Table 2-1 *Summary of Anticipated or Potential Land Use*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Area	Site	Site Description	Anticipated or Potential Land Use
AREA 20	4D	**Area 20 Surface Water Drainage System** Section of unlined ditch south of Building 20022 and east of Building 20024	Commercial
	5D	**Area 20 Surface Water Drainage System** Section of unlined ditch between northern property line and confluence with potential source site 7D	Residential
	7D	**Area 20 Surface Water Drainage System** Gunite-lined ditch north of Building 20009	Residential
	10D	**Area 20 Surface Water Drainage System** Unlined ditch north of Buildings 20001 and 20002	Commercial
	11D	**Area 20 Surface Water Drainage System** Unlined ditches north and east of Building 20022	Commercial
	Former Company Store	**Former Company Store** Freon 113 discovered during Stage 1 RI attributed to refrigeration units at Former Company Store	Residential
	GET D Treatment Facility	**GET D Treatment Facility** Treatment of extracted groundwater	Residential
	C29	**Area of Potentially Disturbed Soil** Identified by USEPA in 1957 aerial photo as possible burial site	Residential
	C41	**Former Railcar Loading Platform** Used for loading/unloading of railroad tank cars	Residential
AREA 21	D(e)	**Area 21** **Former Water Filtration Plant** Three backwash ponds	Commercial
	C32	**Debris Site** Debris believed to be due to dumping allowed by owner of land adjacent to Aerojet boundary	Commercial
AREA 49	32D	**Area 49 Surface Water Drainage Ditch System** Unlined ditch 2 Sumps & UST - Bldg 49008 3 Acid Storage Tanks - Bldgs 49019/49092 6 Storage Tanks - Bldgs 49090 & 49091	Roadway
	34D	**Area 49 Surface Water Drainage System** Surface Water Runoff	Roadway
	38D	**Area 49 Surface Water Drainage System** Surface Water Runoff Sump & UST - Bldg 49018	Roadway
	35D	**Large Degreaser Sump at Building 49014** Building 49014 is Inert Chamber Processing 2 septic tanks - Bldgs 49006 & 49014	Roadway

Table 2-1 *Summary of Anticipated or Potential Land Use*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Area	Site	Site Description	Anticipated or Potential Land Use
AREA 49	33D	**Chemical Waste Sump at Building 49010** Chemical Sampling	Commercial
	36D	**Abandoned Chemical Waste Tank, Degreaser Sump, and Septic Tank** **North Side of Building 49015** Tactical Process and Inert Chamber Processing	Commercial
	37D	**Waste Tank, Sump, and Septic Tank** **West End of Building 49016** Receiving, Inspection, Calibration, NDT, Repair Laboratory	Commercial
	39D	**Drum Storage Area** Bulk Chemical Storage	Commercial
	Area 49 Septic Tanks	**Septic Tanks** Buildings 49015 and 49022	Commercial
	C4	**Former Debris Site** Graded area with some domestic trash and debris	Residential
	C10	**Concrete-lined Ditch and Surrounding Land** Ditch predates Aerojet use of site. Water flow in ditch is onto Aerojet property.	Commercial
	C14	**Drainage Area and Open Land on Northern Boundary of Aerojet Site** Drainage ditch is historical dredge pit. Potentially received runoff from western portion of Area 49.	Commercial
	C15	**Drainage Ditch and Low-Lying Area between Area 49 and Schnitzer Steel** Area received surface water runoff from west end of Area 49 and Schnitzer Steel	Residential or Commercial

Table 3-1 *Summary of Quality Assurance/Quality Control Samples and Data Validation*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Analyte	Number of Samples Collected		% of Duplicate Samples	Total Number of Samples	Number and Percentage of Samples Validated			
	Primary	Duplicates			Level III (No.)	Level III (%)	Level IV (No.)	Level IV (%)
Soil Vapor	145	31	21%	176	59	34%	82	47%
Soil Vapor Blanks	8	0	0%	8	0	0%	8	100%
SVOCs	106	11	10%	117	33	28%	1	1%
Metals	77	5	6%	82	55	71%	3	4%
Arsenic	2	0	0%	2	2	100%	0	0%
Chromium	3	0	0%	3	3	100%	0	0%
Lead	58	1	2%	59	16	28%	0	0%
TPH	37	4	11%	41	12	32%	1	3%
PCBs	18	2	11%	20	11	61%	0	0%
Dioxins & Furans	6	0	0%	6	2	33%	0	0%
Perchlorate	160	10	6%	170	142	89%	15	9%
pH	17	2	12%	19	3	18%	0	0%

Notes and Key:
% = Percentage
No. = Number
PCBs = Polychlorinated biphenyls
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SVOCs = Semivolatile organic compounds
TPH = Total petroleum hydrocarbons

Table 3-2 Summary of Human Health Soil Vapor Screening Levels for Volatile Organic Compounds (VOCs) RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California

Constituent	Ambient Air PRG (µg/m3)	Attenuation Factor	Calculated Soil Vapor Screening Level (µg/m3)	Calculated Soil Vapor Screening Level (µg/L)
1,1,1-Trichloroethane	2.3E+03	2,000	4,600,000	4,600
1,1-Dichloroethane	1.2E+00	2,000	2,400	2.4
1,1-Dichloroethylene	2.1E+02	2,000	420,000	420
1,2-Dichlorobenzene	2.1E+02	2,000	420,000	420
1,2,4-Trimethylbenzene	6.2E+00	2,000	12,400	12.4
1,2-Dichloroethane	7.4E-02	2,000	148	0.148
Total 1,2-Dichloroethene	3.7E+01	2,000	74,000	74
1,3,5-Trimethylbenzene	6.2E+00	2,000	12,400	12.4
1,3-Butadiene	1.1E-02	2,000	22	0.022
2-Hexanone	3.1E+03	2,000	6,200,000	6,200
2-Propanol	9.5E+00	2,000	19,000	19
4-Ethyltoluene	1.1E+02	2,000	220,000	220
Acetone	3.3E+03	2,000	6,600,000	6,600
alpha-Chlorotoluene (benzyl chloride)	4.0E-02	2,000	80	0.08
Benzene	2.5E-01	2,000	500	0.50
Bromodichloromethane	1.0E-01	2,000	200	0.2
Cabon Disulfide	7.3E+02	2,000	1,460,000	1,460
Chlorobenzene	6.2E+01	2,000	124,000	124
Chloroethane	2.3E+00	2,000	4,600	4.6
Chloromethane	9.5E+01	2,000	190,000	190
Chloroform	3.5E-01	2,000	700	0.7
1,4-Dichlorobenzene	3.1E-01	2,000	620	0.62
cis-1,2-Dichloroethylene	3.7E+01	2,000	74,000	74
cis-1,3-Dichloropropene	4.8E-01	2,000	960	0.96
Cumene	4.0E+02	2,000	800,000	800
Cyclohexane	6.2E+03	2,000	12,400,000	12,400
Ethanol	9.5E+00	2,000	19,000	19
Ethylbenzene	1.1E+03	2,000	2,200,000	2,200
Freon 11	7.3E+02	2,000	1,460,000	1,460
Freon 113	3.1E+04	2,000	62,000,000	62,000
Heptane	2.1E+02	2,000	420,000	420
Hexane	2.1E+02	2,000	420,000	420
m,p-Xylenes	1.1E+02	2,000	220,000	220
Methyl ethyl ketone	5.1E+03	2,000	10,200,000	10,200
Methyl tert-butyl ether	7.4E+00	2,000	14,800	14.8
Methylene chloride	4.1E+00	2,000	8,200	8.2
o-Xylenes	1.1E+02	2,000	220,000	220
Propylbenzene	1.5E+02	2,000	300,000	300
Styrene	1.1E+03	2,000	2,200,000	2,200
Tetrachloroethylene	3.2E-01	2,000	640	0.64
Tetrahydrofuran	9.9E-01	2,000	1,980	1.98
Toluene	4.0E+02	2,000	800,000	800
trans-1,3-Dichloropropene	4.8E-01	2,000	960	0.96
trans-1,2-Dichloroethylene	7.3E+01	2,000	146,000	146
Trichloroethylene [1]	9.6E-01	2,000	1,920	1.92
Vinyl Chloride	1.1E-01	2,000	220	0.22

Notes and Key:

Soil Vapor Screening Level = Ambient Air PRG x Attenuation Factor
Except for TCE, ambient air PRGs from October 2004 USEPA PRG tables.
(1) Ambient air PRG for TCE is California modified PRG. California modified PRG selected because USEPA PRG is based on provisional slope factor.
µg/m3 = Micrograms per cubic meter
µg/L = Micrograms per cubic liter
mg/kg = Millligrams per kilogram
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
PRG = Preliminary Remediation Goal established by USEPA Region IX, October 2004
RI/FS = Remedial Investigation/Feasibility Study
USEPA = United States Environmental Protection Agency

Surrogates

Chemical	Surrogate
2-Hexanone	Methyl isobutyl ketone
2-Propanol	1-Butanol
4-Ethyltoluene	Xylene
Heptane	Hexane
Ethanol	1-Butanol

Table 3-3 Summary of Human Health Based Soil Screening Levels (SSLs)
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

CAS No.	Chemical	Residential PRG for Soil (mg/kg)	CHHSL for Soil (mg/kg)	Human Health Screening Level for Soil (mg/kg)
9E+00	Acephate	55.9		55.9
75-07-0	Acetaldehyde	10.9		10.9
34256-82-1	Acetochlor	122		122
67-64-1	Acetone	1,413		1,413
75-86-5	Acetone cyanohydrin	4.9		4.9
75-05-8	Acetonitrile	42.4		42.4
107-02-8	Acrolein	0.01		0.01
79-06-1	Acrylamide	0.11		0.11
79-10-7	Acrylic acid	2,905		2,905
107-13-1	Acrylonitrile [a]	0.06		0.06
15972-60-8	Alachlor	6.0		6.0
1596-84-5	Alar	917		917
116-06-3	Aldicarb	6.11		6.11
1646-88-4	Aldicarb sulfone	6.11		6.11
309-00-2	Aldrin	0.03	0.03	0.03
74223-64-6	Ally	1,528		1,528
107-18-6	Allyl alcohol	30.6		30.6
107-05-1	Allyl chloride	1.75		1.75
7429-90-5	Aluminum	7,614		7,614
20859-73-8	Aluminum phosphide	3.13		3.13
67485-29-4	Amdro	1.83		1.83
834-12-8	Ametryn	55.0		55.0
1321-12-6	Aminodinitrotoluene	1.22		1.22
591-27-5	m-Aminophenol	428		428
504-24-5	4-Aminopyridine	0.12		0.12
33089-61-1	Amitraz	15.3		15.3
7773-06-0	Ammonium sulfamate	1,222		1,222
62-53-3	Aniline	85.3		85.3
7440-36-0	Antimony and compounds	31.00	30.0	31.00
74115-24-5	Apollo	79.4		79.4
140-57-8	Aramite	19.5		19.5
7440-38-2	Arsenic [a]	0.06	0.07	0.06
76578-14-8	Assure	55.0		55.0
3337-71-1	Asulam	306		306
1912-24-9	Atrazine	2.19		2.19
71751-41-2	Avermectin B1	2.44		2.44
103-33-3	Azobenzene	4.42		4.42
7440-39-3	Barium and compounds	537	5,200	537
114-26-1	Baygon	24.4		24.4
43121-43-3	Bayleton	183		183
68359-37-5	Baythroid	153		153
1861-40-1	Benefin	1,833		1,833
17804-35-2	Benomyl	306		306
25057-89-0	Bentazon	183		183
100-52-7	Benzaldehyde	611		611
71-43-2	Benzene	0.64		0.64
92-87-5	Benzidine	0.00		0.00
65-85-0	Benzoic acid	100,000		100,000
98-07-7	Benzotrichloride	0.04		0.04
100-51-6	Benzyl alcohol	1,833		1,833
100-44-7	Benzyl chloride	0.89		0.89

Table 3-3 Summary of Human Health Based Soil Screening Levels (SSLs)
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

CAS No.	Chemical	Residential PRG for Soil (mg/kg)	CHHSL for Soil (mg/kg)	Human Health Screening Level for Soil (mg/kg)
7440-41-7	Beryllium and compounds	15.4	150	15.4
141-66-2	Bidrin	0.61		0.61
82657-04-3	Biphenthrin (Talstar)	91.7		91.7
92-52-4	1,1-Biphenyl	301.4		301.4
111-44-4	Bis(2-chloroethyl)ether	0.22		0.22
108-60-1	Bis(2-chloroisopropyl)ether	2.88		2.88
542-88-1	Bis(chloromethyl)ether	0.0002		0.0002
108-60-1	Bis(2-chloro-1-methylethyl)ether	2.88		2.88
117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)	34.7		34.7
80-05-7	Bisphenol A	306		306
7440-42-8	Boron	1,600		1,600
15541-45-4	Bromate	0.69		0.69
108-86-1	Bromobenzene	2.78		2.78
75-27-4	Bromodichloromethane	0.82		0.82
75-25-2	Bromoform (tribromomethane)	61.6		61.6
74-83-9	Bromomethane (Methyl bromide)	0.39		0.39
2104-96-3	Bromophos	30.6		30.6
1689-84-5	Bromoxynil	122		122
1689-99-2	Bromoxynil octanoate	122		122
106-99-0	1,3-Butadiene [a]	0.01		0.01
71-36-3	1-Butanol	610		610
2008-41-5	Butylate	306		306
104-51-8	n-Butylbenzene	240		240
135-9-88	sec-Butylbenzene	220		220
98-06-6	tert-Butylbenzene	390		390
85-68-7	Butyl benzyl phthalate	1,222		1,222
85-70-1	Butylphthalyl butylglycolate	6,110		6,110
7440-43-9	Cadmium and compounds	3.7	1.7	1.7
105-60-2	Caprolactam	3,055		3,055
2425-06-1	Captafol	56.6		56.6
133-06-2	Captan	139		139
63-25-2	Carbaryl	611		611
86-74-8	Carbazole	24.3		24.3
1563-66-2	Carbofuran	30.6		30.6
75-15-0	Carbon disulfide	35.5		35.5
56-23-5	Carbon tetrachloride	0.25		0.25
55285-14-8	Carbosulfan	61.1		61.1
5234-68-4	Carboxin	611		611
133-90-4	Chloramben	91.7		91.7
118-75-2	Chloranil	1.21		1.21
12789-03-6	Chlordane (technical)	1.62	0.43	0.43
90982-32-4	Chlorimuron-ethyl	122		122
79-11-8	Chloroacetic acid	12.2		12.2
532-27-4	2-Chloroacetophenone	0.0033		0.0033
106-47-8	4-Chloroaniline	24.4		24.4
108-90-7	Chlorobenzene	15.1		15.1
510-15-6	Chlorobenzilate	1.80		1.80
74-11-3	p-Chlorobenzoic acid	1,222		1,222
98-56-6	4-Chlorobenzotrifluoride	122		122
126-99-8	2-Chloro-1,3-butadiene	0.36		0.36
109-69-3	1-Chlorobutane	480		480

Table 3-3 Summary of Human Health Based Soil Screening Levels (SSLs)
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

CAS No.	Chemical	Residential PRG for Soil (mg/kg)	CHHSL for Soil (mg/kg)	Human Health Screening Level for Soil (mg/kg)
75-68-3	1-Chloro-1,1-difluoroethane (HCFC-142b)	340		340
75-45-6	Chlorodifluoromethane	340		340
75-00-3	Chloroethane	3.03		3.03
67-66-3	Chloroform	0.22		0.22
74-87-3	Chloromethane (methyl chloride)	4.69		4.69
95-69-2	4-Chloro-2-methylaniline	0.84		0.84
3165-93-3	4-Chloro-2-methylaniline hydrochloride	1.06		1.06
91-58-7	beta-Chloronaphthalene	494		494
88-73-3	o-Chloronitrobenzene	0.14		0.14
100-00-5	p-Chloronitrobenzene	1.02		1.02
95-57-8	2-Chlorophenol	6.34		6.34
75-29-6	2-Chloropropane	17.0		17.0
1897-45-6	Chlorothalonil	44.2		44.2
95-49-8	o-Chlorotoluene	15.8		15.8
101-21-3	Chlorpropham	1,222		1,222
2921-88-2	Chlorpyrifos	18.3		18.3
5598-13-0	Chlorpyrifos-methyl	61.1		61.1
64902-72-3	Chlorsulfuron	306		306
60238-56-4	Chlorthiophos	4.9		4.9
	Total Chromium (1:6 ratio Cr VI:Cr III)	211		211
16065-83-1	Chromium III	100,000	100,000	100,000
18540-29-9	Chromium VI	30.1	17.0	17.0
7440-48-4	Cobalt	903	660	660
7440-50-8	Copper and compounds	313	3,000	313
123-73-9	Crotonaldehyde	0.01		0.01
98-82-8	Cumene (isopropylbenzene)	57.2		57.2
21725-46-2	Cyanazine	0.58		0.58
57-12-5	Cyanide (free)	122		122
74-90-8	Cyanide (hydrogen)	1.08		1.08
460-19-5	Cyanogen	12.7		12.7
506-68-3	Cyanogen bromide	28.7		28.7
506-77-4	Cyanogen chloride	15.9		15.9
110-82-7	Cyclohexane	140		140
108-94-1	Cyclohexanone	100,000		100,000
108-91-8	Cyclohexylamine	1,222		1,222
68085-85-8	Cyhalothrin/Karate	30.6		30.6
52315-07-8	Cypermethrin	61.1		61.1
66215-27-8	Cyromazine	45.8		45.8
1861-32-1	Dacthal	61.1		61.1
75-99-0	Dalapon	183		183
39515-41-8	Danitol	153		153
72-54-8	DDD	2.44	2.30	2.30
72-55-9	DDE	1.72	1.60	1.60
50-29-3	DDT	1.72	1.60	1.60
1163-19-5	Decabromodiphenyl ether	61.1		61.1
8065-48-3	Demeton	0.24		0.24
2303-16-4	Diallate	7.97		7.97
333-41-5	Diazinon	5.50		5.50
132-64-9	Dibenzofuran	14.5		14.5
106-37-6	1,4-Dibromobenzene	61.1		61.1
124-48-1	Dibromochloromethane	1.11		1.11

Table 3-3 Summary of Human Health Based Soil Screening Levels (SSLs)
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

CAS No.	Chemical	Residential PRG for Soil (mg/kg)	CHHSL for Soil (mg/kg)	Human Health Screening Level for Soil (mg/kg)
96-12-8	1,2-Dibromo-3-chloropropane (DBCP) [a]	0.03		0.03
106-93-4	1,2-Dibromoethane (EDB)	0.03		0.03
84-74-2	Dibutyl phthalate	611		611
1918-00-9	Dicamba	183		183
95-50-1	1,2-Dichlorobenzene	600		600
541-73-1	1,3-Dichlorobenzene	53.1		53.1
106-46-7	1,4-Dichlorobenzene	3.45		3.45
91-94-1	3,3-Dichlorobenzidine	1.08		1.08
90-98-2	4,4'-Dichlorobenzophenone	183		183
764-41-0	1,4-Dichloro-2-butene	0.01		0.01
75-71-8	Dichlorodifluoromethane	9.39		9.39
75-34-3	1,1-Dichloroethane [a]	2.79		2.79
107-06-2	1,2-Dichloroethane (EDC)	0.28		0.28
75-35-4	1,1-Dichloroethylene	12.4		12.4
156-59-2	1,2-Dichloroethylene (cis)	4.29		4.29
156-60-5	1,2-Dichloroethylene (trans)	6.95		6.95
120-83-2	2,4-Dichlorophenol	18.3		18.3
94-82-6	4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	48.9		48.9
94-75-7	2,4-Dichlorophenoxyacetic Acid (2,4-D)	68.6	690	68.6
78-87-5	1,2-Dichloropropane	0.34		0.34
142-28-9	1,3-Dichloropropane	10.5		10.5
542-75-6	1,3-Dichloropropene	0.78		0.78
616-23-9	2,3-Dichloropropanol	18.3		18.3
62-73-7	Dichlorvos	1.68		1.68
115-32-2	Dicofol	1.11		1.11
77-73-6	Dicyclopentadiene	0.05		0.05
60-57-1	Dieldrin	0.030	0.035	0.030
112-34-5	Diethylene glycol, monobutyl ether	61.1		61.1
111-90-0	Diethylene glycol, monoethyl ether	366		366
617-84-5	Diethylformamide	2.40		2.40
103-23-1	Di(2-ethylhexyl)adipate	405		405
84-66-2	Diethyl phthalate	4,888		4,888
56-53-1	Diethylstilbestrol	0.0001		0.0001
43222-48-6	Difenzoquat (Avenge)	489		489
35367-38-5	Diflubenzuron	122		122
28553-12-0	Diisononyl phthalate	122		122
1445-75-6	Diisopropyl methylphosphonate	489		489
55290-64-7	Dimethipin	122		122
60-51-5	Dimethoate	1.22		1.22
119-90-4	3,3'-Dimethoxybenzidine	34.7		34.7
124-40-3	Dimethylamine	0.01		0.01
121-69-7	N-N-Dimethylaniline	12.2		12.2
95-68-1	2,4-Dimethylaniline	0.65		0.65
21436-96-4	2,4-Dimethylaniline hydrochloride	0.84		0.84
119-93-7	3,3'-Dimethylbenzidine	0.21		0.21
68-12-2	N,N-Dimethylformamide	611		611
122-09-8	Dimethylphenethylamine	6.11		6.11
105-67-9	2,4-Dimethylphenol	122		122
576-26-1	2,6-Dimethylphenol	3.67		3.67
95-65-8	3,4-Dimethylphenol	6.11		6.11
131-11-3	Dimethyl phthalate	100,000		100,000

Table 3-3 Summary of Human Health Based Soil Screening Levels (SSLs)
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

CAS No.	Chemical	Residential PRG for Soil (mg/kg)	CHHSL for Soil (mg/kg)	Human Health Screening Level for Soil (mg/kg)
120-61-6	Dimethyl terephthalate	611		611
534-52-1	4,6-Dinitro-o-cresol	0.61		0.61
131-89-5	4,6-Dinitro-o-cyclohexyl phenol	12.2		12.2
528-29-0	1,2-Dinitrobenzene	0.61		0.61
99-65-0	1,3-Dinitrobenzene	0.61		0.61
100-25-4	1,4-Dinitrobenzene	0.61		0.61
51-28-5	2,4-Dinitrophenol	12.2		12.2
25321-14-6	Dinitrotoluene mixture	0.72		0.72
121-14-2	2,4-Dinitrotoluene	12.2		12.2
606-20-2	2,6-Dinitrotoluene	6.11		6.11
88-85-7	Dinoseb	6.11		6.11
117-84-0	di-n-Octyl phthalate	244		244
123-91-1	1,4-Dioxane	44.2	18.0	18.0
1746-01-6	Dioxin (2,3,7,8-TCDD)	3.9E-06	4.6E-06	3.9E-06
957-51-7	Diphenamid	183		183
122-39-4	Diphenylamine	153		153
74-31-7	N,N-Diphenyl-1,4 benzenediamine (DPPD)	1.83		1.83
122-66-7	1,2-Diphenylhydrazine	0.61		0.61
127-63-9	Diphenyl sulfone	18.3		18.3
85-00-7	Diquat	13.4		13.4
1937-37-7	Direct black 38	0.057		0.057
2602-46-2	Direct blue 6	0.060		0.060
16071-86-6	Direct brown 95	0.052		0.052
298-04-4	Disulfoton	0.24		0.24
505-29-3	1,4-Dithiane	61.1		61.1
330-54-1	Diuron	12.2		12.2
2439-10-3	Dodine	24.4		24.4
7429-91-6	Dysprosium	782		782
115-29-7	Endosulfan	36.7		36.7
145-73-3	Endothall	122		122
72-20-8	Endrin	1.83	21.0	1.83
106-89-8	Epichlorohydrin [a]	0.13		0.13
106-88-7	1,2-Epoxybutane	34.8		34.8
759-94-4	EPTC (S-Ethyl dipropylthiocarbamate)	153		153
16672-87-0	Ethephon (2-chloroethyl phosphonic acid)	30.6		30.6
563-12-2	Ethion	3.06		3.06
110-80-5	2-Ethoxyethanol	2,444		2,444
111-15-9	2-Ethoxyethanol acetate	1,833		1,833
141-78-6	Ethyl acetate	1,871		1,871
140-88-5	Ethyl acrylate	0.21		0.21
100-41-4	Ethylbenzene	395		395
75-00-3	Ethyl chloride	3.03		3.03
109-78-4	Ethylene cyanohydrin	1,833		1,833
107-15-3	Ethylene diamine	550		550
107-21-1	Ethylene glycol	100,000		100,000
111-76-2	Ethylene glycol, monobutyl ether	3,055		3,055
75-21-8	Ethylene oxide	0.14		0.14
96-45-7	Ethylene thiourea (ETU)	4.42		4.42
60-29-7	Ethyl ether	1,800		1,800
97-63-2	Ethyl methacrylate	140		140
2104-64-5	Ethyl p-nitrophenyl phenylphosphorothioate	0.061		0.061

Table 3-3 Summary of Human Health Based Soil Screening Levels (SSLs)
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CAS No.	Chemical	Residential PRG for Soil (mg/kg)	CHHSL for Soil (mg/kg)	Human Health Screening Level for Soil (mg/kg)
84-72-0	Ethylphthalyl ethyl glycolate	100,000		100,000
101200-48-0	Express	48.9		48.9
22224-92-6	Fenamiphos	1.53		1.53
2164-17-2	Fluometuron	79.4		79.4
16984-48-8	Fluorine (soluble fluoride)	367	4,600	367
59756-60-4	Fluoridone	489		489
56425-91-3	Flurprimidol	122		122
66332-96-5	Flutolanil	367		367
69409-94-5	Fluvalinate	61.1		61.1
133-07-3	Folpet	139		139
72178-02-0	Fomesafen	2.56		2.56
944-22-9	Fonofos	12.2		12.2
50-00-0	Formaldehyde	917		917
64-18-6	Formic Acid	100,000		100,000
39148-24-8	Fosetyl-al	100,000		100,000
76-13-1	Freon 113	5,600		5,600
110-00-9	Furan	0.25		0.25
67-45-8	Furazolidone	0.13		0.13
98-01-1	Furfural	18.3		18.3
531-82-8	Furium	0.01		0.01
60568-05-0	Furmecyclox	16.2		16.2
77182-82-2	Glufosinate-ammonium	2.44		2.44
765-34-4	Glycidaldehyde	2.44		2.44
1071-83-6	Glyphosate	611		611
69806-40-2	Haloxyfop-methyl	0.31		0.31
79277-27-3	Harmony	79.4		79.4
76-44-8	Heptachlor	0.11	0.13	0.11
1024-57-3	Heptachlor epoxide	0.05		0.05
87-82-1	Hexabromobenzene	12.2		12.2
118-74-1	Hexachlorobenzene	0.30		0.30
87-68-3	Hexachlorobutadiene	6.24		6.24
319-84-6	HCH (alpha)	0.09		0.09
319-85-7	HCH (beta)	0.32		0.32
58-89-9	HCH (gamma) Lindane	0.44	0.50	0.44
608-73-1	HCH-technical	0.32		0.32
77-47-4	Hexachlorocyclopentadiene	36.5		36.5
67-72-1	Hexachloroethane	34.7		34.7
70-30-4	Hexachlorophene	1.83		1.83
121-82-4	Hexahydro-1,3,5-trinitro-1,3,5-triazine	4.42		4.42
822-06-0	1,6-Hexamethylene diisocyanate	0.02		0.02
110-54-3	n-Hexane	110		110
51235-04-2	Hexazinone	202		202
2691-41-0	HMX	306		306
302-01-2	Hydrazine, hydrazine sulfate	0.16		0.16
60-34-4	Hydrazine, monomethyl	0.16		0.16
57-14-7	Hydrazine, dimethyl	0.16		0.16
74-90-8	Hydrogen cyanide	1.08		1.08
123-31-9	p-Hydroquinone	8.69		8.69
35554-44-0	Imazalil	79.4		79.4
81335-37-7	Imazaquin	1,528		1,528
36734-19-7	Iprodione	244		244

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7439-89-6	Iron	2,346		2,346
78-83-1	Isobutanol	1,251		1,251
78-59-1	Isophorone	512		512
33820-53-0	Isopropalin	91.7		91.7
1832-54-8	Isopropyl methyl phosphonic acid	611		611
82558-50-7	Isoxaben	306		306
143-50-0	Kepone	0.06	0.04	0.04
77501-63-4	Lactofen	12.2		12.2
7439-92-1	Lead	150	150	150
78-00-2	Lead (tetraethyl)	0.0006		0.0006
330-55-2	Linuron	12.2		12.2
7439-93-2	Lithium	156		156
83055-99-6	Londax	1,222		1,222
121-75-5	Malathion	122		122
108-31-6	Maleic anhydride	611		611
123-33-1	Maleic hydrazide	167		167
109-77-3	Malononitrile	0.61		0.61
8018-01-7	Mancozeb	183		183
12427-38-2	Maneb	8.11		8.11
7439-96-5	Manganese and compounds	176		176
950-10-7	Mephosfolan	0.55		0.55
24307-26-4	Mepiquat chloride	183		183
149-30-4	2-Mercaptobenzothiazole	16.8		16.8
7487-94-7	Mercury and compounds	2.35	18.0	2.35
22967-92-6	Mercury (methyl)	0.61		0.61
150-50-5	Merphos	0.18		0.18
78-48-8	Merphos oxide	0.18		0.18
57837-19-1	Metalaxyl	367		367
126-98-7	Methacrylonitrile	0.21		0.21
10265-92-6	Methamidophos	0.31		0.31
67-56-1	Methanol	3,055		3,055
950-37-8	Methidathion	6.11		6.11
16752-77-5	Methomyl	4.43		4.43
72-43-5	Methoxychlor	30.6	340	30.6
109-86-4	2-Methoxyethanol	6.11		6.11
110-49-6	2-Methoxyethanol acetate	12.2		12.2
99-59-2	2-Methoxy-5-nitroaniline	10.6		10.6
79-20-9	Methyl acetate	2,209		2,209
96-33-3	Methyl acrylate	6.97		6.97
95-53-4	2-Methylaniline (o-toluidine)	2.03		2.03
636-21-5	2-Methylaniline hydrochloride	2.70		2.70
94-74-6	2-Methyl-4-chlorophenoxyacetic acid	3.06		3.06
94-81-5	4-(2-Methyl-4-chlorophenoxy) butyric acid	61.1		61.1
93-65-2	2-(2-Methyl-4-chlorophenoxy) propionic acid	6.11		6.11
16484-77-8	2-(2-Methyl-1,4-chlorophenoxy) propionic acid	6.11		6.11
108-87-2	Methylcyclohexane	259		259
101-77-9	4,4'-Methylenebisbenzeneamine	1.95		1.95
101-14-4	4,4'-Methylene bis(2-chloroaniline)	3.74		3.74
101-61-1	4,4'-Methylene bis(N,N'-dimethyl)aniline	10.6		10.6
74-95-3	Methylene bromide	6.69		6.69
75-09-2	Methylene chloride	9.11		9.11

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101-68-8	4,4'-Methylene diphenyl diisocyanate	1.04		1.04
78-93-3	Methyl ethyl ketone (2-Butanone)	2,231		2,231
108-10-1	Methyl isobutyl ketone	528		528
74-93-1	Methyl Mercaptan	3.48		3.48
80-62-6	Methyl methacrylate	219		219
99-55-8	2-Methyl-5-nitroaniline	14.7		14.7
298-00-0	Methyl parathion	1.53		1.53
95-48-7	2-Methylphenol	306		306
108-39-4	3-Methylphenol	306		306
106-44-5	4-Methylphenol	30.6		30.6
993-13-5	Methyl phosphonic acid	122		122
25013-15-4	Methyl styrene (mixture)	13.1		13.1
98-83-9	Methyl styrene (alpha)	680		680
1634-04-4	Methyl tertbutyl ether (MTBE)	32.0		32.0
51218-45-2	Metolaclor (Dual)	917		917
21087-64-9	Metribuzin	153		153
2385-85-5	Mirex	0.27	0.031	0.27
2212-67-1	Molinate	12.2		12.2
7439-98-7	Molybdenum	39.1	380	39.1
10599-90-3	Monochloramine	611		611
300-76-5	Naled	12.2		12.2
15299-99-7	Napropamide	611		611
7440-02-0	Nickel (soluble salts)	156	1,600	156
88-74-4	2-Nitroaniline	18.3		18.3
99-09-2	3-Nitroaniline	1.83		1.83
100-01-6	4-Nitroaniline	23.2		23.2
98-95-3	Nitrobenzene	1.96		1.96
67-20-9	Nitrofurantoin	428		428
59-87-0	Nitrofurazone	0.32		0.32
55-63-0	Nitroglycerin	34.7		34.7
556-88-7	Nitroguanidine	611		611
924-16-3	N-Nitrosodi-n-butylamine	0.02		0.02
1116-54-7	N-Nitrosodiethanolamine	0.17		0.17
55-18-5	N-Nitrosodiethylamine	0.00		0.00
62-75-9	N-Nitrosodimethylamine	0.01		0.01
86-30-6	N-Nitrosodiphenylamine	99.3		99.3
621-64-7	N-Nitroso di-n-propylamine	0.07		0.07
10595-95-6	N-Nitroso-N-methylethylamine	0.02		0.02
930-55-2	N-Nitrosopyrrolidine	0.23		0.23
99-08-1	m-Nitrotoluene	73.3		73.3
88-72-2	o-Nitrotoluene	0.88		0.88
99-99-0	p-Nitrotoluene	11.9		11.9
27314-13-2	Norflurazon	244		244
85509-19-9	NuStar	4.28		4.28
32536-52-0	Octabromodiphenyl ether	18.3		18.3
152-16-9	Octamethylpyrophosphoramide	12.2		12.2
19044-88-3	Oryzalin	306		306
19666-30-9	Oxadiazon	30.6		30.6
23135-22-0	Oxamyl	153		153
42874-03-3	Oxyfluorfen	18.3		18.3
76738-62-0	Paclobutrazol	79.4		79.4

