area.
7d. Pipelines: Secondary Fuel Pumping Area #2	Sample: 1 GP/HP (GP-1)	GP/HP-1: 1,5,10,15,20,30 water sample @ 30	Soil: D2887, 8260, selected samples for 8270 & metals Water: D2887, 8260, 8270, metals	GP/HP-1 to delineate TPH concentrations up to 23,800 mg/kg detected in this area. Hydropunch water sample to assess water quality in the vicinity of elevated TPH.
8. Oil/Water Separators	Sample: 2 GP/HPs (GP/HP-2, GP/HP-5) Sample: EOW-28	GP/HP-2: 5,10,15,20,30 GP/HP-5: 5,10,15,20,30, water samples @ 30	Soil: D2887, 8260, selected samples for 8270 & metals Water: D2887, 8260, 8270, metals	Geoprobes were collected downgradient of the oil water separators and sumps. Hydropunch water samples to assess water quality in these areas. Well EOW-34 sampled to further assess water quality in these areas.
9. Retention Basin	Install MW-2D; Sample ES-7 (former EOW-4), ES-4 (former EOW-14)	MW-2D: 5,10,15, 20,30,40,50,60	Soil - D2887, 8260, selected samples for 8270 & metals; Water - D2887, 8260, 8270, metals	The area is currently investigated by SCE. TPH not sampled for by SCE. Sample shallow wells upgradient and downgradient. Install deep well downgradient to assess water quality.
10. Switchyard Perimeter	Sample: EOW-7, EOW-29	NA	Water: D2887, 8260, 8270, metals	Sample existing wells EOW-7 and EOW-29, which are located cross gradient and downgradient.
11. Drains and Sumps	Install: 3 GP/HPs (GP/HP-2, GP/HP-3, GP/HP-5); Sample: EOW-28, EOW-30, EOW-35	GP/HP-2: 5,10,15,20,30 GP/HP-3: 5,10,15,20,30 GP/HP-5: 5,10,15,20,30 water samples @ 30	Soil: D2887, 8260, selected samples for 8270 & metals Water: D2887, 8260, 8270, metals	Soil sampling to supplement previous soil analytical results, which either did not include metals or TPH. Hydropunch water samples and well sampling to assess water quality in these areas.
12. Underground Storage Tanks (USTs)	Install: 2 MWs (MW-3S, MW-3D); Sample: EOW-19	MW-3S: 5,10,15,20,30 MW-3D: 40,50,60	Soil: D2887, 8260, selected samples for 8270 & metals Water: D2887, 8260, 8270, metals	MW-3S and MW-3D installed downgradient of the former UST area to assess TPH and VOCs detected in soil.
13. Acid Tank and Caustic Tank	No further action recommended at this time.		NA	Phase II investigation of the acid tank and caustic tank appears to have been adequate.

TABLE 4-1
SAMPLING LOCATIONS AND RATIONALE
El Segundo Generating Station
El Segundo, California
February 1998

Site Areas	Sample Locations	Soil Sample Depths (ft)	Matrix/Analysis	Investigation Activities
14. Hazardous Waste Storage Area	No further action recommended at this time.		NA	Phase II investigation of this hazardous waste storage area appears to have been adequate.
15. Hazardous Materials Storage Area	Install: 2 MWs (MW-3S, MW-3D); Sample: EOW-19	MW-3S: 5,10,15,20,30 MW-3D: 40,50,60	Soil: D2887, 8260, selected samples for 8270 & metals Water: D2887, 8260, 8270, metals	MW-3S and MW-3D installed downgradient of the hazardous materials storage area to assess TPH and VOCs detected in soil.
16. Degreaser and Paint Shop	Install: 1MW (MW-4S) Sample: EOW-18	MW-4S: 5,10,15,20,30	Soil: D2887, 8260, selected samples for 8270 & metals Water: D2887, 8260, 8270, metals	MW-4S installed in closer proximity to the degreaser to assess potential VOC concentrations in the vicinity of the degreaser and potential surface run-off from adjacent Chevron facility.
-- Aerosol Can Crusher	No further action recommended at this time.		NA	Phase II investigation did not address this area. Visual staining observed adjacent to the aerosol can crusher. Area will be addressed as part of decommissioning.
-- Debris Piles	No further action recommended at this time.		NA	Phase II investigation did not address this area. Based on observations, sampling is not recommended at this time.
-- Scrap Metal Pile	No further action recommended at this time.		NA	Phase II investigation did not address this area. Based on observations, sampling is not recommended at this time.
-- Surge Room	No further action recommended at this time.		NA	Phase II investigation did not address this area. Potential impacts to soil and groundwater in vicinity of surge room are not known at this time. Area will be addressed as part of decommissioning.

Notes:

-- other areas of potential concern from Phase II ESA
ASTs = aboveground storage tanks
DTSC = Department of Toxic Substances Control
ft = feet
GP = Geoprobe
HP = Hydropunch
MW = monitoring well
NA = not applicable
SAP = sampling and analysis plan
SCE = Southern California Edison
metals = California Code of Regulations Title 22 metals
RWQCB = Regional Water Quality Control Board, Los Angeles Region
USTs = underground storage tanks
D2887=ASTM Method D2887 simulated carbon chain analysis. This method is a modification of EPA Method 8015.
8020 = benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020
8080 = PCBs
8260 = volatile organic compounds (VOCs) by EPA Method 8260
8270 = semi-volatile organic compounds (SVOCs) by EPA Method 8270
TPH = total petroleum hydrocarbons
VOCs = volatile organic compounds

TABLE 4-2
GROUNDWATER SAMPLING LOCATIONS
El Segundo Generating Station
El Segundo, California
February 1998

Existing Wells	Analysis	Rationale
EOW-11	metals, D2887, 8260A, 8270	Adjacent to displacement oil tank
EOW-12	metals, D2887, 8260A, 8270	Downgradient of ASTs, boundary, benzene, MTBE trends
EOW-13	metals, D2887, 8260A, 8270	Downgradient of ASTs
EOW-14 (ES-4)	metals, D2887, 8260A, 8270	Downgradient of retention basin
EOW-15	metals, D2887, 8260A, 8270	Upgradient site well with product detected by Chevron
EOW-17	metals, D2887, 8260A, 8270	Upgradient of EOW-18, 19
EOW-18	metals, D2887, 8260A, 8270	Vicinity of lube and degreaser
EOW-19	metals, D2887, 8260A, 8270	Former UST area TCA in soil, TCE spill
EOW-22	metals, D2887, 8260A, 8270	Vicinity of EOW-24, 25
EOW-23	metals, D2887, 8260A, 8270	Upgradient of Powerblocks
EOW-24	metals, D2887, 8260A, 8270	Current Chevron MW in Gage Aquifer
EOW-25	metals, D2887, 8260A, 8270	Current Chevron MW in Silverado Aquifer
EOW-28	metals, D2887, 8260A, 8270	Increasing benzene in this well, MTBE, current Chevron MW
EOW-29	metals, D2887, 8260A, 8270	Downgradient switchyard, up gradient hazmat area
EOW-30	metals, D2887, 8260A, 8270	Downgradient of Powerblock #3
EOW-31	metals, D2887, 8260A, 8270	Upgradient
EOW-34	metals, D2887, 8260A, 8270	Downgradient of Powerblock #4 and 2nd fuel area #1
EOW-35	metals, D2887, 8260A, 8270	Downgradient of Powerblocks # 3 and # 4
EOW-4 (ES-7)	metals, D2887, 8260A, 8270	Primary fuel area down/cross gradient of tanks
EOW-7	metals, D2887, 8260A, 8270	Upgradient of site
NEW WELLS		
MW-2D	metals, D2887, 8260A, 8270	Downgradient of retention basin & ASTs
MW-3S	metals, D2887, 8260A, 8270	Downgradient of EOW-19, TCE release, UST area, and haz mat area
MW-3D	metals, D2887, 8260A, 8270	Downgradient of EOW-19, TCE release, UST area, and haz mat area
MW-4S	metals, D2887, 8260A, 8270	Vicinity of paint shop degreaser

D2887 = ASTM Method D2887, simulated carbon chain analysis. This method is a modification of EPA Method 8015.
8260A = EPA Method 8260 Volatiles
8270 = EPA Method 8270 Semivolatiles
S = shallow well (Dune aquifer)
D = deeper well (Gage aquifer)
AST = aboveground storage tank
MTBE = methyl tert-butyl ether
TCE = trichloroethylene
TCA = trichloroethane
UST = underground storage tank

TABLE 5-1
GROUNDWATER MEASUREMENTS
NEW AND EXISTING[1] MONITORING WELLS
El Segundo Generating Station
El Segundo, California
December 1997 - January 1998

Well No.	Well Depth (feet)	Top-of-Casing Elevation (feet, msl)	Date Measured	Time Measured	Depth to Water (feet)	Groundwater Elevation (feet, msl)
Old Dune Sand Aquifer:						
MW-3S	29.40	21.37	01/23/98	9:10	14.32	7.05
			01/05/98	10:30	14.63	6.74
			12/23/97	7:48	14.55	6.82
MW-4S	30.20	19.69	01/05/98	12:50	13.03	6.66
			12/23/97	10:40	12.89	6.80
EOW-4/ ES-7	30.00	26.46	12/19/97	7:30	18.80	7.66
			12/15/97	10:24	18.74	7.72
EOW-07	28.97	19.68	12/15/97	11:35	11.96	7.72
			12/17/97	10:14	11.95	7.73
EOW-11	45.40	35.09	12/18/97	8:18	26.79	8.30
			12/15/97	10:30	26.82	8.27
EOW-12	36.13	26.60	12/18/97	10:42	18.80	7.80
			12/15/97	10:15	18.35	8.25
EOW-13	30.23	25.16	12/19/97	10:32	16.95	8.21
			12/15/97	10:11	17.20	7.96
EOW-14/ ES-4	38.83	25.70	01/23/98	10:05	18.20	7.50
			12/19/97	9:05	18.10	7.60
			12/15/97	10:05	17.90	7.80
EOW-15	92.45	75.18	12/17/97	12:26	67.25	7.93
			12/15/97	10:37	67.25	7.93
EOW-17	31.40	19.94	12/17/97	11:00	12.77	7.17
			12/15/97	9:24	12.82	7.12
EOW-18	33.88	19.63	12/16/97	13:26	12.74	6.89
			12/15/97	9:30	12.89	6.74
EOW-19	33.60	19.00	12/16/97	12:58	12.00	7.00
			12/15/97	9:33	12.00	7.00
EOW-22	33.80	20.22	12/16/97	9:50	12.77	7.45
			12/15/97	9:58	12.79	7.43
EOW-23	32.89	19.53	12/17/97	8:41	12.04	7.49
			12/15/97	11:38	12.15	7.38
EOW-27	35.00	22.67	01/23/98	8:54	15.14	7.53
			12/15/97	11:57	14.82	7.85
EOW-28	32.65	19.71	12/17/97	14:20	12.35	7.36
			12/15/97	9:55	12.29	7.42
EOW-29	41.65	32.07	01/23/98	9:02	24.50	7.57
			12/16/97	9:55	24.55	7.52
			12/15/97	10:52	24.39	7.68

TABLE 5-1
GROUNDWATER MEASUREMENTS
NEW AND EXISTING[1] MONITORING WELLS
El Segundo Generating Station
El Segundo, California
December 1997 - January 1998

Well No.	Well Depth (feet)	Top-of-Casing Elevation (feet, msl)	Date Measured	Time Measured	Depth to Water (feet)	Groundwater Elevation (feet, msl)
EOW-30	29.11	19.35	12/17/97	15:15	12.00	7.35
			12/15/97	9:44	12.00	7.35
EOW-31	29.85	19.61	12/17/97	8:40	11.95	7.66
			12/15/97	9:13	11.98	7.63
EOW-34	30.55	19.74	12/15/97	14:23	12.42	7.32
			12/15/97	9:50	12.52	7.22
EOW-35	32.90	19.45	12/15/97	15:48	12.53	6.92
			12/15/97	9:40	12.60	6.85
ES-1	24.00	20.72	12/15/97	12:02	15.60	5.12
ES-6	25.00	23.62	12/15/97	12:08	19.33	4.29
Gage Aquifer:						
MW-2D	72.00	23.69	01/23/98	8:48	18.00	5.69
			01/21/98	8:12	17.43	6.26
			01/19/98	12:48	17.47	6.22
			01/15/98	8:00	16.80	6.89
MW-3D	75.00	21.37	01/23/98	9:13	14.31	7.06
			01/21/98	12:00	14.10	7.27
			01/19/98	12:45	13.88	7.49
			01/15/98	11:05	12.35	9.02
EOW-24	70.00	26.14	01/23/98	9:04	19.36	6.78
			01/19/98	12:55	19.60	6.54
			12/19/97	13:15	18.50	7.64
			12/15/97	10:55	18.24	7.90
Silverado Aquifer:						
EOW-25	89.40	25.39	01/23/98	9:06	15.86	9.53
			12/19/97	15:30	16.13	9.26
			12/15/97	10:58	15.46	9.93

Notes:

msl: Above mean sea level datum

[1] Wells specified in Woodward-Clyde Work Plan for sampling

TAB a

SOIL ANALYTICAL RESULTS FOR SOIL BORINGS - TPH CARBON CHAIN DISTRIBUTION
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997-January 1998
(concentrations in mg/kg)

Sample ID	Site Area	Date Sampled	Depth (ft)	C10-C11 (mg/kg)	C12-C13 (mg/kg)	C14-C15 (mg/kg)	C16-C17 (mg/kg)	C18-C19 (mg/kg)	C20-C23 (mg/kg)	C24-C27 (mg/kg)	C28-C31 (mg/kg)	C32-C35 (mg/kg)	C36-C39 (mg/kg)	C40-C43 (mg/kg)	C44+ (mg/kg)	Hydrocarbon Matrix (mg/kg)
GP-1-08-4	7d,11	12/18/97	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-1-10-4	7d,11	12/18/97	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-2-05-4	8	12/19/97	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-2-09-4	8	12/19/97	9	**3600**	**2600**	**1000**	**430 J**	**120 J**	<100	<100	<100	<100	<100	<100	<100	**7700 J**
GP-2-14-4[1]	8	12/19/97	14	**2000[1]**	**1300[1]**	**620[1]**	**310[1]**	<50	<50	<50	<50	<50	<50	<50	<50	**4200 J**
GP-2-19-4[1]	8	12/19/97	19	**100[1]**	**18**	**2.0 J**	<1	<1	<1	**2.4 J**	**7**	**11**	<1	<1	<1	**143**
GP-3-05-4	11	12/19/97	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-3-09-4	11	12/19/97	9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-4-07-4	7c	12/23/97	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-4-11-4	7c	12/23/97	11	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-4-18-4[1]	7c	12/23/97	18	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-4-20-4[1]	7c	12/23/97	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-5-05-4	8,11	12/19/97	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-5-09-4	8,11	12/19/97	9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
GP-5-19-4[1]	8,11	12/19/97	19	**36**	**37**	**25**	**17**	**13**	<1	<1	<1	<1	<1	<1	<1	**128**
HA -1@3' & HA-2@3'	5	12/23/97	3	<1	<1	<1	<1	<1	**21**	<1	<1	<1	<1	<1	<1	**21 J**
HA -1@5' & HA-2@5'	5	12/23/97	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
HA -3@3.5' & HA-4@3'	5	12/23/97	3	<1	<1	**16**	**86**	**110**	**100**	**12**	<1	<1	<1	<1	<1	**320**
HA -4@5' & HA-3@5'	5	12/23/97	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
HA-5@1&HA-6@1'	5	1/13/98	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
HA-5@5&HA-6@5'	5	1/13/98	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-2D-05-4	9	1/6/98	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-2D-10-4	9	1/6/98	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-2D-15-4[1]	9	1/6/98	15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-2D-20-4[1]	9	1/6/98	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-2D-56-4[1]	9	1/6/98	56	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-3D-5-4	12, 15	1/12/98	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-3D-10-4	12, 15	1/12/98	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-3D-15-4[1]	12, 15	1/12/98	15	**100[1]**	**6100[1]**	**4700[1]**	**2100[1]**	**840[1]**	<100	<100	<100	<100	<100	<100	<100	**14000**
MW-3D-20-4[1]	12, 15	1/12/98	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-3S-05-3	12, 15	12/18/97	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-3S-10-3	12, 15	12/18/97	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-3S-15-3[1]	12, 15	12/18/97	15	**2600[1]**	**2100[1]**	**1000[1]**	**510[1]**	<50	<50	<50	<50	<50	<50	<50	<50	**6200**
MW-3S-20-3[1]	12, 15	12/18/97	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-4S-05-3	16	12/22/97	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-4S-09-3	16	12/22/97	9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-4S-14-3[1]	16	12/22/97	14	**2000[1]**	**1500[1]**	**690[1]**	**300[1]**	**150 J[1]**	<50	<50	<50	<50	<50	<50	<50	**4600 J**
MW-4S-19-3[1]	16	12/22/97	19	**20**	**11**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**21 J**
Soil screening levels for non-beneficial use[2]				1000	1000	10000	10000	10000	10000	50000	50000	50000	50000	50000	NA	
Soil screening levels for beneficial use[2]				100	100	100	100	100	100	1000	1000	1000	1000	1000	NA	

Notes:

[1] Saturated soil sample may reflect groundwater contamination. Regulatory screening levels for saturated soil samples are not available. A regulatory agency would need to make the determination of the appropriate screening level.