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CAS No.	Chemical	Residential PRG for Soil (mg/kg)	CHHSL for Soil (mg/kg)	Human Health Screening Level for Soil (mg/kg)
4685-14-7	Paraquat	27.5		27.5
56-38-2	Parathion	36.7		36.7
1114-71-2	Pebulate	306		306
40487-42-1	Pendimethalin	244		244
87-84-3	Pentabromo-6-chloro cyclohexane	21.1		21.1
32534-81-9	Pentabromodiphenyl ether	12.2		12.2
608-93-5	Pentachlorobenzene	4.89		4.89
82-68-8	Pentachloronitrobenzene	1.87		1.87
87-86-5	Pentachlorophenol	2.98	4.4	2.98
7601-90-3	Perchlorate	0.78		0.78
52645-53-1	Permethrin	306		306
13684-63-4	Phenmedipham	1,528		1,528
108-95-2	Phenol	1,833		1,833
92-84-2	Phenothiazine	12.2		12.2
108-45-2	m-Phenylenediamine	36.7		36.7
95-54-5	o-Phenylenediamine	10.3		10.3
106-50-3	p-Phenylenediamine	1,161		1,161
62-38-4	Phenylmercuric acetate	0.49		0.49
90-43-7	2-Phenylphenol	251		251
298-02-2	Phorate	1.22		1.22
732-11-6	Phosmet	122		122
7803-51-2	Phosphine	1.83		1.83
7723-14-0	Phosphorus (white)	0.16		0.16
100-21-0	p-Phthalic acid	6,110		6,110
85-44-9	Phthalic anhydride	100,000		100,000
1918-02-1	Picloram	428		428
29232-93-7	Pirimiphos-methyl	61.1		61.1
	Polybrominated biphenyls	0.055		0.055
	Polychlorinated biphenyls (PCBs, see IRIS)	0.22	0.089	0.089
12674-11-2	PCBs (unspeciated mixture, low risk, e.g. Aroclor 101	0.39		0.39
11097-69-1	PCBs (unspeciated mixture, high risk, e.g. Aroclor 12	0.22		0.22
61788-33-8	Polychlorinated terphenyls	0.11		0.11
83-32-9	Acenaphthene	368		368
120-12-7	Anthracene	2,190		2,190
56-55-3	Benz[a]anthracene	0.62		0.62
205-99-2	Benzo[b]fluoranthene	0.62		0.62
207-08-9	Benzo[k]fluoranthene [a]	0.38		0.38
50-32-8	Benzo[a]pyrene	0.06	0.038	0.038
218-01-9	Chrysene [a]	3.78		3.78
53-70-3	Dibenz[ah]anthracene	0.06		0.06
206-44-0	Fluoranthene	229		229
86-73-7	Fluorene	275		275
193-39-5	Indeno[1,2,3-cd]pyrene	0.62		0.62
91-20-3	Naphthalene [a]	1.7		1.7
129-00-0	Pyrene	232		232
67747-09-5	Prochloraz	3.24		3.24
26399-36-0	Profluralin	36.7		36.7
1610-18-0	Prometon	91.7		91.7
7287-19-6	Prometryn	24.4		24.4
23950-58-5	Pronamide	458		458
1918-16-7	Propachlor	79.4		79.4

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709-98-8	Propanil	30.6		30.6
2312-35-8	Propargite	122		122
107-19-7	Propargyl alcohol	12.2		12.2
139-40-2	Propazine	122		122
122-42-9	Propham	122		122
60207-90-1	Propiconazole	79.4		79.4
103-65-1	n-Propylbenzene	240		240
57-55-6	Propylene glycol	3,003		3,003
52125-53-8	Propylene glycol, monoethyl ether	4,277		4,277
107-98-2	Propylene glycol, monomethyl ether	4,277		4,277
75-56-9	Propylene oxide	1.93		1.93
81335-77-5	Pursuit	1,528		1,528
51630-58-1	Pydrin	153		153
110-86-1	Pyridine	6.11		6.11
13593-03-8	Quinalphos	3.06		3.06
91-22-5	Quinoline	0.16		0.16
121-82-4	RDX (Cyclonite)	4.42		4.42
10453-86-8	Resmethrin	183		183
299-84-3	Ronnel	306		306
83-79-4	Rotenone	24.44		24.44
78587-05-0	Savey	153		153
7783-00-8	Selenious Acid	30.6		30.6
7782-49-2	Selenium	390	380	380
630-10-4	Selenourea	30.6		30.6
74051-80-2	Sethoxydim	550		550
7440-22-4	Silver and compounds	390	380	380
122-34-9	Simazine	4.05		4.05
148-18-5	Sodium diethyldithiocarbamate	1.80		1.80
62-74-8	Sodium fluoroacetate	0.12		0.12
13718-26-8	Sodium metavanadate	6.11		6.11
7440-24-6	Strontium, stable	4,692		4,692
57-24-9	Strychnine	1.83		1.83
100-42-5	Styrene	1,700		1,700
80-07-9	1,1'-Sulfonylbis (4-chlorobenzene)	39.1		39.1
88671-89-0	Systhane	153		153
1746-01-6	2,3,7,8-TCDD (dioxin)	3.90E-06		3.90E-06
34014-18-1	Tebuthiuron	428		428
3383-96-8	Temephos	122		122
5902-51-2	Terbacil	79.4		79.4
13071-79-9	Terbufos	0.15		0.15
886-50-0	Terbutryn	6.11		6.11
95-94-3	1,2,4,5-Tetrachlorobenzene	1.83		1.83
630-20-6	1,1,1,2-Tetrachloroethane	3.19		3.19
79-34-5	1,1,2,2-Tetrachloroethane	0.41		0.41
127-18-4	Tetrachloroethylene (PCE)	0.48		0.48
58-90-2	2,3,4,6-Tetrachlorophenol	183		183
5216-25-1	p,a,a,a-Tetrachlorotoluene	0.02		0.02
961-11-5	Tetrachlorovinphos	20.3		20.3
3689-24-5	Tetraethyldithiopyrophosphate	3.06		3.06
109-99-9	Tetrahydrofuran	9.36		9.36
7440-28-0	Thallium and compounds	0.52	5.0	0.52

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28249-77-6	Thiobencarb	61.1		61.1
N/A	Thiocyanate	306		306
39196-18-4	Thiofanox	1.83		1.83
23564-05-8	Thiophanate-methyl	489		489
137-26-8	Thiram	30.6		30.6
7440-31-5	Tin (inorganic, also see tributyltin oxide)	4,692		4,692
7440-32-6	Titanium	100,000		100,000
108-88-3	Toluene	520		520
95-80-7	Toluene-2,4-diamine	0.15		0.15
95-70-5	Toluene-2,5-diamine	3,666		3,666
823-40-5	Toluene-2,6-diamine	1,222		1,222
106-49-0	p-Toluidine	2.56		2.56
8001-35-2	Toxaphene	0.44	0.46	0.44
66841-25-6	Tralomethrin	45.8		45.8
2303-17-5	Triallate	79.4		79.4
82097-50-5	Triasulfuron	61.1		61.1
615-54-3	1,2,4-Tribromobenzene	30.6		30.6
126-73-8	Tributyl phosphate	52.9		52.9
56-35-9	Tributyltin oxide (TBTO)	1.83		1.83
634-93-5	2,4,6-Trichloroaniline	14.3		14.3
33663-50-2	2,4,6-Trichloroaniline hydrochloride	16.8		16.8
120-82-1	1,2,4-Trichlorobenzene	6.22		6.22
71-55-6	1,1,1-Trichloroethane	1,200		1,200
79-00-5	1,1,2-Trichloroethane	0.73		0.73
79-01-6	Trichloroethylene (TCE)	0.05		0.05
75-69-4	Trichlorofluoromethane	38.6		38.6
95-95-4	2,4,5-Trichlorophenol	611		611
88-06-2	2,4,6-Trichlorophenol	0.61		0.61
93-76-5	2,4,5-Trichlorophenoxyacetic Acid (2,4,5-T)	61.1	550	61.1
93-72-1	2-(2,4,5-Trichlorophenoxy) propionic acid	48.9		48.9
598-77-6	1,1,2-Trichloropropane	7.10		7.10
96-18-4	1,2,3-Trichloropropane	0.03		0.03
96-19-5	1,2,3-Trichloropropene	0.52		0.52
58138-08-2	Tridiphane	18.3		18.3
121-44-8	Triethylamine	2.34		2.34
1582-09-8	Trifluralin	63.2		63.2
552-30-7	Trimellitic Anhydride (TMAN)	0.86		0.86
95-63-6	1,2,4-Trimethylbenzene	5.16		5.16
108-67-8	1,3,5-Trimethylbenzene	2.13		2.13
512-56-1	Trimethyl phosphate	13.1		13.1
99-35-4	1,3,5-Trinitrobenzene	183		183
479-45-8	Trinitrophenylmethylnitramine	61.1		61.1
118-96-7	2,4,6-Trinitrotoluene	16.2		16.2
791-28-6	Triphenylphosphine oxide	122		122
115-96-8	Tris(2-chloroethyl) phosphate	34.7		34.7
78-42-2	Tris(2-ethylhexyl) phosphate	152		152
7440-61-1	Uranium (chemical toxicity only)	1.56		1.56
7440-62-2	Vanadium and compounds	7.82	5.30	7.82
1929-77-7	Vernam	6.11		6.11
50471-44-8	Vinclozolin	153		153
108-05-4	Vinyl acetate	42.6		42.6

Table 3-3 Summary of Human Health Based Soil Screening Levels (SSLs)
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

CAS No.	Chemical	Residential PRG for Soil (mg/kg)	CHHSL for Soil (mg/kg)	Human Health Screening Level for Soil (mg/kg)
593-60-2	Vinyl bromide (bromoethene)	0.19		0.19
75-01-4	Vinyl chloride (child/adult)	0.08		0.08
81-81-2	Warfarin	1.83		1.83
1330-20-7	Xylenes	27.1		27.1
7440-66-6	Zinc	23,000	23,000	23,000
1314-84-7	Zinc phosphide	2.35		2.35
12122-67-7	Zineb	305.5		305.5

Notes and Key:
Screening levels are the lower of the PRG or CHHSL
If a California Modified PRG was identified for a compound, the lower of the Cal-modified PRG or USEPA PRG was used.
CHHSL = California Human Health Screening Level
mg/kg = Milligrams per kilogram
P = Pending identification of soil background data set for metals.
PGOU = Perimeter Groundwater Operable Unit
PRG = Preliminary Remediation Goal
RI/FS = Remedial Investigation/Feasibility Study

Source:
PRG TABLE
Version 9
October 2004
Stanford J. Smucker Ph.D., EPA Region IX
Technical Support Section (SFD-8-4)
75 Hawthorne Street, San Francisco, CA 94105-3901

Table 3-4 Results of Metals Analysis of Background Soil Samples and Sample Extracts
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Units	Aluminum	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Zinc
A20-BML01	2.0	7/16/2003	mg/kg	18,000	5.3 J	150 J	0.46	<8.1	<0.81	46 J	0.27 J	13	**38**	5.9	550	**0.097 J**	<1.6	42 J	<0.81 UJ	<0.56 UJ	<0.16	51 J
A20-BML01	2.0	7/16/2003	mg/L	37	<0.5	11	0.0074	<0.5	<0.05	0.083	<0.025	0.70	0.59	<0.38	33	<0.002	<0.1	0.42	<0.5	<0.035	<0.5	0.28
A20-BML02	2.0	7/16/2003	mg/kg	20,000	**9.1**	180	0.60	<8.8	**0.37 j**	56	<0.21	14	**46**	8.3	590	**0.23**	<1.8	42	<0.88	<0.61	0.19	52
A20-BML02	2.0	7/16/2003	mg/L	37	<0.5	11	0.0078	<0.5	<0.05	0.098	<0.025	0.70	0.59	<0.38	33	<0.002	<0.1	0.35	<0.5	<0.035	<0.5	0.28
A20-BML03	2.0	7/16/2003	mg/kg	17,000	3.1 J	130 J	0.51	<8.8	**0.25 j**	46 J	0.68 J	13	29	6.3	520	**0.045 J**	<1.8	37	<0.88 UJ	<0.61 UJ	<0.18	44 J
A20-BML03	2.0	7/16/2003	mg/L	24	<0.5	8.0	<0.005	<0.5	<0.05	0.063	<0.025	0.53	0.19	<0.38	35	<0.002	<0.1	0.31	<0.5	<0.035	<0.5	0.37
A20-BML04	2.0	7/16/2003	mg/kg	15,000	3.1	170	0.47	<8.8	**0.23 j**	41	0.23	12	28	7.7	650	0.036	<1.8	28	<0.88	<0.61	<0.18	52
A20-BML04	2.0	7/16/2003	mg/L	19	<0.5	6.6	<0.005	<0.5	<0.05	0.050	<0.025	0.65	0.23	<0.38	29	<0.002	<0.1	0.40	<0.5	<0.035	<0.5	0.21
Avg Sample Concentrations (mg/kg)				**17,500**	**5.2**	**158**	**0.51**	**<8.8**	**0.42**	**47.3**	**0.35**	**13**	**35.3**	**7.1**	**578**	**0.10**	**<1.6**	**37.3**	**<0.88**	**<0.56**	**<0.16**	**49.8**
Avg Background Extract Concentrations (mg/L)				**29**	**<0.5**	**9.2**	**0.006**	**<0.5**	**<0.05**	**0.07**	**<0.025**	**0.65**	**0.40**	**<0.38**	**32.5**	**<0.002**	**<0.1**	**0.37**	**<0.5**	**<0.035**	**<0.035**	**0.29**

Notes and Key:
bgs = Below ground surface
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
< = Less than; not detected above the noted Practical Quanitation Limit.

Laboratory Qualifier:
j = Reported concentration is an estimate. Concentration between method detection limit and practical quantitation limit.

Data Validation Qualifiers:
J = Indicates an estimated value.
R = Quality control indicates the data is not usable.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 4-1 *Summary of Proposed and Actual Soil Vapor Sampling Activities for Sites in Areas 20 and 21*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Proposed Sampling Activity	Number of Proposed Sampling Locations	Proposed Sample Depths	Number of Proposed Samples	Number of Samples Collected	Sample ID	Sample Depth (ft bgs)	Comment
4D	**Area 20 Surface Water Drainage System** Section of unlined ditch south of Building 20022 and east of Building 20024	Soil Vapor	2	10 feet	2	2	4D-SP22	NA	No flow at 10', not sampled
							4D-SP23	5 & 10	10 feet resampled August 2006 for 1,3-butadiene.
11D	**Area 20 Surface Water Drainage System** Unlined ditches north and east of Building 20022	Soil Vapor	6	10 feet	6	6	11D-SP18	10	
							11D-SP19	10	Resampled August 2006 for 1,3-butadiene.
							11D-SP20	10	
							11D-SP21	10	
							11D-SP22	10	
							11D-SP24	10	
		Hydropunch	1	Less than 25 feet	1	0	NA	NA	No groundwater <25 feet
	170-foot section of ditch north of Building 20B73 and underground culvert	Soil Vapor	2	10 feet	2	3	11D-SP23	5	Duplicate at 5 feet
							11D-SP25	5 & 10	
		Hydropunch	1	Less than 25 feet	1	0	NA	NA	No groundwater <25 feet
10D	**Area 20 Surface Water Drainage System** Unlined ditch north of Buildings 20001 and 20002	Soil Vapor	5	10 feet	5	6	10D-SP30	10	
							10D-SP31	10	
							10D-SP32	10	
							10D-SP33	10	
							10D-SP34	5 & 10	10 ft resampled August 2006 for 1,3-butadiene.
7D	**Area 20 Surface Water Drainage System** Gunite-lined ditch north of Building 20009	Soil Vapor	4	10 feet	4	4	7D-SP12	10	
							7D-SP13	10	Resampled August 2006 for 1,3-butadiene.
							7D-SP14	10	
							7D-SP15	10	
Former Company Store	**Former Company Store** Freon 113 discovered during Stage 1 RI attributed to refrigeration units at Former Company Store	Soil Vapor	17	10 and 20 feet	34	36	FCS-SP01	10 & 20	
							FCS-SP02	10	No flow at 20 feet.
							FCS-SP03	10 & 20	10 ft resampled August 2006 for 1,3-butadiene.
							FCS-SP04	10 & 20	
							FCS-SP05	10 & 20	Duplicate at 20 feet
							FCS-SP06	10 & 20	10 & 20 ft resampled August 2006 for 1,3-butadiene.
							FCS-SP07	5, 10, & 20	Duplicate at 5 feet. 20 ft resampled August 2006 for 1,3-butadiene.
							FCS-SP08	10 & 20	
							FCS-SP09	10 & 20	
							FCS-SP10	5, 10, & 20	Resampled at 10 feet, Duplicates at 10 & 20 ft
							FCS-SP11	10 & 20	
							FCS-SP12	10 & 20	
							FCS-SP13	10 & 20	
							FCS-SP14	10	Refusal at 14 feet.
							FCS-SP15	10 & 20	
							FCS-SP16	5, 10, & 20	10 & 20 ft resampled August 2006 for 1,3-butadiene.
							FCS-SP17	10 & 20	
		Vapor Wells	NA	NA	NA	2	FCS-SVE1	10	
							FCS-SVE2	10	
		Flux Chamber	2	Surface	2	4	FCS-FLUX-1	0	Collected at FCS-SP07
							FCS-FLUX-N1	0	Negative pressure at FCS-SP07
							FCS-FLUX-2	0	Collected at FCS-SP16
							FCS-INFL-FLUX3	0	Collected above crack in asphalt at FCS-SP10
GET D	**GET D Treatment Facility** Treatment of extracted groundwater	Soil Vapor	4	10 feet	4	3	GET D - SV02	10	GET D - SV01 not accessible
							GET D - SV03	10	
							GET D - SVO4	10	Duplicate at 10 feet
D(e)	**Area 21 Former Water Filtration Plant** Three backwash ponds	Soil Vapor	3	10 feet	3	3	D(e)-SP05	10	
							D(e)-SP06	9	
							D(e)-SP07	10	

Table 4-1 *Summary of Proposed and Actual Soil Vapor Sampling Activities for Sites in Areas 20 and 21*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Proposed Sampling Activity	Number of Proposed Sampling Locations	Proposed Sample Depths	Number of Proposed Samples	Number of Samples Collected	Sample ID	Sample Depth (ft bgs)	Comment
C32	**Debris Site** Debris believed to be due to dumping allowed by owner of land adjacent to Aerojet boundary	Soil Vapor	1	20 feet	1	2	C32-SV02	10 & 20	Duplicate at 20 feet. 10 & 20 ft resampled September 2006 for 1,3-
		Soil Vapor	3	10 feet	3	3	C32-SV03 C32-SV04 C32-SV05	10 10 10	
C41	**Former Tank Car Loading Area** Facility used to load and unload liquid chemicals and wastes to railroad tank cars	Soil Vapor	10	Refusal or 3 feet min	10	0	NA	NA	Soil vapor sampling deemed unecessary because of shallow depth to refusal and VOCs detected in previous samples.

Notes and Key:
ID = Identification
NA = Not applicable
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Table 4-2 ***Summary of Volatile Organic Compound (VOC) Analysis of Soil Vapor Samples***
Sites 4D, 7D, 10D, and 11D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Sample Date	Freon 11	Freon 113	BDCM	DCM	cis-1,2-DCE	CB	1,4-DCB	CF	1,1,1-TCA	TCE	PCE	cis-1,3-DCP	trans-1,3-DCP	B	T	EB	m,p-Xylene	o-Xylene	Styrene	1,3,5-TMB	1,2,4-TMB	alpha-Chloro-toluene	Hexane	Cyclo-Hexane	Heptane	Cumene	Propyl-benzene	Acetone	CDSD	2-Propanol	2-Butanone (MEK)	Tetra-hydro-furan	4-Ethyl toluene	MTBE	Ethanol	Vinyl Chloride
PGOU SVSL:			**1,460**	**62,000**	**0.2**	NE	**74**	**124**	**0.62**	**0.7**	**4,600**	**1.92**	**0.64**	**0.96**	**0.96**	**0.5**	**800**	**2,200**	**220**	**220**	**2,200**	**12.4**	**12.4**	**0.08**	**420**	**12,400**	**420**	**800**	**300**	**6,600**	**1,460**	**19**	**10,200**	**1.98**	**220**	**14.8**	NE	**0.22**
4D-SP23	5.0	07/24/03	<0.024	<0.033	<0.029	<0.015	<0.017	<0.020	<0.026	<0.021	<0.024	<0.023	<0.029	<0.020	<0.020	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.022	<0.015	**0.015**	<0.018	<0.021	<0.021	**0.12**	<0.054	<0.042	<0.051	<0.051	<0.085	<0.062	<0.033	<0.011
4D-SP23	10.0	07/10/03	<0.031	**0.27**	<0.037	<0.019	<0.022	<0.026	<0.034	<0.027	<0.030	<0.030	<0.038	<0.025	<0.025	**0.033**	**0.042**	<0.024	<0.024	<0.024	<0.024	<0.027	<0.027 UJ	<0.029	**0.087**	<0.019	**0.051**	<0.027	<0.027	**0.22 U**	<0.070	<0.055	<0.066	**0.081**	<0.11	<0.081	<0.042	<0.014
4D-SP23	10.0	08/31/06	<0.0076	<0.010	<0.009	<0.0047	<0.0053	**0.076**	**0.012**	<0.0066	<0.0073	<0.0072	<0.0091	<0.0061	<0.0061	**0.037**	**0.0096**	**0.006**	**0.0076**	**0.11**	**0.018**	<0.0066	<0.0066	<0.007	<0.0047	<0.0046	<0.0055	<0.0066	**0.0078**	**0.048**	<0.0042	<0.013	**0.025**	<0.004	<0.0066	<0.0048	<0.010	<0.0034
7D-SP12	10.0	07/09/03	<0.049	**14**	<0.059	<0.030	<0.035	<0.040	<0.053	**0.064**	<0.048	**0.22**	**1.1**	<0.040	<0.040	<0.028	<0.033	<0.038	<0.038	<0.038	<0.037	<0.043	<0.043	<0.046	<0.031	<0.030	<0.036	<0.043	<0.043	**0.78**	<0.11	<0.086	**0.18**	<0.10	<0.17	<0.13	**0.12**	<0.022
7D-SP13	10.0	07/23/03	<0.024	**2.6**	<0.028	<0.015	<0.017	<0.020	<0.026	**0.17**	**0.027**	**0.29**	**1.7**	<0.019	<0.019	**0.034**	**0.032**	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.022	**0.039**	<0.015	**0.029**	<0.021	<0.021	**0.15**	<0.053	<0.042	<0.050	<0.050	<0.084	<0.061	**0.088**	<0.011
7D-SP13	10.0	08/31/06	<0.0056	**1.1**	**0.007**	**0.0039**	<0.0039	<0.0046	<0.0060	**0.34**	**0.0079**	**0.094**	**0.40**	<0.0045	<0.0045	**0.0046**	**0.0038**	**0.0084**	**0.046**	**0.018**	<0.0042	<0.0049	<0.0049	<0.0052	<0.0035	**0.077**	<0.0041	<0.0049	<0.0049	**0.055**	**0.0092**	<0.0098	**0.011**	<0.0029	<0.0049	<0.0036	**0.0094**	<0.0025
7D-SP14	10.0	07/09/03	<0.025	**0.12**	<0.029	**0.016**	<0.017	<0.020	<0.026	<0.021	**0.028**	**0.07**	**0.79**	<0.020	<0.020	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.023	<0.015	<0.015	<0.018	<0.022	<0.022	**0.21**	<0.055	<0.043	**0.078**	<0.052	<0.086	<0.063	**0.093**	<0.011
7D-SP15	10.0	07/09/03	<0.024	**0.61**	<0.029	<0.015	<0.017	<0.020	<0.026	<0.021	**0.038**	**0.17**	**2.1**	<0.020	<0.020	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.022	**0.015**	<0.015	<0.018	<0.021	<0.021	**0.62**	<0.054	<0.042	**0.13**	<0.051	<0.085	<0.062	**0.086**	<0.011
10D-SP34	5.0	07/24/03	<0.023	<0.032	<0.028	<0.014	<0.016	<0.019	<0.025	<0.020	<0.023	<0.022	<0.028	<0.019	<0.019	<0.013	<0.016	<0.018	<0.018	<0.018	<0.018	<0.020	<0.020	<0.022	<0.015	<0.014	<0.017	<0.020	<0.020	**0.049**	<0.052	<0.041	<0.049	<0.049	<0.082	<0.060	<0.031	<0.011
10D-SP30	10.0	07/09/03	<0.024	<0.032	<0.028	<0.015	<0.017	<0.020	<0.026	<0.021	<0.023	<0.023	<0.029	<0.019	<0.019	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.022	<0.015	<0.015	**0.024**	<0.021	<0.021	**0.34**	<0.053	<0.042	**0.12**	<0.050	<0.084	<0.061	**0.31**	<0.011
10D-SP30 (dup)	10.0	07/09/03	<0.025	<0.034	<0.029	<0.015	<0.017	<0.020	<0.026	<0.021	<0.024	<0.024	<0.030	<0.020	<0.020	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.023	<0.015	<0.015	**0.022**	<0.022	<0.022	**0.23**	<0.055	<0.043	**0.097**	<0.052	<0.086	<0.063	**0.20**	<0.011
10D-SP31	10.0	07/09/03	<0.024	<0.032	<0.028	<0.015	<0.017	<0.020	<0.026	<0.021	<0.023	<0.023	<0.029	<0.019	<0.019	<0.014	**0.022**	<0.018	**0.039**	**0.018**	<0.018	<0.021	**0.024**	<0.022	**0.021**	<0.015	<0.017	<0.021	<0.021	**0.21**	<0.053	<0.042	**0.065**	<0.050	<0.084	<0.061	**0.10**	<0.011
10D-SP32	10.0	07/10/03	<0.024	<0.032	<0.028	<0.015	<0.017	<0.020	<0.026	<0.021	<0.023	<0.023	<0.029	<0.019	<0.019	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.022	<0.015	<0.015	<0.017	<0.021	<0.021	**0.25**	<0.053	<0.042	**0.11**	**0.073**	<0.084	<0.061	**0.098**	<0.011
10D-SP33	10.0	07/10/03	<0.024	<0.032	<0.028	**0.027**	<0.017	<0.020	<0.026	<0.021	<0.023	<0.023	<0.029	<0.019	<0.019	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.022	<0.015	<0.015	<0.017	<0.021	<0.021	**0.057**	<0.053	<0.042	<0.050	<0.050	<0.084	<0.061	**0.061**	<0.011
10D-SP34	10.0	07/10/03	<0.024	**0.15**	<0.028	**0.025**	<0.017	<0.020	<0.026	<0.021	<0.023	<0.023	<0.029	<0.019	<0.019	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021 UJ	<0.022	<0.015	<0.015	<0.017	<0.021	<0.021	**0.060 U**	<0.053	<0.042	<0.050	**0.053**	<0.084	<0.061	**0.044 U**	<0.011
10D-SP34	10.0	09/01/06	<0.0072	<0.0099	<0.0086	<0.0045	<0.0051	**0.041**	<0.0078	**0.0072**	<0.007	**0.017**	**0.16**	<0.0058	<0.0058	**0.020**	**0.0062**	<0.0056	**0.011**	**0.053**	**0.0085**	<0.0063	<0.0063	<0.0067	<0.0045	**0.011**	<0.0053	<0.0063	<0.0063	**0.026**	**0.005**	<0.013	**0.021**	<0.0038	<0.0063	<0.0046	<0.0097	<0.0033
11D-SP23	5.0	07/11/03	<0.023	<0.031	<0.028	<0.014	<0.016	<0.019	<0.025	<0.020	<0.022	<0.022	<0.028	<0.019	<0.019	<0.013	<0.015	<0.018	<0.018	<0.018	<0.017	<0.020	<0.020	<0.021	<0.014 UJ	<0.014 UJ	<0.017 UJ	<0.020	<0.020 UJ	**0.059**	<0.051 UJ	<0.040 UJ	<0.048 UJ	<0.048 UJ	<0.081	<0.059 uj, UJ	<0.031 UJ	<0.010
11D-SP23 (rep)	5.0	07/11/03	<0.023	<0.031	<0.028	<0.014	<0.016	<0.019	<0.025	<0.020	<0.022	<0.022	<0.028	<0.019	<0.019	<0.013	<0.015	<0.018	<0.018	<0.018	<0.017	<0.020	<0.020	<0.021	<0.014 UJ	<0.014 UJ	<0.017 UJ	<0.020	<0.020 UJ	**0.059**	<0.051 UJ	<0.040 UJ	<0.048 UJ	<0.048 UJ	<0.081	<0.059 uj, UJ	<0.031 UJ	<0.010
11D-SP25	5.0	07/24/03	<0.023	<0.032	<0.028	**0.016**	<0.016	<0.019	<0.025	<0.020	<0.023	<0.022	<0.028	<0.019	<0.019	<0.013	<0.016	<0.018	<0.018	<0.018	<0.018	<0.020	<0.020	<0.022	<0.015	**0.016**	<0.017	<0.020	<0.020	**0.24**	<0.052	<0.041	**0.05**	<0.049	<0.082	<0.060	<0.031	<0.011
11D-SP18	10.0	07/23/03	<0.024	<0.033	<0.029	<0.015	<0.017	<0.020	<0.026	<0.021	<0.024	<0.023	<0.029	<0.020	<0.020	<0.014	**0.016**	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.022	<0.015	<0.015	<0.018	<0.021	<0.021	**0.17**	<0.054	<0.042	<0.051	<0.051	<0.085	<0.062	**0.093**	<0.011
11D-SP19	10.0	07/10/03	<0.026	**0.19**	<0.030	<0.016	<0.018	<0.021	<0.027	<0.022	<0.025	<0.024	<0.031	<0.021	<0.021	<0.014	<0.017	<0.020	<0.020	<0.020	<0.019	<0.022	<0.022	<0.024	**0.017**	<0.016	<0.019	<0.022	<0.022	**0.24**	<0.057	<0.045	**0.092**	<0.054	<0.090	<0.066	<0.034	<0.012
11D-SP19	10.0	08/31/06	**0.015**	**0.12**	<0.0088	<0.0046	<0.0052	**0.029**	**0.0084**	<0.0064	<0.0072	<0.0071	<0.009	<0.006	<0.006	**0.013**	**0.019**	**0.0086**	**0.025**	**0.044**	**0.0086**	<0.0065	**0.013**	<0.0068	<0.0046	**0.059**	<0.0054	<0.0065	<0.0065	**0.024**	**0.012**	<0.013	**0.011**	<0.0039	**0.0069**	<0.0048	<0.0099	<0.0034
11D-SP20	10.0	07/10/03	**0.027**	**0.059**	<0.028	**0.056**	<0.017	<0.020	<0.026	**0.14**	<0.023	<0.023	<0.029	<0.019	<0.019	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.022	<0.015	<0.015	<0.017	<0.021	<0.021	**0.23**	<0.053	<0.042	**0.076**	<0.050	<0.084	<0.061	**0.055**	<0.011
11D-SP21	10.0	07/11/03	<0.024	<0.033	<0.029	<0.015	<0.017	<0.020	<0.026	**0.13**	<0.024	<0.023	<0.029	<0.020	<0.020	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.022	<0.015	<0.015	<0.018	<0.021	<0.021	**0.048**	<0.054	<0.042	<0.051	<0.051	<0.085	<0.062 uj	<0.033	<0.011
11D-SP22	10.0	07/10/03	<0.024	<0.033	<0.029	**0.020**	<0.017	<0.020	<0.026	**0.46**	<0.024	<0.023	<0.029	<0.020	<0.020	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021 UJ	<0.022	<0.015	<0.015	**0.026**	<0.021	<0.021	**0.70 U**	<0.054	<0.042	**0.25**	<0.051	<0.085	<0.062	**0.14 U**	<0.011
11D-SP24	10.0	07/10/03	<0.024	<0.032	<0.028	**0.018**	<0.017	<0.020	<0.026	<0.021	<0.023	<0.023	<0.029	<0.019	<0.019	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.022	**0.018**	<0.015	**0.02**	<0.021	<0.021	**0.68**	<0.053	<0.042	**0.16**	<0.050	<0.084	<0.061	**0.12**	<0.011
11D-SP25	10.0	07/10/03	<0.025	<0.034	<0.029	**0.037**	<0.017	<0.020	<0.026	<0.021	<0.024	<0.024	**0.069**	<0.020	<0.020	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022 UJ	<0.023	<0.015	<0.015	<0.018	<0.022	<0.022	**0.16 U**	<0.055	<0.043	<0.052	<0.052	<0.086	<0.063	**0.094 U**	<0.011
11D-SP25 (dup)	10.0	07/10/03	<0.025	<0.034	<0.029	**0.038**	<0.017	<0.020	<0.026	<0.021	<0.024	<0.024	**0.067**	<0.020	<0.020	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022 UJ	<0.023	<0.015	<0.015	<0.018	<0.022	<0.022	**0.13 U**	<0.055	<0.043	<0.052	<0.052	<0.086	<0.063	**0.10 U**	<0.011

Notes and Key:
Concentrations reported in milligrams per cubic meter (mg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
Concentrations above PGOU soil vapor screening level (SVSL) are highlighted by shading.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Field duplicate sample
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
rep = Laboratory replicate sample
SVSL = Soil vapor screening level
Total VOC = Sum of detected compounds excluding results qualified as non-detect.