[2] Soil screening levels developed by Los Angeles Regional Water Quality Control Board, Interim Site Assessment and Cleanup Guidebook, 1996.

Samples analyzed for TPH Carbon Chain distribution by ASTM D2887. Laboratory method detection limits were reported unless sample dilution was necessary, which raised the reporting limits.

mg/kg- milligrams per kilogram

TPH - total petroleum hydrocarbons

NA - not available

Numbers in bold indicate a reported concentration above the method detection limit.

Numbers in bold and shade indicate a reported concentration above the soil screening levels.

J - Detected concentration is between the laboratory method detection limit and the practical quantitation limit.

TABLE 5-2b
SOIL ANALYTICAL RESULTS FOR BORINGS - VOCs
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997 - January 1998
(concentrations in mg/kg)

Sample ID	Site Area	Sample Depth (ft)	Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	Methylene chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	m- and p-Xylene isomers	o-Xylene	p-Isopropyl toluene	sec-Butylbenzene
GP-1-08-3	7d, 11	8	12/18/97	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02
GP-1-10-3	7d, 11	10	12/18/97	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02
GP-2-05-3	8	5	12/19/97	<0.3	<0.4	<0.3	<0.4	<0.4	<0.5	<0.4	<0.4	<0.3	<0.5	<0.4	<0.4	<0.4
GP-2-09-3	8	9	12/19/97	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
GP-2-14-3[1]	8	14	12/19/97	**5.9**	**6.0**	<0.4	**7.8[1]**	**7.0**	<0.6	**3.4**	**3.3**	**5.4**	**5.6[1]**	**0.74**	**3.1**	**1.3**
GP-2-19-3[1]	8	19	12/19/97	<0.3	**0.5**	<0.3	**0.52**	**1.8**	<0.5	**1.0**	**2.2**	**1.1**	<0.5	<0.4	**1.5**	**0.64**
GP-3-05-3	11	5	12/19/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
GP-3-09-3	11	9	12/19/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
GP-4-07-3	7c	7	12/23/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
GP-4-11-3	7c	11	12/23/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
GP-4-18-3[1]	7c	18	12/23/97	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02
GP-4-20-3[1]	7c	20	12/23/97	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02
GP-5-05-3	8, 11	5	12/19/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
GP-5-09-3	8, 11	9	12/19/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
GP-5-19-3[1]	8, 11	19	12/19/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	**0.034J**	<0.005	<0.004	<0.004	<0.004
MW-2D-05-4	9	5	1/6/98	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-2D-10-4	9	10	1/6/98	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-2D-15-4[1]	9	15	1/6/98	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-2D-20-4[1]	9	20	1/6/98	**0.012**	<0.004	<0.003	**0.012**	<0.004	<0.005	<0.004	<0.004	**0.0077**	**0.038**	<0.004	<0.004	<0.004
MW-2D-56-4[1]	9	56	1/6/98	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-3D-05-4	12,15	5	1/12/98	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-3D-10-4	12,15	10	1/12/98	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-3D-15-4[1]	12,15	15	1/12/98	<2	**5.2**	<2	<2	**46**	<3	**17**	**14**	**16**	<3	<2	**2.6 J**	**7**
MW-3D-20-4[1]	12,15	20	1/12/98	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-3S-05-3	12, 15	5	12/18/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-3S-10-3	12, 15	10	12/18/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-3S-15-3[1]	12, 15	15	12/18/97	**2.9**	<0.8	<0.6	<0.8	**22**	<1	**6.1**	**6.3**	**8.6**	<1	<0.8	<0.8	<0.8
MW-3S-20-3[1]	12, 15	20	12/18/97	<0.003	<0.004	<0.003	<0.004	<0.004	**0.0063**	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-4S-05-3	16	5	12/22/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-4S-09-3	16	9	12/22/97	<0.003	<0.004	<0.003	<0.004	<0.004	<0.005	<0.004	<0.004	<0.003	<0.005	<0.004	<0.004	<0.004
MW-4S-14-3[1]	16	14	12/22/97	**4.1**	**26**	**3.2[1]**	**20[1]**	**49**	<3	**17**	**28**	**34**	**9.2[1]**	<2	**5.4**	<2
MW-4S-19-3[1]	16	19	12/22/97	<0.02	<0.02	<0.02	<0.02	**0.13**	<0.03	<0.02	**0.037**	**0.048**	<0.03	<0.02	<0.02	<0.02
EPA Region IX residential PRG				NA	NA	0.63	230	NA	7.8	NA	NA	240	320	320	NA	NA
EPA Region IX industrial PRG				NA	NA	1.4	230	NA	18	NA	NA	240	320	320	NA	NA
LARWQCB soil screening level beneficial use				NA	NA	0.011	0.7	NA	NA	NA	NA	NA	1.75	1.75	NA	NA
LARWQCB soil screening level non-beneficial use				NA	NA	0.1	70	NA	NA	NA	NA	NA	175	175	NA	NA

Note:

[1] Saturated soil sample may reflect groundwater contamination. LARWQCB regulatory screening levels for saturated soil samples are not available. EPA Region IX PRGs may be used in saturated soil samples depending on the sample depth.

[2] Samples analyzed for VOCs by EPA Method 8260A. Laboratory method detection limits were reported unless sample dilution was necessary.

VOCs - Volatile Organic Compounds

mg/kg - milligrams per kilogram

PRG - Preliminary Remediation Goals, EPA Region IX, August 1996.

LARWQCB - Los Angeles Regional Water Quality Control Board

LARWQCB soil screening levels developed by Los Angeles Regional Water Quality Control Board, Interim Site Assessment and Cleanup Guidebook, 1996

Numbers in bold indicate a reported concentration above the method detection limit.

Numbers in bold and shade indicate a reported concentration above the soil screening levels.

NA - not available

TABLE 5-2C
SOIL ANALYTICAL RESULTS - SVOCs
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997-January 1998
(concentrations in mg/kg)

Sample ID	Site Area	Sample Depth (ft)	Date Sampled	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methyl-4,6-dinitrophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	4-Bromophenylphenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenylphenylether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene
GP-1-08-3	7d, 11	8	12/18/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-1-10-3	7d, 11	10	12/18/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-2-05-3	8	5	12/19/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-2-09-3	8	9	12/19/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-2-14-3[1]	8	14	12/19/97	<0.5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<2	<0.5	<0.5	<0.5	<0.5	<1	13	<1	,0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5
GP-2-19-3[1]	8	19	12/19/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	0.84	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-3-05-3	11	5	12/18/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-3-09-3	11	9	12/19/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-4-07-3	7c	7	12/23/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-4-11-3	7c	11	12/23/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-4-18-3[1]	7c	18	12/23/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-4-20-3[1]	7c	20	12/23/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-5-05-3	8, 11	5	12/19/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-5-09-3	8, 11	9	12/19/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
GP-5-19-3[1]	8, 11	19	12/19/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
HA-1@3' & HA-2@3'	5	3	12/23/97	<3	<5	<3	<5	<3	<5	<3	<3	<5	<8	<3	<3	<3	<3	<5	<5	<5	<3	<3	<3	<3	<3	<3	<3	<5	<3	<3	<3	<3	<3
HA-1@5' & HA-2@5'	5	5	12/23/97	<0.5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<2	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5
HA-3@3.5' & HA-4@3'	5	3	12/23/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
HA-4@5' & HA-3@5'	5	5	12/23/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
HA-5@1&HA-6@1	5	1	1/13/98	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
HA-5@5&HA-6@5	5	5	1/13/98	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-2D-5-4	9	5	1/6/98	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-2D-10-4	9	10	1/6/98	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-2D-15-4[1]	9	15	1/6/98	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	0.41	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
-2D-20-4[1]	9	20	1/6/98	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
D-56-4[1]	9	56	1/6/98	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
3D-5-4	12, 15	5	1/12/98	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-3D-10-4	12, 15	10	1/12/98	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-3D-15-4[1]	12, 15	15	1/12/98	<3	<5	<3	<5	<3	<5	<3	<3	<5	<8	<3	<3	<3	<3	<5	<5	<5	<3	<3	<3	<3	<3	<3	<3	<5	<3	<3	<3	<3	<3
MW-3D-20-4[1]	12, 15	20	1/12/98	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-3S-5-3	12, 15	5	12/18/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-3S-10-3	12, 15	10	12/18/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-3S-15-3[1]	12, 15	15	12/18/97	<1	<2	<1	<2	<1	<2	<1	<1	<2	<3	<1	<1	<1	<1	<2	11	<2	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1
MW-3S-20-3[1]	12, 15	20	12/18/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-4S-5-3	16	5	12/22/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-4S-9-3	16	9	12/22/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
MW-4S-14-3[1]	16	14	12/22/97	<5	<10	<5	<10	<5	<10	<5	<5	<10	<20	<5	<5	<5	<5	<10	35	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5
MW-4S-19-3[1]	16	19	12/22/97	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1	<0.2	0.48	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
EPA Region IX residential PRG				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA Region IX industrial PRG				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample ID	Aniline	Anthracene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl Alcohol	Benzoic acid	Butylbenzylphthalate	Chrysene	Di-n-octylphthalate	Dibenzo(a,h)anthracene	Dibenzofuran	Dibutylphthalate	Diethylphthalate	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobenzene
GP-1-08-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-1-10-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-2-05-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-2-09-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-2-14-3[1]	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<4	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.51	<0.5
GP-2-19-3[1]	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-3-05-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-3-09-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-4-07-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-4-11-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-4-18-3[1]	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-4-20-3[1]	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-5-05-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-5-09-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
GP-5-19-3[1]	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
HA-1@3' & HA-2@3'	<3	<3	<50	<3	<3	<3	<3	<3	<5	<20	<3	<3	<5	<3	<3	<3	<3	<3	<3	4.6 J	<3
HA-1@5' & HA-2@5'	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<4	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HA-3@3.5' & HA-4@3'	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
HA-4@5' & HA-3@5'	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
HA-5@1&HA-6@1	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
HA-5@5&HA-6@5	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-2D-5-4	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-2D-10-4	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-2D-15-4[1]	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
-2D-20-4[1]	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
D-56-4[1]	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3D-5-4	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-3D-10-4	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-3D-15-4[1]	<3	<3	<50	<3	<3	<3	<3	<3	<5	<20	<3	<3	<5	<3	<3	<3	<3	<3	<3	4.6 J	<3
MW-3D-20-4[1]	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-3S-5-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-3S-10-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-3S-15-3[1]	<1	<1	<20	<1	<1	<1	<1	<1	<2	<7	<1	<1	<2	<1	<1	<1	<1	<1	<1	1.0J	<1
MW-3S-20-3[1]	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-4S-5-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-4S-9-3	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-4S-14-3[1]	<5	<5	<100	<5	<5	<5	<5	<5	<10	<40	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
MW-4S-19-3[1]	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.7	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPA Region IX residential PRG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90	NA
EPA Region IX industrial PRG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90	NA

Sample ID	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene	Isophorone	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	N-Nitrosodi-n-propylamine	Nitrobenzene	Naphthalene	Phenanthrene	Phenol	Pentachlorophenol	Pyrene	Pyridine	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether	Bis(2-ethylhexyl)phthalate
GP-1-08-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	4.0
GP-1-10-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	1.2 J
GP-2-05-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
GP-2-09-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
GP-2-14-3[1]	<0.5	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.5	<0.5	7.9	0.67 J	<0.5	<1	<0.5	<2	<1	<1	<0.5	<0.5
GP-2-19-3[1]	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	0.88	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
GP-3-05-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
GP-3-09-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	0.11 J
GP-4-07-3	<0.1	<0.4	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
GP-4-11-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.48	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	0.12J
GP-4-18-3[1]	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	0.17J
GP-4-20-3[1]	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
GP-5-05-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.83	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	0.52
GP-5-09-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
GP-5-19-3[1]	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	0.12 J
HA-1@3' & HA-2@3'	<3	<3	<5	<3	<3	<5	<3	<3	<3	45	3.3 J	<3	<5	<3	<8	<5	<5	<3	<3
HA-1@5' & HA-2@5'	<0.5	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<2	<1	<1	<0.5	<0.5
HA-3@3.5' & HA-4@3'	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
HA-4@5' & HA-3@5'	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
HA-5@1&HA-6@1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
HA-5@5&HA-6@5	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-2D-5-4	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-2D-10-4	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-2D-15-4[1]	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	0.11 J	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
-2D-20-4[1]	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
D-56-4[1]	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
3D-5-4	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-3D-10-4	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-3D-15-4[1]	<3	<3	<5	<3	<3	<5	<3	<3	<3	45	3.3 J	<3	<5	<3	<8	<5	<5	<3	<3
MW-3D-20-4[1]	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-3S-5-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-3S-10-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-3S-15-3[1]	<1	<1	<2	<1	<1	<2	<1	<1	<1	12	1.3J	<1	<2	<1	<3	<2	<2	<1	<1
MW-3S-20-3[1]	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-4S-5-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-4S-9-3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
MW-4S-14-3[1]	<5	<5	<10	<5	<5	<10	<5	<5	<5	28	<5	<5	<10	<5	<20	<10	<10	<5	<5
MW-4S-19-3[1]	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	0.43	<0.1	<0.1	<0.2	<0.1	<0.3	<0.2	<0.2	<0.1	<0.1
EPA Region IX residential PRG	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	NA	39000	NA	NA	NA	NA	NA	NA	32
EPA Region IX industrial PRG	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	NA	1E+05	NA	NA	NA	NA	NA	NA	140

Notes
[1] Saturated soil sample may reflect groundwater contamination. EPA Region IX PRGs may be used in saturated soil sample depending on the sample depth.
SVOCs - semivolatile organics
Samples analyzed for SVOCs by EPA Method 8270. Laboratory method detection limits were reported unless sample dilution was necessary, which raised the reporting limits.
mg/kg - milligrams per kilogram
PRG - Preliminary Remediation Goals, EPA Region IX, August 1996.
Numbers in bold indicate a reported concentration above the method detection limit.
Numbers in bold and shade indicate a reported concentration above the PRGs.
NA - not available
J - Detected concentration is between the laboratory method detection limit and the practical quantitation limit.