B = Benzene
BDCM = Bromodichloromethane
CB = Chlorobenzene
CDSD = Carbon Disulfide
CE = Chloroethane
CF = Chloroform
CM = Chloromethane
DCA = Dichloroethane
DCB = Dichlorobenzene
DCE = Dichloroethylene
DCM = Dichloromethane
DCP = Dichloropropene
EB = Ethylbenzene
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary butyl ether
PCE = Tetrachloroethane
T = Toluene
TCA = Trichloroethane
TCE = Trichloroethene
TMB = Trimethylbenzene

Laboratory Qualifiers:
j = Estimated value.
uj = Non detected compound associated with low bias in the continuing calibration verification.

Data Validation Qualifiers:
J = Indicates an estimated value.
U = Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 4-3 Summary of Metals Analysis of Soil Samples
Sites 4D and 11D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
HH SSL:			**7,614**	**3.1**	**0.06**	**537**	**15.4**	**1,600**	**1.7**	**211**	**17**	**660**	**313**	**15**	**176**	**2.4**	**156**	**380**	**380**	**0.52**	**5.3**	**2,346**
4D-SNS03	0.0	1993	8,320	<5.0	<7.5	83.8	<0.5	<50	<1	91.6	NA	11.5	23.8	**32.8**	411	<0.1	41.3	<7.5	<1	<7.5	49.6	203
4D-SNS04	0.0	1993	10,900	<5.0	<7.5	100	<0.5	<50	<1	38	NA	9.62	24.6	5.3	349	<0.1	24	<7.5	<1	<5	53.5	32.5
	2.5	1993	9,240	<5.0	<7.5	104	<0.5	<50	<1	34.7	NA	13.7	13.1	8.2	631	<0.1	11.3	<7.5	<1	<5	63.7	20.2
4D-SNS05	0.0	1993	21,800	<5.0	12	161	0.54	<50	<1	65.1	NA	20.9	46.8	**46.8**	874	0.20	47.4	7.65	<1	<5	89.6	123
	2.5	1993	15,900	<5.0	<7.5	130	<0.5	<50	<1	51.2	NA	17.8	27.9	13	747	<0.1	31.6	<7.5	<1	<5	73.6	35.5
Ditch North of Building 20022																						
11D-SNS05	0.0	1993	6,150	<5.0	<5	48.2	<0.5	<10	<1	14.7	NA	5.91	11.1	8.7	160	<0.1	13.2	<7	<1	<7.5	30.7	69.6
	1.5	7/14/2003	16,000	<0.36 UJ	2.9	100 J	0.46	<7.1	<0.71	53	0.6 J	13	29	7.9	500	0.051	42	0.37 j	<0.50	0.14	62	68 J
	3.0	1993	8,330	<5.0	5.28	48.2	<0.5	<10	<1	32.7	NA	7.62	29.9	5.51	232	<0.1	36.1	<7	<1	<7.5	30.8	23.9
11D-SNS06	0.0	1993	8,400	<5.0	<7.5	60.3	<0.5	<50	1.59	43	NA	7.33	21.2	**31.6**	193	<0.1	22.2	<7.5	<1	<7.5	30.6	142
	1.5	7/14/2003	15,000	<0.36 UJ	2.5	79 J	0.36	<7.1	0.22 j	43	0.23 J	9.7	27	8.8	280	<0.015	39	0.22 j	<0.50	<0.14	46	210 J
Ditch East of Building 20022																						
11D-SNS07	0.0	1993	17,700	<5.0	<7.5	119	<0.5	<50	**3.39**	53.5	NA	16.5	38.6	**67.2**	658	<0.1	37.7	<7.5	<1	<7.5	74.2	993
11D-SNS08	0.5	7/14/2003	7,100	1 J	1.8	57 J	0.22	<8.6	0.89	33	0.34	5.3	25 J	**79**	170	0.027	21	0.38 j	<0.60	<0.17	34	1,500 J
	2.0	7/14/2003	22,000	<0.43	7.2	170	0.71	<8.6	0.31 j	63	0.74	18	39	15	1,100	0.34	50	0.39 j	<0.60	<0.17	97	150
11D-SNS09	0.5	7/14/2003	16,000	0.98 J	4.2	100 J	0.48	<8.9	2.0	49	<0.21 UJ	12	41	**110**	430	0.12	34	0.68 j	<0.62	0.20	65	1,900 J
	2.0	7/14/2003	15,000	<0.48	5.4	140	0.48	<9.6	<0.96	59	0.22	20	40	**30**	610	0.02	36	0.5 j	<0.67	<0.19	69	490
170 Ft Section of Ditch North of Building 20B73																						
11D-SNS03	0.0	1993	19,600	<5.0	9.13	165	0.54	<50	**2.47**	66.7	NA	20.7	40.8	**15.6**	1,130	<0.1	71.7	<7.5	<1	<7.5	73.5	360
	3.0	1993	12,300	<5.0	<5	87.3	<0.5	<10	<1	80.5	NA	9.82	29.9	6.0	291	<0.1	36.9	<7	<1	<7.5	47.2	28.6
11D-SNS04	0.0	1993	17,300	<5.0	7.56	167	<0.5	26	**3.89**	77.5	NA	16.6	73.6	**288**	422	0.25	60.4	<7	1.16	<7.5	72.9	**2,960**
	3.0	1993	12,000	<5.0	<5	154	<0.5	<10	<1	29.5	NA	9.17	22.2	<5	392	<0.1	21.8	<7	<1	<7.5	58.8	54.5
11D-SNS11	0.0	11/18/2004	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**87**	NA	NA	NA	NA	NA	NA	NA	NA

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg).
Metals detected in site soils statistically above background are shaded in heading.
Metal concentrations above background and HH SSL are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
(dup) = Duplicate sample
HH SSL = Human health soil screening level
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between method detection limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference

Data Validation Qualifiers:
J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.
R = Quality control indicates the data is not usable.

Table 4-4 ***Summary of Proposed and Actual Soil Sampling Activities for Sites in Areas 20 and 21***
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Proposed Sampling Activity	Number of Proposed Sampling Locations	Proposed Sample Depths	Proposed Analyte(s)	Rationale and Comments	Actual Number of Samples Collected	Sample ID	Sample Depth (ft bgs)	Analyte(s)	Comments
11D	**Area 20 Surface Water Drainage System** Unlined ditches north and east of Building 20022	Near-Surface Soil	2	2 feet bgs	Metals + Cr^6	Collect near-surface soil samples from ditch north of Building 20022 at previous Stage 1 RI locations 11D-SNS05 and 11D-SNS06.	2	11D-SNS05 11D-SNS06	1.5 1.5	Metals + Cr^6	
		Surface and Near-Surface	2	Surface and 2 feet	Metals + Cr^6	Collect surface and near-surface samples at locations upstream and downstream of previous Stage 1 RI location 11D-SNS07.	4	11D-SNS08 11D-SNS09	0.5 & 2 0.5 & 2	Metals + Cr^6	
	170-foot section of ditch north of Building 20B73 and underground culvert	Surface Soil	1	Surface	PCBs	Collect surface soil samples from east end of 170-foot section of ditch to evaluate presence of PCBs.	1	11D-SNS11	0.5 0.0	PCBs Lead	Lead sample collected Nov 2004
		Surface Soil	2	Surface	PCBs	Collect surface soil sample from entrance and discharge end of underground culvert to evaluate PCBs.	2	11D-SNS10 10D-SNS24	0.5 0.5	PCBs	
10D	**Area 20 Surface Water Drainage System** Unlined ditch north of Buildings 20001 and 20002	Surface Soil	5	Surface	Metals + Cr^6	Collect samples at evenly spaced intervals from underground culvert from Site 11D to 6-inch discharge pipes south of Building 20002. Analyze all samples for metals.	5	10D-SNS24 10D-SNS25 10D-SNS26 10D-SNS27 10D-SNS28	0.5 0.5 0.5 0.5 0.5	Metals + Cr^6	
		Surface Soil	4	Surface	Thallium	Collect samples at historical locations SNS04, SNS10, SNS21, and SNS22 to evaluate thallium detections.	4	10D-SS04 10D-SS10 10D-SS21 10D-SS22	0.5 0.5 0.5 0.5	Thallium	
							2	10D-SNS11 10D-SNS21	0 0	Arsenic	Arsenic samples collected Nov 2004 at historical max locations
		Surface Soil ***(Conditional)***	8	Surface	PCBs	If PCBs detected in surface soil sample from discharge end of underground culvert from Site 11D, analyze samples for PCBs. Also, collect surface soil samples between discharge pipes and underground culvert east of Aerojet Road for PCBs.	8	10D-SNS10 10D-SNS24 10D-SNS25 10D-SNS26 10D-SNS27 10D-SNS28 10D-SNS29 10D-SNS30	0 0 0 0 0 0 0 0	PCBs	Duplicate at 10D-SNS25
		Surface Soil ***(Conditional)***	TBD	Surface	PCBs	If PCBs detected in surface soil samples from bottom of ditch, collect samples from banks of ditch between underground culvert from Site 11D to entrance to underground culvert east of Aerojet Road.	9	10D-SNS31 10D-SNS32 10D-SNS33 10D-SNS34 10D-SNS35 10D-SNS36	0 & 2 0 0 0 0 0	PCBs	Duplicate at 10D-SNS31
		Subsurface Soil	2	2, 5, 10 feet bgs	Metals	Collect subsurface soil samples at two locations (10D-SNS07 and 10D-SNS10/SS10) with elevated lead in surface soil. Analyze samples for metals.	6	10D-SB07 10D-SB10	2, 5, & 10 2, 5, & 10	Metals	Sampling agreed upon with Agencies during meeting on 22 September 2005.
		Background Soil Leachate Sampling	4	2 feet bgs	Metals WET WET Leachate	Collect near-surface soil samples at four locations in open field north of Site 10D ditch. Analyze samples for metals and perform WET. Analyze WET leachate for metals.	4	A20-BML01 A20-BML02 A20-BML03 A20-BML04	2 2 2 2	Metals WET Leachate	
7D	**Area 20 Surface Water Drainage System** Gunite-lined ditch north of Building 20009	Surface Soil	2	Surface	Thallium	Collect surface soil samples at two locations in ditch and analyze for thallium.	0	NA	NA	NA	No soil present in ditch.
5D	**Area 20 Surface Water Drainage System** Section of unlined ditch between northern property line and confluence with potential source site 7D	Surface Soil	3	Surface	Metals + Cr^6	Section of Site 5D ditch included in Workplan upstream of all potential source areas. Data needed to assess metals detected in surface soil at confluence of Site 5D and 7D.	3	5D-SNS07 5D-SNS08 5D-SNS09	0.5 0.5 0.5	Metals + Cr^6	
D(e)	**Area 21** **Former Water Filtration Plant** Three backwash ponds	Surface Soil	4	Surface	Lead	Assess lead concentrations in northern, central, and southern backwash ponds.	4	D(e)-SNS02 D(e)-SNS03 D(e)-SNS04 D(e)-SNS05	0.5 0.5 0.5 0.5	Lead	
C29	**Area of Potentially Disturbed Soil** Identified by USEPA in 1957 aerial photo as possible burial site	Geophysical Survey	NA	NA	NA	Perform ground penetrating radar (GPR) survey to assess the potential for buried materials.	NA	NA	NA	NA	GPR survey conducted over entire site.
C32	**Area 21** **Debris Site**	Surface Soil	2	Surface	Metals SVOCs	Collect surface soil samples at two locations.	2	C32-SNS01 C32-SNS02	0.5 0.5	Metals SVOCs	

Table 4-4 *Summary of Proposed and Actual Soil Sampling Activities for Sites in Areas 20 and 21*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Proposed Sampling Activity	Number of Proposed Sampling Locations	Proposed Sample Depths	Proposed Analyte(s)	Rationale and Comments	Actual Number of Samples Collected	Sample ID	Sample Depth (ft bgs)	Analyte(s)	Comments
C41	**Former Railcar Loading Area** Facility used to load and unload chemicals from railroad tank cars	Surface and Near-Surface	7	Surface	Perchlorate	Collect samples in accordance with *Revised Field Sampling Plan for Area 39 and Site C41* (CVEI, September 2004).	30	C41-SS01 C41-SS02 C41-SS03 C41-SS04 C41-SS05 C41-SS06 C41-SS07 C41-SS08 C41-SS09 C41-SS10 C41-SS11 C41-SS12 C41-SS13 C41-SS14 C41-SS15 C41-SS16 C41-SS17 C41-SB01 C41-SB02 C41-SB03 C41-SB04	0.25 0.25 0.25 0.25 & 1.5 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 & 2 0.25 & 2 0.25 & 2 0.25 & 2 0.25 0.25 & 2 0.25 & 2 0.25 & 2 0.25 &2	Perchlorate	Sampling conducted in accordance with FSP. Duplicates: C41-SS01-0.25 C41-SS03-0.25 C41-SS04-0.25 and 1.5 C41-SB03-2
		Subsurface Soil			Perchlorate		64	C41-SS07 C41-SS08 C41-SS09 C41-SS13 C41-SS14 C41-SS15 C41-SS16 C41-SB01 C41-SB02 C41-SB03 C41-SB04	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 5 &10 5 & 10 5 5 5 5 5, 10, 15, 20, 25, 30, 40, 50, 60 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60	Perchlorate	Duplicates: C41-SB01-30 C41-SB02-10 C41-SB04-5

Notes and Key:

Cr^6 = Hexavalent chromium
ft bgs = Feet below ground surface
ID = Identification
NA = Not applicable
PCBs = Polychlorinated biphenyls
PGOU = Perimeter Groundwater Operable Unit
RI = Remedial investigation
RI/FS = Remedial Investigation/Feasibility Study
TBD = To be determined
WET = Waste extraction test

Table 4-5 Summary of Metals Analysis of Soil Sample Leachate
Sites 5D, 10D, and 11D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Units	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Titanium	Vanadium	Zinc
5D-SNS07	0.5	7/15/2003	mg/kg	24,000	<0.48	**12**	180	**0.74**	<9.6	**2.2**	**130**	<1.0 r	20	**110**	**92**	730	**0.75**	3.7	**62**	0.52 j	**40**	0.19	810	98	**540**
5D-SNS07	0.5	7/15/2003	mg/L	NA	NA	<0.5 UJ	0.15 J	<0.005	NA	<0.05	<0.05	<0.005 R	NA	<0.05	<0.38	0.11	<0.00025 UJ	NA	<0.15 UJ	NA	<0.035	NA	NA	NA	0.39 J
10D-SS10	0.0	7/15/2003	mg/kg	14,000	<0.45	**6.4**	110	**0.42**	<8.9	**0.64**	50	0.62	13	32	**13**	440	**0.11**	<1.8	44	0.12 j	**0.31**	<0.18	590	57	**350**
10D-SS10	0.0	7/15/2003	mg/L	NA	NA	<0.5	0.12 J	<0.005	NA	<0.05	<0.05	<0.005 UJ	NA	<0.05	<0.38	<0.05	<0.00025 UJ	NA	<0.15	NA	<0.035 UJ	NA	NA	NA	0.4 J
10D-SS21	0.5	7/15/2003	mg/kg	19,000	0.57	**8.4**	210	0.57	<10	**2.2**	71	<1.0	22	**70**	**92**	690	**0.23**	2.3	51	0.19 j	**1.3**	<0.20	860	78	**1,700**
10D-SS21	0.0	7/15/2003	mg/L	NA	NA	<0.5 UJ	0.29 J	<0.005	NA	<0.05	<0.05	<0.005 UJ	NA	<0.05	<0.38	0.075	<0.00025 UJ	NA	<0.15	NA	<0.035	NA	NA	NA	2.0 J
10D-SS22	0.5	7/15/2003		26,000	0.52	**5.8**	230	**0.83**	<7.9	**1.6**	85	<1.0	23	**66**	**38**	**900**	**0.2**	2.2	**66**	0.18 j	**8.4**	<0.16	880	110	**1,000**
10D-SS22	0.0	7/15/2003	mg/L	NA	NA	<0.5 UJ	0.14 J	<0.005	NA	<0.05	<0.05	<0.005 UJ	NA	<0.05	<0.38	<0.05	<0.00025 UJ	NA	<0.15	NA	<0.035	NA	NA	NA	0.94 J
10D-SNS27	0.5	7/14/2003	mg/kg	25,000	<0.48	**7.0**	250	**0.82**	<9.6	**1.7**	87	<0.21	**27**	**66**	**51**	**1,000**	**0.18**	2.6	**65**	0.45 j	<0.67	0.20	960	110	**1,100**
10D-SNS27	0.5	7/14/2003	mg/L	NA	NA	<0.5	0.23	<0.005	NA	<0.05	<0.05	<0.005	NA	<0.05	<0.38	0.065	<0.00025	NA	<0.15	NA	<0.035	NA	NA	NA	0.77
11D-SNS08	0.5	7/14/2003	mg/kg	7,100	1.0	1.8	57	0.22	<8.6	**0.89**	33	0.34	5.3	25	**79**	170	0.027	<1.7	21	0.38 j	**0.15 j**	<0.17	470	34	**1,500**
11D-SNS08	0.5	7/14/2003	mg/L	NA	NA	<0.5 UJ	0.12 J	<0.005	NA	<0.05	<0.05	0.0068 J	NA	<0.05	<0.38	0.13	<0.00025 UJ	NA	<0.15 UJ	NA	<0.035	NA	NA	NA	3.6 J
11D-SNS09	0.5	7/14/2003	mg/kg	16,000	0.98	**4.2**	100	0.48	<8.9	**2.0**	49	<0.21	12	**41**	**110**	430	**0.12**	2.5	34	0.68 j	<0.62	0.20	800	65	**1,900**
11D-SNS09	0.5	7/14/2003	mg/L	NA	NA	<0.5 UJ	0.054 J	<0.005	NA	<0.05	<0.05	<0.005 R	NA	<0.05	<0.38	<0.05	<0.00025 UJ	NA	<0.15 UJ	NA	<0.035	NA	NA	NA	1.4 J

Notes and Key:
Metals detected at concentrations statistically above background are highlighted in heading.
Metal concentrations in soil above background and HH SSL are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
HH SSL = Human health soil screening level
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
NA = Not analyzed
PGOU = Perimeter Groundwater Operable Unit
PRG = Preliminary Remediation Goal (USEPA Region IX, October 2004)
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between method detection limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference.

Data Validation Qualifiers:
J = Indicates an estimated value.
R = Quality control indicates the data is not usable.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 4-6 *Summary of Polychlorinated Biphenyl (PCB) Analysis of Soil Samples*
Sites 10D and 11D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
HH SSL:			**390**	**220**	**220**	**220**	**220**	**220**	**220**
Surface Soil Samples from Bottom of Ditch									
11D-SNS10	0.0	7/14/2003	<33	<33	<33	<33	<33	<33	**150**
11D-SNS11	0.0	7/14/2003	<33	<33	<33	<33	<33	<33	**90**
10D-SNS10	0.0	8/27/2003	<33	<33	<33	<33	<33	<33	**79**
10D-SNS24	0.0	7/14/2003	<33	<33	<33	<33	<33	<33	**290**
10D-SNS25	0.0	7/24/2003	<33	<33	<33	<33	<33	<33	**410**
10D-SNS25 (dup)	0.0	7/24/2003	<33	<33	<33	<33	<33	<33	**330**
10D-SNS26	0.0	7/24/2003	<33	<33	<33	<33	<33	<33	**490**
10D-SNS27	0.0	7/24/2003	<33	<33	<33	<33	<33	<33	**180**
10D-SNS28	0.0	8/27/2003	<33	<33	<33	<33	<33	<33	**160**
Bank Samples									
10D-SNS29	0.0	7/24/2003	<33	<33	<33	<33	<33	<33	<33
10D-SNS30	0.0	7/24/2003	<33	<33	<33	<33	<33	<33	**110**
10D-SNS31	0.0	7/24/2003	<33	<33	<33	<33	<33	<33	**1,200**
10D-SNS31	0.0	11/18/2004	<33	<33	<33	<33	<33	<33	**170**
10D-SNS31 (dup)	0.0	11/18/2004	<33	<33	<33	<33	<33	<33	**94**
10D-SNS31	2	11/18/2004	<33	<33	<33	<33	<33	<33	<33
10D-SNS32	0.0	7/24/2003	<33	<33	<33	<33	<33	<33	**220**
10D-SNS33	0.0	7/24/2003	<33	<33	<33	<33	<33	<33	**210**
10D-SNS34	0.0	7/24/2003	<33	<33	<33	<33	<33	**500**	**520**
10D-SNS35	0.0	7/24/2003	<33	<33	<33	<33	<33	<33	**270**
10D-SNS36	0.0	8/27/2003	<33	<33	<33	<33	<33	<33	**660**

Notes and Key:
Units reported in micrograms per kilogram (µg/kg).
< = Less than; not detected above the noted Practical Quanitation Limit.
Detected concentrations are in bold.
Concentrations above HH SSL are shaded.
bgs = Below ground surface
dup = Duplicate sample
HH SSL = Human health soil screening level
PGOU = Perimeter Groundwater Operable Unit
PRG = Preliminary Remediation Goal (USEPA Region IX, October 2004)
RI/FS = Remedial Investigation/Feasibility Study

Table 4-7 Summary of Metals Analysis of Soil Samples
Site 10D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Hexavalent Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Titanium	Vanadium	Zinc
HH SSL:			**7,614**	**3.1**	**0.06**	**537**	**15.4**	**1,600**	**1.7**	NE	**211**	**17**	**660**	**313**	**2,346**	**150**	NE	**176**	**2.4**	**39.1**	**156**	NE	**380**	**380**	NE	**0.52**	**100,000**	**5.3**	**2,346**
Bottom of Ditch - Surface and Subsurface Soil Samples																													
10D-SNS04	0.0	1993	8,510	<5.0	<7.5	63.9	<0.5	<50	<1	2,940	33.1	NA	7.24	23.8	15,900	**28.2**	3,250	200	<0.1	NA	26.7	1,050	<7.5	<1	215	7.71	NA	38.2	634
10D-SNS05	0.0	1997	31,000	<22	<7.5	150	0.52	4.1	**3.1**	5,800	77	0.89	11	44	30,000	**40**	5,600	260	1.9	<3.7	43	1,700	<9.4	24	250	<4.7	NA	93	370
10D-SB02	2.5	1997	15,600	<4.42	7.88	127	0.3	<26.5	**4.58**	3,030	42.6	<0.84	13.1	36.4	19,200	6.27	4,330	563	0.84	2.21	50.1	1,320	<8.85	1.63	243	<8.85	NA	46.2	78.4
	5.0	1997	12,800	<3.16	5.54	104	0.23	<38	0.83	2,930	46.8	<0.87	13.8	32.2	17,500	<3.16	5,180	581	1.23	1.58	28	1,050	<6.33	0.7	106	<12.7	NA	46.2	36.2
	7.5	1997	12,300	<4.27	<7.26	75.2	0.24	<25.6	<0.43	2,050	37.8	<0.95	11.4	23.5	20,000	4.52	4,170	317	0.05	<1.71	25.3	517	<8.55	<2.99	66.8	<8.55	NA	47.6	44.7
	10.0	1997	29,600	<4.59	<7.8	234	0.36	<55	<0.46	2,120	37.4	<0.94	15.1	26.4	25,200	<4.59	3,940	535	<0.02	<1.83	35.7	935	<9.17	<1.28	89.3	<9.17	NA	67.6	48.9
10D-SNS06	0.0	1997	28,000	<23	<7.5	240	0.65	<3.8	1.5	5,300	67	11.7	24	40	51,000	**33**	5,600	1,400	0.14	<3.8	54	1,300	<9.4	<1.9	230	<4.7	NA	160	540
10D-SNS07	0.0	1997	24,000	<23	<7.5	180	0.45	18.0	1.6	5,600	87	<0.84	14	65	27,000	**130**	5,400	280	0.41	<3.8	51	1,900	<9.4	<1.9	450	<4.7	NA	68	1,600
10D-SB07	2.0	01/25/06	6,800	<0.8	2.0	70	0.25 j	6.2	0.96	2,000	25	0.23 j	5.2	34	13,000	**33**	2,000	110	0.48	0.31 j	13	470	0.26 j	8.2	52	0.19 j	380	37	360
	5.0	01/25/06	13,000	<0.8	3.1	140	0.33 j	8.6	1.3	2,100	44	0.25 j	9.7	64	20,000	**32**	4,100	170	0.14	0.67 j	29	1,200	0.28 j	4.1	74	0.12 j	560	55	420
	10.0	01/25/06	12,000	<0.8	7.6	110	0.31 j	8.3	0.16 j	1,900	52	0.072 j	13	51	22,000	5.5	5,400	650	0.0099 j	0.55 j	34	850	0.37 j	<0.4	57	<0.1	440	47	58
10D-SNS08	0.0	1997	36,000	<23	12	210	0.68	5.8	**1.8**	4,800	84	<0.85	21	71	36,000	**99**	6,900	690	0.26	<3.9	72	2,200	<9.8	4.1	260	<4.9	NA	96	1,000
10D-SNS09	0.0	1997	10,000	<23	<7.5	59	0.20	<3.9	<0.39	3,800	74	<0.85	11	20	22,000	13	6,200	270	<0.085	<3.9	51	760	<9.7	<1.9	160	<4.9	NA	57	200
10D-SNS10	0.0	1997	43,000	<24	13	210	0.84	<3.9	**2.5**	5,000	96	<0.86	26	71	42,000	**110**	7,800	920	0.57	<3.9	79	2,600	<9.9	8.4	230	5.5	NA	110	710
10D-SS10	0.0	07/15/03	14,000	<0.45	6.4 J	110	0.42	<8.9	0.64	2,600	50 J	0.62 J	13	32	24,000	13	5,000	440	0.11 R	<1.8	44 J	1,200	0.12 j J UJ	0.31	200	<0.18	590	57	350 J
10D-SB10	2.0	01/25/06	11,000	<0.8	5	94	0.28 j	11	0.81	1,900	43	<0.026	13	46	17,000	**34**	4,900	430	0.21	0.31 j	43	1,200	0.30 j	2.8	88	0.23 j	540	44	340
	5.0	01/25/06	6,300	<0.8	4.6	55	<0.2	6.0	0.06 j	1,300	15	0.21 j	5.3	33	10,000	4.7	2,200	180	0.038	<0.2	11	860	0.27 j	<0.4	69	0.11 j	260	24	27
	10.0	01/25/06	14,000	<0.8	6.7	130	0.34 j	9.7	0.12 j	2,100	42	0.13 j	17	40	23,000	5.8	6,500	830	0.035	<0.2	35	860	0.24 j	<0.4	34 j	0.12 j	450	52	44
10D-SNS11	0.0	1997	64,000	<24	27	280	1.1	5.4	<0.4	4,800	100	0.86	40	78	53,000	**35**	8,700	1,700	0.16	<4.0	110	2,700	<9.9	<2	230	5.0	NA	140	190
10D-SNS11	0.0	11/18/04	NA	NA	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10D-SNS24	0.5	07/14/03	8,600	0.55 J	3.2	63 J	0.27	<8.1	1.7	2,800	33	<2.1 r UJ	6.6	48	23,000	**40**	2,900	220	0.042	1.8	24	1,000	0.46 j	<0.56	200	<0.16	450	41	1,500 J
10D-SNS25	0.5	07/14/03	22,000	0.44 J	7.9	180 J	0.59	<7.6	1.7	3,600	66	<0.20 UJ	19	58	34,000	**33**	6,000	850	0.076	2.0	51	1,700	0.22 j	<0.53	240	0.17	770	87	1,000 J
10D-SNS26	0.5	07/14/03	17,000	0.49 J	8.7	120 J	0.47	<8.1	1.4	3,500	56	<0.21 UJ	14	45	27,000	**34**	5,300	490	0.067	<1.6	36	2,000	0.41 j	<0.56	340	0.19	740	71	980 J
10D-SNS27	0.5	07/14/03	25,000	<0.48 UJ	7.0	250 J	0.82	<9.6	1.7	4,100	87	<0.21 UJ	27	66	42,000	**51**	6,800	1,000	0.18	2.6	65	2,300	0.45 j	<0.67	220	0.20	960	110	1,100 J
10D-SNS28	0.5	07/14/03	23,000	<0.32 UJ	6.6	180 J	0.70	<6.4	**2.2**	3,700	83	<0.20 UJ	20	60	37,000	**39**	6,000	760	0.57	2.5	57	1,900	0.36 j	17	200	0.14	740	97	770 J
South Bank - Surface and Subsurface Soil Samples																													
10D-SNS12	0.0	1997	44,000	<23	<7.8	190	0.82	4.4	**4.2**	5,100	100	0.88	24	64	42,000	**92**	7,000	840	1.5	4.6	78	2,100	<9.7	29	240	<4.9	NA	120	550
10D-SNS13	0.0	1997	45,000	<24	15	210	0.87	4.6	**2.0**	5,200	85	<0.87	25	63	44,000	**66**	7,200	1,000	0.27	<4	79	2,500	<9.9	3.5	250	<4.9	NA	120	780
10D-SNS14	0.0	1997	40,000	<23	<7.7	200	0.79	5.0	**2.0**	4,400	89	<0.78	20	58	40,000	**52**	6,900	780	0.48	<3.8	70	2,000	<9.6	17	200	<4.8	NA	110	380
10D-SNS15	0.0	1997	30,000	<24	<7.9	210	0.60	12	**1.8**	4,700	81	<0.8	19	65	32,000	**130**	6,500	620	0.27	<3.9	64	2,400	<9.8	3.9	320	<4.9	NA	86	790
10D-SNS16	0.0	1997	39,000	<23	9.9	200	0.79	3.9	**2.7**	4,700	91	<0.79	23	65	40,000	**110**	6,800	860	0.61	<3.9	85	2,100	<9.7	9.9	220	<4.8	NA	110	570
10D-SNS17	0.0	1997	43,000	<24	<7.9	210	0.89	<3.9	1.6	4,800	100	<0.77	25	71	43,000	**91**	8,000	900	0.46	<3.9	85	2,600	<9.8	8.0	210	<4.9	NA	120	410
10D-AH01	1.0	1992	28,300	<5.0	9.77	175	0.64	<50	<1	2,360	74.5	NA	20.4	47.7	33,600	11.1	6,780	776	0.16	<2	71.3	2,310	<7.5	<1	174	<7.5	1,120	84.7	56.7
	5.0	1992	17,900	<5.0	<7.5	191	<0.5	<50	<1	2,210	40.7	NA	12	30.4	20,900	8.36	5,090	476	0.96	<2	32	1,610	<7.5	<1	168	<7.5	845	65.6	47.2
	10.0	1992	22,800	<5.0	<7.5	155	0.051	<50	<1	2,480	67.4	NA	14.1	38.7	29,900	9.91	5,810	373	<0.01	<2	41.6	1,280	<7.5	<1	117	<7.5	1,040	83.4	52.4
North Bank - Surface Soil Samples																													
10D-SNS18	0.0	1997	31,000	<23	<7.7	180	0.70	<3.8	0.53	4,000	75	<0.79	21	50	35,000	**37**	7,000	790	<0.097	<3.8	68	2,200	<9.6	<1.9	210	<4.8	NA	97	76
10D-SNS19	0.0	1997	29,000	<22	<7.2	140	0.53	<3.6	0.53	8,000	78	<0.81	15	47	31,000	**34**	7,600	480	<0.09	<3.6	58	1,900	<9.0	<1.8	350	<4.5	NA	92	75
10D-SNS20	0.0	1997	30,000	<23	<7.7	150	0.59	<3.9	0.60	6,700	88	<0.79	17	55	34,000	**68**	8,000	560	<0.088	<3.9	62	2,300	<9.7	<1.9	310	<4.8	NA	97	190
10D-SNS21	0.0	1997	71,000	<23	20	250	1.2	5.1	0.59	5,200	110	<0.75	27	87	57,000	**50**	3,900	940	0.25	4.1	110	2,500	<9.5	8.1	300	6.3	NA	150	120
10D-SNS21	0.0	11/18/04	NA	NA	4.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
10D-SS21	0.5	07/15/03	19,000	0.57 J	8.4 J	210	0.57	<10	**2.2**	4,200	71 J	<1.0 R	22	70	35,000	**92**	5,500	690	0.23 R	2.3	51 J	1,800	0.19 j J	1.3	280	<0.20	860	78	1,700 J
10D-SNS22	0.0	1997	26,000	<23	13	120	0.50	3.8	<0.38	5,400	67	<0.82	13	32	28,000	**26**	5,400	420	<0.098	<3.8	45	1,900	<9.6	<1.9	320	<4.8	NA	86	100
10D-SS22	0.5	07/15/03	26,000	0.52	5.8 J	230	0.83	<7.9	1.6	3,900	85 J	<1.0 R	23	66	43,000	**38**	6,300	900	0.20 R	2.2	66 J	2,200	0.18 j J	8.4	210	<0.16	880	110	1,000 J
10D-SNS23	0.0	1997	44,000	<23	15	190	0.75	4.7	0.62	8,100	91	<0.84	20	61	38,000	53	8,200	660	0.34	<3.9	72	2,900	<9.8	2.0	350	5.1	NA	110	100

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg).
Metals detected in site soils statistically above background are shaded in heading.
Metal concentrations above background and HH SSL are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface

HH SSL = Human health soil screening level
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between method detection limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference
Data Validation Qualifiers:
J = Indicates an estimated value.
R = Quality control indicates the data is not usable.

Table 4-8 *Summary of Semivolatile Organic Compounds (SVOCs) Detected in Soil Samples*
Sites 10D, Former Company Store, C32, and C41
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	bis (2-ethylhexyl) phthalate	Chrysene	Diethyl Phthalate	Fluoranthene	Phenanthrene	Pyrene
HH SSL:			**34,740**	**3,780**	**4,888,000**	**229,000**	**NE**	**231,600**
10D-SB03	1.0	07/21/03	<9.3	<11	<330	<11	<14	<12
10D-SB03 (dup)	1.0	07/21/03	<9.3	<11	<330	<11	<14	<12
10D-SB03	2.5	07/21/03	**49 j**	<11	<330	<11	<14	<12
10D-SB03	5.0	07/21/03	<9.3	<11	<330	<11	<14	<12
10D-SB03	10.0	07/21/03	<9.3	<11	<330	<11	<14	<12
FCS-SB01	2.5	07/21/03	**64 j**	<11	<330	<11	<14	<12
FCS-SB01	5.0	07/21/03	<9.3	<11	<330	<11	<14	<12
FCS-SB01	10.0	07/21/03	<9.3	<11	<330	<11	<14	<12
FCS-SB01	15.0	07/21/03	<9.3	<11	<330	<11	<14	<12
FCS-SB01	20.0	07/21/03	**31 j**	<9.3	<280	<9.7	<12	<10
C32-SNS01	0.5	07/14/03	**37 j**	**40 j**	<330	**110 j**	**170 j**	**64 j**
C32-SNS02	0.5	07/14/03	**150 j**	**37 j**	<330	**38 j**	<14	**36 j**
C41-SS01	0.5	05/12/99	<340	<340	<340	<340	<340	<340
C41-SS02	0.5	05/12/99	<340	<340	<340	<340	<340	<340
C41-SS03	0.5	05/12/99	<340	<340	<340	<340	<340	<340
C41-SS03 (dup)	0.5	05/12/99	<370	<370	<340	<370	<370	<370
C41-SS04	0.5	05/12/99	<350	<350	<350	<350	<350	<350
C41-SS05	0.5	05/12/99	<350	<350	<350	<350	<350	<350
C41-SS07	0.0	06/19/06	<600	<660	<660	<660	<660	<660
C41-SS08	0.0	06/19/06	<330	<330	**190 J**	<330	<330	<330
C41-SS16	0.0	06/19/06	<330	<330	<330	<330	<330	<330

Concentrations and units reported in micrograms per kilogram (µg/kg).
Detected concentrations are in bold.
Concentrations detected above HH SSL are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Duplicate sample
HH SSL = Human health soil screening level
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
PRG = Preliminary Remediation Goal (United States Environmental Protection Agency Region IX, November 2002)
RI/FS = Remedial Investigation/Feasibility Study
SB = Soil boring
SNS = Surface/near surface

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between method detection limit and practical quantitation limit.

Table 4-9 *Summary of Tentatively Identified Compounds (TICs) Detected in SVOC Analysis of Soil Samples*
Sites 10D, Former Company Store, and C32
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Glycerol Tricaprylate	Stigmast-4-en-3-one	Tebuthiuron	Unknown 1	Unknown 2	Unknown Aldehyde	Unknown Alkanes	Unknown Alkane (C24-C28)	Unknown Alkane (C28-C32)	Unknown Alkane (C28-C34)	Unknown Alkane (C30-C34)	Unknown Cycloalkanes	Unknown PAHs	Cyclo-octa-cosane	Hexadecanoic Acid/ Methyl Ester	Octadeconoic Acid/ Methyl Ester	Sitosterol + Unknown	Sulfur, mol. (S8)
10D-SB03	1.0	7/21/2003	No TICs detected at concentrations greater than 10 µg/kg																	
10D-SB03	2.5	7/21/2003			200				400					300						
10D-SB03	5.0	7/21/2003	No TICs detected at concentrations greater than 10 µg/kg																	
10D-SB03	10.0	7/21/2003	No TICs detected at concentrations greater than 10 µg/kg																	
FCS-SB01	2.5	7/21/2003	No TICs detected at concentrations greater than 10 µg/kg																	
FCS-SB01	5.0	7/21/2003																		100
FCS-SB01	10.0	7/21/2003	No TICs detected at concentrations greater than 10 µg/kg																	
FCS-SB01	15.0	7/21/2003	No TICs detected at concentrations greater than 10 µg/kg																	
FCS-SB01	20.0	7/21/2003	No TICs detected at concentrations greater than 9 µg/kg																	
C32-SNS01	0.5	7/14/2003	100	200		200	200			100		900	400		800					
C32-SNS02	0.5	7/14/2003				300		200		200	500		500		400	400	200	400	600	

Notes and Key:
Concentrations reported in micrograms per kilogram (µg/kg).
bgs = Below ground surface
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SB = Soil boring
SNS = Surface/near-surface
SVOC = Semivolatile organic compound
TICs = Tentatively identified compounds

Table 4-10 *Summary of Polychlorinated Biphenyl (PCB) Analysis of Soil Samples and Extract*
Sites 10D and 11D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Sample Type	Units	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
10D-SNS31	0.5	7/24/2003	Soil	µg/kg	<33	<33	<33	<33	<33	<33	**1,200**
10D-SNS31	0.5	7/24/2003	Extract	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
10D-SNS34	0.5	7/24/2003	Soil	µg/kg	<33	<33	<33	<33	<33	**500**	**520**
10D-SNS34	0.5	7/24/2003	Extract	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004

Notes and Key:
mg/L = Milligrams per liter
µg/kg = Micrograms per kilogram
Detected concentrations are in bold.
< = Less than; not detected above the noted Practical Quanitation Limit.
Concentrations above human health soil screening level are shaded.
bgs = Below ground surface
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Table 4-11 *Summary of Proposed and Actual Groundwater Sampling Activities for Sites in Areas 20 and 21*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Well Proposed for Groundwater Sampling	Groundwater Layer	Groundwater Sample Collected? (Yes / No)	Analyte(s)	Comments
10D	**Area 20 Surface Water Drainage System** Unlined ditch north of Buildings 20001 and 20002	38	B	Yes	Dissolved Metals + Hex Cr	Field filtered. DTW = 27.3 feet. TD = 70 feet.
		108	F	Yes	Dissolved Metals Hex Cr	Field filtered. DTW = 37.5 feet. TD = 245 feet.
		279	C	Yes	Dissolved Metals Hex Cr	Water orange/brown color. Samples field filtered. DTW = 51.6 feet. TD = 81.4 feet.
		3086	C	Yes	Dissolved Metals Hex Cr	Field filtered. DTW = 45.2 feet. TD = 76.2 feet
		3093	C	Yes	Dissolved Metals Hex Cr	Field filtered. DTW = 42 feet. TD = 45 feet.
		3096	C	Yes	Dissolved Metals Hex Cr	Field filtered. DTW = 43.9 feet. TD = 48 feet.
		3109	C	Yes	Dissolved Metals Hex Cr	Moderately slow recovery. Sample collected from bottom of well. DTW = 37.4 feet. TD = 39 feet.
7D	**Area 20 Surface Water Drainage System** Gunite-lined ditch north of Building 20009	Well 42	B	No	–	Dry. Unable to sample. TD = 43 feet.
		Well 507	B	Yes	Nitrates	DTW = 37.4 feet. TD = 39 feet.
Former Company Store	**Former Company Store** Freon 113 discovered during Stage 1 RI attributed to refrigeration units at Former Company Store	Well 868	Perched	Yes	VOCs SVOCs	DTW = 19.3 feet. TD = 28 feet.
		Well FCS-SVE1	B	Yes	VOCs SVOCs	DTW = 23.3 feet. TD = 41.6 feet.
		Well FCS-SVE2	B	Yes	VOCs SVOCs	DTW = 22.7 feet. TD = 41.7 feet.
C41	**Former Tank Car Loading Area** Facility used to load and unload liquid chemicals and wastes to railroad tank cars	NA	B	Yes	Perchlorate	DTW = 60 feet bgs. Screening-level groundwater samples collected at C41-SB01, C41-SS07, and C41-SB03

Notes and Key:

Bldgs = Buildings
DTW = Depth to water
Hex Cr = Hexavalent chromium
NDT = Non destructive testing
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SVOCs = Semivolatile organic compounds
TD = Total depth of well (measured)
UST = Underground storage tank
VOCs = Volatile organic compounds

List of Dissolved Metals Analyzed For:

Aluminum	Cadmium	Manganese
Antimony	Chromium	Mercury
Arsenic	Hexavalent Chromium	Molybdenum
Barium	Cobalt	Nickel
Beryllium	Copper	Selenium
Boron	Lead	Silver

Table 4-12 Summary of Metals Analysis of Soil Samples
Sites 5D, 7D, and Former Company Store
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
HH SSL:			**7,614**	**3.1**	**0.06**	**537**	**15.4**	**1,600**	**1.7**	**211**	**17**	**660**	**313**	**15**	**176**	**2.4**	**156**	**380**	**380**	**0.52**	**5.3**	**2,346**
5D-SNS07	0.5	7/15/2003	24,000	<0.48 UJ	12	180 J	0.74	<9.6	**2.2**	130	<1.0 r UJ	20	110	**92**	730	0.75	62	0.52 j	40	0.19	98	540 J
5D-SNS08	0.5	7/15/2003	19,000	<0.38	7.6	140	0.58	<7.7	0.47 j	53	<0.21	16	46	**54**	580	0.088	40	<0.77	<0.54	0.28	81	200
5D-SNS09	0.5	7/15/2003	24,000	0.4 J	9.3	240 J	0.93	<6.7	0.49 j	51	<0.20 UJ	18	48	**65**	1,000	0.083	46	0.087 j	<0.47	0.16	89	150 J
7D-SNS01	0.0	1993	8,560	<5.0	<7.5	83.5	<0.5	<50	**2.09**	61.3	NA	9.59	91.1	**125**	223	0.51	43.5	<7.5	5.06	<5	35.9	1,150
7D-SNS02	0.0	1993	8,760	<5.0	<7.5	75.5	<0.5	<50	1.09	37.1	NA	8.1	32	**50.5**	221	<0.1	33.5	<7.5	1.54	<5	48	466
7D-SNS03	0.0	1993	5,990	<5.0	12.1	50.3	<0.5	<50	1.96	68.4	NA	13.1	149	**55.7**	205	0.16	68.7	<7.5	18.8	<7.5	33.6	731
7D-SNS04	0.0	1993	6,530	<5.0	<7.5	42.7	<0.5	<50	<1	28.8	NA	6.86	23.8	**20.7**	110	<0.1	19.2	<7.5	<1	7.71	40.3	542
7D-CS01	0.0	1993	20,400	<5.0	<7.5	124	<0.5	<50	**2.56**	89.3	NA	19	119	**139**	427	**3.07**	67.4	<7.5	8.19	<7.5	76.3	765
FCS-SB01	1.0	1993	16,400	<5.0	<5	94.2	<0.5	<50	<1	22.4	NA	9.52	16.1	6.35	293	<0.1	21.9	<7.5	<1	<7.5	58.1	44.2
FCS-SB01	7.0	1993	11,500	<5.0	<5	73.1	<0.5	<50	<1	42.2	NA	6.19	25.4	5.71	250	<0.1	29.4	<7.5	<1	<7.5	47.9	35.8
FCS-SB01	14.0	1993	11,600	<5.0	<5	81.4	<0.5	<50	<1	34.7	NA	7.74	29.4	<5	283	0.154	28	<7.5	1.03	<7.5	43.5	33.9
FCS-SB01	20.0	1993	23,500	**5.05**	8.6	143	0.53	<50	<1	55.1	NA	13.7	44	10.2	568	<0.1	46.9	<7.5	1.27	<7.5	73.2	50.8
FCS-SB01	25.0	1993	15,400	<5.0	<5	107	<0.5	<50	<1	39.4	NA	8.62	33.4	7.81	349	<0.1	30.5	<7.5	<1	<7.5	62.8	43.7

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg).
Metals detected in site soils statistically above background are shaded in heading.
Metal concentrations above background and HH SSL are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
HH SSL = Human health soil screening level
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between method detection limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference

Data Validation Qualifiers:
J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 4-13 Summary of Volatile Organic Compound (VOC) Analysis of Soil Vapor Samples
Former Company Store
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Sample Date	Freon 11	Freon 113	DCM	cis-1,2-DCE	CF	1,1,1-TCA	TCE	PCE	cis-1,3-DCP	trans-1,3-DCP	CB	1,4-DCB	B	T	EB	m,p-Xylene	o-Xylene	Styrene	1,3,5-TMB	1,2,4-TMB	alpha-Chloro-toluene	Hexane	Cyclo-Hexane	Heptane	Cumene	Propyl-benzene	Acetone	CDSD	2-Propanol	2-Butanone (MEK)	Tetra-hydro-furan	4-Ethyl toluene	MTBE	Ethanol	Vinyl Chloride
PGOU SVSL:			**1,460**	**62,000**	**NE**	**74**	**0.7**	**4,600**	**1.92**	**0.64**	**0.96**	**0.96**	**124**	**0.62**	**0.5**	**800**	**2,200**	**220**	**220**	**2,200**	**12.4**	**12.4**	**0.08**	**420**	**12,400**	**420**	**800**	**300**	**6,600**	**1,460**	**19**	**10,200**	**1.98**	**220**	**14.8**	**NE**	**0.22**
FCS-SP07	5.0	07/24/03	<0.060	**28**	<0.037	<0.042	**0.085**	<0.058	**0.30**	**3.3**	<0.048	<0.048	<0.049	<0.064	<0.034	<0.040	<0.046	<0.046	<0.046	<0.045	<0.052	<0.052 UJ	<0.055	<0.037	<0.036	<0.044	<0.052	<0.052	**0.19**	<0.13	<0.10	<0.12	<0.12	<0.21	<0.15	<0.080	<0.027
FCS-SP07 (dup)	5.0	07/24/03	<0.12	**38**	<0.074	<0.084	**0.10**	<0.12	**0.34**	**4.1**	<0.096	<0.096	<0.098	<0.13	<0.068	<0.080	<0.092	<0.092	<0.092	<0.090	<0.10	<0.10 UJ	<0.11	<0.075	<0.073	<0.087	<0.10	<0.10	**0.23**	<0.26	<0.21	<0.25	<0.25	<0.42	<0.31	<0.16	<0.054
FCS-SP10	5.0	07/24/03	<0.12	**26**	<0.074	<0.084	<0.10	<0.12	<0.11	**1.7**	<0.096	<0.096	<0.098	<0.13	<0.068	<0.080	<0.092	<0.092	<0.092	<0.090	<0.10	<0.10 UJ	<0.11	<0.075	<0.073	<0.087	<0.10	<0.10	**0.49**	<0.26	<0.21	<0.25	<0.25	<0.42	<0.31	<0.16	<0.054
FCS-SP16	5.0	07/24/03	<0.024	**1.8**	<0.015	<0.017	<0.021	<0.024	<0.023	**0.62**	<0.020	<0.020	<0.020	<0.026	**0.015**	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021 UJ	<0.022	**0.022**	<0.015	<0.018	<0.021	<0.021	**0.11**	<0.054	<0.042	<0.051	<0.051	<0.085	<0.062	**0.033**	<0.011
FCS-SP16 (rep)	5.0	07/24/03	<0.024	**1.8**	<0.015	<0.017	<0.021	<0.024	<0.023	**0.63**	<0.020	<0.020	<0.020	<0.026	**0.015**	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021 UJ	<0.022	**0.022**	<0.015	<0.018	<0.021	<0.021	**0.11**	<0.054	<0.042	<0.051	<0.051	<0.085	<0.062	**0.033**	<0.011
FCS-SP01	10.0	07/07/03	<0.024	**8.2**	**0.020**	<0.017	<0.021	<0.023	<0.023	**1.4**	<0.019	<0.019	<0.020	<0.026	**0.016**	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.022	**0.016**	<0.015	<0.017	<0.021	<0.021	**0.30**	<0.053	<0.042	**0.067**	<0.050	<0.084	<0.061	<0.032	<0.011
FCS-SP02	10.0	07/07/03	<0.048	**25**	<0.029	<0.034	**0.37**	<0.046	**0.092**	**0.66**	<0.038	<0.038	<0.039	<0.051	<0.027	<0.032	<0.037	<0.037	<0.037	<0.036	<0.042	<0.042	<0.044	<0.030	<0.029	<0.035	<0.042	<0.042	<0.081	<0.10	<0.083	<0.10	<0.10	<0.17	<0.12	<0.064	<0.022
FCS-SP03	10.0	07/07/03	<0.025	**7.4**	**0.089**	<0.018	**0.099**	<0.024	<0.024	**0.04**	<0.020	<0.020	<0.020	<0.027	<0.014	<0.017	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.023	**0.024**	<0.015	<0.018	<0.022	<0.022	**0.059**	<0.056	<0.044	<0.053	<0.053	<0.088	<0.064	<0.034	<0.011
FCS-SP03	10.0	08/31/06	<0.23	**83**	<0.14	<0.16	**0.82**	<0.23	<0.22	**0.73**	<0.19	<0.19	<0.19	<0.25	<0.13	<0.16	<0.18	<0.18	<0.18	<0.18	<0.20	<0.20	<0.22	<0.15	<0.14	<0.17	<0.20	<0.20	<0.40	<0.13	<0.41	<0.12	<0.12	<0.20	<0.15	<0.32	<0.11
FCS-SP04	10.0	07/07/03	<0.048	**14**	**0.038**	<0.034	<0.041	<0.046	**0.072**	**2.4**	<0.038	<0.038	<0.039	<0.051	<0.027	<0.032	<0.037	<0.037	<0.037	<0.036	<0.042	<0.042	<0.044	<0.030	<0.029	<0.035	<0.042	<0.042	<0.081	<0.10	<0.083	<0.10	<0.10	<0.17	<0.12	<0.064	<0.022
FCS-SP05	10.0	07/07/03	<0.047	**23**	**0.052**	<0.033	**0.085**	<0.045	**0.19**	**2.0**	<0.038	<0.038	<0.038	<0.05	<0.027	<0.031	<0.036	<0.036	<0.036	<0.035	<0.041	<0.041	<0.043	<0.029	<0.029	<0.034	<0.041	<0.041	**0.084**	<0.10	<0.082	<0.098	<0.098	<0.16	<0.12	<0.063	<0.021
FCS-SP06	10.0	07/09/03	<0.47	**200**	<0.29	<0.33	<0.41	<0.45	<0.45	**1.5**	<0.38	<0.38	<0.38	<0.50	<0.27	<0.31	<0.36	<0.36	<0.36	<0.35	<0.41	<0.41 UJ	<0.43	<0.29	<0.29	<0.34	<0.41	<0.41	<0.79	<1.0	<0.82	<0.98	<0.98	<1.6	<1.2	<0.63	<0.213
FCS-SP06 (rep)	10.0	07/09/03	<0.47	**200**	<0.29	<0.33	<0.41	<0.45	<0.45	**1.5**	<0.38	<0.38	<0.38	<0.50	<0.27	<0.31	<0.36	<0.36	<0.36	<0.35	<0.41	<0.41 UJ	<0.43	<0.29	<0.29	<0.34	<0.41	<0.41	<0.79	<1.0	<0.82	<0.98	<0.98	<1.6	<1.2	<0.63	<0.213
FCS-SP06	10.0	08/31/06	<3.0	**1,400**	<1.8	<2.1	<2.6	<2.9	<2.8	<3.6	<2.4	<2.4	<2.4	<3.2	<1.7	<2.0	<2.3	<2.3	<2.3	<2.2	<2.6	<2.6	<2.7	<1.9	<1.8	<2.2	<2.6	<2.6	<5.0	<1.6	<5.2	<1.6	<1.6	<2.6	<1.9	<4.0	<1.4
FCS-SP07	10.0	07/08/03	<0.048	**18**	**0.090**	<0.034	**0.093**	<0.047	**0.12**	**1.0**	<0.039	<0.039	<0.04	<0.052	<0.028	**0.090**	<0.038	**0.080**	<0.038	<0.037	<0.042	<0.042 UJ	<0.045	**0.084**	**0.033**	**0.064 J**	<0.042	<0.042	**0.79**	<0.11	<0.085	**0.2 J**	<0.10	<0.17	<0.12	**0.14**	<0.022
FCS-SP08	10.0	07/08/03	<0.060	**30**	**0.10**	<0.042	<0.052	<0.058	<0.057	**1.1**	<0.048	<0.048	<0.049	<0.064	<0.034	<0.040	<0.046	<0.046	<0.046	<0.045	<0.052	<0.052 UJ	<0.055	<0.037	<0.036	<0.044	<0.052	<0.052	**0.16**	<0.13	<0.10	<0.12	<0.12	<0.21	<0.15	**0.086**	<0.026
FCS-SP09	10.0	07/08/03	<0.12	**50**	**0.16**	<0.084	<0.10	<0.12	<0.11	**3.3**	<0.096	<0.096	<0.098	<0.13	<0.068	<0.080	<0.092	<0.092	<0.092	<0.090	<0.10	<0.10 UJ	<0.11	<0.075	<0.073	<0.087	<0.10	<0.10	**0.21**	<0.26	<0.21	<0.25	<0.25	<0.42	<0.31	**0.16 j**	<0.055
FCS-SP10	10.0	07/08/03	<0.058	**18**	**0.40**	<0.041	<0.050	<0.056	<0.055	**1.0**	<0.046	<0.046	<0.047	<0.062	<0.033	<0.039	<0.044	<0.044	<0.044	<0.044	<0.050	<0.050 UJ	<0.053	**0.044**	<0.035	<0.042	<0.050	<0.050	**0.14**	<0.13	<0.10	<0.12	<0.12	<0.20	<0.15	**0.38**	<0.026
FCS-SP10	10.0	08/07/03	<0.23	**100**	<0.14	<0.16	<0.20	<0.23	<0.22	**7.6**	<0.19	<0.19	<0.19	<0.25	<0.13	<0.16	<0.18	<0.18	<0.18	<0.18	<0.20	<0.20 UJ	<0.22	<0.15	<0.14	<0.17	<0.20	<0.20	<0.40	<0.52	<0.41	<0.49	<0.49	<0.82	<0.60 uj, UJ	<0.31	<0.11
FCS-SP10 (dup)	10.0	08/07/03	<0.24	**100**	<0.15	<0.17	<0.21	<0.23	<0.23	**7.4**	<0.19	<0.19	<0.20	<0.26	<0.14	<0.16	<0.18	<0.18	<0.18	<0.18	<0.21 UJ	<0.21 UJ	<0.22	<0.15	<0.15	<0.17	<0.21	<0.21 UJ	<0.40	<0.53	<0.42	<0.50	<0.50	<0.84	<0.61 uj, UJ	<0.32	<0.11
FCS-SP11	10.0	07/08/03	<0.024	**1.3**	<0.015	<0.017	<0.021	<0.024	<0.023	**0.56**	<0.020	<0.020	<0.020	<0.026	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021 UJ	<0.022	<0.015	<0.015	<0.018	<0.021	<0.021	**0.35**	<0.054	<0.042	**0.083 J**	<0.051	<0.085	<0.062	**0.050**	<0.011
FCS-SP12	10.0	07/09/03	<0.024	**5.5**	<0.015	<0.017	**0.024**	<0.023	<0.023	**0.48**	<0.019	<0.019	<0.020	<0.026	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.022	<0.015	<0.015	<0.017	<0.021	<0.021	**0.20**	<0.053	<0.042	<0.050	<0.050	<0.084	<0.061	**0.072**	<0.011
FCS-SP13	10.0	07/09/03	<0.024	**1.0**	<0.015	<0.017	<0.021	<0.024	<0.023	**0.70**	<0.020	<0.020	<0.020	<0.026	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.022	<0.015	<0.015	<0.018	<0.021	<0.021	**0.074**	<0.054	<0.042	<0.051	<0.051	<0.085	<0.062	<0.033	<0.011
FCS-SP14	10.0	07/09/03	<0.048	**22**	<0.030	<0.034	<0.042	<0.047	<0.046	**2.2**	<0.039	<0.039	<0.04	<0.052	<0.028	<0.032	<0.038	<0.038	<0.038	<0.037	<0.042	<0.042	<0.045	<0.030	<0.030	<0.035	<0.042	<0.042	**0.33**	<0.11	<0.085	<0.10	<0.10	<0.17	<0.12	**0.13**	<0.022
FCS-SP14 (rep)	10.0	07/09/03	<0.048	**21**	<0.030	<0.034	<0.042	<0.047	<0.046	**2.1**	<0.039	<0.039	<0.04	<0.052	<0.028	<0.032	<0.038	<0.038	<0.038	<0.037	<0.042	<0.042	<0.045	<0.030	<0.030	<0.035	<0.042	<0.042	**0.31**	<0.11	<0.085	<0.10	<0.10	<0.17	<0.12	**0.13**	<0.022
FCS-SP15	10.0	07/07/03	<0.024	**0.038**	**0.061**	**0.14**	**0.10**	<0.023	**0.050**	**0.062**	<0.019	<0.019	<0.020	<0.026	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.022	**0.015**	<0.015	<0.017	<0.021	<0.021	**0.17**	<0.053	<0.042	<0.050	<0.050	<0.084	<0.061	<0.032	<0.011
FCS-SP16	10.0	07/08/03	<0.023	**2.4**	<0.014	<0.016	<0.020	<0.023	<0.022	**1.1**	<0.019	<0.019	<0.019	<0.025	<0.013	<0.016	<0.018	<0.018	<0.018	<0.018	<0.020	<0.020 UJ	<0.022	<0.015	<0.014	<0.017	<0.020	<0.020	**0.054**	<0.052	<0.041	<0.049	<0.049	<0.082	<0.060	<0.031	<0.011
FCS-SP16	10.0	08/31/06	<0.0065	**1.9**	<0.004	<0.0046	**0.062**	**0.0074**	**0.034**	**0.45**	<0.0053	<0.0053	**0.068**	**0.0092**	**0.028**	**0.011**	**0.0058**	**0.0097**	**0.086**	**0.014**	<0.0057	<0.0057	<0.006	<0.0041	**0.015**	<0.0048	<0.0057	**0.0069**	**0.039**	**0.0042**	<0.011	**0.034**	<0.0034	<0.0057	<0.0042	**0.0096**	<0.003
FCS-SP16 (dup)	10.0	08/31/06	<0.0065	**2.0**	<0.004	<0.0046	**0.064**	**0.0078**	**0.034**	**0.45**	<0.0053	<0.0053	**0.067**	**0.010**	**0.029**	**0.010**	**0.006**	**0.011**	**0.089**	**0.014**	<0.0057	<0.0057	<0.006	<0.0041	**0.014**	<0.0048	<0.0057	**0.0076**	**0.042**	**0.0042**	<0.011	**0.032**	<0.0034	<0.0057	<0.0042	**0.010**	<0.003
FCS-SP17	10.0	07/08/03	<0.024	**3.7**	**0.023**	<0.017	**0.92**	<0.024	**0.036**	**0.83**	<0.020	<0.020	<0.020	<0.026	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021 UJ	<0.022	<0.015	<0.015	<0.018	<0.021	<0.021	**0.23**	<0.054	<0.042	**0.075 J**	**0.070**	<0.085	<0.062	**0.063**	<0.011
FCS-SP01	20.0	07/07/03	<0.024	**9.2**	**0.032**	<0.017	<0.021	**0.024**	<0.023	**1.5**	<0.019	<0.019	<0.020	<0.026	**0.019**	**0.027**	<0.018	**0.021**	<0.018	<0.018	<0.021	**0.032**	<0.022	**0.039**	<0.015	<0.017	<0.021	<0.021	**2.3**	<0.053	<0.042	**0.50**	<0.050	<0.084	<0.061	<0.032	<0.011
FCS-SP03	20.0	07/07/03	<0.15	**68**	<0.094	<0.11	**0.59**	<0.15	<0.14	**0.44**	<0.12	<0.12	<0.12	<0.16	<0.086	<0.10	<0.12	<0.12	<0.12	<0.12	<0.13	<0.13	<0.14	<0.095	<0.093	<0.11	<0.13	<0.13	<0.26	<0.34	<0.26	<0.32	<0.32	<0.53	<0.39	<0.20	<0.069
FCS-SP04	20.0	07/07/03	<0.024	**0.21**	**0.032**	<0.017	<0.021	<0.024	<0.023	<0.029	<0.020	<0.020	<0.020	<0.026	**0.043**	**0.28**	**0.081**	**0.34**	**0.15**	<0.018	**0.058**	**0.20**	<0.022	**0.14**	**0.093**	**0.14**	<0.021	**0.033**	**2.4**	<0.054	**0.066**	**0.57**	<0.051	**0.22**	**0.064**	**0.060**	<0.011
FCS-SP05	20.0	07/07/03	<0.048	**20**	<0.030	**0.035**	**0.13**	**0.048**	**0.050**	**0.13**	<0.039	<0.039	<0.04	<0.052	<0.028	<0.032	<0.038	<0.038	<0.038	<0.037	<0.042	<0.042	<0.045	<0.030	<0.030	<0.035	<0.042	<0.042	**0.17**	<0.11	<0.085	<0.10	<0.10	<0.17	<0.12	<0.065	<0.022
FCS-SP05 (rep)	20.0	07/07/03	<0.048	**18**	**0.038**	<0.034	**0.11**	<0.047	<0.046	**0.11**	<0.039	<0.039	<0.04	<0.052	<0.028	<0.032	<0.038	<0.038	<0.038	<0.037	<0.042	<0.042	<0.045	<0.030	<0.030	<0.035	<0.042	<0.042	**0.15**	<0.11	<0.085	<0.10	<0.10	<0.17	<0.12	<0.065	<0.022
FCS-SP05 (dup)	20.0	07/07/03	<0.061	**26**	**0.038**	**0.043**	**0.17**	**0.058 j**	**0.068**	**0.19**	<0.049	<0.049	<0.05	<0.065	<0.034	<0.041	<0.047	<0.047	<0.047	<0.046	<0.053	<0.053	<0.056	<0.038	<0.037	<0.044	<0.053	<0.053	**0.17**	<0.13	<0.11	<0.13	<0.13	<0.21	<0.16	<0.082	<0.028
FCS-SP06	20.0	07/09/03	<0.060	**26**	<0.037	<0.042	**0.19**	**0.058**	**0.20**	**2.5**	<0.048	<0.048	<0.049	<0.064	<0.034	<0.040	<0.046	<0.046	<0.046	<0.045	<0.052	<0.052 UJ	<0.055	**0.037**	<0.036	<0.044	<0.052	<0.052	**0.34**	<0.13	<0.10	<0.12	<0.12	<0.21	<0.15	**0.079 j**	<0.027
FCS-SP06	20.0	08/31/06	<0.72	**280**	<0.45	<0.51	<0.63	<0.70	<0.69	<0.88	<0.58	<0.58	<0.59	<0.78	<0.41	<0.49	<0.56	<0.56	<0.56	<0.55	<0.63	<0.63	<0.67	<0.45	<0.44	<0.53	<0.63	<0.63	<1.2	<0.40	<1.3	<0.38	<0.38	<0.63	<0.46	<0.97	<0.33
FCS-SP06 (dup)	20.0	08/31/06	<2.7	**1,000**	<1.7	<1.9	<2.4	<2.6	<2.6	<3.3	<2.2	<2.2	<2.2	<2.9	<1.5	<1.8	<2.1	<2.1	<2.1	<2.1	<2.4	<2.4	<2.5	<1.7	<1.7	<2.0	<2.4	<2.4	<4.6	<1.5	<4.8	<1.4	<1.4	<2.4	<1.7	<3.6	<1.2
FCS-SP07	20.0	07/08/03	<0.049	**15**	**0.17**	<0.035	**0.051**	<0.048	**0.12**	**1.1**	**0.041**	**0.075**	<0.04	<0.053	**0.032**	**0.045**	<0.038	<0.038	<0.038	**0.059**	<0.043	<0.043 UJ	**0.11**	**0.066**	<0.030	**0.049 J**	**0.14**	**0.13**	**0.29**	**0.13**	<0.086	<0.10	<0.10	**0.19 J**	<0.13	**0.13**	<0.022
FCS-SP07	20.0	08/31/06	<0.043	**19**	<0.027	<0.030	**0.20**	<0.042	**0.20**	**1.7**	<0.035	<0.035	**0.080**	<0.046	**0.043**	<0.029	<0.033	<0.033	0.096	<0.033	<0.038	<0.038	<0.040	<0.027	<0.026	<0.032	<0.038	<0.038	<0.073	<0.024	<0.076	**0.033**	<0.023	<0.038	<0.028	<0.058	<0.020
FCS-SP08	20.0	07/08/03	<0.060	**26**	<0.037	<0.042	<0.052	<0.058	<0.057	**1.4**	<0.048	<0.048	<0.049	<0.064	<0.034	<0.040	<0.046	<0.046	<0.046	<0.045	<0.052	<0.052 UJ	<0.055	<0.037	<0.036	<0.044	<0.052	<0.052	<0.10	<0.13	<0.10	<0.12	<0.12	<0.21	<0.15	<0.080	<0.026
FCS-SP09	20.0	07/08/03	<0.024	**8.4**	**0.036**	<0.017	<0.021	<0.024	<0.023	**0.32**	<0.020	<0.020	<0.020	<0.026	**0.017**	**0.067**	<0.019	**0.032**	<0.019	<0.018	<0.021	<0.021 UJ	<0.022	**0.079**	**0.063**	**0.05 J**	<0.021	<0.021	**0.23**	<0.054	<0.042	<0.051	<0.051	<0.085	<0.062	**0.039**	<0.011
FCS-SP10	20.0	07/08/03	<0.24	**110**	**0.63**	<0.17	<0.21	<0.23	<0.23	**5.6**	<0.19	<0.19	<0.20	<0.26	<0.14	<0.16	<0.18	<0.18	<0.18	<0.18	<0.21	<0.21 UJ	<0.22	<0.15	<0.15	<0.17	<0.21	<0.21	<0.40	<0.53	<0.42	<0.50	<0.50	<0.84	<0.61	**0.34**	<0.11
FCS-SP10 (rep)	20.0	07/08/03	<0.24	**120**	**0.28**	<0.17	<0.21	<0.23	<0.23	**5.8**	<0.19	<0.19	<0.20	<0.26	<0.14	<0.16	<0.18	<0.18	<0.18	<0.18	<0.21	<0.21 UJ	<0.22	<0.15	<0.15	<0.17	<0.21	<0.21	<0.40	<0.53	<0.42	<0.50	<0.50	<0.84	<0.61	<0.32	<0.11
FCS-SP10 (dup)	20.0	07/08/03	<0.24	**110**	**0.43**	<0.17	<0.21	<0.23	<0.23	**5.4**	<0.19	<0.19	<0.20	<0.26	<0.14	<0.16	<0.18	<0.18	<0.18	<0.18	<0.21	<0.21 UJ	<0.22	<0.15	<0.15	<0.17	<0.21	<0.21	<0.40	<0.53	<0.42	<0.50	<0.50	<0.84	<0.61	**0.38**	<0.109
FCS-SP11	20.0	07/08/03	<0.024	**1.6**	<0.015	<0.017	<0.021	<0.024	<0.023	**0.84**	<0.020	<0.020	<0.020	<0.026	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021 UJ	<0.022	<0.015	<0.015	<0.018	<0.021	<0.021	**0.29**	<0.054	<0.042	**0.066 J**	<0.051	<0.085	<0.062	**0.040**	<0.011
FCS-SP12	20.0	07/09/03	<0.023	**2.0**	<0.014	<0.016	<0.020	<0.023	<0.022	**0.39**	<0.019	<0.019	<0.019	<0.025	**0.018**	**0.085**	**0.021**	**0.090**	**0.040**	<0.018	<0.020	**0.043**	<0.022	**0.044**	**0.033**	**0.049**	<0.020	<0.020	**0.90**	<0.052	<0.041	**0.19**	<0.049	<0.082	<0.060	**0.12**	<0.011
FCS-SP13	20.0	07/09/03	<0.024	**1.4**	<0.015	<0.017	<0.021	<0.024	<0.023	**0.66**	<0.020	<0.020	<0.020	<0.026	**0.014 j**	**0.024**	<0.019	**0.021**	<0.019	<0.018	<0.021	**0.024**	<0.022	**0.021**	<0.015	**0.024**	<0.021	<0.021	**0.22**	<0.054	<0.042	**0.067**	<0.051	<0.085	<0.062	**0.043**	<0.011
FCS-SP15	20.0	07/07/03	<0.024	<0.032	**0.032**	**0.080**	**0.068**	<0.023	<0.023	<0.029	<0.019	<0.019	<0.020	<0.026	**0.018**	**0.14**	**0.041**	**0.17**	**0.076**	<0.018	**0.030**	**0.10**	<0.022	**0.076**	**0.071**	**0.060**	<0.021	<0.021	**0.65**	<0.053	<0.042	**0.14**	<0.050	**0.11**	<0.061	<0.032	<0.011
FCS-SP16	20.0	07/08/03	<0.023	5.8	<0.014	<0.016	<0.020	<0.023	**0.046**	**1.2**	<0.019	<0.019	<0.019	<0.025	<0.013	<0.016	<0.018	<0.018	<0.018	<0.018	<0.020	<0.020 UJ	<0.022	**0.017**	<0.014	<0.017	<0.020	<0.020	**0.20**	<0.052	<0.041	**0.057 J**	<0.049	<0.082	<0.060	**0.060**	<0.011
FCS-SP16	20.0	08/31/06	<0.0074	**2.3**	<0.0046	<0.0052	**0.048**	**0.0085**	**0.031**	**0.42**	<0.006	<0.006	**0.046**	<0.0079	**0.016**	**0.0097**	**0.0071**	**0.021**	**0.066**	**0.011**	<0.0065	<0.0065	<0.0068	<0.0046	**0.012**	<0.0054	<0.0065	<0.0065	**0.029**	<0.0041	<0.013	**0.022**	<0.0039	<0.0065	<0.0048	**0.011**	<0.0034
FCS-SP17	20.0	07/08/03	<0.024	**3.6**	<0.015	<0.017	**0.21**	<0.023	**0.026**	**0.92**	<0.019	<0.019	<0.020	<0.026	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021 UJ	<0.022	<0.015	<0.015	<0.017	<0.021	<0.021	**0.15**	<0.053	<0.042	<0.050	<0.050	<0.084	<0.061	**0.036**	<0.011
FCS-SVE1	NA	07/09/03	<0.15	**67**	<0.092	<0.10	**0.43**	<0.14	<0.14	**1.1**	<0.12	<0.12	<0.12	<0.16	<0.085	<0.10	<0.12	<0.12	<0.12	<0.11	<0.13	<0.13 UJ	<0.14	<0.093	<0.091	<0.11	<0.13	<0.13	<0.25	<0.33	<0.26	<0.31	<0.31	<0.52	<0.38	<0.20	<0.068
FCS-SVE2	NA	07/09/03	<0.078	**35**	<0.048	<0.055	**0.71**	<0.076	<0.074	**0.36**	<0.063	<0.063	<0.064	<0.083	<0.044	<0.052	<0.060	<0.060	<0.060	<0.059	<0.068	<0.068 UJ	<0.072	<0.049	<0.048	<0.057	<0.068	<0.068	<0.13	<0.17	<0.14	<0.16	<0.16	<0.27	<0.20	<0.10	<0.035