TABLE 5-2d
SOIL ANALYTICAL RESULTS - METALS
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997 - January 1998
(concentrations in mg/kg)

Sample ID	Site Area	Date Sampled	Depth (ft)	Arsenic	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
GP-1-08-4	7d, 11	12/18/97	8	1.3	<6	9.2 J	<0.02	<0.2	4.7 J	1.9 J	0.57 J	3.7	<0.04	<2	3.8 J	<0.2	<1	<2	6.5 J	7.2 J
GP-1-10-4	7d, 11	12/18/97	10	0.51	<6	5.2 J	<0.02	<0.2	5.3 J	1.42 J	1.0 J	3.3 J	0.15	<2	3.4 J	<0.2	<1	<2	5.2 J	7.7J
GP-2-05-4	8	12/19/97	5	1.0	<6	15 J	0.14 J	<0.2	9.5 J	2.6 J	<0.5	<3	<0.04	<2	6.1 J	<0.2	<1	3.2 J	12 J	9.7 J
GP-2-09-4	8	12/19/97	9	0.98	<6	13 J	0.08 J	0.31 J	7.2 J	1.9 J	<0.5	5.5 J	<0.04	<2	5.5 J	<0.2	<1	<2	10 J	11 J
GP-2-14-4[1]	8	12/19/97	14	1.5	<6	13 J	0.15 J	0.36 J	10 J	2.0 J	1.2 J	3.9 J	<0.04	<2	13 J	<0.2	<1	2.0 J	22	27
GP-2-19-4[1]	8	12/19/97	19	0.23 J	<6	14 J	0.07 J	0.34 J	5.6 J	2.4 J	<0.5	<3	<0.04	<2	3.8 J	<0.2	<1	<2	11 J	8.0 J
GP-3-05-4	11	12/19/97	5	0.96	<6	11 J	0.09 J	0.25 J	5.8 J	2.2 J	0.8 J	<3	<0.04	<2	3.3 J	<0.2	<1	<2	9.4 J	8.3 J
GP-3-09-4	11	12/19/97	9	0.64	<6	17 J	0.09 J	<0.2	3.7 J	2.1 J	<0.5	<3	<0.04	<2	2.6 J	<0.2	<1	<2	8.8 J	9.4 J
GP-4-07-4	7c	12/23/97	7	3.4	<6	23	0.16 J	<0.2	9.5 J	3.0 J	<0.5	<3	<0.04	<2	6.4 J	<0.2	<1	<2	13 J	11 J
GP-4-11-4	7c	12/23/97	11	0.55	<6	5.4 J	0.03 J	0.24 J	5.6 J	1.6 J	2.8 J	<3	<0.04	<2	4.0 J	<0.2	<1	<2	4.5 J	6.7 J
GP-4-18-4[1]	7c	12/23/97	18	0.71	<6	7.1 J	0.04 J	0.61 J[1]	5.9 J	1.3 J	6.8 J	<3	<0.04	<2	5.8 J	<0.2	<1	<2	4.1 J	9.0 J
GP-4-20-4[1]	7c	12/23/97	20	0.88	<6	6.5 J	0.04 J	<0.2	11 J	1.0 J	4.5 J	5.6 J	<0.04	<2	5.2 J	<0.2	<1	<2	6.3 J	8.3 J
GP-5-05-4	8, 11	12/19/97	5	1.2	<6	6.8 J	0.18 J	<0.2	16 J	3.8 J	<0.5	14 J	<0.04	<2	14 J	<0.2	<1	<2	35	17 J
GP-5-09-4	8, 11	12/19/97	9	0.65	<6	6.2 J	0.05 J	<0.2	19 J	1.5 J	2.1 J	<3	<0.04	2.9 J	26	<0.2	<1	2.4 J	7.2 J	6.1 J
GP-5-19-4[1]	8, 11	12/19/97	19	1.9	<6	7.6 J	0.08 J	0.21 J	7.6 J	1.4 J	1.6 J	<3	<0.04	<2	34	<0.2	<1	<2	15 J	7.8 J
HA-1@3'&HA-2@3'	5	12/26/97	3	1.6	<6	33	0.25 J	1.00 J	24	6.1 J	42	48	<0.04	<2	58	<0.2	3.6 J	2.8 J	73	170
HA-1@5'&HA-2@5'	5	12/26/97	5	0.90	<6	22	0.12 J	0.52 J	12 J	3.2 J	5.1 J	8.7 J	<0.04	<2	14 J	<0.2	<1	3.1 J	22	39
HA-3@3.5'&HA-4@3'	5	12/26/97	3	1.2	<6	39	0.23 J	1.0 J	18 J	6.0 J	26	30	0.049 J	<2	73	<0.2	<1	<2	53	270
HA-3@5'&HA-4@5'	5	12/26/97	5	0.82	<6	17 J	0.12 J	0.75 J	7.5 J	2.9 J	<0.5	3.7 J	<0.04	<2	15 J	<0.2	<1	<2	19 J	16 J
HA-5-1 & HA-6-1	5	1/13/98	1	<0.2	<6	28	0.15J	<0.2	11 J	2.5 J	<0.5	<3	0.050 J	<2	8.2 J	<0.2	<1	<2	16 J	18 J
HA-5-5 & HA-6-5	5	1/13/98	5	<0.2	<6	19 J	0.15 J	<0.2	8.1 J	2.4 J	<0.5	<3	<0.04	<2	6.8 J	<0.02	<1	<2	12 J	11 J
MW-2D-05-4	9	1/6/98	5	0.94	<6	7.0 J	0.18 J	<0.2	13 J	3.2 J	<0.5	5.3 J	<0.04	<2	12 J	0.45 J	<1	<2	35	10 J
MW-2D-10-4	9	1/6/98	10	2.1	<6	10 J	0.13 J	<0.2	6.5 J	2.4 J	0.75 J	6.2 J	<0.04	<2	4.8 J	0.31 J	<1	<2	12 J	7.7 J
MW-2D-15-4[1]	9	1/6/98	15	1.0	<6	6.8 J	0.068 J	<0.2	5.7 J	1.1 J	4.2 J	3.8 J	<0.04	<2	17 J	0.35 J[1]	<1	<2	5.5 J	7.8 J
MW-2D-20-4[1]	9	1/6/98	20	0.78	<6	4.9 J	0.06 J	0.40 J[1]	5.0 J	1.1 J	1.1 J	55[1]	<0.04	<2	3.7 J	0.33[1]	<1	<2	5.4 J	8.1 J
MW-2D-56-4[1]	9	1/6/98	56	0.65	<6	14 J	0.06 J	<0.2	3.9 J	1.1 J	<0.5	<3	<0.04	<2	2.4	<0.2	<1	<2	4.7 J	6.5 J
MW-3S-05-3	12, 15	12/18/97	5	6.6	<6	18J	0.11J	<0.2	9.8J	2.7J	5.6J	7.4J	0.050J	<2	5.2J	<0.2	<1	5.4J	8.2J	9.1J
MW-3S-10-3	12, 15	12/18/97	10	0.71	<6	4.3J	0.02J	<0.2	6.9J	1.7J	1.1J	5.6J	<0.04	<2	5.3J	<0.2	<1	4.4J	6.9J	8.5J
MW-3S-15-3[1]	12, 15	12/18/97	15	1.6	<6	3.9J	0.02J	<0.2	6.1J	1.3J	5.6J	6.5J	<0.04	<2	2.6J	<0.2	<1	<2	5.5J	9.4J
MW-3S-20-3[1]	12, 15	12/18/97	20	1.0	<6	7.7J	0.03J	<0.2	5.3J	1.4J	1.3J	4.1J	<0.04	<2	2.9J	<0.2	<1	2.4J	5.3J	9.0J
MW-3D-05-4	12, 15	1/12/98	5	<0.2	<6	11 J	0.14 J	<0.2	6.7 J	1.8 J	3.5 J	5.2 J	<0.04	<2	4.3 J	<0.2	<1	<2	8.2 J	17 J
MW-3D-10-4	12, 15	1/12/98	10	<0.2	<6	4.5 J	0.07 J	<0.2	5.4 J	1.0J	3.0 J	16 J	<0.04	<2	4.4 J	<0.2	<1	<2	4.9 J	13 J
MW-3D-15-4[1]	12, 15	1/12/98	15	<0.2	<6	5.2 J	0.04 J	<0.2	4.2 J	0.7 J	3.5 J	9.4 J	<0.04	<2	3.8 J	<0.2	<1	<2	4.4 J	11 J
MW-3D-20-4[1]	12, 15	1/12/98	20	<0.2	<6	11 J	0.09 J	<0.2	4.4 J	1.0 J	1.1 J	<3	<0.04	<2	4.2 J	<0.2	<1	<2	5.5 J	12 J
MW-4S-05-3	16	12/22/97	5	0.61	<6	10J	0.09	<0.2	7.4J	1.9J	<0.5	5.0J	<0.04	<2	2.8J	<0.2	<1	<2	5.4J	6.2J
MW-4S-09-3	16	12/22/97	9	0.51	<6	9.5J	0.04J	<0.2	6.9J	1.7J	<0.5	<3	<0.04	<2	4.6J	<0.2	<1	<2	5.1J	7.7J
MW-4S-14-3[1]	16	12/22/97	14	1.2	<6	8.2J	0.03J	<0.2	4.5J	1.4J	<0.5	<3	<0.04	<2	2.9J	<0.2	<1	<2	4.1J	4.9J
MW-4S-19-3[1]	16	12/22/97	19	0.69	<6	10J	<0.02	<0.2	4.6J	1.4J	<0.5	<3	<0.04	<2	4.7J	<0.2	<1	3.3J	4.2J	6.0J
Range of benchmark soils[2]				0.6-11	0.15 - 1.95	133-1400	0.25-2.7	0.05-1.7	23-1,579	2.7-46.9	9.1-96.4	12.4-97.1	0.1-0.9	0.1-9.6	9-509	0.015-0.4	0.1-8.3	5.3-36.2	39-288	88-236
Average of benchmark soils[3]				3.5	0.60	509	1.28	0.36	122	14.9	28.7	23.9	0.26	1.3	57	0.058	0.8	15.7	112	149

Notes:
[1] Saturated soil sample may reflect groundwater contamination.
[2] Background concentration of metals in California soils (Kearney, 1996), range is the minimum to maximum.
[3] Average metal concentration in California soils (Kearney, 1996).
mg/kg - milligrams per kilogram
Samples analyzed for CCR Title 22 in accordance with EPA Methods 6010 with the exception of arsenic (EPA Method 7060), lead (EPA Method 7421), mercury (EPA Method 7470) and selenium (EPA Method 7740).
Numbers in bold indicate a reported concentration above the method detection limit.
Numbers in bold and shade indicate a reported concentration above the average benchmark soil concentration.
J - Detected concentration is between the laboratory method detection limit and the practical quantitation limit.

TABLE 5-2e
SOIL ANALYTICAL RESULTS FOR BORINGS - PCBs
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997 - January 1998
(concentrations in mg/kg)

Sample ID	Site Area	Sample Depth (ft)	DATE	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
HA-1@3'&HA-2@3'	5	12/23/97	3	<0.6	<0.6	<0.4	<0.6	<0.4	<0.4	<0.2
HA-1@5'&HA-2@5'	5	12/23/97	5	<0.3	<0.3	<0.2	<0.3	<0.2	<0.2	<0.07
HA-3@3.5'&HA-4@3'	5	12/23/97	3	<0.03	<0.03	<0.02	<0.03	<0.02	<0.02	<0.007
HA-3@5'&HA-4@5'	5	12/23/97	5	<0.03	<0.03	<0.02	<0.03	<0.02	<0.02	<0.007
HA-5-1 & HA-6-1	5	1/13/98	1	<0.03	<0.03	<0.02	<0.03	<0.02	<0.02	<0.007
HA-5-5 & HA-6-5	5	1/13/98	5	<0.03	<0.03	<0.02	<0.03	<0.02	<0.02	<0.007
EPA Region IX residential PRG				4.9	NA	NA	NA	NA	1.4	NA
EPA Region IX industrial PRG				65	NA	NA	NA	NA	19	NA

Note:
Samples analyzed for PCBs by EPA Method 8080. Laboratory method detection limits were reported unless sample dilution was necessary.
PCBs- Polychlorinated biphenyls
mg/kg - milligrams per kilogram
PRG - Preliminary Remediation Goals, EPA Region IX, August 1996.
Numbers in bold indicate a reported concentration above the method detection limit.
Numbers in bold and shade indicate a reported concentration above the soil screening levels.
NA - not available
For total PCBs the EPA Region IX PRG is 0.066 mg/kg for residential and 0.34 mg/kg for industrial exposures.

TABLE 5-3a
GROUNDWATER ANALYTICAL RESULTS FOR MONITORING WELLS -- TPH CARBON CHAIN DISTRIBUTION
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997 - January 1998
(concentrations in mg/L)

Sample ID	Site Area	Date Sampled	C10-C11 (mg/L)	C12-C13 (mg/L)	C14-C15 (mg/L)	C16-C17 (mg/L)	C18-C19 (mg/L)	C20-C23 (mg/L)	C24-C27 (mg/L)	C28-C31 (mg/L)	C32-C35 (mg/L)	C36-C39 (mg\L)	C40-C43 (mg/L)	C44+ (mg/L)	Total Hydrocarbon Matrix
EOW-04 (ES-7)	7b, 9	12/19/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-07	10	12/17/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-11	3	12/18/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-12	3, 4a, 4b	12/18/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-13	3, 4a, 4b	12/19/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
DUP-1 (EOW-13 duplicate)	3, 4a, 4b	12/19/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-14 (ES-4)	9	12/19/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-15	heliopad	12/17/97	<0.2	**2.4**	**5.6**	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-17	upgradient	12/17/97	<0.2	**1.1**	**2.7**	**1.6**	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	**8.0 J**
EOW-18	4c, 16	12/14/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	**5.4 J**
EOW-19	12, 15	12/14/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-22		12/14/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-23	Upgradient	12/17/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-24	Gage	12/19/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
DUP-2 (EOW-24 duplicate)	Gage	12/19/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-25	Silverado	12/19/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-28	8, 11	12/17/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-29	10	12/14/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-30	11	12/17/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-31	Upgradient	12/17/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-34	7c	12/15/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EOW-35	11	12/15/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
MW-2D	9	1/21/98	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
MW-3S	12, 15	1/5/98	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
MW-3D	12, 15	1/21/98	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
MW-4S	16	1/5/98	**2.3**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EB-1		12/19/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EB-2		12/19/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EB-3		12/19/97	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EB-1/5/98		1/5/98	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3
EB-1-21-98		1/21/98	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	<3

Notes:

TPH - total petroleum hydrocarbons

Samples analyzed for TPH Carbon Chain distribution by ASTM D2887. Laboratory method detection limits were reported unless sample dilution was necessary, which raised the reporting limits.

mg/L - milligrams per liter

Numbers in bold indicate a reported concentration above the method detection limit.

EB- Equipment blank

J - Detected concentration is between the laboratory method detection limit and the practical quantitation limit.

TABLE 5-3b
GROUNDWATER ANALYTICAL RESULTS FOR MONITORING WELLS - VOCs
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997 - January 1998
(concentration in µg/L)

Sample ID	Site Area	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Acetone	Benzene	Chloroethane	Chloroform	Ethylbenzene	Isopropylbenzene	Methyl-tert-butylether	N-Butylbenzene	N-Propylbenzene	Naphthalene	Trichloroethene	Toluene	Tetrachloroethene	cis-1,2-Dichloroethene	m- and p-Xylene isomers	o-Xylene	p-Isopropyl toluene	sec-Butylbenzene	tert-Butylbenzene
EOW-04/ES-7	7b, 9	12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	170	<0.3	11	<5	29	<0.5	<0.3	340	44	<5	5.1	27	40	<0.5	3.3 J	<0.5	<0.3	68	2.6 J	2.4 J	4.2 J	<0.5
EOW-07	10	12/17/97	5.9 J	<1	<2	<2	<2	12 J	<2	<2	<30	42	<3	3.0 J	7.1 J	570	<10	<3	45	4.5 J	24 J	7.6 J	27 J	0.3 J	8.8 J	2.3 J	<3	5.2 J	<3
EOW-11	3	12/18/97	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.38 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
EOW-12	3, 4a, 4b	12/18/97	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.30 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
EOW-13	3, 4a, 4b	12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	0.38 J	<0.3	<0.5	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	<0.3	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
DUP-1 (EOW-13 duplicate)	3, 4a, 4b	12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	0.41 J	<0.3	<0.4	<5	<0.2	<0.5	<0.3	0.39 J	<0.5	<2	<0.6	<0.4	1.3 J	<0.5	0.34 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
EOW-14/ES-4	9	12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	52	2.6 J	8.3	<5	50	<0.5	2.7 J	140	71	6.7	<0.6	29	80	<0.5	5.2	<0.5	<0.3	6.4 J	1.6 J	<0.5	<0.5	<0.5
EOW-15	helipad	12/17/97	4.9 J	<2	<4	<4	<4	490	58	110	<15	1300	<5	10 J	320	590	100	<6	200	190	26 J	28 J	22 J	3.2 J	80 J	18 J	<5	17 J	<5
EOW-17	upgradient	12/17/97	<0.3	<0.2	<0.4	<0.4	<0.4	55	<0.3	6.6	<5	1000	<0.5	<0.3	140	180	<2	6.9	79	96	<0.5	54	<0.5	<0.3	62	4.5 J	14	7.8	<0.5
EOW-18	4c, 16	12/14/97	<0.3	<0.2	<0.4	<0.4	<0.4	6.3	<0.3	3.3 J	<5	21	<0.5	<0.3	5.9	27	<2	<0.6	11	9.2	<0.5	2.5 J	<0.5	<0.3	2.2 J	0.76 J	<0.5	1.9 J	<0.5
EOW-19	12, 15	12/14/97	98 J	50 J	<8	<8	<8	33 J	<6	32 J	<100	190	<10	<6	28 J	210	<40	<20	62 J	63 J	<10	<6	<10	<6	36 J	<6	<10	21	<10
EOW-22		12/14/97	<0.3	<0.2	<0.4	<0.4	<0.4	14	<0.3	1.2 J	<5	230	<0.5	<0.3	7.8	170	<2	4.6 J	29	12	<0.5	19	<0.5	<0.3	15	6.5	<0.5	3.9 J	<0.5
EOW-23	Upgradient	12/17/97	<0.3	<0.2	1.1 J	<0.4	<0.4	37	2.1 J	0.78 J	<5	7.6	<0.5	<0.3	3.1 J	38	<2	11	34	14	18	2.5 J	17	<0.3	6.0 J	0.91 J	10	7.9	<0.5
EOW-24	Gage	12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	4.3 J	<0.4	7.7	<0.2	<0.5	<0.3	<0.3	0.73 J	<2	<0.6	<0.4	0.57 J	<0.5	0.49 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
DUP-2 (EOW-24 duplicate)	Gage	12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	4.1 J	<0.4	8.0	0.22 J	<0.5	<0.3	<0.3	0.78 J	<2	<0.6	<0.4	0.75 J	<0.5	0.34 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
EOW-25	Silverado	12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.57 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
EOW-28	8, 11	12/17/97	<3	<2	<4	<4	<4	18 J	<3	<4	<50	540	<5	<3	10 J	250	<20	9.9 J	64	170	<5	23 J	<5	<3	16 J	5.6 J	<5	8.0 J	<5
EOW-29	10	12/14/97	<0.3	<0.2	<0.4	<0.4	<0.4	4.8 J	<0.3	<0.4	<5	15	<0.5	<0.3	1.5 J	230	<2	11	67	1.8 J	<0.5	1.4 J	<0.5	<0.3	1.1 J	<0.3	<0.5	12	2.3 J
EOW-30[1]	11	12/17/97	0.76 J	<0.2	<0.4	<0.4	<0.4	160	1.3 J	<0.4	<5	1.4 J	<0.5	2.2 J	18	33	<2	12	36	29	7.9	1.5 J	5.3	<0.3	6.4 J	2.2 J	11	8.0	1.1 J
EOW-31	Upgradient	12/17/97	<0.3	<0.2	<0.4	<0.4	<0.4	45	5.7	1.5 J	<5	130	<0.5	3.6 J	100	160	<2	<0.6	62	30	<0.5	11	<0.5	<0.3	19	3.1 J	9.5	8.8	1.2 J
EOW-34	7c	12/15/97	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.5	<0.5	<5	13	1.4 J	<0.3	1.7 J	38	<2	<0.6	13	<0.4	<0.5	1.8 J	<0.5	<0.5	2.3 J	0.73 J	<0.5	<0.5	<0.5
EOW-35	11	12/15/97	<3	<2	<4	<4	<4	93	<3	10 J	<50	24 J	<5	<3	82	27 J	<20	<6	18 J	23 J	<5	3.1 J	<5	<3	42 J	<3	<5	50	<5
MW-2D	9	1/21/98	<0.3	<0.2	<0.4	<0.5	<0.5	<0.3	4.2 J	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.47 J	<0.5	<0.3	0.81 J	<0.3	<0.5	<0.5	<0.5
MW-3S[2]	12, 15	1/5/98	<0.3	<0.2	<0.4	2.3 J	<0.4	26	<0.3	<0.4	32	1.8 J	<0.5	<0.3	4.8 J	230	7.1	14	49	140	<0.5	1.4 J	<0.5	<0.3	0.90 J	0.80 J	<0.5	10	2.3 J
MW-3D	12, 15	1/21/98	<0.3	<0.2	<0.4	<0.5	<0.5	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.49 J	<0.5	<0.5	<0.6	<0.3	<0.5	<0.5	<0.5
MW-4S	16	1/5/98	39 J	<2	<4	<4	<4	99	34 J	120	3	870	<5	6.7 J	400	400	87	30 J	120	250	<5	39 J	6.8 J	<3	260	13 J	28 J	18 J	<5
EB-1		12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.35 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
EB-2		12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.31 J	<0.5	<0.5	<0.6	<0.3	<0.5	<0.5	<0.5
EB-3		12/19/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
EB-1/5/98		1/5/98	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.35 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
EB		1/21/98	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.56 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
Trip Blank		12/15/97	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.43 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
TRIP BLANK		12/16/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5
TRIP BLANK		12/16/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5
TRIP BLANK		12/17/97	0.54 J	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	5.1	0.43 J	3.6 J	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
TRIP BLANK		12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	<0.3	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
TRIP BLANK		1/5/98	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	1.8 J	<0.5	<0.3	1.1 J	1.3 J	<2	<0.6	<0.4	3.3 J	<0.5	<0.3	<0.5	<0.3	0.92 J	<0.3	<0.5	<0.5	<0.5
TRIP BLANK		1/21/98	<0.3	<0.2	<0.4	<0.4	<0.4	<0.3	<0.3	<0.4	<5	<0.2	<0.5	<0.3	<0.3	<0.5	<2	<0.6	<0.4	<0.4	<0.5	0.64 J	<0.5	<0.3	<0.6	<0.3	<0.5	<0.5	<0.5
State MCLs			200	5	6	NA	70	NA	0.5	NA	NA	1	NA	100	700	NA	35[3]	45	NA	NA	5	150	5	6	1750	1750	NA	NA	NA
Federal MCLs			200	NA	7	NA	70	NA	5	NA	NA	5	NA	100	700	NA	30-40[4]	NA	NA	20	5	1000	5	70	10000	10000	NA	NA	NA

Notes:
VOCs - Volatile Organic Compounds
Samples analyzed for VOCs by EPA method 8260A. Laboratory method detection limits were reported unless sample dilution was necessary, which raised the reporting limits.
µg/L - micrograms per liter
[1] 2-Hexanone detected at 290 µg/L in EOW-30
[2] Methylene chloride detected at 2.0 µg/L in MW-3S
[3] State interim action level for toxicity
[4] Federal health advisory level
MCLs - Maximum contaminant levels
NA - not available
Numbers in bold indicate a reported concentration above the method detection limit.
Numbers in bold and shade indicate a reported concentration above the MCLs.
J - Detected concentration in between the laboratory method detection limit and the practical quantitation limit.

TABLE 5-3c
GROUNDWATER ANALYTICAL RESULTS FOR MONITORING WELLS - SVOCs
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997-January 1998
(concentrations in µg/L)

Sample ID	Site Area	Date Sampled	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol
EOW-04 (ES-7)	7b, 9	12/19/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
EOW-07	10	12/17/97	<6	<8	<6	<8	<6	<8	<6	<6	<8	<20
EOW-11	3	12/18/97	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40
EOW-12	3, 4a, 4b	12/18/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
EOW-13	3, 4a, 4b	12/19/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
DUP-1 (EOW-13)	3, 4a, 4b	12/19/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
EOW-14 (ES-4)	9	12/19/97	<30	<40	<30	<40	<30	<40	<30	<30	<40	<70
EOW-15	heliopad	12/17/97	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40
EOW-17	upgradient	12/17/97	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40
EOW-18	4c, 16	12/14/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
EOW-19	12, 15	12/14/97	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40
EOW-22		12/14/97	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40
EOW-23	Upgradient	12/17/97	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40
EOW-24	Gage	12/19/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
DUP-2 (EOW-24)	Gage	12/19/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
EOW-25	Silverado	12/19/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
EOW-28	8, 11	12/17/97	<30	<40	<30	<40	<30	<40	<30	<30	<40	<70
EOW-29	10	12/14/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
EOW-30	11	12/17/97	<30	<40	<30	<40	<30	<40	<30	<30	<40	<70
EOW-31	Upgradient	12/17/97	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40
EOW-34	7c	12/15/97	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40
EOW-35	11	12/15/97	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40
MW-2D	9	1/21/98	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
MW-3S	12, 15	1/5/98	<6	<8	<6	<8	<6	<8	<6	<6	<8	<20
[illegible]-3D	12, 15	1/21/98	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
[illegible]S	16	1/5/98	<6	<8	<6	<8	<6	<8	<6	<6	<8	<20
[illegible]		12/19/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
[illegible]		12/19/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
[illegible]		12/19/97	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
EB-1/5/98		1/5/98	<3	<4	<3	<4	<3	<4	<3	<3	<4	<7
EB-1/21/98		1/21/98	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
State MCLs			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Federal MCLs			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample ID	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methyl-4,6-dinitrophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	4-Bromophenylphenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenylphenylether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzidine
EOW-04 (ES-7)	<3	<3	<3	<3	<5	7.0 J	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
EOW-07	<6	<6	<6	<6	<10	10J	<8	<6	<6	<6	<6	<6	<6	<6	<6	<20	<6	<4	<4	<6	<6	<4	<200
EOW-11	<20	<20	<20	<20	<30	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<30	<20	<10	<10	<20	<20	<10	<300
EOW-12	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
EOW-13	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
DUP-1 (EOW-13)	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
EOW-14 (ES-4)	<30	<30	<30	<30	<50	500	<40	<30	<30	<30	<30	<30	<30	<30	<30	<60	<30	<20	<20	<30	<30	<20	<600
EOW-15	<20	<20	<20	<20	<30	290	<20	<20	<20	<20	<20	<20	<20	<20	<20	<30	<20	<10	13J	<20	<20	<10	<300
EOW-17	<20	<20	<20	<20	<30	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<30	<20	<10	<10	<20	<20	<10	<300
EOW-18	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
EOW-19	<20	<20	<20	<20	<30	69	<20	<20	<20	<20	<20	<20	<20	<20	<20	<30	<20	<10	<10	<20	<20	<10	<300
EOW-22	<20	<20	<20	<20	<30	78	<20	<20	<20	<20	<20	<20	<20	<20	<20	<30	<20	<10	<10	<20	<20	<10	<300
EOW-23	<20	<20	<20	<20	<30	23 J	<20	<20	<20	<20	<20	<20	<20	<20	<20	<30	<20	<10	<10	<20	<20	<10	<300
EOW-24	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
DUP-2 (EOW-24)	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	3.0 J	<3	<2	<60
EOW-25	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
EOW-28	<30	<30	<30	<30	<50	68 J	<40	<30	<30	<30	<30	<30	<30	<30	<30	<60	<30	<20	<20	<30	<30	<20	<600
EOW-29	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
EOW-30	<30	<30	<30	<30	<50	<40	<40	<30	<30	<30	<30	<30	<30	<30	<30	<60	<30	<20	<20	<30	<30	<20	<600
EOW-31	<20	<20	<20	<20	<30	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<30	<20	<10	<10	<20	<20	<10	<300
EOW-34	<20	<20	<20	<20	<30	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<30	<20	<10	<10	<20	<20	<10	<300
EOW-35	<20	<20	<20	<20	<30	43J	<20	<20	<20	<20	<20	<20	<20	<20	<20	<30	<20	<10	<10	<20	<20	<10	<300
MW-2D	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<5	<100
MW-3S	<6	<6	<6	<6	<10	48	<8	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<4	<4	7.0J	<6	<4	<200
[illegible]-3D	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<5	<100
[illegible]S	<6	<6	<6	<6	<10	69	<8	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<4	<4	<6	<6	<4	<200
[illegible]	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
[illegible]	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
[illegible]	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
EB-1/5/98	<3	<3	<3	<3	<5	<4	<4	<3	<3	<3	<3	<3	<3	<3	<3	<6	<3	<2	<2	<3	<3	<2	<60
EB-1/21/98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<5	<100
State MCLs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Federal MCLs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample ID	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl Alcohol	Benzoic acid	Butylbenzylphthalate	Chrysene	Di-n-octylphthalate	Dibenzo(a,h)anthracene	Dibenzofuran	Dibutylphthalate	Diethylphthalate	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene
EOW-04 (ES-7)	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	13	<7	<2	<2	<3	<3	<3	<2
EOW-07	<4	<6	<6	<4	<6	<20	<40	<6	<4	<8	<6	<6	<20	<20	<4	<4	<6	<6	<4	<4
EOW-11	<10	<20	<20	<10	<20	<30	<100	<20	<10	<20	<20	<20	<30	<40	<10	<10	<20	<20	<20	<8
EOW-12	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	12	<7	<2	<2	<3	<3	<3	<2
EOW-13	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	<6	<7	<2	<2	<3	<3	<3	<2
DUP-1 (EOW-13)	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	13	<7	<2	<2	<3	<3	<3	<2
EOW-14 (ES-4)	<20	<30	<30	<20	<30	<60	<200	<30	<20	<40	<30	<30	<60	<70	<20	<20	<30	<30	<30	<20
EOW-15	<10	<20	<20	<10	<20	<30	<100	<20	<10	<20	<20	<20	<30	<40	<10	<10	<20	<20	<20	<10
EOW-17	<10	<20	<20	<10	<20	<30	<100	<20	<10	<20	<20	<20	<30	<40	<10	<10	<20	<20	<20	<10
EOW-18	<2	<3	<3	<2	<3	<6	<20	<3	<2	6.3J	<3	<3	<6	24	<2	<2	<3	<3	<3	<2
EOW-19	<10	<20	<20	<10	<20	<30	<100	<20	<10	<20	<20	<20	<30	<40	<10	<10	<20	<20	<20	<10
EOW-22	<10	<20	<20	<10	<20	<30	<100	<20	<10	<20	<20	<20	<30	<40	<10	<10	<20	<20	<20	<10
EOW-23	<10	<20	<20	<10	<20	<30	<100	<20	<10	<20	<20	<20	<30	<40	<10	<10	<20	<20	<20	<10
EOW-24	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	19	<7	<2	<2	<3	<3	<3	<2
DUP-2 (EOW-24)	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	16	<7	<2	<2	<3	<3	<3	<2
EOW-25	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	12	<7	<2	<2	<3	<3	<3	<2
EOW-28	<20	<30	<30	<20	<30	<60	<200	<30	<20	<40	<30	<30	<60	<70	<20	<20	<30	<30	<30	<20
EOW-29	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	<6	<7	<2	<2	3.0J	<3	<3	<2
EOW-30	<20	<30	<30	<20	<30	<60	<200	<30	<20	<40	<30	<30	<60	<70	<20	<20	<30	<30	<30	<20
EOW-31	<10	<20	<20	<10	<20	<30	<100	<20	<10	<20	<20	<20	<30	<40	<10	<10	<20	<20	<20	<10
EOW-34	<10	<20	<20	<10	<20	<30	<100	<20	<10	<20	<20	<20	<30	<40	<10	<10	<20	<20	<20	<10
EOW-35	<10	<20	<20	<10	<20	<30	<100	<20	<10	<20	<20	<20	<30	<40	<10	<10	<20	<20	<20	<10
MW-2D	<5	<5	<5	<5	<5	<10	<50	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<10
MW-3S	<4	<6	<6	<4	<6	<20	<40	<6	<4	<8	<6	<6	<20	<20	<4	<4	7.1J	<6	<6	<4
[illegible]-3D	<5	<5	<5	<5	<5	<10	<50	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<10
[illegible]S	<4	<6	<6	<4	<6	<20	<40	<6	<4	<8	<6	<6	<20	<20	<4	<4	<6	<6	<6	<4
[illegible]	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	11	<7	<2	<2	<3	<3	<3	<2
[illegible]	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	12	<7	<2	<2	<3	<3	<3	<2
[illegible]	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	8.3 J	<7	<2	<2	<3	<3	<3	<2
EB-1/5/98	<2	<3	<3	<2	<3	<6	<20	<3	<2	<4	<3	<3	<6	<7	<2	<2	<3	<3	<3	<2
EB-1/21/98	<5	<5	<5	<5	<5	<10	<50	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<10
State MCLs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Federal MCLs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample ID	Hexachloroethane	Indeno(1,2,3-c,d)pyrene	Isophorone	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	N-Nitrosodi-n-propylamine	Nitrobenzene	Naphthalene	Phenanthrene	Phenol	Pentachlorophenol	Pyrene	Pyridine	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether	Bis(2-ethylhexyl)phthalate
EOW-04 (ES-7)	<4	<2	<3	<4	<3	<3	<3	32	<2	<2	<4	<3	<9	<4	<4	<3	18
EOW-07	<8	<4	<6	<8	<6	<6	<6	<6	<4	<4	<8	<6	<20	<8	<8	<6	4.8J
EOW-11	<20	<10	<20	<20	<20	<20	<20	<20	<10	<10	<20	<20	<50	<20	<20	<20	<10
EOW-12	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	4.3J
EOW-13	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	27 J
DUP-1 (EOW-13)	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	3.1 J
EOW-14 (ES-4)	<40	<20	<30	<40	<30	<30	<30	520	<20	<20	<40	<30	<90	<40	<40	<30	<20
EOW-15	<20	<10	<20	<20	<20	<20	<20	250	19J	10J	<20	<20	<50	<20	<20	<20	11J
EOW-17	<20	<10	<20	<20	<20	<20	<20	120	<10	<10	<20	<20	<50	<20	<20	<20	<10
EOW-18	<4	<2	<3	<4	<3	<3	<3	10	<2	<2	<4	<3	<9	<4	<4	<3	43
EOW-19	<20	<10	<20	<20	<20	<20	<20	290	<10	<10	<20	<20	<50	<20	<20	<20	16J
EOW-22	<20	<10	<20	<20	<20	<20	<20	69	<10	<10	<20	<20	<50	<20	<20	<20	12J
EOW-23	<20	<10	<20	<20	<20	<20	<20	22 J	11 J	<10	<20	<20	<50	<20	<20	<20	<10
EOW-24	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	6.1J
DUP-2 (EOW-24)	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	4.2 J
EOW-25	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	2.9 J
EOW-28	<40	<20	<30	<40	<30	<30	<30	140	<20	<20	<40	<30	<90	<40	<40	<30	<20
EOW-29	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	4.3J
EOW-30	<40	<20	<30	<40	<30	<30	<30	34 J	<20	<20	<40	<30	<90	<40	<40	<30	<20
EOW-31	<20	<10	<20	<20	<20	<20	<20	42 J	<10	<10	<20	<20	<50	<20	<20	<20	22 J
EOW-34	<20	<10	<20	<20	<20	<20	<20	<20	<10	<10	<20	<20	<50	<20	<20	<20	<10
EOW-35	<20	<10	<20	<20	<20	<20	<20	110	<10	<10	<20	<20	<50	<20	<20	<20	13J
MW-2D	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<10
MW-3S	<8	<4	<6	<8	<6	<6	<6	150	<4	<4	<8	<6	<20	<8	<8	<6	4.5J
[illegible]-3D	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<10
[illegible]S	<8	<4	<6	<8	<6	<6	<6	220	<4	<4	<8	<6	<20	<8	<8	<6	16J
[illegible]	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	2.8 J
[illegible]	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	3.0 J
[illegible]	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	3.3 J
EB-1/5/98	<4	<2	<3	<4	<3	<3	<3	<3	<2	<2	<4	<3	<9	<4	<4	<3	<2
EB-1/21/98	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<5	<10
State MCLs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Federal MCLs	NA	NA	NA	NA	NA	NA	NA	20[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
SVOCs- semivolatile organic compounds
Samples analyzed for SVOCs by EPA Method 8270A. Laboratory method detection limits were reported unless sample dilution was necessary, which raised the reporting limits.
µg/L - micrograms per liter
MCLs - Maximum contaminant levels
NA - not available
Numbers in bold indicate a reported concentration above the method detection limit.
Numbers in bold and shade indicate a reported concentration above the MCLs.
1 Federal Health Advisory for toxicity
J - Detected concentration is between the laboratory method detection limit and the practical quantitation limit.