Notes and Key:

Concentrations reported in milligrams per cubic meter (mg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
Concentrations above soil vapor screening level highlighted by shading.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Field duplicate sample
NA = Not applicable
rep = Laboratory replicate sample
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

B = Benzene
CB = Chlorobenzene
CDSD = Carbon Disulfide
CE = Chloroethane
CF = Chloroform
CM = Chloromethane
DCA = Dichloroethane
DCB = Dichlorobenzene
DCE = Dichloroethylene
DCM = Dichloromethane
DCP = Dichloropropene
EB = Ethylbenzene
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary butyl ether
PCE = Tetrachloroethane
T = Toluene
TCA = Trichloroethane
TCE = Trichloroethene
TMB = Trimethylbenzene

Laboratory Qualifiers:

uj = Non detected compound associated with low bias in the continuing calibration verification.

Data Validation Qualifiers:

J = Indicates an estimated value.
U = Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 4-14 Summary of Proposed and Actual Subsurface Soil Sampling Activities for Sites in Areas 20 and 21
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Number of Proposed Sampling Locations	Proposed Sample Depths	Proposed Number of Samples	Proposed Analyte(s)	Rationale	Boring ID	Number of Samples Collected	Sample Depths (ft bgs)	Analyte(s)	Comments
10D	**Area 20 Surface Water Drainage System** Unlined ditch north of Buildings 20001 and 20002	1	1, 2.5, 5, and 10	4	SVOCs	Confirm presence of absence of TICs detected in samples from Stage 1 RI boring 10D-AH01.	10D-SB03	4	1, 2.5, 5, 10	SVOCs	Total depth of boring = 10 ft bgs. No groundwater encountered.
Former Company Store	**Former Company Store** Freon 113 discovered during Stage 1 RI attributed to refrigeration units at Former Company Store	1	2.5 feet and 5-foot intervals to first groundwater	6*	SVOCs	Confirm presence or absence of TICs detected in Stage 1 RI boring FCS-SB01.	FCS-SB01	5	2.5, 5, 10, 15, 20	SVOCs	Total depth of boring = 25 ft. Depth to groundwater = 23.9 ft bgs.

Notes and Key:
* = Assumed depth to groundwater is 25 feet
** = Assumed depth to water is 45 feet bgs.
Bldgs = Buildings
ft bgs = Feet below ground surface
ID = Identification
NDT = Non-destructive testing
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SVOCs = Semivolatile organic compounds
TICs = Tentatively identified compounds
TPH = Total petroleum hydrocarbons
UST = Underground storage tank
VOCs = Volatile organic compounds

Table 4-15 *Summary of Volatile Organic Compound (VOC) Analysis of Perched Groundwater Samples - Former Company Store RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Identification	Sample Date	1,1,1-TCA	1,1-DCA	1,2-DCE (cis/trans)	CF	Freon 113	PCE	TCE
868	7/17/2003	<0.50	<0.50	**1.2**	**2.2**	**1.1**	**4.9**	<0.50

Notes and Key:

Concentrations reported in micrograms per liter (µg/L).

< = Less than; not detected above the noted Practical Quanitation Limit.

CF = Chloroform

DCA = Dichloroethane

DCE = Dichloroethene

E = Analyte exceeds calibration range.

PCE = Tetrachloroethene

PGOU = Perimeter Groundwater Operable Unit

RI/FS = Remedial Investigation/Feasibility Study

TCA = Trichloroethane

TCE = Trichloroethylene

Table 4-16 Summary of Semivolatile Organic Compound (SVOC) Analysis of Perched Groundwater Samples - Former Company Store
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Date	1,4-DIOX	1-Methyl-2-Pyrroli-dinone	N-NSM	ANI	Phen	2-CP	B(2-CE)E	1,3-DCB	1,4-DCB	BenAlc	1,2-DCB	2-MP	B(2-CIP)E	4-MP	HCE	N-N-P	ISO	NC2BZ	2-NP	2,4-DMP	2,4-DCP	b(2-CEO)M	Ben Acid	1,2,4-TCB
868	7/17/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0

Sample Identification	Sample Date	NAP	4-CA	HCBU	p-Chlorop m-cresol	2-MN	HCCP	2,4,6-TCP	2,4,5-TCP	2-CN	2-NA	ACNL	DMP	2,6-DNT	3-NA	ACNE	2,4-DNP	DBF	4-NP	2,4-DNT	FLOR	DEP	4-CPPE	4-NA	N-Butyl-benzene-sulfonamide
868	7/17/2003	<5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<25	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0

Sample Identification	Sample Date	4,6-D-2-MP	N-NSP	1,2-DPHZ/AZO	4-BPE	HCB	PCP	PA	ANT	DNBP	FA	BENZ	PYR	BBP	CHRY	3,3'-DCB	B(a)A	B(2-EH)P	DNOP	B(b)F	B(k)F	B(a)P	I(123cd)P	D(ah)A	B(ghi)P
868	7/17/2003	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Notes and Key:
Concentrations reported in micrograms per liter (µg/L).
< = Less than; not detected above the noted Practical Quanitation Limit.
NA = Not analyzed
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Qualifier:
J = Estimated concentration.

Semivolatile Organic Compounds

Abbreviation	Compound	Abbreviation	Compound	Abbreviation	Compound	Abbreviation	Compound
1,2,4-TCB	1,2,4-Trichlorobenzene	2-NP	2-Nitrophenol	B(b)F	Benzo(b)fluoranthene	FA	Fluoranthene
1,2-DCB	1,2-Dichlorobenzene	3,3-DCB	3,3'-Dichlorobenzidine	B(ghi)P	Benzo(ghi)perylene	FLOR	Fluorene
1,2-DPHZ/AZO	1,2-Diphenylhydrazine/Azobenzene	3-NA	3-Nitroaniline	B(k)F	Benzo(k)fluoranthene	HCB	Hexachlorobenzene
1,3-DCB	1,3-Dichlorobenzene	4,6-D-2-MP	4,6-Dinitro-2-methylphenol	BenAcid	Benzoic acid	HCBU	Hexachlorobutadiene
1,4-DCB	1,4-Dichlorobenzene	4-BPE	4-Bromophenyl phenyl ether	BenAlc	Benzyl alcohol	HCCP	Hexachlorocyclopentadiene
1,4-DIOX	1,4-Dioxane	4-CA	4-Chloroaniline	b(2-CEO)M	Bis(2-chloroethoxy)methane	HCE	Hexachloroethane
2,4,5-TCP	2,4,5-Trichlorophenol	4-CPPE	4-Chlorophenyl phenyl ether	B(2-CE)E	Bis(2-chloroethyl)ether	I(123cd)P	Indeno(1,2,3-cd)pyrene
2,4,6-TCP	2,4,6-Trichlorophenol	4-MP	4-Methylphenol	B(2-CIP)E	Bis(2-chloroisopropyl)ether	ISO	Isophorone
2,4-DCP	2,4-Dichlorophenol	4-NA	4-Nitroaniline	B(2-EH)P	Bis(2-ethylhexyl)phthalate (BEHP)	NAP	Naphthalene
2,4-DMP	2,4-Dimethylphenol	4-NP	4-Nitrophenol	BBP	Butyl benzyl phthalate	NO2BZ	Nitrobenzene
2,4-DNP	2,4-Dinitrophenol	ACNE	Acenaphthene	CHRY	Chrysene	N-NSM	N-Nitrosodimethylamine
2,4-DNT	2,4-Dinitrotoluene	ACNL	Acenaphthylene	D(ah)A	Dibenzo(a,h)anthracene	N-NSP	N-Nitrosodiphenylamine
2,6-DNT	2,6-Dinitrotoluene	ANI	Aniline	DBF	Dibenzofuran	N-N-P	N-Nitrosodi-n-propylamine
2-CN	2-Chloronaphthalene	ANT	Anthracene	DEP	Diethyl phthalate	PCP	Pentachlorophenol
2-CP	2-Chlorophenol	BENZ	Benzidine	DMP	Dimethyl phthalate	PA	Phenanthrene
2-MN	2-Methylnaphthalene	B(a)A	Benzo(a)anthracene	DNBP	Di-n-butyl phthalate	Phen	Phenol
2-MP	2-Methylphenol	B(a)P	Benzo(a)pyrene	DNOP	Di-n-octyl phthalate	PYR	Pyrene
2-NA	2-Nitroaniline						

Table 4-17 ***Summary of Volatile Organic Compound (VOC) Analysis of Soil Vapor Samples***
Sites D(e), C29, C32, C41, and GET D
RI/FS for P GOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Sample Date	Freon 11	Freon 12	CB	1,4-DCB	4-M-2-P	Freon 113	DCM	cis-1,2-DCE	CF	1,1,1-TCA	TCE	PCE	cis-1,3-DCP	trans-1,3-DCP	B	T	EB	m,p-Xylene	o-Xylene	Styrene	1,3,5-TMB	1,2,4-TMB	alpha-Chloro-toluene	Hexane	Cyclo-Hexane	Heptane	Cumene	Propyl-benzene	Acetone	CDSD	2-Propanol	2-Butanone (MEK)	Tetra-hydro-furan	4-Ethyl toluene	MTBE	Ethanol	Vinyl Chloride
PGOU SVSL:			**1,460**	NE	**124**	NE	NE	**62,000**	NE	**74**	**0.7**	**4,600**	**1.92**	**0.64**	**0.96**	**0.96**	**0.5**	**800**	**2,200**	**220**	**220**	**2,200**	**12.4**	**12.4**	**0.08**	**420**	**12,400**	**420**	**800**	**300**	**6,600**	**1,460**	**19**	**10,200**	**1.98**	**220**	**14.8**	NE	**0.22**
C29-SV01*	5.0	1999	<0.096	<0.079	<0.073	<0.1	<0.17	<0.130	<0.059	<0.067	<0.083	<0.092	<0.091	<0.115	<0.077	<0.077	**0.067**	**0.490**	**0.104**	**0.434**	**0.139**	<0.072	<0.084	**0.118**	NA	<0.148	<0.141	<0.172	NA	NA	**0.380**	<0.131	<0.103	<0.124	<0.124	<0.206	<0.151	**0.083**	<0.043
C29-SV02*	4.0	1999	<0.090	<0.079	<0.073	<0.1	<0.17	<0.125	<0.056	<0.063	<0.078	<0.087	<0.086	<0.109	<0.073	<0.073	<0.051	**0.106**	<0.070	<0.070	<0.070	<0.068	<0.079	<0.079	NA	<0.145	<0.141	<0.168	NA	NA	**0.171**	<0.128	<0.101	<0.121	<0.121	<0.202	<0.148	**0.126**	<0.041
D(e) - C32-SV01*	5.0	1999	<0.730	<0.64	<0.6	<0.78	<1.31	<0.996	<0.452	<0.515	<0.635	<0.709	<0.699	<0.882	<0.590	<0.590	<0.415	<0.490	<0.564	<0.565	<0.565	<0.554	<0.639	<0.639	NA	<1.13	<1.08	<1.31	NA	NA	<0.760	<0.997	<0.786	<0.944	<0.944	<1.57	<1.15	<0.603	<0.332
D(e) - C32-SV01 (dup)*	5.0	1999	<0.730	<0.64	<0.6	<0.78	<1.31	<0.996	<0.452	<0.515	<0.635	<0.709	<0.699	<0.882	<0.590	<0.590	<0.415	<0.490	<0.564	<0.565	<0.565	<0.554	<0.639	<0.639	NA	<1.13	<1.08	<1.31	NA	NA	<0.760	<0.997	<0.786	<0.944	<0.944	<1.57	<1.15	<0.603	<0.332
C32-SV02*	10.0	1999	<0.090	<0.079	<0.073	<0.1	<0.17	<0.125	<0.123	<0.063	<0.078	<0.087	<0.086	<0.109	<0.073	<0.073	**0.064**	<0.060	<0.070	<0.070	<0.070	<0.068	<0.079	<0.079	NA	<0.145	<0.141	<0.168	NA	NA	<0.097	<0.128	<0.101	<0.121	<0.121	<0.202	<0.148	<0.077	<0.041
C32-SV02	10.0	09/01/06	<0.0078	<0.0068	**0.042**	<0.0083	<0.0056	<0.010	<0.0048	<0.0055	<0.0067	<0.0075	**0.011**	<0.0094	<0.0063	<0.0063	**0.064**	**0.019**	**0.0099**	**0.033**	**0.073**	**0.0074**	<0.0068	**0.014**	<0.0071	<0.0049	**0.058**	<0.0056	<0.0068	<0.0068	**0.060**	**0.016**	<0.014	**0.032**	<0.0041	**0.0086**	<0.0050	**0.011**	<0.0035
C32-SV02 (dup)	10.0	09/01/06	<0.0078	<0.0068	**0.040**	<0.0083	<0.0056	<0.010	<0.0048	<0.0055	<0.0067	<0.0075	**0.011**	<0.0094	<0.0063	<0.0063	**0.062**	**0.019**	**0.011**	**0.035**	**0.072**	**0.0087**	<0.0068	**0.014**	<0.0071	<0.0049	**0.058**	<0.0056	<0.0068	<0.0068	**0.058**	**0.015**	<0.014	**0.031**	<0.0041	**0.0087**	<0.0050	<0.010	<0.0035
C32-SV02	20.0	07/23/03	<0.048	<0.042	<0.039	<0.051	<0.14	<0.065	<0.029	<0.034	<0.041	<0.046	<0.046	<0.058	<0.038	<0.038	**0.036**	<0.032	<0.037	<0.037	<0.037	<0.036	<0.042	<0.042	<0.044	**0.099**	<0.029	**0.088**	<0.042	<0.042	**2.6**	<0.10	<0.083	**0.48**	<0.10	<0.17	<0.12	**0.15**	<0.022
C32-SV02 (dup)	20.0	07/23/03	<0.051	<0.045	<0.042	<0.055	<0.15	<0.070	<0.032	<0.036	<0.045	<0.050	<0.049	<0.062	<0.042	<0.042	<0.029	<0.034	<0.040	<0.040	<0.040	<0.039	<0.045	<0.045	<0.047	**0.042**	<0.031	**0.057**	<0.045	<0.045	**1.6**	<0.11	<0.090	**0.34**	<0.11	<0.18	<0.13	**0.13**	<0.023
C32-SV02	20.0	09/01/06	<0.0062	0.030	**0.040**	**0.0072**	**0.0079**	**0.029**	<0.0038	<0.0044	<0.0054	<0.006	**0.0075**	<0.0075	<0.005	<0.005	**0.039**	**0.047**	**0.017**	**0.052**	**0.071**	**0.011**	**0.0056**	**0.0096**	<0.0057	**0.020**	0.049	**0.0085**	<0.0054	**0.0071**	**0.097**	**0.032**	<0.011	**0.046**	<0.0032	**0.0097**	<0.0040	**0.017**	<0.0028
C32-SV03	10.0	07/23/03	<0.026	<0.022	<0.021	<0.027	<0.075	<0.035	<0.016	<0.018	<0.022	<0.025	<0.024	<0.031	<0.021	<0.021	**0.038**	**0.033**	<0.020	<0.020	<0.020	<0.019	<0.022	<0.022	<0.024	**0.062**	<0.016	**0.048**	<0.022	<0.022	**0.82**	<0.057	<0.045	**0.15**	<0.054	<0.090	<0.066	**0.16**	<0.012
C32-SV04	10.0	07/23/03	<0.023	<0.021	<0.019	<0.025	<0.068	<0.032	<0.014	<0.016	<0.020	<0.023	<0.022	<0.028	<0.019	<0.019	<0.013	<0.016	<0.018	<0.018	<0.018	<0.018	<0.020	<0.020	<0.022	<0.015	<0.014	<0.017	<0.020	<0.020	**0.11 U**	<0.052	<0.041	<0.049	<0.049	<0.082	<0.060	<0.031	<0.011
C32-SV05	10.0	07/23/03	<0.026	<0.022	<0.021	<0.027	<0.075	<0.035	<0.016	<0.018	<0.022	<0.025	<0.024	<0.031	<0.021	<0.021	**0.016**	<0.017	<0.020	<0.020	<0.020	<0.019	<0.022	<0.022	<0.024	**0.042**	<0.016	**0.020**	<0.022	<0.022	**0.48**	<0.057	<0.045	**0.086**	<0.054	<0.090	<0.066	**0.062**	<0.012
D(e)-SP05	10.0	07/22/03	<0.024	<0.021	<0.020	<0.026	<0.071	<0.033	<0.015	<0.017	<0.021	<0.024	<0.023	<0.029	<0.020	<0.020	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.022	<0.015	<0.015	<0.018	<0.021	<0.021	**0.31 U**	<0.054	<0.042	**0.094 J**	<0.051	<0.085	<0.062	**0.057 J**	<0.011
D(e)-SP06	9.0	07/22/03	<0.025	<0.022	<0.020	<0.027	<0.073	<0.034	<0.016	<0.018	<0.022	<0.024	<0.024	<0.030	<0.020	<0.020	<0.014	**0.023**	<0.019	**0.028**	**0.024**	<0.019	<0.022	<0.022	<0.023	**0.017**	<0.015	**0.024 J**	<0.022	<0.022	**1.4**	<0.056	**0.043 j**	**0.30 J**	<0.053	<0.088	<0.064	**0.20 J**	<0.011
D(e)-SP06 (rep)	9.0	07/22/03	<0.025	<0.022	<0.020	<0.027	<0.073	<0.034	<0.016	<0.018	<0.022	<0.024	<0.024	<0.030	<0.020	<0.020	<0.014	**0.028**	<0.019	**0.031**	**0.027**	<0.019	<0.022	**0.029**	<0.023	**0.017**	<0.015	**0.022 J**	<0.022	<0.022	**1.6**	<0.056	**0.052**	**0.34 J**	<0.053	<0.088	<0.064	**0.16 J**	<0.011
D(e)-SP07	10.0	07/23/03	<0.023	<0.020	<0.019	<0.025	<0.067	<0.031	<0.014	<0.016	<0.020	<0.022	<0.022	<0.028	<0.019	<0.019	**0.014**	<0.015	<0.018	<0.018	<0.018	<0.017	<0.020	<0.020	<0.021	<0.014	<0.014	<0.017	<0.020	<0.020	**0.48**	<0.051	<0.040	**0.056**	<0.048	<0.081	<0.059	**0.046**	<0.010
C41-SV01	4.0	1999	<0.090	<0.019	<0.018	<0.024	<0.07	<0.125	<0.139	<0.063	<0.078	<0.087	<0.086	<0.109	<0.073	<0.073	<0.051	<0.060	<0.070	<0.070	<0.070	<0.068	<0.079	<0.079	NA	<0.141	<0.138	<0.164	NA	NA	**0.105**	<0.125	<0.098	<0.118	<0.118	<0.197	<0.144	<0.075	<0.041
C41-SV02	3.6	1999	<0.090	<0.02	<0.019	<0.025	<0.07	<0.125	<0.123	<0.063	<0.078	<0.087	<0.086	<0.109	<0.073	<0.073	<0.051	**0.181**	<0.070	**0.217**	**0.074**	<0.068	<0.079	**0.088**	NA	<0.145	<0.141	<0.168	NA	NA	**0.333**	<0.128	<0.101	**0.124**	<0.121	<0.202	<0.148	<0.077	<0.041
C41-SV03	5.0	1999	<0.090	<0.019	<0.018	<0.024	<0.07	<0.125	<0.139	<0.063	<0.078	<0.087	<0.086	<0.109	<0.073	<0.073	**0.083**	**0.188**	<0.070	**0.156**	<0.070	<0.068	<0.079	<0.079	NA	**0.162**	<0.138	<0.164	NA	NA	**0.238**	<0.125	<0.098	<0.118	<0.118	<0.197	<0.144	<0.075	<0.041
C41-SV05	3.0	1999	<0.096	<0.02	<0.019	<0.025	<0.07	<0.130	<0.142	<0.067	<0.083	<0.092	<0.091	<0.115	<0.077	<0.077	<0.054	**0.185**	<0.074	**0.156**	<0.074	<0.072	<0.084	<0.084	NA	<0.148	<0.141	<0.172	NA	NA	**0.356**	<0.131	<0.103	<0.124	<0.124	<0.206	<0.151	**0.090**	<0.043
GET D-SV02	10.0	10/20/05	<0.0068	<0.006	<0.0056	<0.0073	<0.005	<0.0093	<0.0042	<0.0048	<0.0059	<0.0066	<0.0065	<0.0082	<0.0055	<0.0055	**0.007**	**0.042**	**0.010**	**0.043**	**0.014**	<0.0052	<0.0059	**0.010**	<0.0063	**0.0053**	<0.0042	<0.0050	<0.0059	<0.0059	**0.099**	**0.0045**	**0.046**	**0.016**	<0.0036	**0.012**	<0.0044	<0.0091	<0.0031
GET D-SV03	10.0	10/20/05	<0.0065	<0.0058	<0.0054	<0.007	<0.0048	<0.0089	<0.0040	<0.0046	<0.0057	<0.0064	<0.0063	<0.0079	<0.0053	<0.0053	**0.0062**	**0.047**	**0.012**	**0.044**	**0.013**	<0.0050	<0.0057	**0.010**	<0.0060	**0.0047**	<0.0040	<0.0048	<0.0057	<0.0057	**0.057**	**0.020**	**0.039**	**0.022**	<0.0034	**0.012**	<0.0042	<0.0088	<0.0030
GET D-SV04	10.0	10/20/05	<0.0068	<0.006	<0.0056	<0.0073	<0.005	**0.0094**	<0.0042	<0.0048	<0.006	<0.0066	<0.0066	**0.023**	<0.0055	<0.0055	**0.0068**	**0.044**	**0.010**	**0.040**	**0.013**	<0.0052	<0.006	**0.0089**	<0.0063	**0.0092**	<0.0042	**0.0052**	<0.006	<0.006	**0.033**	**0.013**	**0.031**	**0.007**	<0.0036	**0.011**	<0.0044	<0.0092	<0.0031
GET D-SV04 (dup)	10.0	10/20/05	<0.0068	<0.006	<0.0056	<0.0073	<0.005	<0.0094	<0.0042	<0.0048	<0.006	<0.0066	<0.0066	**0.024**	<0.0055	<0.0055	**0.0068**	**0.043**	**0.011**	**0.041**	**0.013**	<0.0052	<0.006	**0.0086**	<0.0063	**0.0091**	<0.0042	<0.0050	<0.006	<0.006	**0.030**	**0.013**	**0.030**	**0.0069**	<0.0036	**0.011**	<0.0044	<0.0092	<0.0031

Notes and Key:
Concentrations reported in milligrams per cubic meter (mg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
Concentrations above soil vapor screening level are highlighted by shading.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Field duplicate sample
PGOU = Perimeter Groundwater Operable Unit
rep = Laboratory replicate sample
RI/FS = Remedial Investigation/Feasibility Study
SVSL = Soil vapor screening level
* = Sample collected as part of investigation activities in 1999

B = Benzene
CB = Chlorobenzene
CDSD = Carbon Disulfide
CE = Chloroethane
CF = Chloroform
CM = Chloromethane
DCA = Dichloroethane
DCB = Dichlorobenzene
DCE = Dichloroethylene
DCM = Dichloromethane
DCP = Dichloropropene
EB = Ethylbenzene
4-M-2-P = 4-Methyl-2-pentanone
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary butyl ether
PCE = Tetrachloroethane
T = Toluene
TCA = Trichloroethane
TCE = Trichloroethene
TMB = Trimethylbenzene

Laboratory Qualifiers:
j = Estimated value. Reported concentration is between method detection limit and practical quantitation limit.