TABL: -3d

GROUNDWATER ANALYTICAL RESULTS FOR MONITORING WELLS - METALS

EL SEGUNDO GENERATING STATION

El Segundo, California

December 1997 - January 1998

(concentrations in mg/L)

Sample Id	Site Area	Date Sampled	Arsenic	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
EOW-4/ES-7	7b, 9	12/19/97	<0.002	<0.06	0.13 J	<0.0002	0.0026 J	<0.005	0.005 J	0.009 J	<0.002	<0.0001	<0.02	0.040 J	<0.002	<0.01	<0.02	<0.005	0.011 J
EOW-07	10	12/17/97	<0.002	<0.06	0.14J	<0.0002	<0.002	<0.005	<0.005	0.016J	<0.002	0.0001J	<0.02	0.040J	<0.002	<0.01	<0.02	<0.005	0.042J
EOW-11	3	12/18/97	0.012	<0.06	0.032J	0.0003J	<0.002	<0.005	<0.005	0.007J	<0.002	<0.0001	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	0.007J
EOW-12	3, 4a, 4b	12/18/97	0.0059	<0.06	0.034J	0.0004J	<0.002	0.005J	<0.005	0.013J	<0.002	<0.0001	<0.02	<0.02	<0.002	<0.01	0.036J	<0.005	0.010J
EOW-13	3, 4a, 4b	12/19/97	0.0027 J	<0.06	0.084 J	<0.0002	0.0034 J	<0.005	<0.005	0.008 J	<0.002	<0.0001	<0.02	0.030 J	<0.002	<0.01	<0.02	<0.005	0.019 J
dup1(EOW13)	3, 4a, 4b	12/19/97	0.0035 J	<0.06	0.083 J	<0.0002	0.0033 J	<0.005	<0.005	0.010 J	<0.002	<0.0001	<0.02	0.029 J	<0.002	<0.01	<0.02	<0.005	0.010 J
EOW-14/ES-4	9	12/19/97	<0.002	<0.06	0.14 J	<0.0002	0.0022 J	<0.005	<0.005	0.013 J	0.0021 J	<0.0001	<0.02	0.043 J	<0.002	0.010	<0.02	<0.005	0.006 J
EOW-15	helipad	12/17/97	0.0053	<0.06	0.086J	<0.0002	<0.002	<0.005	<0.005	0.014J	0.010	0.0001J	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	0.017J
EOW-17	upgradient	12/17/97	0.028	<0.06	0.59	<0.0002	<0.002	<0.005	<0.005	0.018 J	<0.002	<0.0001	<0.02	0.052 J	<0.002	<0.01	<0.02	0.005 J	0.034 J
EOW-18	4c, 16	12/14/97	<0.002	<0.06	0.47	0.0006J	0.0056J	<0.005	0.007J	<0.005	<0.002	0.0001J	<0.02	0.030J	<0.002	<0.01	<0.02	<0.005	0.10J
EOW-19	12, 15	12/14/97	0.014	<0.06	0.18J	<0.0002	0.0043J	<0.005	<0.005	<0.005	<0.002	0.0001J	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	0.042J
EOW-22		12/14/97	<0.002	<0.06	0.092J	0.0002J	0.0053J	0.005J	<0.005	<0.005	<0.002	0.0001J	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	0.032J
EOW-23	Upgradient	12/17/97	<0.002	<0.06	0.21	<0.0002	<0.002	0.006 J	0.012 J	0.013 J	<0.002	0.0001J	<0.02	0.040J	<0.002	<0.01	<0.02	0.007 J	0.068 J
EOW-24	Gage	12/19/97	0.0037 J	<0.06	0.065 J	0.0017 J	0.0042 J	<0.005	<0.005	0.034 J	<0.002	<0.0001	<0.02	0.055 J	<0.01	0.031 J	<0.02	<0.005	0.16 J
dup2(EOW-24)	Gage	12/19/97	0.0022 J	<0.06	0.065 J	0.0020 J	<0.002	0.005 J	0.006 J	0.034 J	<0.002	<0.0001	<0.02	0.069 J	<0.01	0.032 J	<0.02	<0.005	0.17 J
EOW-25	Silverado	12/19/97	<0.002	<0.06	0.11 J	<0.0002	0.0039 J	0.006 J	<0.005	0.009 J	<0.002	<0.0001	<0.02	0.029 J	<0.002	<0.01	<0.02	<0.005	0.019 J
EOW-28	8, 11	12/17/97	0.0039J	<0.06	0.20	<0.0002	<0.002	<0.005	<0.005	0.015J	<0.002	<0.0001	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	0.007 J
EOW-29	10	12/14/97	0.0023J	<0.06	0.16J	0.0003J	<0.002	<0.005	<0.005	<0.005	<0.002	0.0001J	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	0.047J
EOW-30	11	12/17/97	0.0083	<0.06	0.36	<0.0002	<0.002	<0.005	<0.005	0.012J	<0.002	<0.0001	<0.02	0.033 J	<0.002	0.010J	<0.02	0.014 J	0.021 J
EOW-31	Upgradient	12/17/97	<0.002	<0.06	0.15 J	0.0003 J	<0.002	<0.005	0.007 J	0.021 J	<0.002	0.0001J	<0.02	0.17 J	<0.002	0.011 J	<0.02	<0.005	0.080 J
EOW-34	7c	12/15/97	0.015	<0.06	0.10J	<0.0002	<0.002	<0.005	<0.005	<0.005	<0.002	0.0001J	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	0.032J
EOW-35	11	12/15/97	<0.002	<0.06	0.20	0.0005J	0.0021J	<0.005	<0.005	<0.005	<0.002	<0.0001	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	0.030J
MW-2D	9	1/21/98	0.0036J	<0.06	0.10J	0.0016 J	<0.002	<0.005	0.016 J	0.027 J	0.0029 J	0.0001 J	<0.02	0.035 J	<0.002	0.020 J	<0.02	<0.005	0.048 J
MW-3S	12, 15	1/5/98	0.0037J	<0.06	0.075 J	0.0004J	<0.002	<0.005	<0.005	0.008J	0.0090	<0.0001	<0.02	<0.02	<0.002	<0.01	<0.02	0.008 J	0.025 J
MW-3D	12, 15	1/21/98	<0.002	<0.06	<0.001	<0.0002	<0.002	<0.005	<0.005	<0.005	<0.002	<0.0001	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	0.0096 J
MW-4S	16	1/5/98	0.011	<0.06	0.076J	<0.0002	<0.002	0.008J	<0.005	<0.005	0.0054	<0.0001	<0.02	<0.02	<0.002	<0.01	<0.02	0.009J	0.004J
EB-1-21-98		1/21/98	<0.002	<0.06	0.14 J	0.0011 J	<0.002	<0.005	<0.005	0.022 J	0.0027 J	<0.0001	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	<0.003
EB-1/5/98		1/5/98	<0.002	<0.06	<0.001	<0.0002	<0.002	<0.005	<0.005	<0.005	0.0020J	<0.0001	<0.02	<0.02	<0.002	<0.01	0.031J	<0.005	<0.003
EB-1		12/19/97	<0.002	<0.06	<0.001	<0.0002	<0.002	<0.005	<0.005	0.007 J	<0.002	<0.0001	<0.02	0.047 J	<0.002	<0.01	<0.02	<0.005	0.014 J
EB-2		12/19/97	<0.002	<0.06	<0.001	<0.0002	0.0033 J	<0.005	0.006 J	0.009 J	<0.002	<0.0001	<0.02	0.042 J	<0.002	<0.01	0.029J	<0.005	0.012 J
EB-3		12/19/97	<0.002	<0.06	<0.001	<0.0002	<0.002	<0.005	0.005 J	0.006 J	<0.002	<0.0001	<0.02	0.040 J	<0.002	<0.01	<0.02	<0.005	<0.003
State MCLs			0.05	NA	1	0.004	0.005	0.05	NA	NA	0.050	0.002	NA	0.10	NA	0.1[1]	NA	NA	5
Federal MCLs			0.10	NA	2	0.004	0.005	0.1	NA	1.3	0.015	0.002	NA	NA	NA	NA	NA	NA	5

Notes:

Samples analyzed for CCR Title 22 in accordance with EPA Methods 6010 with the exception of arsenic (EPA Method 7060), lead (EPA Method 7421), mercury (EPA Method 7470) and selenium (EPA Method 7740). Laboratory detection limits were reported unless sample dilution was necessary which raised the reporting limits.

mg/L - milligrams per liter

MCLs - Maximum contaminant levels

[1] Secondary state MCL

NA - not available

Numbers in bold indicate a reported concentration above the method detection limit.

Numbers in bold and shade indicate a reported concentration above the MCLs.

J - Detected concentration is between the laboratory method detection limit and the practical quantitation limit.

EB - equipment blank.