Data Validation Qualifiers:
J = Indicates an estimated value.
U = Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 4-18 *Summary of Metals Analysis of Soil Samples*
Sites D(e), C29, C32, and C41
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
HH SSL:			**7,614**	**3.1**	**0.06**	**537**	**15.4**	**1,600**	**1.7**	**211**	**17**	**660**	**313**	**15**	**176**	**2.4**	**156**	**380**	**380**	**0.52**	**5.3**	**2,346**
D(e) - C32-SS01	0.5	1999	11,400		11.5	186	<0.59	<23.7	**2.1**	61.8	NA	14.9	54.7	**175**	796	0.14	32	<1.8	<0.59	<0.24	59.1	1,160
D(e) - SNS02	0.5	7/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	NA	NA	NA
D(e) - SNS03	0.5	7/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA
D(e) - SNS04	0.5	7/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**18**	NA	NA	NA	NA	NA	NA	NA	NA
D(e) - SNS05	0.5	7/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
C29-SS01	0.5	1999	12,300	<1.1	4.5	84.1	<0.54	<21.4	<1.1	62.3	NA	16.8	16.9	7.1	593	<0.043	15.1	<1.6	<0.54	<0.21	84.9	20.5
C32-SS02	0.5	1999	15,200		18.5	218	<1.6	<21.8	<2.7	51.2	NA	31.2	223	**43.6**	1,360	0.28	77.7	<4.9	<1.6	<0.22	66.8	754
C32-SNS01	0.5	7/14/2003	12,000	<0.44 UJ	4.7	160 J	0.39	<8.8	0.45 j	37	NA	13	32	**59**	570	0.51	32	0.45 j	<0.61	<0.18	51	150 J
C32-SNS02	0.5	7/14/2003	13,000	<0.43 UJ	4.2	150 J	0.40	<8.6	0.69 j	64	NA	13	38	**66**	450	0.41	30	0.27 j	<0.60	<0.17	52	280 J
C41-SS01	0.5	05/12/99	15,700	<1.0	5.5	89.4	<0.51	<20.4	<0.51	69.3	NA	16.9	29.8	**24.6**	733	<0.041	22	<1.5	<0.51	<0.20	72.2	43.7
C41-SS02	0.5	05/12/99	13,300	<1.0	4.6	60.1	<0.51	<20.4	<0.51	51.6	NA	12.1	33.2	**99.2**	368	0.061	21.7	<1.5	<0.51	<0.20	45.5	44.5
C41-SS03	0.5	05/12/99	15,700	1.0	5.3	103	<0.51	<20.6	<0.51	86.2	NA	15.8	35.2	10.6	562	<0.041	35	<1.5	<0.51	<0.21	77.6	33.5
C41-SS03 (dup)	0.5	05/12/99	14,600	<1.1	5.4	104	<0.56	<22.3	<0.56	76.4	NA	16.5	30.5	8.4	591	<0.045	22.8	<1.7	<0.56	<0.22	82.2	35.1
C41-SS04	0.5	05/12/99	11,700	<1.1	4.6	90.7	<0.53	<21.0	<0.53	55.1	NA	15.3	26.1	11.7	639	<0.042	18.4	<1.6	<0.53	<0.21	73.3	28.1
C41-SS05	0.5	05/12/99	10,900	<1.1	4.9	270	<0.53	<21.2	<0.53	63.2	NA	19.8	19.6	11.2	1,410	<0.042	17	<1.6	<0.53	<0.21	82.5	23.4
C41-SS07	0.0	06/19/06	19,000	<20	6.7	120	0.73 j	7.1	<1.0	100	NA	19	23	11	740	0.02	23	<2	<2.0	<1.0	110	22
C41-SS08	0.0	06/19/06	18,000	<10	4.3	110	0.58	2.4 j	0.034 j	71	NA	17	21	9.9	690	0.023	24	0.22 j	<1.0	0.21 j	93	19
C41-SS16	0.0	06/19/06	23,000	12 j	3.7	130	<1.0	21	0.032 j	86	NA	21	24	12	740	0.032	28	0.21 j	<2.0	0.32 j	110	18

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg).
Metals detected in site soils statistically above background are shaded in heading.
Metal concentrations above background and HH SSL are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
HH SSL = Human health soil screening level
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between method detection limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference

Data Validation Qualifiers:
J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 4-19 *Summary of Perchlorate Analysis of Soil Samples Site C41 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Location	Sample Depth (feet bgs)	Sample Date	314.1 Concentration (µg/kg)
HH SSL:			**780**
C41-SS01	0.25	05/12/99	<40
C41-SS01 (dup)	0.25	05/12/99	<40
C41-SS02	0.25	05/12/99	<40
C41-SS03	0.25	05/12/99	<40
C41-SS03 (dup)	0.25	05/12/99	<40
C41-SS04	0.25	05/12/99	68
C41-SS04 (dup)	0.25	05/12/99	83
C41-SS04	1.5	09/02/05	<10
C41-SS04 (dup)	1.5	09/02/05	<10
C41-SS05	0.25	05/12/99	<40
C41-SS06	0.25	09/02/05	<10
C41-SS07	0.25	09/02/05	250
C41-SS07	5.0	10/31/05	**1,600**
C41-SS07	10.0	10/31/05	**1,900**
C41-SS07	15	01/25/06	240
C41-SS07	20	01/25/06	430
C41-SS07	25	01/25/06	160
C41-SS07	30	01/25/06	120
C41-SS07	35	01/25/06	44
C41-SS07	40	01/25/06	210
C41-SS07	45	01/25/06	<20
C41-SS07	50	01/25/06	140
C41-SS07	55	01/25/06	<20
C41-SS07	60	01/25/06	<20
C41-SS08	0.25	09/02/05	**1,900**
C41-SS08	5.0	10/31/05	570
C41-SS08	10.0	10/31/05	140
C41-SS09	0.25	09/02/05	37
C41-SS09	5.0	10/31/05	71
C41-SS09	10.0	10/31/05	21
C41-SS10	0.25	09/02/05	<10
C41-SS11	0.25	09/02/05	<10
C41-SS12	0.25	09/02/05	<10
C41-SS13	0.5	10/31/05	28
C41-SS13	2.0	10/31/05	<20
C41-SS13	5.0	10/31/05	<20

Table 4-19 Summary of Perchlorate Analysis of Soil Samples Site C41 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Sample Date	314.1 Concentration (µg/kg)
HH SSL:			**780**
C41-SS14	0.5	10/31/05	24
C41-SS14	2.0	10/31/05	<20
C41-SS14	5.0	10/31/05	<20
C41-SS15	0.5	10/31/05	34
C41-SS15	2.0	10/31/05	<20
C41-SS15	5.0	10/31/05	<20
C41-SS16	0.5	10/31/05	44
C41-SS16	2.0	10/31/05	120
C41-SS16	5.0	10/31/05	91
C41-SS17	0	01/26/06	<20
C41-SB01	0	01/25/06	<20
C41-SB01	2	01/25/06	<20
C41-SB01	5	01/25/06	<20
C41-SB01	10	01/25/06	<20
C41-SB01	15	01/25/06	<20
C41-SB01	20	01/25/06	<20
C41-SB01	25	01/25/06	<20
C41-SB01	30	01/25/06	<20
C41-SB01 (dup)	30	01/25/06	<20
C41-SB01	35	01/25/06	NA
C41-SB01	40	01/25/06	<20
C41-SB01	45	01/26/06	NA
C41-SB01	50	01/26/06	30
C41-SB01	55	01/26/06	NA
C41-SB01	60	01/26/06	<20
C41-SB02	0	01/25/06	<20
C41-SB02	2	01/25/06	140
C41-SB02	5	01/25/06	350
C41-SB02	10	01/25/06	270
C41-SB02 (dup)	10	01/25/06	260
C41-SB02	15	01/25/06	460
C41-SB02	20	01/25/06	600
C41-SB02	25	01/25/06	210
C41-SB02	30	01/25/06	240
C41-SB02	35	01/25/06	390
C41-SB02	40	01/25/06	320
C41-SB02	45	01/25/06	35
C41-SB02	50	01/25/06	90
C41-SB02	55	01/25/06	160

Table 4-19 Summary of Perchlorate Analysis of Soil Samples Site C41 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Sample Date	314.1 Concentration (µg/kg)
HH SSL:			**780**
C41-SB02	60	01/25/06	99
C41-SB03	0	01/25/06	<20
C41-SB03	2	01/26/06	<20
C41-SB03 (dup)	2	01/26/06	<20
C41-SB03	5	01/26/06	30
C41-SB03	10	01/26/06	<20
C41-SB03	15	01/26/06	<20
C41-SB03	20	01/26/06	<20
C41-SB03	25	01/26/06	22
C41-SB03	30	01/26/06	<20
C41-SB03	35	01/26/06	26
C41-SB03	40	01/26/06	64
C41-SB03	45	01/26/06	<20
C41-SB03	50	01/26/06	<20
C41-SB03	55	01/26/06	<20
C41-SB03	60	01/26/06	NA
C41-SB04	0	01/25/06	<20
C41-SB04	2	01/26/06	<20
C41-SB04	5	01/26/06	170
C41-SB04 (dup)	5	01/26/06	220
C41-SB04	10	01/26/06	130
C41-SB04	15	01/26/06	51
C41-SB04	20	01/26/06	97
C41-SB04	25	01/26/06	48
C41-SB04	30	01/26/06	41
C41-SB04	35	01/26/06	42
C41-SB04	40	01/26/06	140
C41-SB04	45	01/26/06	83
C41-SB04	50	01/26/06	<20
C41-SB04	55	01/26/06	<20
C41-SB04	60	01/26/06	<20
C41-SB05	2	06/21/06	<40
C41-SB05	5	06/21/06	<40
C41-SB05	15	06/21/06	<40
C41-SB05	20	06/21/06	<40
C41-SB05 (dup)	20	06/21/06	<40
C41-SB05	25	06/23/06	<40
C41-SB05	30	06/23/06	<40
C41-SB05	35	06/23/06	62

Table 4-19 Summary of Perchlorate Analysis of Soil Samples Site C41 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Sample Date	314.1 Concentration (µg/kg)
HH SSL:			**780**
C41-SB05	40	06/23/06	180
C41-SB05	45	06/23/06	<40
C41-SB05	50	06/23/06	<40
C41-SB05	55	06/23/06	<40
C41-SB06	0	06/19/06	<40
C41-SB06	2	06/19/06	<40
C41-SB06	5	06/19/06	<40
C41-SB06	10	06/19/06	<40
C41-SB06	15	06/19/06	<40
C41-SB06	20	06/19/06	<40
C41-SB06	25	06/19/06	<40
C41-SB06	30	06/19/06	<40
C41-SB06	35	06/19/06	<40
C41-SB06	40	06/19/06	67
C41-SB06	45	06/20/06	<40
C41-SB06	50	06/20/06	<40
C41-SB07	0	06/20/06	<40
C41-SB07	2	06/20/06	<40
C41-SB07	5	06/20/06	61
C41-SB07	10	06/20/06	200
C41-SB07	15	06/20/06	150
C41-SB07	20	06/20/06	170
C41-SB07	25	06/20/06	140
C41-SB07	30	06/20/06	110
C41-SB07	35	06/20/06	540
C41-SB07	40	06/20/06	400
C41-SB07	45	06/20/06	530
C41-SB07	50	06/20/06	340
C41-SB07	55	06/20/06	<40
C41-SB08	0	06/20/06	<40
C41-SB08	2	06/20/06	<40
C41-SB08	5	06/20/06	<40
C41-SB08	10	06/20/06	<40
C41-SB08	15	06/20/06	<40
C41-SB08	20	06/20/06	<40
C41-SB08	25	06/20/06	44
C41-SB08	30	06/20/06	<40
C41-SB08	35	06/20/06	<40
C41-SB08	40	06/20/06	62

Table 4-19 *Summary of Perchlorate Analysis of Soil Samples Site C41 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Location	Sample Depth (feet bgs)	Sample Date	314.1 Concentration (µg/kg)
HH SSL:			**780**
C41-SB08	45	06/20/06	62
C41-SB08	50	06/20/06	<40
C41-SB08	55	06/20/06	<40
C41-SB08	60	06/20/06	<40
C41-SB09	0	06/21/06	<40
C41-SB09	2	06/21/06	<40
C41-SB09	5	06/21/06	<40
C41-SB09	15	06/21/06	<40
C41-SB09	20	06/21/06	<40
C41-SB09	25	06/21/06	<40
C41-SB09	30	06/21/06	<40
C41-SB09	35	06/21/06	78
C41-SB09 (dup)	35	06/21/06	53
C41-SB09	40	06/21/06	76
C41-SB09	45	06/21/06	<40
C41-SB09	50	06/21/06	50
C41-SB09	55	06/21/06	<40
C41-SB09	60	06/21/06	61

Notes and Key:

Units reported in micrograms per kilogram (µg/kg).

Detected concentrations are in bold.

Concentrations above human health soil screening level are shaded.

< = Less than; not detected above the noted Practical Quanitation Lim

bgs = Below ground surface

(dup) = Duplicate sample

HH SSL = Human health soil screening level

NA = Not analyzed

PGOU = Perimeter Groundwater Operable Unit

RI/FS = Remedial Investigation/Feasibility Study

Table 4-20 *Summary of Perchlorate Analysis of Screening-Level Groundwater Samples Site C41 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Location	Corresponding Soil Sample Location	Sample Depth (feet bgs)	Sample Date	Concentration (µg/L)
C41-HP01	C41-SS07	60	01/25/06	**77**
C41-HP01 (dup)	C41-SS07	60	01/25/06	**76**
C41-HP02	C41-SB01	60	01/26/06	**310**
C41-HP03	C41-SB03	60	01/26/06	**120**
California PHG:				**6.0**

Notes and Key:
Units reported in micrograms per liter (µg/L).
Detected concentrations are in bold.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
(dup) = Duplicate sample
PGOU = Perimeter Groundwater Operable Unit
PHG = Public health goal
RI/FS = Remedial Investigation/Feasibility Study

Table 4-21 *Constituents Detected in Stage 2 Unconfined Groundwater Samples - Area 20*
Hydrostratigraphic Layer C
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Volatile Organic Compounds* (µg/L)								Perchlorate (mg/L)	Diesel (mg/L)
	TCE	PCE	1,1-DCA	1,2-DCA	cis-1,2-DCE	Acetone	Freon 113	Vinyl Chloride		
199	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<0.10	<0.05
279	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<0.10	**0.19**
346	**12**	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<0.10	**0.20**
3086	**13**	<5.0	<5.0	<5.0	<5.0	<20	<5.0	**6.9**	<0.10	**0.19**
3093	**57**	**270**	**20**	<12	**620**	<50	**150**	**270**	<0.10	**0.12**
3096	<5.0	<5.0	<5.0	<5.0	<5.0	<20	**73**	<5.0	<0.10	<0.05
3097	**11**	<5.0	<5.0	<5.0	<5.0	**270**	<5.0	<5.0	<0.10	**0.13**
3109	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<0.10	<0.05
3288	<5.0	<5.0	<5.0	**28**	<5.0	<20	<5.0	<5.0	<0.10	**0.16**

Sample Identification	Metals (mg/L)															
	Aluminum	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Potassium	Silver	Vanadium	Zinc
199	<0.08	<0.005	**0.31**	<0.001	**0.06**	<0.005	<0.007	<0.04	<0.005	<0.007	<0.0002	<0.03	**1.88**	<0.007	<0.01	**0.38**
279	<0.08	<0.005	**0.01**	<0.001	<0.03	<0.005	<0.007	**6.49**	**0.48**	**0.01**	<0.0002	<0.03	**1.92**	<0.007	<0.01	**1.61**
346	<0.08	<0.005	**0.35**	<0.001	**0.17**	<0.005	<0.007	<0.04	<0.005	<0.007	<0.0002	<0.03	**11.2**	<0.007	<0.01	**0.49**
3086	**0.15**	<0.005	**0.03**	<0.001	**0.05**	<0.005	<0.007	**2.18**	**0.06**	**0.08**	<0.0002	<0.03	**1.44**	<0.007	<0.01	**1.48**
3093	<0.08	<0.005	**0.23**	<0.001	**0.08**	<0.005	<0.007	**2.24**	<0.005	**0.14**	<0.0002	<0.03	**2.73**	<0.007	<0.01	<0.10
3096	**0.14**	<0.005	**0.06**	<0.001	**0.05**	<0.005	<0.007	**2.88**	**0.11**	**0.04**	<0.0002	<0.03	**4.77**	<0.007	<0.01	**6.54**
3097	<0.08	<0.005	**0.37**	<0.001	**0.06**	<0.005	<0.007	**0.07**	<0.005	<0.007	<0.0002	<0.03	**2.06**	<0.007	<0.01	**2.98**
3109	<0.08	<0.005	**0.03**	<0.001	<0.03	<0.005	<0.007	**2.93**	<0.005	**0.26**	<0.0002	<0.03	**2.52**	<0.007	<0.01	**0.43**
3288	<0.08	<0.005	**0.008**	<0.001	<0.03	<0.005	<0.007	**0.15**	**0.01**	<0.007	<0.0002	<0.03	**1.34**	<0.007	<0.01	**0.58**

Notes and Key:
Detected concentrations are in bold.
* Only volatile organic compounds detected above laboratory reporting limits are listed in table.
< = Less than; not detected above the noted Practical Quanitation Limit.
µg/L = Micrograms per liter
mg/L = Milligrams per liter
DCA = Dichloroethane
DCE = Dichloroethene
PCE = Tetrachloroethene
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
TCE = Trichloroethene

Table 4-22 *Summary of Volatile Organic Compound (VOC) Analysis of Groundwater Samples from Wells FCS-SVE1 and FCS-SVE2 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Identification	Sample Date	1,1,1-TCA	1,1-DCA	1,2-DCE (cis/trans)	CF	Freon 113	PCE	TCE
FCS-SVE1	7/17/2003	<0.50	<0.50	<0.50	**4.9**	**33**	**4.9**	**1.1**
FCS-SVE2	7/17/2003	<0.50	<0.50	<0.50	**5.9**	**12**	**2.9**	<0.50

Notes and Key:
Concentrations reported in micrograms per liter (µg/L).
< = Less than; not detected above the noted Practical Quanitation Limit.
CF = Chloroform
DCA = Dichloroethane
DCE = Dichloroethene
E = Analyte exceeds calibration range.
PCE = Tetrachloroethene
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
TCA = Trichloroethane
TCE = Trichloroethylene

Table 4-23 Summary of Semivolatile Organic Compound (SVOC) Analysis of Groundwater Samples from Wells FCS-SVE1 and FCS-SVE2
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Date	1,4-DIOX	1-Methyl-2-Pyrroli-dinone	N-NSM	ANI	Phen	2-CP	B(2-CE)E	1,3-DCB	1,4-DCB	BenAlc	1,2-DCB	2-MP	B(2-CIP)E	4-MP	HCE	N-N-P	ISO	NC2BZ	2-NP	2,4-DMP	2,4-DCP	b(2-CEO)M	Ben Acid	1,2,4-TCB
FCS-SVE1	7/17/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0
FCS-SVE2	7/17/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0

Sample Identification	Sample Date	NAP	4-CA	HCBU	p-Chlorop m-cresol	2-MN	HCCP	2,4,6-TCP	2,4,5-TCP	2-CN	2-NA	ACNL	DMP	2,6-DNT	3-NA	ACNE	2,4-DNP	DBF	4-NP	2,4-DNT	FLOR	DEP	4-CPPE	4-NA	N-Butyl-benzene-sulfonamide
FCS-SVE1	7/17/2003	<5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<25	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0
FCS-SVE2	7/17/2003	<5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<25	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0

Sample Identification	Sample Date	4,6-D-2-MP	N-NSP	1,2-DPHZ/AZO	4-BPE	HCB	PCP	PA	ANT	DNBP	FA	BENZ	PYR	BBP	CHRY	3,3'-DCB	B(a)A	B(2-EH)P	DNOP	B(b)F	B(k)F	B(a)P	I(123cd)P	D(ah)A	B(ghi)P
FCS-SVE1	7/17/2003	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
FCS-SVE2	7/17/2003	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Notes and Key:
Concentrations reported in micrograms per liter (µg/L).
NA = Not analyzed
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
< = Less than; not detected above the noted Practical Quanitation Limit.

Qualifier:
J = Estimated concentration.

Semivolatile Organic Compounds

Abbreviation	Compound	Abbreviation	Compound	Abbreviation	Compound	Abbreviation	Compound
1,2,4-TCB	1,2,4-Trichlorobenzene	2-NP	2-Nitrophenol	B(b)F	Benzo(b)fluoranthene	FA	Fluoranthene
1,2-DCB	1,2-Dichlorobenzene	3,3-DCB	3,3'-Dichlorobenzidine	B(ghi)P	Benzo(ghi)perylene	FLOR	Fluorene
1,2-DPHZ/AZO	1,2-Diphenylhydrazine/Azobenzene	3-NA	3-Nitroaniline	B(k)F	Benzo(k)fluoranthene	HCB	Hexachlorobenzene
1,3-DCB	1,3-Dichlorobenzene	4,6-D-2-MP	4,6-Dinitro-2-methylphenol	BenAcid	Benzoic acid	HCBU	Hexachlorobutadiene
1,4-DCB	1,4-Dichlorobenzene	4-BPE	4-Bromophenyl phenyl ether	BenAlc	Benzyl alcohol	HCCP	Hexachlorocyclopentadiene
1,4-DIOX	1,4-Dioxane	4-CA	4-Chloroaniline	b(2-CEO)M	Bis(2-chloroethoxy)methane	HCE	Hexachloroethane
2,4,5-TCP	2,4,5-Trichlorophenol	4-CPPE	4-Chlorophenyl phenyl ether	B(2-CE)E	Bis(2-chloroethyl)ether	I(123cd)P	Indeno(1,2,3-cd)pyrene
2,4,6-TCP	2,4,6-Trichlorophenol	4-MP	4-Methylphenol	B(2-CIP)E	Bis(2-chloroisopropyl)ether	ISO	Isophorone
2,4-DCP	2,4-Dichlorophenol	4-NA	4-Nitroaniline	B(2-EH)P	Bis(2-ethylhexyl)phthalate (BEHP)	NAP	Naphthalene
2,4-DMP	2,4-Dimethylphenol	4-NP	4-Nitrophenol	BBP	Butyl benzyl phthalate	NO2BZ	Nitrobenzene
2,4-DNP	2,4-Dinitrophenol	ACNE	Acenaphthene	CHRY	Chrysene	N-NSM	N-Nitrosodimethylamine
2,4-DNT	2,4-Dinitrotoluene	ACNL	Acenaphthylene	D(ah)A	Dibenzo(a,h)anthracene	N-NSP	N-Nitrosodiphenylamine
2,6-DNT	2,6-Dinitrotoluene	ANI	Aniline	DBF	Dibenzofuran	N-N-P	N-Nitrosodi-n-propylamine
2-CN	2-Chloronaphthalene	ANT	Anthracene	DEP	Diethyl phthalate	PCP	Pentachlorophenol
2-CP	2-Chlorophenol	BENZ	Benzidine	DMP	Dimethyl phthalate	PA	Phenanthrene
2-MN	2-Methylnaphthalene	B(a)A	Benzo(a)anthracene	DNBP	Di-n-butyl phthalate	Phen	Phenol
2-MP	2-Methylphenol	B(a)P	Benzo(a)pyrene	DNOP	Di-n-octyl phthalate	PYR	Pyrene
2-NA	2-Nitroaniline						

Table 4-24 *Summary of Metals Analysis of Groundwater Samples - Area 20*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Well No.	GW Layer	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Hexavalent Chromium	Cobalt	Copper	Iron
38	B	7/31/2003	<0.1	<0.1	<0.04	**0.054**	<0.0005	<0.02	<0.002	**24**	<0.004	NA	<0.004	<0.003	<0.15
38 (Dup)	B	7/31/2003	<0.1	<0.1	<0.04	**0.053**	<0.0005	<0.02	<0.002	**24**	<0.004	<0.005	<0.004	<0.003	<0.15
279	C	7/31/2003	<0.1	<0.1	<0.04	**0.023**	<0.0005	**0.078**	<0.002	**22**	<0.004	<0.005	<0.004	<0.003	**2.3**
3086	C	7/31/2003	<0.1	<0.1	<0.04	**0.020**	<0.0005	<0.02	<0.002	**23**	<0.004	<0.005	<0.004	<0.003	<0.015
3093	C	7/31/2003	<0.1	<0.1	<0.04	**0.035**	<0.0005	**0.044**	<0.002	**46**	<0.004	<0.005	<0.004	<0.003	**2.6**
3096	C	7/17/2003	<0.1	<0.1	<0.04	**0.25**	<0.0005	**0.073**	<0.002	**25**	<0.004	<0.005	**0.017**	<0.003	**3.7**
3109	C	7/17/2003	<0.1	<0.1	<0.04	**0.02**	<0.0005	<0.02	<0.002	**22**	<0.004	<0.005	<0.004	<0.003	**3.1**
108	F	8/15/2003	<0.1	<0.1	<0.04	**0.060**	<0.0005	**0.054**	<0.002	**21**	<0.004	<0.005	<0.004	<0.003	**0.34**

Well No.		Sample Date	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
38	B	7/31/2003	<0.03	**21**	**0.026**	NA	<0.02	<0.01	<1.0	<0.05	<0.01	**15**	<0.025	**0.006**	<0.05
38 (Dup)	B	7/31/2003	<0.03	**21**	**0.026**	<0.00008	<0.02	<0.01	<1.0	<0.05	<0.01	**14**	<0.025	<0.003	<0.05
279	C	7/31/2003	<0.03	**14**	**0.056**	<0.00008	<0.02	<0.01	<1.0	<0.05	<0.01	**14**	<0.025	<0.003	**1.0**
3086	C	7/31/2003	<0.03	**3.2**	**0.064**	<0.00008	<0.02	<0.01	**5.1**	<0.05	<0.01	**4.9**	<0.025	<0.003	**3.6**
3093	C	7/31/2003	<0.03	**31**	**0.054**	<0.00008	<0.02	<0.01	**2.2**	<0.05	<0.01	**18**	<0.025	<0.003	<0.05
3096	C	7/17/2003	<0.03	**17**	**4.2**	<0.00008	<0.02	**0.038**	**5.6**	<0.05	<0.01	**11**	<0.025	<0.003	**13**
3109	C	7/17/2003	<0.03	**14**	**0.16**	<0.00008	<0.02	<0.01	**2.6**	<0.05	<0.01	**16**	<0.025	<0.003	**0.35**
108	F	8/15/2003	<0.03	**5.7**	**0.086**	NA	<0.02	<0.01	**6.6**	<0.05	<0.01	**21**	<0.025	<0.003	<0.05

Notes and Key:

Concentrations reported in milligrams per liter (mg/L).
Detected concentrations are in bold.
< = Less than; not detected above the noted Practical Quanitation Limit.
Conc: Concentration
Dup = Duplicate sample
GW = Groundwater
NA = Not analyzed
No. = Number
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Table 5-1 *Summary of Proposed and Actual Surface Soil Sampling Activities for Sites in Area 49*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Proposed Sampling Activity	Number of Proposed Samples	Proposed Sample Depths	Proposed Analyte(s)	Rationale and Comments	Actual Number of Samples Collected	Sample ID	Sample Depth (ft bgs)	Analyte(s)	Comments
Area 49	**Aerojet Shipping, Receiving, and Material Testing**	Transformers	TBD	TBD	PCBs	Review documents and identify previous and current location of 3,000 KVA transformers in Area 49.	0	NA	NA	NA	Aerojet records indicate no 3,000 KVA transformers currently or historically present in Area 49.
		Lead-based Paint	42	0, 6, and 12-inches	Lead	Collect samples only from exposed soil around buildings.	42	A49-LBP01 A49-LBP02 A49-LBP03 A49-LBP04 A49-LBP05 A49-LBP06 A49-LBP07 A49-LBP08 A49-LBP09 A49-LBP10 A49-LBP11 A49-LBP12 A49-LBP13 A49-LBP14	0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1 0, 0.5, 1	Lead	Samples collected from exposed soil around buildings. Sample locations and depths reviewed and approved by RWQCB on 28 July 2003.
		Asbestos	TBD	TBD	Asbestos	Tour Area 49 with agencies to identify potential sampling locations for asbestos.	2	A49-ASB01 A49-ASB02	0 0	Asbestos	Two asbestos sampling locations selected by RWQCB on 28 July 2003.
C4	**Former Debris Site** Graded area with some domestic trash and debris	Surface Soil	2	Surface	D&F Metals SVOCs	Collect surface soil samples at two locations with evidence of burning.	12	C4-SNS01 C4-SNS02 C4-SNS02 C4-SNS03 C4-SNS04 C4-SNS05 C4-SNS06 C4-SNS07 C4-SNS08 C4-SNS09 C4-SNS10	0 0 2 0 0 0 0 0 0 & 2 0 0	D&F, Metals, SVOCs D&F, Metals, SVOCs Lead D&F, Lead D&F, Lead D&F, Lead D&F, Lead Lead Lead Lead Lead	Additional samples collected to evaluate lateral extent of lead.
C15	**Drainage Ditch and Low-Lying Area between Area 49 and Schnitzer Steel** Area received surface water runoff from west end of Area 49 and Schnitzer Steel	Surface Soil	4	Surface	Metals + Cr^6	Evaluate metals in low-lying area that potentially receives drainage from land adjacent to Schnitzer Steel.	7	C15-SS05 C15-SS06 C15-SS07 C15-SS08 C15-SS09 C15-SS10 C15-SS11	0 0 0 0 0 0 0	Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Chromium Chromium Chromium	Additional samples collected to evaluate lateral extent of chromium.
							17	C15-SS12 C15-SS13 C15-SS14 C15-SS15 C15-SS16 C15-SS17 C15-SS18 C15-SS19 C15-SS20 C15-SS21 C15-SS22 C15-SS23 C15-SS24 C15-SS25 C15-SS26	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6 Metals + Cr6	Additional samples collected to evaluate the potential for impacts to ecological receptors. Duplicate samples collected at C15-SS17 and C15-SS22.

Notes and Key:

Cr6 = Hexavalent chromium
D&F = Dioxins and furans
KVA = Kilovolt-ampere
NA = Not applicable
PCBs = Polychlorinated biphenyls
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
RWQCB = Regional Water Quality Control Board
SVOCs = Semivolatile organic compounds
TBD = To be determined

Table 5-2 *Summary of Analysis of Area 49 Lead-Based Paint Soil Samples*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Date	Sample Depth (feet bgs)	Concentration
A49-LBP01	7/31/2003	0.0	12
		0.5	7.6
		1.0	4.4
A49-LBP02	7/31/2003	0.0	7.5
		0.5	8.1
		1.0	5.2
A49-LBP03	7/31/2003	0.0	11 J
		0.5	6.5 J
		1.0	6.1 J
A49-LBP04	7/31/2003	0.0	**36 J**
		0.5	**24 J**
		1.0	**18 J**
A49-LBP05	7/31/2003	0.0	**20**
		0.5	**18**
		1.0	**16**
A49-LBP06	7/31/2003	0.0	**17**
		0.5	**20**
		1.0	14
A49-LBP07	7/31/2003	0.0	9.1
		0.5	9.8
		1.0	9.3
HH SSL:			**150**

Sample Identification	Sample Date	Sample Depth (feet bgs)	Concentration
A49-LBP08	8/1/2003	0.0	12
		0.5	7.9
		1.0	5.1
A49-LBP09	7/31/2003	0.0	13
		0.5	12
		1.0	10
A49-LBP10	7/31/2003	0.0	**31 J**
		0.5	**31 J**
		1.0	**32 J**
A49-LBP11	8/1/2003	0.0	14
		0.5	5.5
		1.0	6.0
A49-LBP12	8/1/2003	0.0	**23**
		0.5	**18**
		1.0	**16**
A49-LBP13	8/1/2003	0.0	9.8
		0.5	8.0
		1.0	8.2
A49-LBP14	8/1/2003	0.0	15
		0.5	7.9
		1.0	7.8
HH SSL:			**150**

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg).
Concentrations above human health soil screening level (HH SSL) are bolded and shaded.
bgs = Below ground surface
dup = Duplicate sample
HH SSL = Human health soil screening level
PGOU = Perimeter Groundwater Operable Unit
PRG = Preliminary Remediation Goal (USEPA Region IX, October 2004)
RI/FS = Remedial Investigation/Feasibility Study

Table 5-3 Summary of Proposed and Actual Soil Vapor Sampling Activities
Sites 32D, 34D, 35D, and 38D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Proposed Sampling Activity	Number of Proposed Sampling Locations	Proposed Sample Depths	Number of Samples Proposed	Number of Samples Collected	Sample ID	Sample Depth (ft bgs)	Comments
32D	**Area 49 Surface Water Drainage Ditch System** Unlined ditch 2 Sumps & UST - Bldg 49008 3 Acid Storage Tanks - Bldgs 49019/49092 6 Storage Tanks - Bldgs 49090 & 49091	Soil Vapor	Sampling at Site 32D included in Sites 34D, 35D, and 38D	0	0	0	NA	NA	
34D	**Area 49 Surface Water Drainage System** Surface Water Runoff	Soil Vapor	3	10 & 20 feet	6	12	34D-SP06	10 & 20	
							34D-SP07	10 & 20	
							34D-SP08	5, 10 & 20	
							34D-SP09	10 & 20	
							49ST11-SP03	10	
							49ST11-SP04	10 & 20	
38D	**Area 49 Surface Water Drainage System** Surface Water Runoff Sump & UST - Bldg 49018	Soil Vapor	6	10 & 20 feet	12	22	38D-SP20	10 & 20	
							38D-SP21	10 & 20	Duplicate at 10 feet
							38D-SP22	10 & 20	
							38D-SP23	5, 10 & 20	
							38D-SP24	10 & 20	
							38D-SP25	5, 10 & 20	
							38D-SP26	10	
							38D-SP27	10	
							38D-SP28	10	
							36D-SP18	5 & 20	
							36D-SP20	20	
							36D-SP21	10 & 20	Duplicate at 20 feet
		Vapor Wells	NA	NA	NA	5	38D-SVE1	20	
							38D-SVE2	16	
							38D-4485	20	
							38D-4490	18	
							38D-4495	20	
35D	**Large Degreaser Sump at Building 49014** Building 49014 is Inert Chamber Processing 2 septic tanks - Bldgs 49006 & 49014	Soil Vapor	10	10 & 20 feet	20	18	35D-SP20	5, 10 & 18	No flow at 20. Sampled at 18 feet
							35D-SP21	NA	Refusal at 6 feet bgs - Two attempts
							35D-SP22	10 & 20	
							35D-SP23	10	Refusal at 12 feet bgs
							35D-SP24	10 & 20	
							35D-SP25	10 & 20	
							35D-SP26	10 & 20	
							35D-SP27	10 & 20	
							35D-SP28	10	No flow at 20 feet - no sample
							35D-SP29	5 , 10 & 20	Duplicate at 10 feet

Notes and Key:
Bldg = Building
bgs = Below ground surface
ft = Feet
ID = Identification
NA = Not applicable
NDT = Non-destructive testing
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
UST = Underground storage tank