TABLE 5-4a
GROUNDWATER ANALYTICAL RESULTS FOR HYDROPUNCH SAMPLES - TPH CARBON CHAIN DISTRIBUTION
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997 - January 1998
(concentrations in mg/L)

Sample ID	Site Area	Date Sampled	C10-C11 (mg/L)	C12-C13 (mg/L)	C14-C15 (mg/L)	C16-C17 (mg/L)	C18-C19 (mg/L)	C20-C23 (mg/L)	C24-C27 (mg/L)	C28-C31 (mg/L)	C32-C35 (mg/L)	C36-C39 (mg\L)	C40-C43 (mg/L)	C44+ (mg/L)	Total Hydrocarbon Matrix
HP-1-14	7d, 11	12/18/97	1.1	3.4	3.1	2.3	1.9	1.5	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	17J
HP-2-14	8	12/19/97	400	290	150	87	57	32 J	<20	<5	<10	<10	<10	<20	1020
HP-3-14	11	12/19/97	19	18	14	12	9.2	9.6	3.7	2.2	1.5	1.1	<0.4	<0.8	90
HP-4-14	7c	12/23/97	9.5	6.5	3.6	1.6	<0.2	<0.2	<0.3	<0.1	<0.2	<0.2	<0.2	<0.4	21
HP-5-14	8, 11	12/19/97	9.8	30	20	12	8.0	6.6	1.1J	<0.2	<0.4	<0.4	<0.4	<0.8	88

Notes:
TPH - total petroleum hydrocarbons
Samples analyzed for TPH carbon chain distribution by ASTM D2887. Laboratory method detection limits were reported unless sample dilution was necessary, which raised the reporting limits.
mg/L - milligrams per liter
Numbers in bold indicate a reported concentration above the method detection limit.
J - Detected concentration is between the laboratory method detection limit and the practical quantitation limit.

TABLE 5-4b
GROUNDWATER ANALYTICAL RESULTS FOR HYDROPUNCH SAMPLES - VOCs
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997 - January 1998
(concentrations in ug/L)

Sample ID	Site Area	Date Sampled	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Chloroethane	Chloroform	Ethylbenzene	Isopropylbenzene	Methyl-tert-butylether	N-Butylbenzene	N-Propylbenzene	Naphthalene	Trichloroethene	Toluene	Tetrachloroethene	cis-1,2-Dichloroethene	m- and p-Xylene isomers	o-Xylene	p-Isopropyl toluene	sec-Butylbenzene	tert-Butylbenzene
HP-1-14 [6]	7d, 11	12/18/97	<0.3	0.51J	<0.4	<0.4	<0.4	6.7	<0.3	1.0J	<0.2	<0.5	<0.3	3.2J	1.8J	<2	<0.6	1.4J	5.5	<0.4	0.56J	<0.5	<0.3	<0.8	<0.3	<0.5	<0.5	<0.5
HP-2-14	8	12/19/97	<6	<4	<8	<8	<8	330	<6	440	<4	<10	<6	81 J	<10	<40	<20	<8	<8	<10	<6	<10	<6	330	46 J	<10	<10	<10
HP-3-14 [3]	11	12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	110	<0.3	19	7.8	<0.5	6.4	37	80	<2	23	52	210	<0.5	1.1 J	<0.5	<0.3	9.0 J	3.0 J	6.6	11	<0.5
HP-4-14 [5]	7c	12/19/97	<200	<100	<200	<200	<200	690J	<200	920J	<100	<300	<200	460J	8500J	<1000	4200	9200	8100	<300	<200	<300	<200	<400	<200	<300	1500J	<300
HP-5-14 [4]	8, 11	12/19/97	<0.3	<0.2	<0.4	<0.4	<0.4	8.1	<0.3	<0.4	85	<0.5	<0.3	20	3.2J	<2	<0.6	3.6J	60	<0.5	0.89J	<0.5	<0.3	<0.8	0.32J	<0.5	<0.5	<0.5
State MCLs			200	5	6	NA	70	NA	0.5	NA	1	NA	100	700	NA	35[1]	45	NA	NA	5	150	5	6	1750	NA	NA	NA	NA
Federal MCLs			200	NA	7	NA	70	NA	5	NA	5	NA	100	700	NA	30-40[2]	NA	NA	20[2]	5	1000	5	70	10000	NA	NA	NA	NA

Notes:

[1] State interim action level for toxicity

[2] Federal health advisory

[3] carbon disulfide was detected in HP-3-14 at 1.1 ug/L in HP-3-14

[4] acetone was detected at 8.7 ug/L in HP-5-14

[5] methylene chloride was detected at 1,300 ug/L in HP-4-14

[6] acetone was detected at 6.9 ug/L in HP-1-14

VOCs - Volatile organic compounds

Samples analyzed for VOCs by EPA Method 8260A. Laboratory method detection limits were reported unless sample dilution was necessary, which raised the reporting limits.

ug/L - micrograms per liter

MCLs - Maximum contaminant levels

NA - not available

Numbers in bold indicate a reported concentration above the method detection limit.

Numbers in bold and shade indicate a reported concentration above the MCLs.

J - Detected concentrations is between the laboratory method detection limit and the practical quantification limit.

TAELE 5-4c
GROUNDWATER ANALYTICAL RESULTS FOR HYDROPUNCH SAMPLES - SVOCs
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997 - January 1998
(concentations In ug/L)

Sample ID	Site Area	Date Sampled	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methyl-4,6-dinitrophenol
HP-1-14	7d, 11	12/18/97	<30	<40	<30	<40	<30	<40	<30	<30	<40	<70	<30	<30	<30	<30	<50
HP-2-14	8	12/19/97	<30	<40	<30	<40	<30	<40	<30	<30	<40	<70	<30	<30	<30	<30	<50
HP-3-14	11	12/19/97	<30	<40	<30	<40	<30	<40	<30	<30	<40	<70	<30	<30	<30	<30	<50
HP-4-14	7c	12/23/97	<200	<200	<200	<200	<200	<200	<200	<200	<200	<300	<200	<200	<200	<200	<200
HP-5-14	8, 11	12/19/97	<30	<40	<30	<40	<30	<40	<30	<30	<40	<70	<30	<30	<30	<30	<50
State MCLs			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Federal MCLs			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample ID	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	4-Bromophenylphenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenylphenylether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzidine
HP-1-14	<40	<40	<30	<30	<30	<30	<30	<30	<30	<30	<60	<30	<20	<20	<30	<30	<20	<600
HP-2-14	500	<40	<30	<30	<30	<30	<30	<30	<30	<30	<60	<30	<20	<20	<30	<30	<20	<600
HP-3-14	250	<40	<30	<30	<30	<30	<30	<30	<30	<30	<60	<30	<20	<20	<30	<30	<20	<600
HP-4-14	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<300	<200	<80	180J	<200	<200	<200	<3000
HP-5-14	500	<60	<30	<30	<30	<30	<30	<30	<30	<30	<60	<30	<20	<20	<30	<30	<20	<600
State MCLs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Federal MCLs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample ID	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl Alcohol	Benzoic acid	Butylbenzylphthalate	Chrysene	Di-n-octylphthalate	Dibenzo(a,h)anthracene	Dibenzofuran	Dibutylphthalate	Diethylphthalate	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene
HP-1-14	<20	<30	<30	<20	<30	<60	<200	<30	<20	<40	<30	<30	<60	<70	<20	<20	<30	<30	<30
HP-2-14	<20	<30	<30	<20	<30	<60	<200	<30	<20	<40	<30	<30	<60	<70	<20	<20	<30	<30	<30
HP-3-14	<20	<30	<30	<20	<30	<60	<200	<30	<20	<40	<30	<30	<60	<70	<20	<20	<30	<30	<30
HP-4-14	<80	<200	<200	<80	<200	<300	<800	<200	<80	<200	<200	<200	<300	<300	<80	<80	<200	<200	<200
HP-5-14	<20	<30	<30	<20	<30	<60	<200	<30	<20	<40	<30	<30	<60	<70	<20	<20	<30	<30	<30
State MCLs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Federal MCLs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample ID	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene	Isophorone	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	N-Nitrosodi-n-propylamine	Nitrobenzene	Naphthalene	Phenanthrene	Phenol	Pentachlorophenol	Pyrene	Pyridine	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether	Bis(2-ethylhexyl)phthalate
HP-1-14	<20	<40	<20	<30	<40	<30	<30	<30	**44J**	<20	<20	<40	<30	<90	<40	<40	<30	<20
HP-2-14	<20	<40	<20	<30	<40	<30	<30	<30	**210**	**110**	<20	<40	<30	<90	<40	<40	<30	<20
HP-3-14	<20	<40	<20	<30	<40	<30	<30	<30	**340**	<20	<20	<40	<30	<90	<40	<40	<30	<20
HP-4-14	<80	<200	<80	<200	<200	<200	<200	<200	**3000**	**130J**	<80	<200	<200	<400	<200	<200	<200	<80
HP-5-14	<20	<40	<20	<30	<40	<30	<30	<30	**350**	<20	<20	<40	<30	<90	<40	<40	<30	<20
State MCLs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Federal MCLs	NA	NA	NA	NA	NA	NA	NA	NA	20[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
[1] Federal Health Advisory for toxicity
SVOCs - Semivolatile organic compounds
Samples analyzed for SVOCs by EPA Method 8270A. Laboratory method detection limits were reported unless sample dilution was necessary, which raised the reporting limits.
μg/L- micrograms per liter
MCLs - Maximum contaminant levels
NA - not available
Numbers in bold indicate a reported concentration above the method detection limit.
Numbers in bold and shade indicate a reported concentration above the MCLs.
J - Detected concentration is between the laboratory method detection limit and the practical quantitation limit.

TABLE 5-4d
GROUNDWATER ANALYTICAL RESULTS FOR HYDROPUNCH SAMPLES - METALS
EL SEGUNDO GENERATING STATION
El Segundo, California
December 1997 - Janaury 1998
(Concentrations in mg/L)

Sample ID	Site Area	Date Sampled	Arsenic	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
HP-1-14	7d, 11	12/18/97	**0.0039J**	<0.06	**0.034J**	**0.0002**	<0.002	<0.005	<0.005	**.016J**	**0.012**	<0.0001	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	**0.012J**
HP-2-14	8	12/19/97	**0.0290**	<0.06	**0.10J**	<0.0002	**0.0055J**	**0.009J**	**0.006J**	**0.014J**	**0.0040**	<0.0001	<0.02	**0.076J**	<0.002	<0.01	<0.02	**0.029J**	**0.060J**
HP-3-14	11	12/19/97	**0.014**	<0.06	**0.060J**	<0.0002	**0.0024J**	**0.014J**	**0.023J**	**0.040J**	<0.002	<0.0001	**0.038J**	**0.46**	<0.002	<0.01	<0.02	**0.032J**	**0.31**
HP-4-14	7c	12/23/97	**0.0200**	<0.06	**0.047J**	**0.0002J**	<0.002	<0.005	<0.005	<0.005	**0.0031**	<0.0001	<0.02	<0.02	<0.002	<0.01	<0.02	<0.005	**0.016J**
HP-5-14	8, 11	12/19/97	**0.0120**	<0.06	**0.030J**	<0.0002	**0.0044J**	**0.007J**	**0.008J**	**0.018J**	<0.002	<0.0001	**0.058J**	**0.10J**	<0.002	<0.01	<0.02	**0.005J**	**0.090J**
State MCLs			0.05	NA	1	0.004	0.005	0.05	NA	NA	0.050	0.002	NA	0.10	NA	0.1[1]	NA	NA	5
Federal MCLs			0.10	NA	2	0.004	0.005	0.1	NA	1.3	0.015	0.002	NA	NA	NA	NA	NA	NA	5

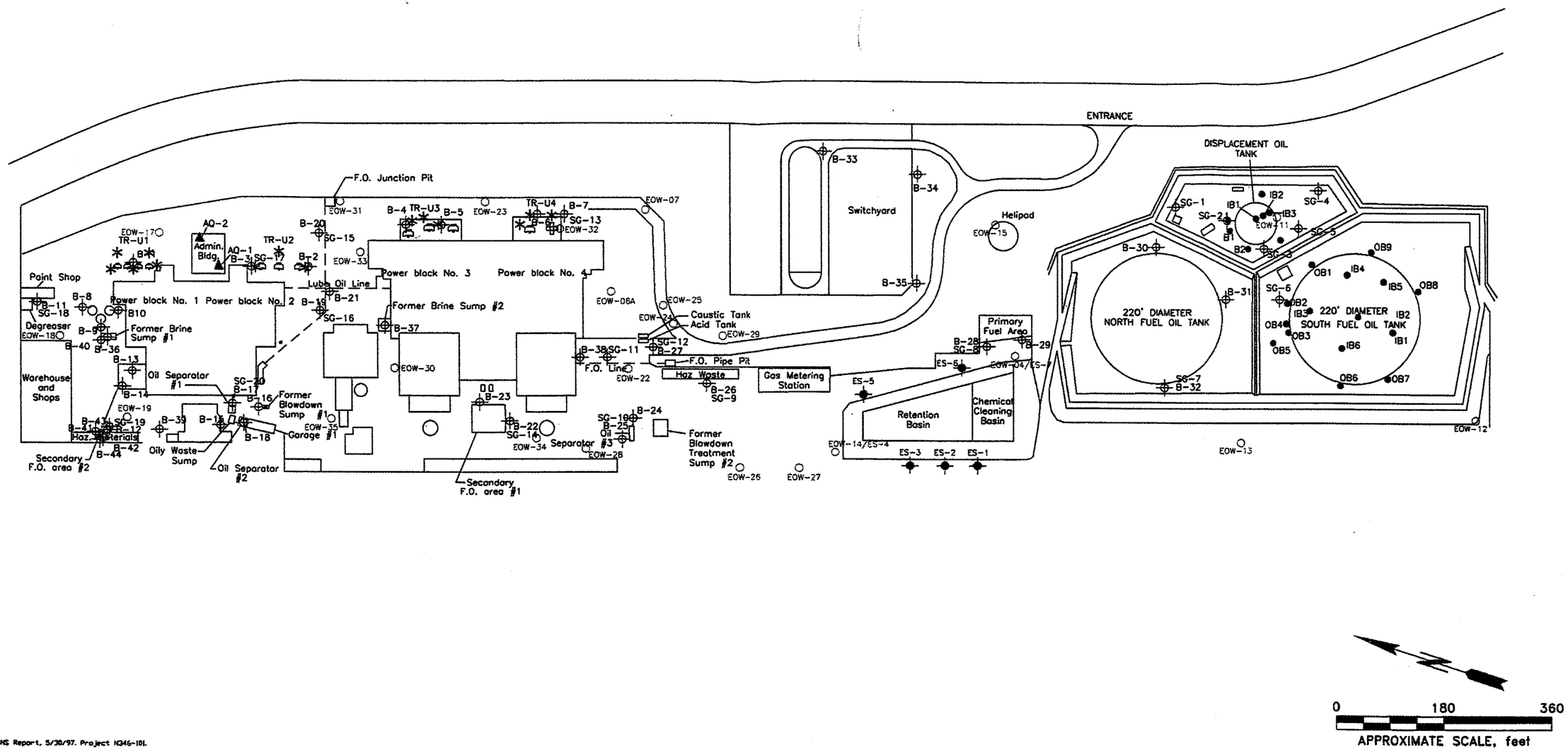
Notes:
Samples analyzed for CCR Title 22 in accordance with EPA Methods 6010 with the exception of arsenic (EPA Method 7060), lead (EPA Method 7421), mercury (EPA Method 7470) and selenium (EPA Method 7740).
mg/L - milligrams per liter
MCLs - Maximum contaminant levels
[1] Secondary state MCL
NA - not available
Numbers in bold indicate a reported concentration above the method detection limit.
Numbers in bold and shade indicate a reported concentration above the MCLs.
J - Detected concentration is between the laboratory method detection limit and the practical quantitation limit.

TABLE 5-5
HISTORIC GROUNDWATER DATA
EL SEGUNDO GENERATING STATION
El Segundo, California
October 1995 - December 1997
(concentrations in μg/L)

Monitoring Well	Chemical	Oct-95	Jun-96	Oct-96	Jun-97	Dec-97
EOW-24 Gage	Benzene	2.21	12.2	ND	0.4	ND (.22 dup)
	Ethylbenzene	ND	ND	ND	1.39	ND
	Toluene	0.475	0.728	ND	0.792	0.49
	Xylenes	0.704	2.14	2.17	7.37	ND
EOW-25 Silverado	Benzene	ND	ND	0.194	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND
	Toluene	ND	0.0627	0.0916	ND	0.57
	Xylenes	ND	ND	0.205	ND	ND
EOW-28 Old Dune	Benzene	0.478	0.748	1.03	38	540
	Ethylbenzene	ND	0.0686	0.254	ND	10
	Toluene	0.549	0.94	0.392	1.92	23
	Xylenes	0.776	5.06	10.6	8.7	21
EOW-13 Old Dune	Benzene	NS	NS	1.48	NS	ND
	Ethylbenzene	NS	NS	1.25	NS	0.39
	Toluene	NS	NS	1.21	NS	0.34
	Xylenes	NS	NS	3.45	NS	ND

Monitoring Well	Chemical	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97
EOW-04/ES-7 Old Dune	Benzene	17	61	1300	240	29
	Ethylbenzene	35	ND	110	99	340
	Toluene	ND	1.3	65	ND	3.3
	m/p-Xylenes	11	6.2	58	48	68
	o-Xylene	ND	0.86	ND	ND	2.6
EOW-14/ES-4 Old Dune	Benzene	13	ND	1200	150	50
	Ethylbenzene	11	ND	75	ND	140
	Toluene	ND	ND	64	ND	5.2
	m/p-Xylenes	6.9	11	81	ND	8.4
	o-Xylene	ND	1.1	17	ND	1.6

Notes:
1 Sampled by Chevron (Radian, 1997b)
2 Sampled by Woodward-Clyde as part of this investigation
3 Sampled by SCE (SCE, 1997b)
ND = non-detect
NS = not sampled



Source: HSI GEOTRANS Report, 5/30/97. Project N346-101.

EXPLANATION

SG-1 HSI GEOTRANS SOIL VAPOR SAMPLING LOCATION

B-23 HSI GEOTRANS SOIL SAMPLING LOCATION

IB1 PREVIOUS SOIL SAMPLING LOCATION

TR-U2 PREVIOUS COMPOSITE SOIL SAMPLE LOCATION

EOW-07 CHEVRON OBSERVATION WELL

AQ-1 HSI GEOTRANS INDOOR AIR SAMPLING LOCATION

TRANSFORMER

F.O. FUEL OIL

EOW-04/ES-7 CHEVRON OBSERVATION WELL CONVERTED TO SCE OBSERVATION WELL

Woodward-Clyde Consultants

PREVIOUS SAMPLE LOCATIONS

Proj. No.: 984W245	Date: DEC. 1997
Project: EL SEGUNDO GENERATING STATION	Drawn by: HSI
	Figure: 1-2

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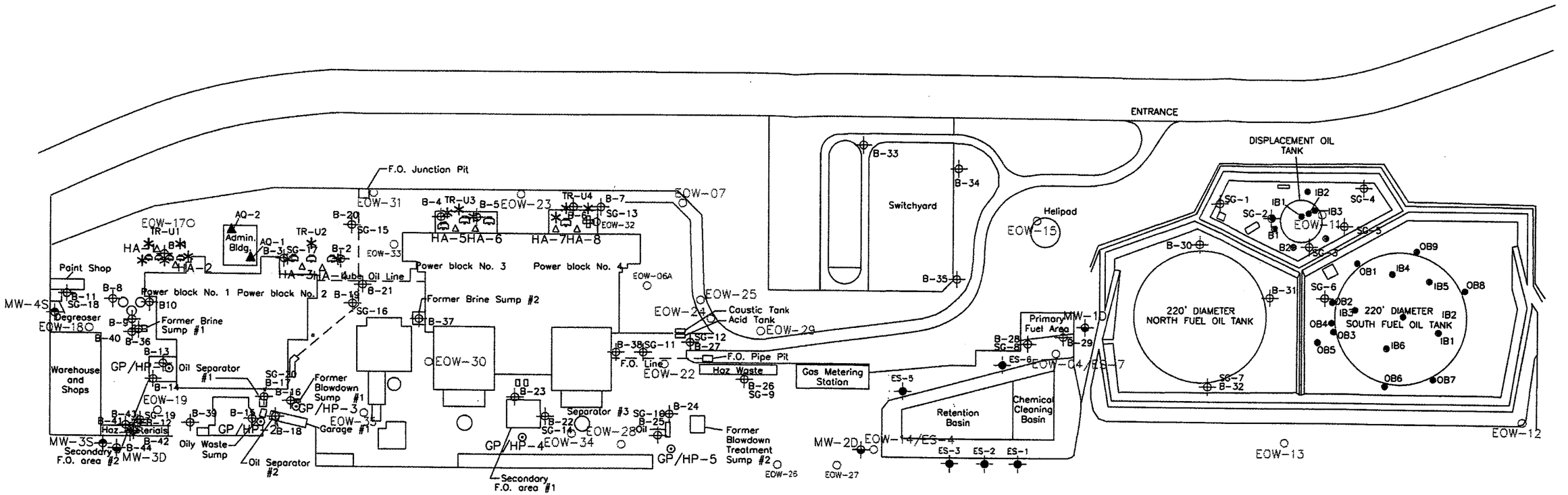

Source: HSI GEOTRANS Report, 5/30/97, Project N346-101.

NOTES:

WELL IDENTIFICATIONS IN BOLD ARE INCLUDED IN THE PROPOSED WELL SAMPLING NETWORK.

WELL MW-1D WAS NOT INSTALLED

0 180 360

APPROXIMATE SCALE, feet

EXPLANATION

- SG-1 — HSI GEOTRANS SOIL VAPOR SAMPLING LOCATION
- B-23 — HSI GEOTRANS SOIL SAMPLING LOCATION
- MW-3S — NRG/DESTEC SHALLOW WELL
- MW-3D — NRG/DESTEC DEEP WELL
- ES-1 — SCE OBSERVATION WELL
- IB1 — PREVIOUS SOIL SAMPLING LOCATION
- TR-U2 — PREVIOUS COMPOSITE SOIL SAMPLE LOCATION
- EOW-07 — CHEVRON OBSERVATION WELL
- GP/HP-1 — GEOPROBE/HYDROPUNCH LOCATION
- AQ-1 — HSI GEOTRANS INDOOR AIR SAMPLING LOCATION
- TRANSFORMER
- F.O. — FUEL OIL
- HA-1 — PROPOSED HANDAUGER LOCATIONS
- EOW-04/ES-7 — CHEVRON OBSERVATION WELL CONVERTED TO SCE OBSERVATION WELL

Woodward-Clyde Consultants

ADDITIONAL INVESTIGATION SAMPLE LOCATIONS

Proj. No.:	984W245	Date:	DEC. 1997
Project:	EL SEGUNDO GENERATING STATION	Drawn by:	HSI
		Figure:	4-1

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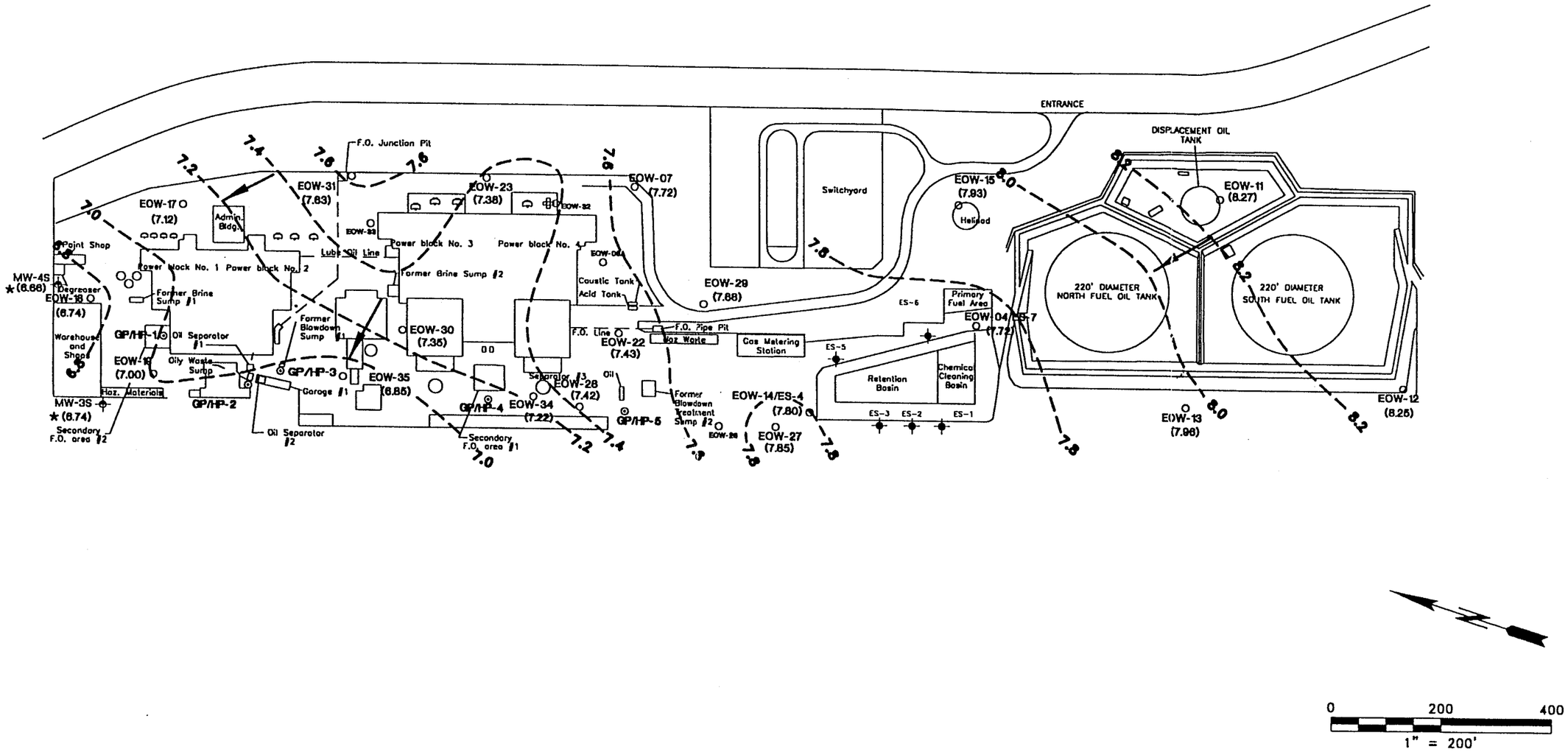

Source: HSI GEOTRANS Report, 5/30/97. Project N346-101.

EXPLANATION

(6.75) INDICATES GROUNDWATER ELEVATION IN WELL (IN FEET MSL) MEASURED ON DECEMBER 15, 1997 BY WOODWARD-CLYDE

7.4 GROUNDWATER ELEVATION CONTOUR (IN FEET MSL)

* MEASURED ON JANUARY 5, 1998. NOT USED FOR CONTOURING PURPOSES

MW-3S NRG/DESTEC WELL

ES-1 SCE OBSERVATION WELL

EOW-07 CHEVRON OBSERVATION WELL

GP/HP-1 GEOPROBE/HYDROPUNCH LOCATION

APPROXIAMTE DIRECTION OF THE GROUNDWATER GRADIENT

EOW-04/ES-7 CHEVRON OBSERVATION WELL CONVERTED TO SCE OBSERVATION WELL

Woodward-Clyde Consultants

GROUNDWATER ELEVATION CONTOUR MAP OLD DUNE SAND AQUIFER DECEMBER 1997

Proj. No.:	984W245	Date:	JAN,. 1998
Project:	EL SEGUNDO GENERATING STATION	Drawn by:	HSI
		Figure:	5-1

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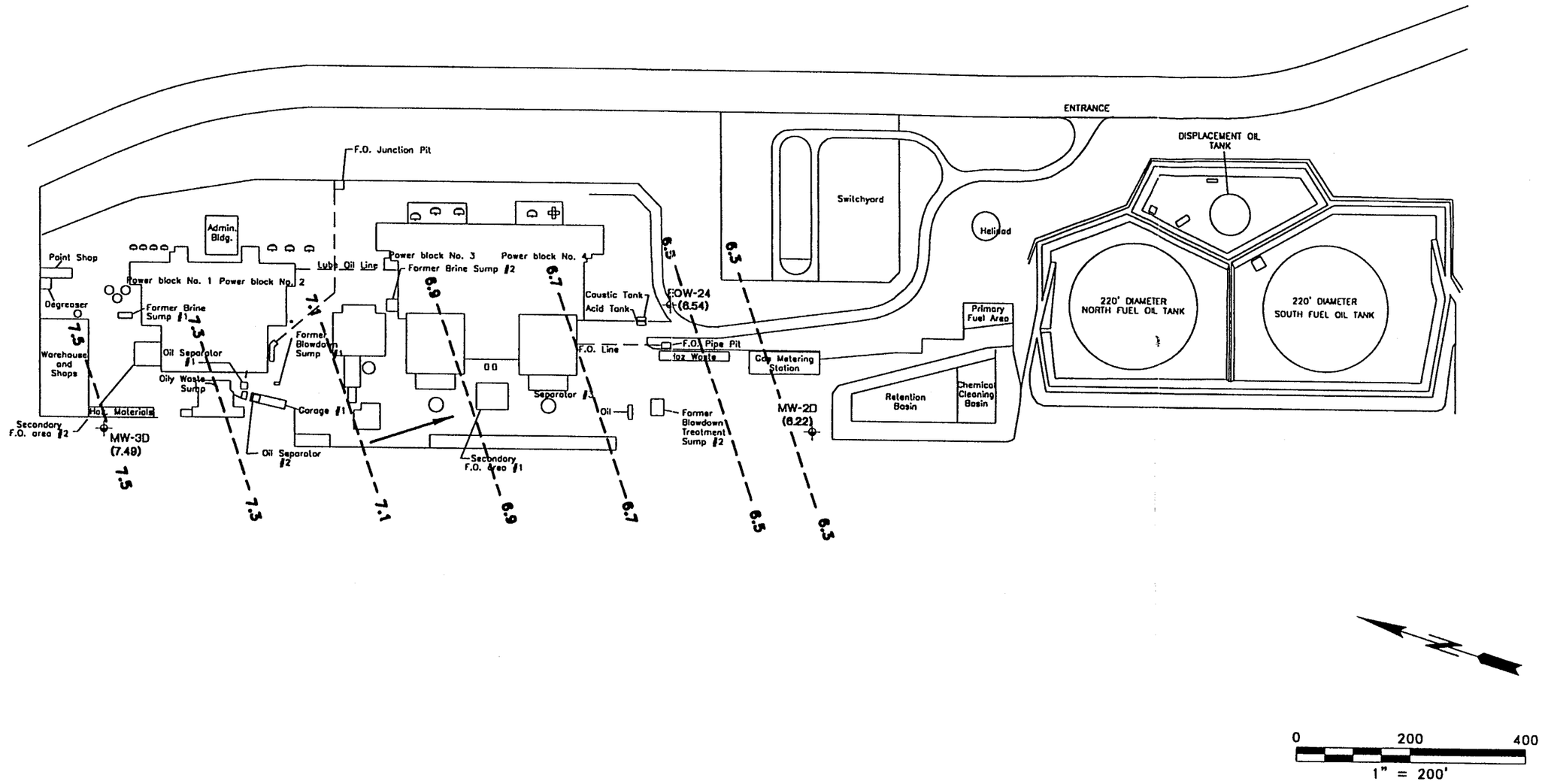

Source: HSI GEOTRANS Report, 5/30/97. Project N346-101.