Table 5-4 *Summary of Volatile Organic Compound (VOC) Analysis of Soil Vapor Samples*
Sites 34D, 35D, and 38D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Sample Date	Freon 11	CB	CE	DCM	1,1-DFA	1,1-DCA	1,1-DCE	cis-1,2-DCE	CF	1,1,1-TCA	TCE	PCE
PGOU SVSL:			**73**	**6.2**	**2.32**	**20.8**	NE	**1.2**	**20.8**	**3.7**	**0.08**	**0.12**	**0.96**	**0.32**
34D-SP07	5.0	06/06/05	<0.0064	<0.0053	<0.003	<0.004	<0.012	<0.0046	<0.0045	<0.0045	<0.0056	<0.0062	**0.011**	<0.0078
34D-SP07	5.0	06/09/05	<0.012	<0.0099	<0.0057	<0.0075	<0.023	<0.0087	<0.0086	<0.0086	<0.010	**0.022**	**0.14**	**0.016**
34D-SP07*	5.0	07/13/05	<0.0068	<0.0056	<0.0032 uj, UJ	<0.0042	**0.23**	<0.0049	<0.0048	<0.0048	<0.0059	**0.009**	**0.074**	**0.012**
34D-SP07	5.0	09/06/06	<0.0079	<0.0065	<0.0037	<0.0049	NA	<0.0057	<0.0056	<0.0056	<0.0069	**0.038**	**0.24**	**0.058**
34D-SP08	5.0		<0.048		<0.023 uj	<0.030	NA	<0.035	<0.034	<0.034	**0.076**	**0.065**	**12**	**4.0**
35D-SP20	5.0		<0.024		<0.011	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	<0.023	<0.029
35D-SP22	5.0	06/06/05	<0.0071	<0.0058	<0.0033	<0.0044	<0.014	<0.0051	<0.005	<0.005	**0.007**	**0.025**	**0.16**	**0.013**
35D-SP22	5.0	06/09/05	<0.012	<0.0094	<0.0054	<0.020 U	<0.022	<0.0083	<0.0081	<0.0081	<0.010	<0.011	<0.011	<0.014
35D-SP22*	5.0	07/14/05	<0.0063	<0.0052	<0.0030	<0.0039	<0.012	<0.0045	<0.0044	<0.0044	<0.0055	<0.0061	<0.0060	<0.0076
35D-SP29	5.0		<0.023		<0.011	<0.014	NA	<0.017	<0.016	**0.052**	<0.020	**0.043**	**3.2**	**2.0**
36D-SP18	5.0		<0.024		<0.011 uj	<0.015	NA	<0.018	<0.017	**0.024**	**0.046**	**0.051**	**8.0**	**3.8**
38D-SP23	5.0	08/07/03	<0.049	<0.040	<0.023	<0.030	NA	<0.036	<0.035	<0.035	<0.043	**0.080**	**10**	**4.4**
38D-SP23 (rep)	5.0	08/07/03	<0.049	<0.040	<0.023	<0.030	NA	<0.036	<0.035	<0.035	<0.043	**0.080**	**10**	**4.4**
38D-SP23	5.0	06/07/05	<0.0092	<0.0076	<0.0043	<0.0057	<0.018	<0.0066	<0.0065	<0.0065	**0.022**	**0.053**	**2.9**	**0.18**
38D-SP23 (dup)	5.0	06/07/05	<0.0092	<0.0076	<0.0043	<0.0057	<0.018	<0.0066	<0.0065	<0.0065	**0.020**	**0.049**	**2.8**	**0.18**
38D-SP23	5.0	06/10/05	<0.027	<0.022	<0.013	<0.017	<0.052	<0.020	<0.019	<0.019	<0.024	**0.049**	**3.1**	**0.68**
38D-SP23*	5.0	07/13/05	<0.028	<0.023	<0.013	<0.018	<0.054	<0.020	<0.020	<0.020	<0.025	**0.066**	**6.6**	**2.2**
38D-SP23	5.0	09/06/06	<0.032	<0.027	<0.015	<0.020	NA	<0.023	<0.023	<0.023	<0.028	**0.092**	**6.6**	**1.9**
38D-SP25	5.0		<0.025		<0.012	<0.016	NA	<0.018	<0.018	<0.018	<0.022	<0.024	<0.024	<0.030
34D-SP07	10.0	07/16/03	<0.024	<0.020	<0.011	<0.015	NA	<0.018 UJ	<0.017	<0.017	**0.22**	**0.048**	**0.52**	**0.13**
34D-SP07	10.0	06/06/05	<0.0068	<0.0056	<0.0032	<0.0042	<0.013	<0.0049	<0.0048	<0.0048	**0.0063**	**0.022**	**0.13**	<0.0082
34D-SP07* (dup)	10.0	06/06/05	<0.026	<0.021	<0.012	<0.016	**4.5**	<0.018	<0.018	<0.018	<0.022	<0.025	**0.095**	<0.031
34D-SP07	10.0	06/09/05	<0.0062	<0.0051	<0.0029	<0.033 U	<0.012	<0.0044	<0.0044	<0.0044	<0.0054	<0.006	**0.0067**	<0.0075
34D-SP07	10.0	07/13/05	<0.0068	<0.0056	<0.0032 uj,UJ	<0.0042	<0.013	<0.0049	<0.0048	<0.0048	<0.0059	**0.022**	**0.20**	**0.043**
34D-SP07 (dup)	10.0	07/13/05	<0.0069	<0.0057	<0.0032 uj,UJ	<0.0043	<0.013	<0.0050	<0.0049	<0.0049	<0.006	**0.023**	**0.22**	**0.051**
34D-SP08	10.0	09/01/06	<0.038	**0.051**	<0.018	<0.023	NA	<0.027	<0.026	<0.026	**0.064**	**0.11**	**14**	**5.0**
34D-SP06	10.0		<0.024		<0.011	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	**0.19**	**0.049**
34D-SP07	10.0		<0.024		<0.011	<0.015	NA	<0.018 UJ	<0.017	<0.017	**0.22**	**0.048**	**0.52**	**0.13**
34D-SP08	10.0		<0.047		<0.022	<0.029	NA	<0.034	<0.033	<0.033	**0.11**	**0.094**	**17**	**4.8 J**
34D-SP09	10.0		<0.10		<0.10	<0.10	NA	<0.10	**0.21**	<0.10	<0.10	**0.50**	**3.9**	**0.22**
35D-SP20	10.0	07/14/03	<0.026	<0.021	<0.012	<0.016	NA	<0.018	<0.012	<0.018	<0.022	**0.062**	**0.040**	**0.65**
35D-SP22	10.0	07/14/03	<0.024	<0.020	<0.011	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	**0.084**	<0.029
35D-SP22	10.0	06/06/05	<0.051	<0.042	<0.024	<0.032	**7.6**	<0.037	<0.036	<0.036	<0.045	<0.050	<0.049	<0.062
35D-SP22 (rep)	10.0	06/06/05	<0.051	<0.042	<0.024	<0.032	**7.4**	<0.037	<0.036	<0.036	<0.045	<0.050	<0.049	<0.062
35D-SP22* (dup)	10.0	06/06/05	<0.69	<0.57	<0.32	<0.43	**88**	<0.50	<0.49	<0.49	<0.60	<0.67	<0.66	<0.84
35D-SP22	10.0	06/09/05	<0.25	<0.21	<0.12	<0.16	**1.9**	<0.18	<0.18	<0.18	<0.22	<0.24	<0.24	<0.30
35D-SP22	10.0	07/14/05	<0.049	<0.040	<0.023	<0.030	<0.093	<0.035	<0.034	<0.034	<0.042	<0.047	<0.046	<0.059
35D-SP23	10.0	07/14/03	<0.024	<0.020	<0.011	<0.015	NA	<0.017	<0.017	<0.017	<0.021	<0.023	**0.036**	<0.029
35D-SP24	10.0	07/11/03	<0.025	<0.020	<0.012	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	<0.024	**0.060**
35D-SP25	10.0	07/11/03	<0.025	<0.020	<0.012	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	<0.024	**0.061**
35D-SP26	10.0	07/14/03	<0.023	<0.019	<0.011	<0.014	NA	<0.017	<0.016	<0.016	<0.020	<0.023	**0.20**	**0.68**
35D-SP27	10.0	07/15/03	<0.024	<0.020	<0.011	<0.015	NA	<0.017	<0.017	<0.017	<0.021	<0.023	<0.023	**0.13**
35D-SP28	10.0	07/15/03	<0.023	<0.019	<0.011	<0.014	NA	<0.017	<0.016	<0.016	<0.020	<0.022	<0.022	**0.047**
35D-SP29	10.0	07/14/03	<0.025	<0.020	<0.012	<0.016	NA	<0.018	<0.018	**0.055**	<0.022	**0.038**	**3.0**	**1.6**
35D-SP29 (dup)	10.0	07/14/03	<0.024	<0.020	<0.011	<0.015	NA	<0.018	<0.017	**0.051**	<0.021	**0.033**	**2.7**	**1.4**
36D-SP21	10.0	07/15/03	<0.10	<0.020	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
38D-SP20	10.0	07/15/03	<0.024	<0.020	<0.011	<0.015	NA	<0.017	<0.017	<0.017	<0.021	**0.13**	**4.2**	**0.19**
38D-SP20 (rep)	10.0	07/15/03	<0.024	<0.020	<0.011	<0.015	NA	<0.017	<0.017	<0.017	<0.021	**0.12**	**4.1**	**0.18**
38D-SP21	10.0	07/15/03	<0.024	<0.020	<0.011	<0.015	NA	<0.017	<0.017	<0.017	<0.021	**0.034**	**0.19**	**0.19**
38D-SP21 (dup)	10.0	07/15/03	<0.024	<0.020	<0.011	<0.015	NA	<0.017	<0.017	<0.017	<0.021	**0.026**	**0.13**	**0.14**
38D-SP22	10.0	07/15/03	<0.048	<0.039	<0.022	<0.029	NA	<0.034	<0.034	<0.034	**0.063**	**0.52**	**14**	**8.4 J**
38D-SP23	10.0	07/16/03	<0.029	<0.024	<0.014	<0.018	NA	<0.021	<0.020	**0.031**	<0.025	**0.055**	**6.0**	**1.6**
38D-SP23	10.0	06/07/05	<0.0067	<0.0055	<0.0031	<0.0041	**0.11**	<0.0048	<0.0047	<0.0047	<0.0058	**0.030**	**1.0**	**0.040**
38D-SP23* (dup)	10.0	06/07/05	<0.0068	<0.0056	<0.0032	<0.0042	<0.013	<0.0049	<0.0048	<0.0048	<0.0059	**0.042**	<0.0065	<0.0082
38D-SP23* (dup)	10.0	06/10/05	<0.050	<0.041	<0.024	<0.031	<0.097	<0.036	<0.035	<0.035	<0.044	<0.049	**2.2**	**0.22**
38D-SP23	10.0	07/13/05	<0.016	<0.013	<0.0074	<0.0098	<0.030	<0.011	<0.011	<0.011	<0.014	**0.048**	**4.2**	**1.4**
38D-SP23 (rep)	10.0	07/13/05	<0.016	<0.013	<0.0074	<0.0098	<0.030	<0.011	<0.011	<0.011	<0.014	**0.049**	**4.2**	**1.4**
38D-SP23 (dup)	10.0	07/13/05	<0.015	<0.012	<0.0070	<0.0092	<0.028	<0.011	<0.010	<0.010	<0.013	**0.050**	**4.3**	**1.4**
38D-SP23	10.0	09/06/06	<0.030	**0.11**	<0.014	<0.019	NA	<0.022	<0.021	<0.021	<0.026	**0.15**	**6.6**	**3.1**
38D-SP24	10.0		<0.023		<0.011	<0.014	NA	<0.017	<0.016	<0.016	**0.060**	<0.022	**0.18**	**0.15**
38D-SP25	10.0	07/15/03	<0.048	<0.039	<0.022	<0.029	NA	<0.034	**0.046**	**0.52**	<0.041	<0.046	**17**	**1.0 J**
38D-SP26	10.0		<0.10		<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	**2.5**	<0.10
38D-SP27	10.0		<0.10		<0.10	<0.10	NA	<0.10	**0.12**	**1.5**	<0.10	**0.27**	**13**	**0.42**
38D-SP28	10.0		<0.10		<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	**0.36**	**0.63**
49ST11-SP03	10.0		<0.024		<0.011	<0.015	NA	**0.075**	<0.017	**0.026**	**0.17**	**0.10**	**0.69**	**0.19**
49ST11-SP04	10.0		<0.024		<0.011	<0.015	NA	<0.017	<0.017	**0.037**	**0.15**	**0.045**	**0.18**	**0.11**
34D-SP07	15.0	06/07/05	<0.0064	<0.0053	<0.003	<0.004	**0.092**	<0.0046	<0.0045	<0.0045	<0.0056	**0.014**	**0.064**	<0.0078
34D-SP07	15.0	06/09/05	<0.012	<0.010	<0.0059	<0.0078	<0.024	<0.0091	<0.0089	<0.0089	<0.011	<0.012	**0.068**	<0.015
34D-SP07* (dup)	15.0	06/09/05	<0.0065	<0.0054	<0.0031	<0.0040	<0.012	<0.0047	<0.0046	**0.0052**	<0.0057	**0.014**	**0.12**	**0.012**
34D-SP07	15.0	07/13/05	<0.0071	<0.0058	<0.0033 uj,UJ	<0.0044	**0.017**	<0.0051	<0.0050	<0.0050	<0.0062	**0.014**	**0.12**	**0.030**
34D-SP07	15.0	09/06/06	<0.0074	<0.0061	<0.0035	<0.0046	NA	<0.0053	<0.0052	<0.0052	<0.0064	**0.037**	**0.19**	**0.039**
38D-SP23	15.0	06/07/05	<0.0068	<0.0056	<0.0032	<0.0042	<0.013	<0.0049	<0.0048	**0.016**	**0.020**	**0.057**	**2.3**	**0.064**
38D-SP23	15.0	06/10/05	<0.035	<0.029	<0.017	<0.022	<0.068	<0.026	<0.025	<0.025	<0.031	**0.066**	**3.7**	**0.31**
38D-SP23* (dup)	15.0	06/10/05	<0.024	<0.020	<0.011	<0.015	<0.047	<0.017	<0.017	**0.017**	<0.021	**0.069**	**4.9**	**0.82**
38D-SP23	15.0	07/14/05	<0.020	<0.016	<0.0095	<0.012	<0.039	<0.014	<0.014	**0.019**	**0.022**	**0.073**	**6.6**	**2.2**
38D-SP23	15.0	09/06/06	<0.031	**0.090**	<0.014	<0.019	NA	<0.022	<0.022	<0.022	<0.027	**0.16**	**8.1**	**3.5**
34D-SP06	20.0		<0.024		<0.011	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	**0.30**	**0.060**
34D-SP07	20.0	07/16/03	<0.024	<0.020	<0.011	<0.015	NA	<0.018 UJ	<0.017	<0.017	**0.22**	**0.059**	**0.56**	**0.086**
34D-SP08	20.0		<0.024		<0.011	<0.015	NA	<0.017	<0.017	<0.017	**0.033**	<0.023	**4.1**	**1.2 J**

Sample Location	Sample Depth (feet bgs)	Sample Date	B	T	EB	m,p-Xylene	o-Xylene	Styrene	1,3,5-TMB	1,2,4-TMB	1,2-DCB	Hexane	Cyclo-Hexane	Heptane	BDCM
PGOU SVSL:			**0.08**	**40.1**	**106**	**10.6**	**10.6**	**106**	**0.62**	**0.62**	**20.9**	**20.8**	**620**	NE	**0.11**
34D-SP07	5.0	06/06/05	**0.046**	<0.056 U	<0.010 U	<0.036 U	<0.012 U	<0.0049	<0.0056	<0.0096 U	<0.0069	**0.028**	<0.0044 U	**0.014**	<0.0077
34D-SP07	5.0	06/09/05	<0.0069	**0.038**	<0.0094	**0.027**	**0.0095**	<0.0092	<0.011	<0.011	<0.013	<0.0076	**0.24**	<0.0088	<0.014
34D-SP07*	5.0	07/13/05	<0.0039	<0.0046	<0.0052	<0.0052	<0.0052	<0.0052	<0.0059	<0.0059	<0.0073	<0.0043	**0.058**	<0.0050	<0.0081
34D-SP07	5.0	09/06/06	<0.0045	**0.017**	**0.011**	**0.034**	**0.0076**	<0.0060	<0.0069	<0.0069	<0.0085	<0.0050	<0.0048	<0.0058	<0.0094
34D-SP08	5.0		**0.032**	<0.032	<0.038	<0.038	<0.038	<0.037	<0.042	<0.042	<0.052	**0.037**	<0.030	<0.035	<0.058
35D-SP20	5.0		<0.014	<0.016	<0.019	**0.042**	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029
35D-SP22	5.0	06/06/05	<0.015 U	<0.050 U	<0.016 U	<0.058 U	<0.017 U	<0.0054	<0.0062	<0.016 U	<0.0076	**0.0099**	<0.027 U	<0.0052	<0.0085
35D-SP22	5.0	06/09/05	<0.0065	**0.021**	<0.0089	**0.018**	<0.0089	<0.0087	<0.010	<0.010	<0.012	<0.0072	<0.0070	<0.0084	<0.014
35D-SP22*	5.0	07/14/05	<0.0036	<0.0042	<0.0049	<0.0049	<0.0049	<0.0048	<0.0055	<0.0055	<0.0067	<0.0039	<0.0038	<0.0046	<0.0075
35D-SP29	5.0		<0.013	<0.016	<0.018	<0.018	<0.018	<0.018	<0.020	<0.020	<0.025	<0.015	<0.014	<0.017	<0.028
36D-SP18	5.0		**0.034**	**0.025**	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	**0.027**	<0.015	**0.024**	<0.029
38D-SP23	5.0	08/07/03	**0.032**	<0.033	<0.038	<0.038	<0.038	<0.037	<0.043	<0.043	<0.053	<0.031	<0.030	<0.036	<0.059
38D-SP23 (rep)	5.0	08/07/03	**0.030**	<0.033	<0.038	<0.038	<0.038	<0.037	<0.043	<0.043	<0.053	<0.031	<0.030	<0.036	<0.059
38D-SP23	5.0	06/07/05	**0.044**	<0.080 U	<0.013 U	<0.050 U	<0.016 U	<0.007	<0.0081	<0.012 U	<0.0099	**0.041**	**0.13**	**0.021**	<0.011
38D-SP23 (dup)	5.0	06/07/05	**0.044**	**0.080**	**0.013**	**0.049**	**0.016**	<0.007	<0.0081	**0.012**	<0.0099	**0.040**	**0.12**	**0.020**	<0.011
38D-SP23	5.0	06/10/05	<0.015	**0.060**	<0.021	**0.040**	<0.021	<0.021	<0.024	<0.024	<0.029	<0.053 U	**0.75**	<0.020	<0.032
38D-SP23*	5.0	07/13/05	<0.016	<0.019	<0.022	<0.022	<0.022	<0.022	<0.025	<0.025	<0.030	<0.018	<0.052 U	<0.021	<0.034
38D-SP23	5.0	09/06/06	<0.018	<0.022	<0.025	<0.025	<0.025	<0.025	<0.028	<0.028	<0.035	<0.020	<0.020	<0.024	<0.039
38D-SP25	5.0		<0.014	**0.017**	**0.028**	**0.15**	**0.034**	<0.019	<0.022	**0.043**	<0.027	<0.016	<0.015	<0.018	<0.030
34D-SP07	10.0	07/16/03	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021 UJ	<0.021 UJ	<0.026	**0.016**	<0.015	**0.018 j**	<0.029
34D-SP07	10.0	06/06/05	<0.0083 U	<0.065 U	<0.013 U	<0.050 U	<0.014 U	<0.0052	<0.0059	<0.012 U	<0.0073	**0.0089**	<0.028 U	**0.0065**	<0.0081
34D-SP07* (dup)	10.0	06/06/05	<0.020 U	<0.063 U	<0.020	<0.047 U	<0.020	<0.020	<0.022	<0.022	<0.028	**0.020**	<0.080 U	<0.019	<0.031
34D-SP07	10.0	06/09/05	<0.0035	<0.0041	<0.0048	<0.0048	<0.0048	<0.0047	<0.0054	<0.0054	<0.0066	<0.0039	<0.0038	<0.0045	<0.0074
34D-SP07	10.0	07/13/05	<0.0039	<0.0046	<0.0052	<0.0052	<0.0052	<0.0052	<0.0059	<0.0059	<0.0073	<0.0043	**0.054**	<0.0050	<0.0081
34D-SP07 (dup)	10.0	07/13/05	<0.0039	<0.0046	<0.0054	**0.0053 j**	<0.0054	<0.0053	<0.0061	<0.0061	<0.0074	<0.0044	**0.052**	<0.0051	<0.0083
34D-SP08	10.0	09/01/06	**0.037**	<0.025	<0.029	**0.032**	**0.077**	<0.028	<0.033	<0.033	<0.040	<0.024	**0.066**	<0.027	<0.045
34D-SP06	10.0		<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029
34D-SP07	10.0		<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021 UJ	<0.021 UJ	<0.026 UJ	**0.016**	<0.015	**0.018 j**	<0.029
34D-SP08	10.0		**0.044**	**0.059**	<0.036	**0.042**	<0.036	<0.035	<0.041	<0.041	<0.050	**0.051**	<0.029	**0.044**	<0.056
34D-SP09	10.0		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10
35D-SP20	10.0	07/14/03	**0.051**	**0.21**	**0.078**	**0.22**	**0.13**	<0.019	**0.033**	**0.16**	<0.027	**0.10**	**0.044**	**0.16**	<0.030
35D-SP22	10.0	07/14/03	**0.049**	**0.074**	**0.036**	**0.17**	**0.080**	<0.018	<0.021	<0.021	<0.026	**0.019**	<0.015	<0.018	<0.029
35D-SP22	10.0	06/06/05	<0.029	<0.034	<0.040	<0.040	<0.040	<0.039	<0.045	<0.045	<0.055	<0.032	<0.031	<0.037	<0.061
35D-SP22 (rep)	10.0	06/06/05	<0.029	<0.034	<0.040	<0.040	<0.040	<0.039	<0.045	<0.045	<0.055	<0.032	<0.031	<0.037	<0.061
35D-SP22* (dup)	10.0	06/06/05	<0.39	<0.46	<0.54	<0.54	<0.54	<0.53	<0.61	<0.61	<0.74	<0.44	<0.42	<0.51	<0.83
35D-SP22	10.0	06/09/05	<0.14	<0.17	<0.19	<0.19	<0.19	<0.19	<0.22	<0.22	<0.27	<0.16	<0.15	<0.18	<0.30
35D-SP22	10.0	07/14/05	<0.028	<0.032	<0.038	<0.038	<0.038	<0.037	<0.042	<0.042	<0.052	**0.086**	<0.030	<0.035	<0.058
35D-SP23	10.0	07/14/03	**0.034**	**0.035**	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	**0.038**	**0.036**	<0.015	**0.029**	<0.028
35D-SP24	10.0	07/11/03	<0.014	**0.030**	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.026	**0.018**	**0.032**	**0.026**	<0.029
35D-SP25	10.0	07/11/03	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.026	<0.015	<0.015	<0.018	<0.029
35D-SP26	10.0	07/14/03	<0.013	**0.064**	<0.018	**0.076**	**0.033**	<0.018	<0.020	**0.042**	<0.025	**0.020**	**0.020**	**0.022**	<0.028
35D-SP27	10.0	07/15/03	**0.017**	**0.017**	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	**0.020**	<0.015	<0.017	<0.028
35D-SP28	10.0	07/15/03	<0.013	<0.015	<0.018	<0.018	<0.018	<0.017	<0.020	<0.020	<0.025	<0.014	<0.014	<0.017	<0.028
35D-SP29	10.0	07/14/03	**0.014**	**0.066**	<0.019	**0.062**	**0.029**	<0.019	<0.022	<0.022	<0.027	**0.018**	**0.016**	**0.024**	<0.030
35D-SP29 (dup)	10.0	07/14/03	<0.014	**0.063**	<0.019	**0.058**	**0.029**	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	**0.019**	<0.029
36D-SP21	10.0	07/15/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10
38D-SP20	10.0	07/15/03	**0.023**	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	**0.018**	<0.015	<0.017	<0.028
38D-SP20 (rep)	10.0	07/15/03	**0.020**	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	**0.018**	<0.015	<0.017	<0.028
38D-SP21	10.0	07/15/03	**0.15**	**0.027**	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	**0.015**	<0.015	<0.017	<0.028
38D-SP21 (dup)	10.0	07/15/03	**0.03**	**0.020**	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.017	<0.028
38D-SP22	10.0	07/15/03	<0.027	<0.032	<0.037	<0.037	<0.037	<0.036	<0.042	<0.042	<0.051	<0.030	<0.029	<0.035	<0.057
38D-SP23	10.0	07/16/03	<0.016	**0.025**	<0.022	**0.037**	**0.022**	<0.022	<0.025	**0.026**	<0.031	<0.018	<0.018	<0.021	<0.034
38D-SP23	10.0	06/07/05	<0.021 U	<0.074 U	<0.013 U	<0.048 U	<0.016 U	<0.0051	<0.0058	<0.0092 U	<0.0072	**0.051**	**0.052**	**0.020**	<0.008
38D-SP23* (dup)	10.0	06/07/05	<0.021 U	<0.052 U	<0.015 U	<0.055 U	<0.015 U	<0.0052	<0.0059	<0.016 U	<0.0073	<0.012 U	**0.0062**	**0.0075**	<0.0081
38D-SP23* (dup)	10.0	06/10/05	<0.028	**0.068**	<0.039	**0.058**	<0.039	<0.038	<0.044	<0.044	<0.054	<0.034 U	**0.55**	<0.037	<0.060
38D-SP23	10.0	07/13/05	<0.0090	<0.011	<0.012	**0.014**	<0.012	<0.012	<0.014	<0.014	<0.017	<0.0099	**0.26**	<0.012	<0.019
38D-SP23 (rep)	10.0	07/13/05	<0.0090	<0.011	<0.012	**0.014**	<0.012	<0.012	<0.014	<0.014	<0.017	<0.0099	**0.26**	<0.012	<0.019
38D-SP23 (dup)	10.0	07/13/05	<0.0084	<0.0099	<0.011	<0.011	<0.011	<0.011	<0.013	<0.013	<0.016	<0.0093	**0.19**	<0.011	<0.018
38D-SP23	10.0	09/06/06	**0.10**	<0.020	<0.023	<0.023	**0.13**	**0.023**	<0.026	<0.026	<0.032	<0.019	<0.018	<0.022	<0.036
38D-SP24	10.0		<0.013	<0.015	<0.018	<0.018	<0.018	<0.017	<0.020	<0.020	<0.025	<0.014	<0.014	<0.017	<0.028
38D-SP25	10.0	07/15/03	<0.027	**0.047**	<0.037	**0.085**	**0.049**	<0.036	<0.042	**0.055**	<0.051	<0.030	<0.029	<0.035	<0.057
38D-SP26	10.0		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10
38D-SP27	10.0		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10
38D-SP28	10.0		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10
49ST11-SP03	10.0		**0.017**	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029
49ST11-SP04	10.0		**0.014 j**	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.017	<0.028
34D-SP07	15.0	06/07/05	<0.022 U	<0.073 U	<0.012 U	<0.045 U	<0.014 U	<0.0049	<0.0056	<0.010 U	<0.0069	**0.036**	**0.050**	**0.018**	<0.0077
34D-SP07	15.0	06/09/05	<0.0072	**0.050**	<0.0097	**0.024**	<0.0097	<0.0095	<0.011	<0.011	<0.013	**0.0085**	**0.085**	<0.0092	<0.015
34D-SP07* (dup)	15.0	06/09/05	**0.013**	**0.054**	**0.014**	**0.046**	**0.014**	<0.0050	<0.0057	**0.0090**	<0.007	<0.010 U	**0.090**	**0.006**	<0.0078
34D-SP07	15.0	07/13/05	<0.0040	<0.0048	<0.0055	**0.0054 j**	<0.0055	<0.0054	<0.0062	<0.0062	<0.0076	<0.0044	**0.065**	<0.0052	<0.0085
34D-SP07	15.0	09/06/06	<0.0042	**0.013**	<0.0057	**0.016**	<0.0057	<0.0056	<0.0065	<0.0065	<0.0079	<0.0046	<0.0045	<0.0054	<0.0088
38D-SP23	15.0	06/07/05	<0.015 U	<0.082 U	<0.015 U	<0.058 U	<0.019 U	<0.0052	<0.0059	<0.012 U	<0.0073	<0.021 U	**0.050**	**0.011**	<0.0081
38D-SP23	15.0	06/10/05	<0.020	**0.064**	<0.027	**0.040**	<0.027	<0.027	<0.031	<0.031	<0.038	<0.022	**0.28**	<0.026	<0.042
38D-SP23* (dup)	15.0	06/10/05	**0.041**	**0.057**	<0.019	**0.055**	**0.022**	<0.018	<0.021	**0.024**	<0.026	<0.015	**0.20**	<0.018	<0.029
38D-SP23	15.0	07/14/05	<0.011	<0.014	<0.016	**0.016**	<0.016	<0.015	<0.018	<0.018	<0.022	<0.013	<0.12 U	<0.015	<0.024
38D-SP23	15.0	09/06/06	**0.10**	<0.021	<0.024	<0.024	**0.11**	<0.023	<0.027	<0.027	<0.033	<0.019	<0.019	<0.022	<0.037
34D-SP06	20.0		<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029
34D-SP07	20.0	07/16/03	**0.048**	**0.043**	<0.019	<0.019	<0.019	<0.018	<0.021 UJ	<0.021 UJ	<0.026	**0.046**	<0.015	**0.027**	<0.029
34D-SP08	20.0		<0.014	**0.028**	<0.018	**0.019**	<0.018	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	**0.020**	<0.028