EXPLANATION

(7.49) INDICATES GROUNDWATER ELEVATION IN WELL (IN FEET MSL) MEASURED ON JANUARY 19, 1998 BY WOODWARD-CLYDE

7.1 GROUNDWATER ELEVATION CONTOUR (IN FEET MSL)

MW-3D
NRG/DESTEC DEEP WELL

EOW-07
CHEVRON OBSERVATION WELL

APPROXIMATE DIRECTION OF THE GROUNDWATER GRADIENT

TRANSFORMER

F.O. FUEL OIL

Woodward-Clyde Consultants

GROUNDWATER ELEVATION CONTOUR MAP GAGE AQUIFER JANUARY 1998

Proj. No.:	984W245	Date:	JAN. 1998
Project:	EL SEGUNDO GENERATING STATION	Drawn by:	HSI
		Figure:	5-2

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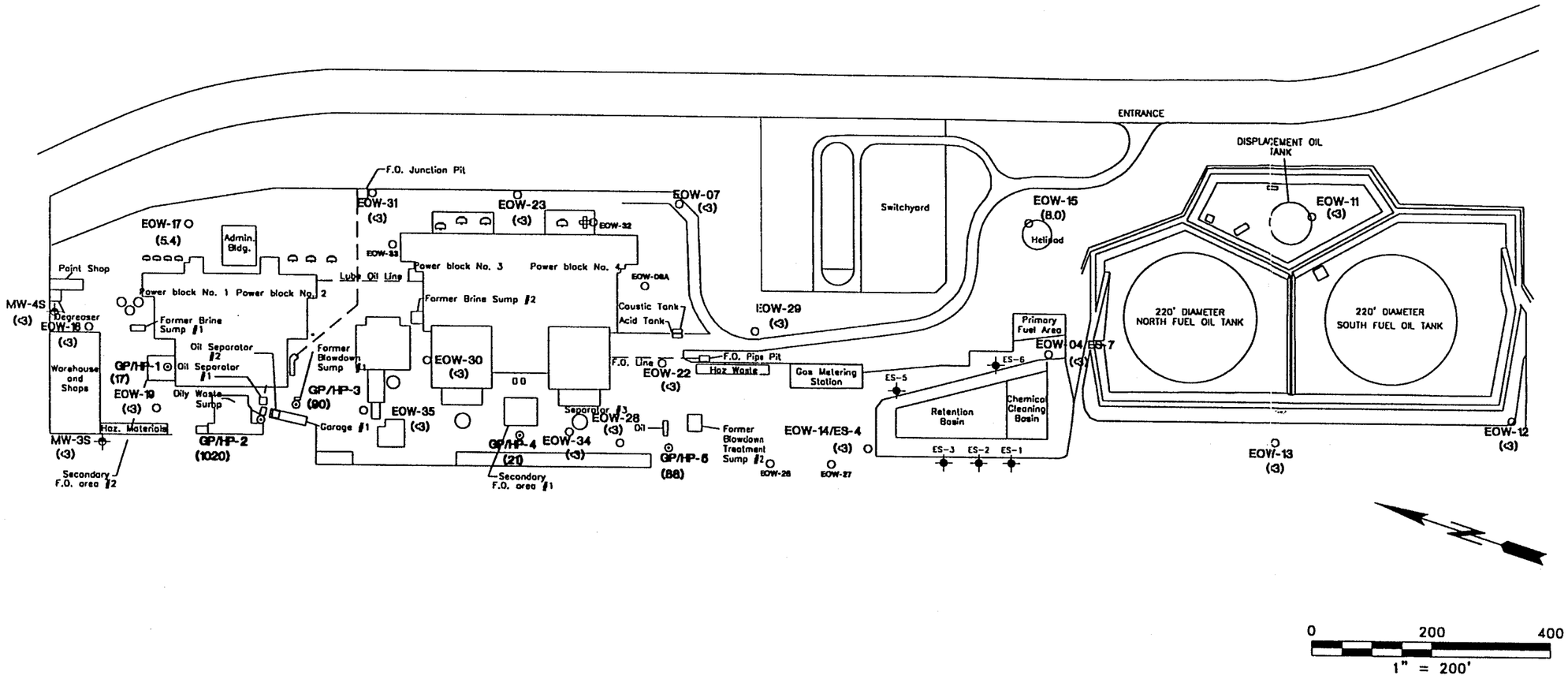

Source: HSI GEOTRANS Report, 5/30/97, Project N346-101.

EXPLANATION

(5.4) INDICATES TOTAL PETROLEUM HYDROCARBON (TPH) CONCENTRATION IN GROUNDWATER (IN MG/L), MEASURED IN DECEMBER 1997/JANUARY 1998

MW-3S
NRG/DESTEC WELL

ES-1
SCE OBSERVATION WELL

EOW-07
CHEVRON OBSERVATION WELL

GP/HP-1
GEOPROBE/HYDROPUNCH LOCATION

TRANSFORMER

F.O. FUEL OIL

EOW-04/ES-7
CHEVRON OBSERVATION WELL CONVERTED TO SCE OBSERVATION WELL

Woodward-Clyde Consultants

TPH CONCENTRATIONS IN THE OLD DUNE SAND AQUIFER DECEMBER 1997/JANUARY 1998

Proj. No.:	984W245	Date:	JAN,. 1998
Project:	EL SEGUNDO GENERATING STATION	Drawn by:	HSI
		Figure:	5-3

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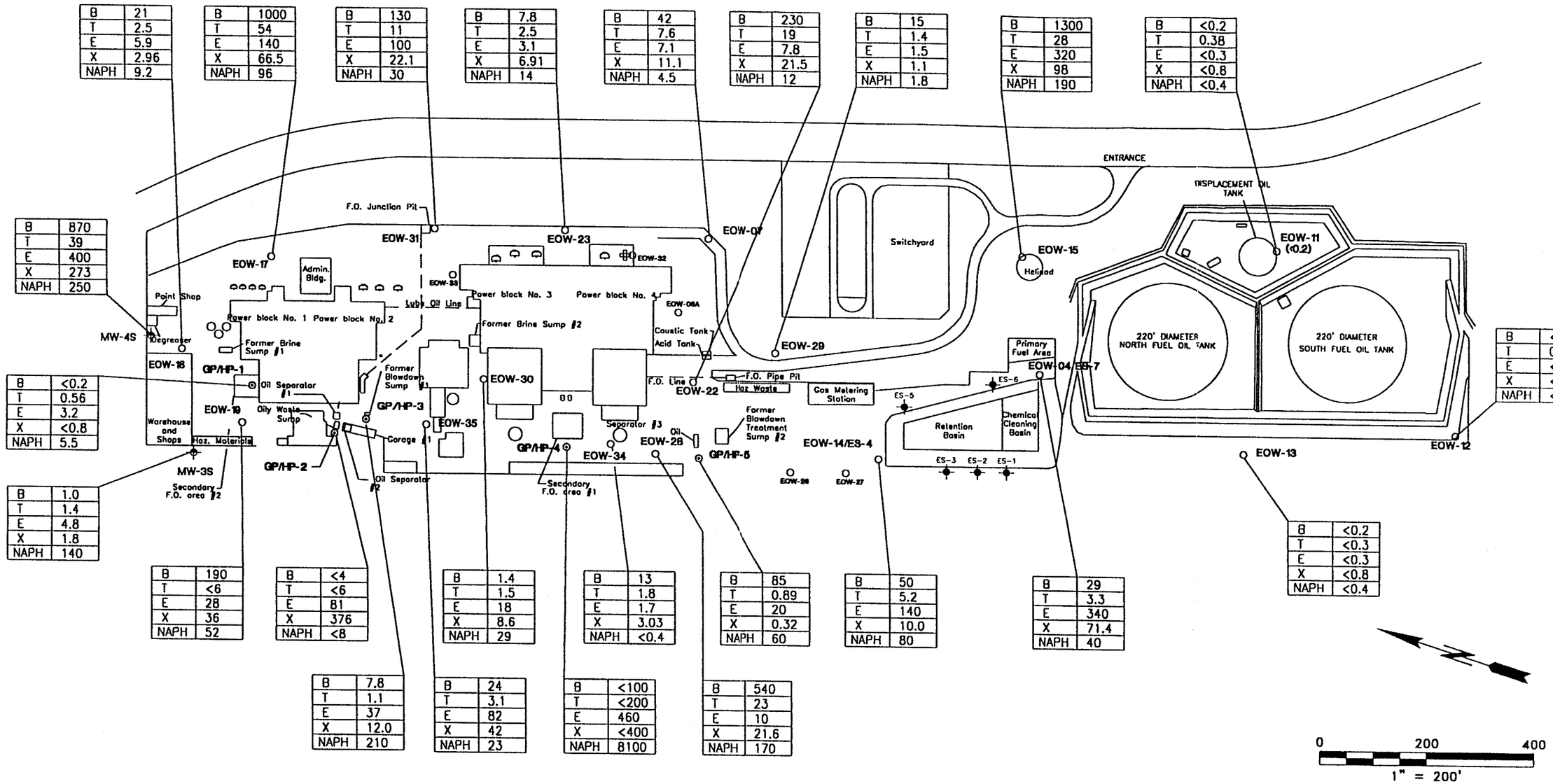

Source: HSI GEOTRANS Report, 5/30/97. Project N346-101.

EXPLANATION

GP/HP-1
GEOPROBE/HYDROPUNCH LOCATION

MW-3S
NRG/DESTEC WELL

ES-1
SCE OBSERVATION WELL

EOW-07
CHEVRON OBSERVATION WELL

EOW-04/ES-7
CHEVRON OBSERVATION WELL CONVERTED TO SCE OBSERVATION WELL

TRANSFORMER

F.O. FUEL OIL

BENZENE	B <0.2
TOLUENE	T 0.49
ETHYLBENZENE	E <0.3
XYLENES	X <0.8
NAPHTHALENE	NAPH <0.4

INDICATES BTEX AND NAPHTHALENE CONCENTRATIONS IN GROUNDWATER (IN µg/L), MEASURED ON DECEMBER 1997/JANUARY 1998

Woodward-Clyde Consultants

BTEX AND NAPHTHALENE CONCENTRATIONS IN THE OLD DUNE SAND AQUIFER DECEMBER 1997/JANUARY 1998

Proj. No.:	984W245	Date:	JAN. 1998
Project:	EL SEGUNDO GENERATING STATION	Drawn by:	HSI
		Figure:	5-4

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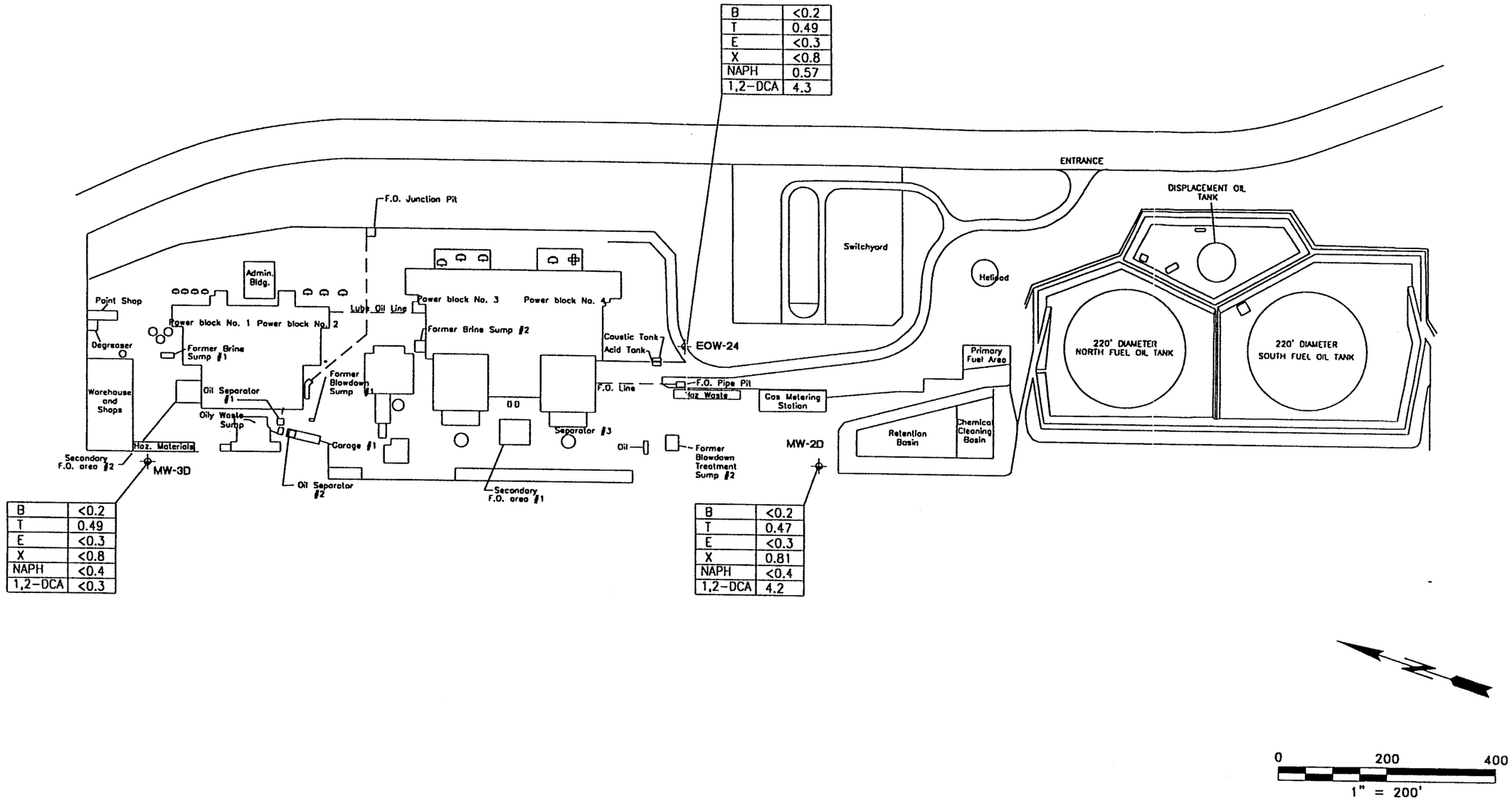

B	<0.2
T	0.49
E	<0.3
X	<0.8
NAPH	0.57
1,2-DCA	4.3

B	<0.2
T	0.49
E	<0.3
X	<0.8
NAPH	<0.4
1,2-DCA	<0.3

B	<0.2
T	0.47
E	<0.3
X	0.81
NAPH	<0.4
1,2-DCA	4.2

Source: HSI GEOTRANS Report, 3/30/97. Project N346-101.

EXPLANATION

MW-3D — NRG/DESTEC DEEP WELL

EOW-07 — CHEVRON OBSERVATION WELL

TRANSFORMER

F.O. — FUEL OIL

BENZENE	B	<0.2
TOLUENE	T	0.49
ETHYLBENZENE	E	<0.3
XYLENES	X	<0.8
NAPHTHALENE	NAPH	<0.4
1,2-DICHLOROETHANE	1,2-DCA	<0.3

INDICATES BTEX, NAPHTHALENE AND 1,2-DCA CONCENTRATIONS IN GROUNDWATER (IN μ/L), MEASURED IN DECEMBER 1997/JANUARY 1998

NOTE:
TOTAL PETROLEUM HYDROCARBONS AND SEMI-VOLATILE ORGANIC COMPOUNDS WERE NOT DETECTED IN WELLS EOW-24, MW-2D AND MW-3D

Woodward-Clyde Consultants

BTEX, NAPHTHALENE, AND 1,2-DCA IN THE GAGE AQUIFER DECEMBER 1997/JANUARY 1998

Proj. No.:	984W245	Date:	JAN. 1998
Project:	EL SEGUNDO GENERATING STATION	Drawn by:	HSI
		Figure:	5-5

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