Sample Location	Sample Depth (feet bgs)	Sample Date	Propyl-benzene	CM	Acetone	CDSD	2-Propanol	2-Butanone (MEK)	4-M-2-P	2,2,4-TMP	Tetra-hydro-furan	2-HEX	4-Ethyl toluene	MTBE	Ethanol	Vinyl Chloride
PGOU SVSL:			**14.6**	**9.5**	**329**	**73**	NE	**511**	NE	NE	**0.99**	NE	NE	**7.4**	NE	**0.03**
34D-SP07	5.0	06/06/05	<0.0056	<0.0094	<0.43 U	**0.033**	<0.011	<0.017 U	<0.0047	<0.036 U	<0.0034	<0.019	<0.010 U	<0.0041	<0.0086	<0.0029
34D-SP07	5.0	06/09/05	<0.011	<0.018	**1.7**	**0.0092**	<0.021	<0.0091 U	<0.0088	**0.030**	<0.0064	<0.035	<0.011	<0.0078	<0.016	<0.0055
34D-SP07*	5.0	07/13/05	<0.0059	<0.010	<0.29 U	<0.0038	<0.012	<0.032 U	<0.0050	<0.0056	<0.0036	<0.020	<0.0059	<0.0044	<0.0091	<0.0031
34D-SP07	5.0	09/06/06	<0.0069	<0.012	**0.070**	<0.0044	<0.014	**0.0046**	<0.0058	<0.0066	<0.0042	<0.023	<0.0069	<0.0051	<0.011	<0.0036
34D-SP08	5.0		<0.042	<0.071	**0.082 j**	<0.11	<0.085	<0.10			<0.10	<0.14	<0.17	<0.12	<0.065	<0.022
35D-SP20	5.0		<0.021	<0.036	**0.13**	<0.054	<0.042	<0.051			<0.051	<0.071	<0.085	<0.062 uj	<0.033	<0.011
35D-SP22	5.0	06/06/05	**0.0072 J**	<0.010	<0.53 U	**0.019**	<0.012	<0.018 U	**0.0065**	<0.035 U	<0.0037	<0.021	<0.014 U	<0.0046	<0.0095	<0.0032
35D-SP22	5.0	06/09/05	<0.010	<0.017	**1.0**	**0.037**	<0.020	<0.0098 U	<0.0084	**0.023**	<0.0060	<0.034	<0.010	<0.0074	<0.015	<0.0052
35D-SP22*	5.0	07/14/05	<0.0055	<0.0092	<0.48 U	**0.012**	<0.011	<0.046 U	<0.0046	**0.0065**	<0.0033	<0.018	<0.0055	<0.0040	<0.0084	<0.0029
35D-SP29	5.0		<0.020	<0.034	**0.069**	<0.052	<0.041	<0.049			<0.049	<0.068	<0.082	<0.060 uj	<0.031	<0.011
36D-SP18	5.0		<0.021	<0.036	**0.12**	<0.054	<0.042	<0.051			<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
38D-SP23	5.0	08/07/03	<0.043	<0.073	**0.20**	<0.11	<0.086	<0.10	<0.14	NA	<0.10	<0.14	<0.17	<0.13 uj	<0.066	<0.022
38D-SP23 (rep)	5.0	08/07/03	<0.043	<0.073	**0.20**	<0.11	<0.086	<0.10	<0.14	NA	<0.10	<0.14	<0.17	<0.13 uj	<0.066	<0.022
38D-SP23	5.0	06/07/05	<0.0081	<0.014	<0.96 U	**0.046**	<0.016	<0.022 U	**0.011**	<0.068 U	<0.005 U	<0.027	<0.012 U	<0.0059	<0.021 U	<0.0042
38D-SP23 (dup)	5.0	06/07/05	<0.0081	<0.014	**0.94**	**0.044**	<0.016	**0.022**	**0.0098**	**0.066**	**0.0063**	<0.027	**0.013**	<0.0059	**0.017**	<0.0042
38D-SP23	5.0	06/10/05	<0.024	<0.040	**4.5**	<0.076 U	<0.048	<0.028 U	<0.020	**0.067**	<0.014	<0.079	<0.024	<0.017	<0.036	<0.012
38D-SP23*	5.0	07/13/05	<0.025	<0.042	<1.0 U	<0.016	<0.050	<0.10 U	<0.021	<0.024	<0.015	<0.083	<0.025	<0.018	<0.038	<0.013
38D-SP23	5.0	09/06/06	<0.028	<0.048	**0.37**	<0.018	<0.057	**0.087**	<0.024	<0.027	<0.017	<0.095	<0.028	<0.021	<0.044	<0.015
38D-SP25	5.0		<0.022	<0.037	**0.19**	<0.056	<0.044	**0.058**			<0.053	<0.073	<0.088	<0.064 uj	<0.034	<0.011
34D-SP07	10.0	07/16/03	<0.021 UJ	<0.036	**0.065**	<0.054	<0.042	<0.051	<0.071	NA	<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
34D-SP07	10.0	06/06/05	<0.0059	<0.010	<0.68 U	<0.0038	<0.012	<0.017 U	**0.0064**	<0.048 U	<0.0036	<0.020	<0.012 U	<0.0044	<0.0091	<0.0031
34D-SP07* (dup)	10.0	06/06/05	<0.022	<0.038	<0.950 U	<0.014	<0.045	<0.014	<0.019	<0.075 U	<0.014	<0.075	<0.022	<0.016	<0.034	<0.012
34D-SP07	10.0	06/09/05	<0.0054	<0.0091	<0.087 U	<0.0034	<0.011	<0.0032	<0.0045	<0.0051	**0.0046**	<0.018	<0.0054	<0.0040	<0.0083	<0.0028
34D-SP07	10.0	07/13/05	<0.0059	<0.010	<0.58 U	<0.0038	<0.012	<0.043 U	<0.0050	<0.0056	<0.0036	<0.020	<0.0059	<0.0044	<0.0091	<0.0031
34D-SP07 (dup)	10.0	07/13/05	<0.0061	<0.010	<0.47 U	**0.0068**	<0.012	<0.035 U	<0.0050	<0.0058	<0.0036	<0.020	<0.0061	<0.0044	<0.0093	<0.0032
34D-SP08	10.0	09/01/06	<0.033	<0.055	<0.064	**0.029**	<0.066	**0.027**	<0.027	<0.031	<0.020	<0.11	<0.033	<0.024	<0.050	<0.017
34D-SP06	10.0		<0.021	<0.036	<0.041	<0.054	<0.042	<0.051			<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
34D-SP07	10.0		<0.021 UJ	<0.036	**0.065**	<0.054	<0.042	<0.051			<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
34D-SP08	10.0		<0.041	<0.069	<0.079	<0.10	<0.082	<0.098			<0.098	<0.14	<0.16	<0.12	<0.063	<0.021
34D-SP09	10.0		NA	<0.10	NA	NA	NA	NA			NA	NA	NA	NA	NA	<0.10
35D-SP20	10.0	07/14/03	**0.036**	<0.038	**1.2**	**2.0**	<0.045	**0.40**	<0.075	NA	<0.054	**0.062 j**	**0.19**	<0.066	**0.064**	<0.018
35D-SP22	10.0	07/14/03	<0.021	<0.036	**0.38**	**0.062**	<0.042	**0.55**	<0.071	NA	**1.2**	<0.071	<0.085	<0.062	**0.051**	<0.011
35D-SP22	10.0	06/06/05	<0.045	<0.076	**0.23**	<0.028	<0.090	<0.027	<0.037	<0.043	<0.027	<0.15	<0.045	<0.033	<0.069	<0.023
35D-SP22 (rep)	10.0	06/06/05	<0.045	<0.076	**0.23**	<0.028	<0.090	<0.027	<0.037	<0.043	<0.027	<0.15	<0.045	<0.033	<0.069	<0.023
35D-SP22* (dup)	10.0	06/06/05	<0.61	<1.0	<1.2	<0.38	<1.2	<0.36	<0.50	<0.58	<0.36	<2.0	<0.61	<0.44	<0.93	<0.32
35D-SP22	10.0	06/09/05	<0.22	<0.37	**22**	<0.14	<0.44	<0.13	<0.18	<0.21	<0.13	<0.73	<0.22	<0.16	<0.34	<0.11
35D-SP22	10.0	07/14/05	<0.042	<0.071	<1.6 U	**0.26**	<0.085	<0.12 U	<0.035	<0.040	**0.028**	<0.14	<0.042	<0.031	<0.065	<0.022
35D-SP23	10.0	07/14/03	<0.021	<0.035	**0.091**	<0.053	<0.042	<0.050	<0.070	NA	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
35D-SP24	10.0	07/11/03	<0.022	<0.036	**0.11**	<0.055	<0.043	<0.052	<0.072	NA	<0.052	<0.072	<0.086	<0.063 uj	<0.033	<0.011
35D-SP25	10.0	07/11/03	<0.022	<0.036	**0.079**	<0.055	<0.043	<0.052	<0.072	NA	<0.052	<0.072	<0.086	<0.063 uj	<0.033	<0.011
35D-SP26	10.0	07/14/03	<0.020	<0.034	**0.29**	<0.052	<0.041	**0.062**	<0.068	NA	<0.049	<0.068	<0.082	<0.060	**0.045**	<0.011
35D-SP27	10.0	07/15/03	<0.021	<0.035	**0.074**	<0.053	<0.042	<0.050	<0.070	NA	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
35D-SP28	10.0	07/15/03	<0.020	<0.034	**0.24**	**0.10**	<0.040	**0.054**	<0.067	NA	<0.048	<0.067	<0.081	<0.059	<0.031	<0.010
35D-SP29	10.0	07/14/03	<0.022	<0.037	**0.13**	<0.056	<0.044	<0.053	<0.073	NA	<0.053	<0.073	<0.088	<0.064	<0.034	<0.011
35D-SP29 (dup)	10.0	07/14/03	<0.021	<0.036	**0.079**	<0.054	<0.042	<0.051	<0.071	NA	<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
36D-SP21	10.0	07/15/03	<0.10	<0.10	NA	NA	NA	NA	<0.070	NA	NA	NA	NA	NA	NA	<0.10
38D-SP20	10.0	07/15/03	<0.021	<0.035	**0.14**	<0.053	<0.042	<0.050	<0.070	NA	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
38D-SP20 (rep)	10.0	07/15/03	<0.021	<0.035	**0.13**	<0.053	<0.042	<0.050	<0.070	NA	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
38D-SP21	10.0	07/15/03	<0.021	<0.035	**0.080**	<0.053	<0.042	<0.050	<0.070	NA	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
38D-SP21 (dup)	10.0	07/15/03	<0.021	<0.035	**0.078**	<0.053	<0.042	<0.050	<0.070	NA	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
38D-SP22	10.0	07/15/03	<0.042	<0.070	**0.10**	<0.10	<0.083	<0.10	<0.14	NA	<0.10	<0.14	<0.17	<0.12	<0.064	<0.022
38D-SP23	10.0	07/16/03	<0.025	<0.042	**0.20**	<0.064	<0.050	<0.060	<0.084	NA	<0.060	<0.084	<0.10	<0.074	<0.039	<0.013
38D-SP23	10.0	06/07/05	<0.0058	<0.0098	<0.54 U	**0.027**	<0.012	<0.013 U	**0.019**	<0.071 U	<0.0035	<0.019	<0.012 U	<0.0043	<0.009	<0.003
38D-SP23* (dup)	10.0	06/07/05	**0.0066 J**	<0.010	<0.58 U	**0.028**	<0.012	<0.018 U	<0.005	<0.038 U	<0.0036	<0.020	<0.016 U	<0.0044	<0.0091	<0.0031
38D-SP23* (dup)	10.0	06/10/05	<0.044	<0.074	**7.0**	<0.051 U	<0.088	<0.027 U	<0.037	**0.098**	<0.026	<0.15	<0.044	<0.032	<0.067	<0.023
38D-SP23	10.0	07/13/05	<0.014	<0.023	<1.4 U	<0.0088	<0.028	<0.11 U	<0.012	<0.013	<0.0083	<0.046	<0.014	<0.010	<0.033 U	<0.0072
38D-SP23 (rep)	10.0	07/13/05	<0.014	<0.023	**1.4**	<0.0088	<0.028	**0.11**	<0.012	<0.013	<0.0083	<0.046	<0.014	<0.010	**0.032**	<0.0072
38D-SP23 (dup)	10.0	07/13/05	<0.013	<0.022	<1.2 U	<0.0082	<0.026	<0.087 U	<0.011	<0.012	<0.0078	<0.043	<0.013	<0.0095	<0.021 U	<0.0067
38D-SP23	10.0	09/06/06	<0.026	<0.045	**0.67**	<0.017	<0.053	**0.20**	<0.022	<0.025	<0.016	<0.088	<0.026	<0.019	<0.041	<0.014
38D-SP24	10.0		<0.020	<0.034	**0.092**	<0.051	<0.040	<0.048			<0.048	<0.067	<0.081	<0.059	<0.031	<0.010
38D-SP25	10.0	07/15/03	<0.042	<0.070	**0.80**	<0.10	<0.083	**0.17**	<0.14	NA	<0.10	<0.14	<0.17	<0.12	<0.064	<0.022
38D-SP26	10.0		<0.10	<0.10	NA	NA	NA	NA			NA	NA	NA	NA	NA	<0.10
38D-SP27	10.0		<0.10	<0.10	NA	NA	NA	NA			NA	NA	NA	NA	NA	<0.10
38D-SP28	10.0		<0.10	<0.10	NA	NA	NA	NA			NA	NA	NA	NA	NA	<0.10
49ST11-SP03	10.0		<0.021	<0.036	**0.088**	<0.054	<0.042	<0.051			<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
49ST11-SP04	10.0		<0.021	<0.035	**0.10**	<0.053	<0.042	<0.050			<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
34D-SP07	15.0	06/07/05	<0.0056	<0.0094	<0.70 U	**0.015**	<0.011	<0.014 U	<0.0047	<0.064 U	<0.0034	<0.019	<0.011 U	<0.0041	<0.0086	<0.0029
34D-SP07	15.0	06/09/05	<0.011	<0.018	**1.1**	**0.012**	<0.022	<0.0066	<0.0092	**0.029**	<0.0066	<0.037	<0.011	<0.0081	<0.017	<0.0057
34D-SP07* (dup)	15.0	06/09/05	**0.012**	<0.0096	**0.89**	<0.018 U	<0.011	<0.0077 U	<0.0048	**0.026**	<0.0034	<0.019	**0.0098**	<0.0042	<0.0088	<0.0030
34D-SP07	15.0	07/13/05	<0.0062	<0.010	<0.44 U	<0.0039	<0.012	<0.032 U	<0.0052	<0.0059	<0.0037	<0.021	<0.0062	<0.0046	<0.0095	<0.0032
34D-SP07	15.0	09/06/06	<0.0065	<0.011	**0.079**	**0.0044**	**0.016**	**0.010**	<0.0054	<0.0062	<0.0039	<0.022	<0.0065	<0.0048	**0.017**	<0.0034
38D-SP23	15.0	06/07/05	<0.0059	<0.010	<0.60 U	**0.011**	<0.012	<0.018 U	<0.005	<0.077 U	<0.0045 U	<0.020	<0.014 U	<0.0044	<0.0098 U	<0.0031
38D-SP23	15.0	06/10/05	<0.031	<0.052	**5.30**	<0.029 U	<0.062	<0.027 U	<0.026	**0.072**	<0.018	<0.10	<0.031	<0.023	<0.047	<0.016
38D-SP23* (dup)	15.0	06/10/05	<0.021	<0.036	**3.20**	<0.027 U	<0.042	<0.018 U	<0.018	**0.042**	<0.013	<0.071	<0.021	<0.016	<0.032	<0.011
38D-SP23	15.0	07/14/05	<0.018	<0.030	<0.48 U	**0.018**	<0.035	<0.037 U	<0.015	<0.017	<0.010	<0.059	<0.018	<0.013	<0.027	<0.0092
38D-SP23	15.0	09/06/06	<0.027	<0.045	**1.70**	<0.017	<0.054	**0.54**	<0.022	<0.026	<0.016	**0.24**	<0.027	<0.020	**0.051**	<0.014
34D-SP06	20.0		<0.021	<0.036	<0.041	<0.054	<0.042	<0.051			<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
34D-SP07	20.0	07/16/03	<0.021 UJ	<0.036	**0.12**	<0.054	<0.042	<0.051	<0.071	NA	<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
34D-SP08	20.0		<0.021	<0.035	**0.59**	<0.053	<0.042	**0.16**			<0.050	<0.070	<0.084	<0.061	**0.097**	<0.011

Table 5-4 Summary of Volatile Organic Compound (VOC) Analysis of Soil Vapor Samples
Sites 34D, 35D, and 38D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Sample Date	Freon 11	CB	CE	DCM	1,1-DFA	1,1-DCA	1,1-DCE	cis-1,2-DCE	CF	1,1,1-TCA	TCE	PCE	B	T	EB	m,p-Xylene	o-Xylene	Styrene	1,3,5-TMB	1,2,4-TMB	1,2-DCB	Hexane	Cyclo-Hexane	Heptane	BDCM	Propyl-benzene	CM	Acetone	CDSD	2-Propanol	2-Butanone (MEK)	4-M-2-P	2,2,4-TMP	Tetra-hydro-furan	2-HEX	4-Ethyl toluene	MTBE	Ethanol	Vinyl Chloride
PGOU SVSL:			**73**	**6.2**	**2.32**	**20.8**	NE	**1.2**	**20.8**	**3.7**	**0.08**	**0.12**	**0.96**	**0.32**	**0.08**	**40.1**	**106**	**10.6**	**10.6**	**106**	**0.62**	**0.62**	**20.9**	**20.8**	**620**	NE	**0.11**	**14.6**	**9.5**	**329**	**73**	NE	**511**	NE	NE	**0.99**	NE	NE	**7.4**	NE	**0.03**
34D-SP09	20.0		<0.10		<0.10	<0.10	NA	<0.10	**0.15**	<0.10	<0.10	**0.27**	**3.8**	**0.28**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	NA	<0.10	NA	NA	NA	NA			NA	NA	NA	NA	NA	<0.10
35D-SP20	18.0	07/14/03	<0.023	<0.019	<0.011	<0.014	NA	<0.017	<0.016	<0.016	<0.020	<0.023	<0.022	<0.028	**0.032**	**0.16**	**0.070**	**0.20**	**0.12**	<0.018	**0.029**	**0.12**	<0.025	**0.070**	**0.11**	**0.092**	<0.028	**0.034**	<0.034	**0.49**	**0.53**	<0.041	**0.10**	<0.068	NA	<0.049	<0.068	**0.16**	<0.060	**0.066**	<0.011
35D-SP22	20.0	07/14/03	<0.025	<0.020	<0.012	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	**0.062**	<0.030	**0.015**	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.026	**0.063**	**0.18**	**0.028**	<0.029	<0.022	<0.036	**0.20**	**0.071**	<0.043	<0.052	<0.072	NA	<0.052	<0.072	<0.086	<0.063	**0.037**	<0.011
35D-SP22	20.0	06/06/05	<0.0071	<0.0058	<0.0033	<0.0044	**0.048**	<0.0051	<0.005	<0.005	<0.0062	<0.0069	<0.0068	<0.0086	<0.012 U	<0.047 U	<0.0083 U	<0.032 U	<0.0095 U	<0.0054	<0.0062	<0.0073 U	<0.0076	**0.0078**	<0.0044	<0.0052	<0.0085	<0.0062	<0.010	<0.10 U	**0.011**	<0.012	<0.0063 U	<0.0052	<0.043 U	<0.0037	<0.021	<0.0076 U	<0.0046	<0.0095	<0.0032
35D-SP22	20.0	06/09/05	<0.016	<0.013	<0.0073	<0.0096	<0.030	<0.011	<0.011	<0.011	<0.013	<0.015	<0.015	**0.029 J**	**0.6 J**	**2.3 J**	**0.49 J**	**1.3 J**	**0.65 J**	<0.012	**0.097 J**	**0.33 J**	<0.016	**2.4 J**	**0.54 J**	**2.8 J**	<0.018	**0.12 J**	<0.023	**1.2 J**	**0.027 J**	<0.027	<0.025 U	<0.011	<0.013	<0.0081	<0.045	**0.46 J**	<0.010	<0.021	<0.0070
35D-SP22* (dup)	20.0	06/09/05	<0.0069	<0.0057	<0.0032	<0.0043	**0.45**	<0.0050	<0.0049	<0.0049	<0.0060	<0.0067	<0.0066	<0.0084	<0.0039	**0.046**	**0.013**	**0.051**	**0.019**	<0.0053	<0.0061	**0.016**	<0.0074	<0.0044	<0.0042	<0.0051	<0.0083	<0.0061	<0.010	**0.65**	**0.012**	<0.012	<0.011 U	<0.0050	**0.027**	<0.0036	<0.020	**0.016**	<0.0044	<0.0093	<0.0032
35D-SP22* (rep)	20.0	06/09/05	<0.0069	<0.0057	<0.0032	<0.0043	**0.44**	<0.0050	<0.0049	<0.0049	<0.0060	<0.0067	<0.0066	<0.0084	<0.0039	**0.045**	**0.013**	**0.051**	**0.019**	<0.0053	<0.0061	**0.016**	<0.0074	<0.0044	<0.0042	<0.0051	<0.0083	<0.0061	<0.010	**0.64**	**0.012**	<0.012	**0.010**	<0.0050	**0.025**	<0.0036	<0.020	**0.016**	<0.0044	<0.0093	<0.0032
35D-SP22	20.0	07/14/05	<0.0064	<0.0053	<0.0030	<0.0040	<0.012	<0.0046	<0.0045	<0.0045	<0.0056	<0.0062	<0.0062	<0.0078	<0.0036	**0.024**	**0.0068**	**0.023**	**0.0086**	<0.0049	<0.0056	<0.0056	<0.0069	<0.0040	<0.0039	<0.0047	<0.0077	<0.0056	<0.0094	<0.59 U	**0.012**	<0.011	<0.043 U	<0.0047	**0.011**	<0.0034	<0.019	<0.0056	<0.0041	<0.0086	<0.0029
35D-SP22 (dup)	20.0	07/14/05	<0.014	<0.011	<0.0064	<0.0084	<0.026	<0.0098	<0.0096	<0.0096	<0.012	<0.013	<0.013	<0.016	<0.0077	**0.024**	<0.010	**0.022**	<0.010	<0.010	<0.012	<0.012	<0.014	<0.0085	<0.0083	<0.0099	<0.016	<0.012	<0.020	<0.85 U	**0.014**	<0.024	<0.053 U	<0.0099	**0.013**	<0.0072	<0.040	<0.012	<0.0087	<0.018	<0.0062
35D-SP24	20.0	07/11/03	<0.024	<0.020	<0.011	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	<0.023	<0.029	<0.014	**0.047**	<0.019	**0.021**	<0.019	<0.018	<0.021	<0.021	<0.026	**0.021**	**0.083**	**0.026**	<0.029	<0.021	<0.036	<0.041	<0.054	<0.042	<0.051	<0.071	NA	<0.051	<0.071	<0.085	<0.062 uj	<0.033	<0.011
35D-SP25	20.0	07/11/03	<0.024	<0.020	<0.011	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	<0.023	**0.058**	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029	<0.021	<0.036	**0.073**	<0.054	<0.042	<0.051	<0.071	NA	<0.051	<0.071	<0.085	<0.062 uj	<0.033	<0.011
35D-SP26	20.0	07/14/03	<0.023	<0.019	<0.011	<0.014	NA	<0.017	<0.016	<0.016	<0.020	<0.023	**0.87**	**0.57**	<0.013	**0.028**	<0.018	**0.031**	<0.018	<0.018	<0.020	<0.020	<0.025	**0.017**	<0.014	**0.017 j**	<0.028	<0.020	<0.034	**0.22**	<0.052	<0.041	**0.054**	<0.068	NA	<0.049	<0.068	<0.082	<0.060	**0.031 j**	<0.011
35D-SP26 (rep)	20.0	07/14/03	<0.023	<0.020	<0.011	<0.014	NA	<0.017	<0.016	<0.016	<0.020	<0.023	**0.86**	**0.56**	<0.013	**0.030**	<0.018	**0.031**	<0.018	<0.018	<0.020	<0.020	<0.025	**0.016**	<0.014	<0.017	<0.028	<0.020	<0.034	**0.22**	<0.052	<0.041	**0.052**	<0.068	NA	<0.049	<0.068	<0.082	<0.060	<0.031	<0.011
35D-SP27	20.0	07/15/03	<0.024	<0.020	<0.011	<0.015	NA	<0.017	<0.017	<0.017	<0.021	<0.023	<0.023	**0.091**	**0.015**	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	**0.018**	<0.015	<0.017	<0.028	<0.021	<0.035	**0.20**	<0.053	<0.042	**0.050**	<0.070	NA	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
35D-SP29	20.0	07/14/03	<0.024	<0.020	<0.011	<0.015	NA	<0.018	<0.017	**0.044**	<0.021	**0.026**	**2.0**	**1.0**	**0.020**	**0.090**	**0.028**	**0.10**	**0.054**	<0.018	**0.022**	**0.080**	<0.026	**0.028**	**0.031**	**0.038**	<0.029	<0.021	<0.036	**0.52**	<0.054	<0.042	**0.15**	<0.071	NA	<0.051	<0.071	<0.085	<0.062	**0.067**	<0.011
36D-SP18	20.0		<0.17		<0.080	<0.10	NA	<0.12 UJ	<0.12	<0.12	**0.81**	<0.16	**39**	**8.5**	<0.097	<0.11	<0.13	<0.13	<0.13	<0.13	<0.15 UJ	<0.15 UJ	<0.18 UJ	<0.11	<0.10	<0.12	<0.20	<0.15 UJ	<0.25	<0.29	<0.38	<0.30	<0.36			<0.36	<0.50	<0.60	<0.44	<0.23	<0.078
36D-SP18 (rep)	20.0		<0.12		<0.056	<0.074	NA	<0.086 UJ	<0.084	**0.13**	**1.0**	**0.19**	**49 e**	**10**	<0.068	<0.080	<0.092	<0.092	<0.092	<0.090	<0.10 UJ	<0.10 UJ	<0.13 UJ	<0.075	<0.073	<0.087	<0.14	<0.10 UJ	<0.18	<0.20	<0.26	<0.21	<0.25			<0.25	<0.35	<0.42	<0.31	<0.16	<0.054
36D-SP20	20.0		<0.048		<0.022	<0.029	NA	<0.034	<0.034	<0.034	**0.70**	<0.046	**8.4**	**3.5**	<0.027	<0.032	<0.037	<0.037	<0.037	<0.036	<0.042	<0.042	<0.051	<0.030	<0.029	<0.035	<0.057	<0.042	<0.070	<0.081	<0.10	<0.083	<0.10			<0.10	<0.14	<0.17	<0.12	<0.064	<0.022
36D-SP20 (rep)	20.0		<0.060		<0.028	<0.037	NA	<0.043	<0.042	<0.042	**0.75**	<0.058	**8.9**	**3.8**	<0.034	<0.040	<0.046	<0.046	<0.046	<0.045	<0.052	<0.052	<0.064	<0.037	<0.036	<0.044	<0.071	<0.052	<0.088	<0.10	<0.13	<0.10	<0.12			<0.12	<0.17	<0.21	<0.15	<0.080	<0.027
36D-SP21	20.0		<0.10		<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.16**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA			NA	NA	NA	NA	NA	<0.10
36D-SP21 (dup)	20.0		<0.10		<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.10**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA			NA	NA	NA	NA	NA	<0.10
38D-SP20	20.0	07/15/03	<0.039	<0.032	<0.018	<0.024	NA	<0.028	<0.028	**0.11**	<0.034	**0.36**	**12**	**0.18**	**0.027**	**0.036**	<0.030	**0.032**	<0.030	<0.030	<0.034	<0.034	<0.042	**0.058**	**0.045**	**0.034**	<0.047	<0.034	<0.058	**0.77**	<0.087	<0.069	**0.12**	<0.11	NA	<0.083	<0.11	<0.14	<0.10	**0.11**	<0.018
38D-SP21	20.0	07/15/03	<0.024	<0.020	<0.011	<0.015	NA	<0.017	<0.017	<0.017	<0.021	<0.023	**0.080**	<0.029	<0.014	**0.043**	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	**0.046**	**0.16**	**0.037**	<0.028	<0.021	<0.035	**0.074**	<0.053	<0.042	<0.050	<0.070	NA	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
38D-SP22	20.0	07/15/03	<0.061	<0.050	<0.028	<0.038	NA	<0.044	<0.043	**0.11**	**0.074**	**0.41**	**14**	**7.4 J**	<0.034	<0.041	<0.047	<0.047	<0.047	<0.046	<0.053	<0.053	<0.065	**0.048**	<0.037	<0.044	<0.072	<0.053	<0.089	**0.31**	<0.13	<0.11	<0.13	<0.18	NA	<0.13	<0.18	<0.21	<0.16	<0.082	<0.028
38D-SP23	20.0	07/16/03	<0.12	<0.094	<0.054	<0.071	NA	<0.083	<0.081	**1.7**	<0.10	**0.19**	**31**	**8.6**	<0.066	<0.077	<0.089	<0.089	<0.089	<0.087	<0.10	<0.10	<0.12	<0.072	<0.071	<0.084	<0.14	<0.10	<0.17	<0.20	<0.26	<0.20	<0.24	<0.34	NA	<0.24	<0.34	<0.40	<0.30	<0.15	<0.052
38D-SP24	20.0		<0.023		<0.011	**0.023**	NA	<0.017	<0.016	<0.016	**0.028**	<0.022	**0.043**	<0.028	<0.013	**0.016**	<0.018	<0.018	<0.018	<0.017	<0.020	<0.020	<0.025	<0.014	<0.014	<0.017	<0.028	<0.020	<0.034	<0.039	<0.051	<0.040	<0.048			<0.048	<0.067	<0.081	<0.059	<0.031	<0.010
38D-SP25	20.0	07/15/03	<0.61	<0.050	<0.28	<0.38	NA	<0.44	**0.51**	**7.1**	<0.53	<0.59	**160**	**8.0 J**	<0.34	<0.41	<0.47	<0.47	<0.47	<0.46	<0.53	<0.53	<0.65	<0.38	<0.37	<0.44	<0.72	<0.53	<0.89	<1.0	<1.3	<1.1	<1.3	<1.8	NA	<1.3	<1.8	<2.1	<1.6	<0.82	<0.28
49ST11-SP04	20.0		<0.10		<0.10	<0.10	NA	<0.10	<0.10	<0.10	**0.18**	<0.10	**0.45**	**0.11**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA			NA	NA	NA	NA	NA	<0.10
38D-4485	20.0		<0.15		<0.071	<0.094	NA	<0.11	**0.12**	**1.3**	<0.13	**0.39**	**42**	**40**	<0.086	<0.10	<0.12	<0.12	<0.12	<0.12	<0.13	<0.13	<0.16	<0.095	<0.093	<0.11	<0.18	<0.13	<0.22	<0.26	<0.34	<0.26	<0.32			<0.32	<0.44	<0.53	<0.39	<0.20	<0.069
38D-4490	18.0		<0.058		<0.027	<0.036	NA	<0.042	**0.041 j**	**4.6**	<0.051	**0.31**	**19**	**2.9**	<0.033	<0.039	<0.045	<0.045	<0.045	<0.044	<0.051	<0.051	<0.063	<0.037	<0.036	<0.043	<0.070	<0.051	<0.086	<0.099	<0.13	<0.10	<0.12			<0.12	<0.17	<0.20	<0.15	<0.078	<0.027
38D-4495	20.0		<0.80		<0.37	<0.49	NA	<0.57	<0.56	**25**	<0.69	**2.4**	**240**	**11**	<0.45	<0.53	<0.62	<0.62	<0.62	<0.60	<0.70	<0.70	<0.85	<0.50	<0.49	<0.58	<0.95	<0.70	<1.2	<1.3	<1.8	<1.4	<1.7			<1.7	<2.3	<2.8	<2.0	<1.1	<0.36
38D-SVE1	20.0		<2.4		<1.1	<1.5	NA	<1.8	**1.8**	**2.5**	<2.1	<2.4	**500**	**6.2**	<1.4	<1.6	<1.9	<1.9	<1.9	<1.8	<2.1	<2.1	<2.6	<1.5	<1.5	<1.8	<2.9	<2.1	<3.6	<4.1	<5.4	<4.2	<5.1			<5.1	<7.1	<8.5	<6.2	<3.3	<1.1
38D-SVE1 (rep)	20.0		<2.4		<1.1	<1.5	NA	<1.8	**1.7 j**	**2.1**	<2.1	<2.4	**440**	**6.0**	<1.4	<1.6	<1.9	<1.9	<1.9	<1.8	<2.1	<2.1	<2.6	<1.5	<1.5	<1.8	<2.9	<2.1	<3.6	<4.1	<5.4	<4.2	<5.1			<5.1	<7.1	<8.5	<6.2	<3.3	<1.1
38D-SVE2	16.0		<0.0078		<0.0037	**0.0089**	NA	<0.0056	**0.018**	**1.4**	<0.0068	**0.0089**	**2.1**	**0.040**	<0.0044	**0.016**	<0.0060	<0.0060	<0.0060	<0.0059	<0.0068	<0.0068	<0.0083	<0.0049	**0.0078**	<0.0057	<0.0093	<0.0068	<0.011	**0.015**	<0.017	**0.090**	<0.016			<0.016	<0.023	<0.027	<0.020	<0.010	0.004

Notes and Key:
Concentrations reported in milligrams per cubic meter (mg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
Concentrations above human health soil screening levels (HH SSLs) are shaded.
* = Sample collected in inidividual certified canister.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Field duplicate sample
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
rep = Laboratory replicate sample
RI/FS = Remedial Investigation/Feasibility Study
SVSL = Soil vapor screening level

Compound Abbreviations:
B = Benzene
BDCM = Bromodichloromethane
CB = Chlorobenzene
CDSD = Carbon Disulfide
CE = Chloroethane
CF = Chloroform
CM = Chloromethane
DCB = Dichlorobenzene
DCE = Dichloroethylene
DCM = Dichloromethane
DCP = Dichloropropene
DFA = Difluoroethane (leak check gas)
EB = Ethylbenzene
Freon 11 = Trichlorofluoromethane
HEX = Hexanone
MEK = Methyl ethyl ketone
4-M-2-P = 4-Methyl-2-pentanone
MTBE = Methyl tertiary butyl ether
PCE = Tetrachloroethane
TCA = Trichloroethane
TCE = Trichloroethene
TMB = Trimethylbenzene
TMP = Trimethylpentane

Laboratory Qualifiers:
j = Estimated value.
uj = Non detected compound associated with low bias in the continuing calibration verification.

Data Validation Qualifiers:
J = Indicates an estimated value.
U = Indicates the compound or analyte was analyzed for but not detected at or above the stated limit

Table 5-5 *Summary of Proposed and Actual Subsurface Soil Sampling Activities for Sites in Area 49*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Number of Proposed Sampling Locations	Proposed Sample Depths	Proposed Number of Samples	Proposed Analyte(s)	Rationale	Boring ID	Number of Samples Collected	Sample Depths (ft bgs)	Analyte(s)	Comments
32D	**Area 49 Surface Water Drainage Ditch System** Unlined ditch 2 Sumps & UST - Bldg 49008 3 Acid Storage Tanks - Bldgs 49019/49092 6 Storage Tanks - Bldgs 49090 & 49091	2	2.5 feet and at 5-foot intervals to first groundwater	10**	SVOCs Metals TPH pH	Collect subsurface soil samples from two borings: One boring located in area of former acid holding tanks (Bldg 49019/49092). One boring located in area of former storage tank farm (Bldgs 49090 and 49091).	32D-SB05	9	2.5, 7, 10, 15, 25, 30, 35, 40, 45	SVOCs Metals TPH pH	Total depth of boring = 50 ft bgs. Depth to groundwater = 44.85 ft bgs. No sample recovery at 20 ft bgs.
							32D-SB06	8	2.5, 10, 15, 25, 30, 35, 40, 45	SVOCs Metals TPH pH	Total depth of boring = 50 ft bgs. Depth to groundwater = 48.25 ft bgs. No sample recovery at 20 ft bgs.
		1	2.5 feet and at 5-foot intervals to first groundwater	10**	SVOCs Metals TPH	Collect subsurface soil samples from one boring at former location of UST east of former Bldg 49008.	32D-SB07	8	2.5, 5, 10, 15, 30, 35, 40, 45	SVOCs Metals TPH	Total depth of boring = 45 ft bgs. Depth to groundwater = 47.0 ft bgs. Second boring advanced to 25 ft bgs. No sample recovery at 20 and 25 ft bgs in both borings.
38D	**Area 49 Surface Water Drainage System** Surface Water Runoff Sump & UST - Bldg 49018	1	2.5 feet and at 5-foot intervals to first groundwater	10**	SVOCs	Collect subsurface soil samples from one boring placed in the approximate location of Stage 1 RI boring 38D-AH1B1.	38D-SB08	6	2.5, 20, 25, 30, 35, 40	SVOCs	Total depth of boring = 45 ft bgs. Depth to groundwater = 44.30 ft bgs. Second boring advanced to 15 ft bgs. No sample recovery at 5, 10, and 15 ft bgs in both borings.
35D	**Large Degreaser Sump at Building 49014** Building 49014 is Inert Chamber Processing 2 septic tanks - Bldgs 49006 & 49014	2	2.5 feet and at 5-foot intervals to first groundwater	10**	SVOCs	Collect subsurface soil samples from two borings: One boring placed in the approximate former location of boring 35D-AH1B. One boring placed in approximate former location of boring 35D-MV01.	35D-SB25	5	2.5, 10, 35, 40, 45	SVOCs	Three borings drilled to collect soil samples. Depth to groundwater = 48.8 ft bgs. No sample recovery at 5, 15, 20, and 30 ft bgs.
							35D-SB26	10	2.5, 6, 11, 15, 20, 25, 30, 35, 40, 45	SVOCs	Total depth of boring = 50 ft bgs. Depth to groundwater = 47.3 ft bgs. Two borings drilled to collect soil samples.
33D	**Chemical Waste Sump at Building 49010** Chemical Sampling	1	1 foot and at 5-foot intervals to first groundwater	10**	SVOCs	Confirm presence of SVOCs and SVOC TICs in soil from Stage 1 boring 33D-AH01.	33D-SB01	9	1, 5, 10, 15, 20, 30, 35, 40, 45	SVOCs	Total depth of boring = 50 ft bgs. Depth to groundwater = 40.5 ft bgs. No sample recovery at 25 ft bgs.
36D	**Abandoned Chemical Waste Tank, Degreaser Sump, and Septic Tank North Side of Building 49015** Tactical Process and Inert Chamber Processing	1	2.5 feet and at 5-foot intervals to first groundwater	10**	SVOCs	Collect subsurface samples from boring at approximate location of 36D-AH1B1 adjacent to chemical waste tank. Analyze samples for SVOCs. Collect Hydropunch sample for VOCs and SVOCs if perched groundwater (<40 feet) is encountered.	36D-SB01	9	2.5, 5, 11, 15, 20, 25, 30, 35, 40	SVOCs	Total depth of boring = 45 ft bgs. Depth to groundwater 41.0 ft bgs.
		1	0,3,5 and at 5-foot intervals to first groundwater	11**	SVOCs Thallium	Collect subsurface samples from boring adjacent to degreaser sump at location 36D-SNS01. Analyze for SVOCs. Analyze 0, 3 & 5 foot samples for thallium. Collect hydropunch sample for SVOCs if perched groundwater (<40 feet) is encountered.	36D-SB02	10 3	0, 3, 6, 10, 15, 20, 25, 30, 35, 40 0, 3, 6	SVOCs Thallium	Total depth of boring = 45 ft bgs. Depth to groundwater = 43.2 ft bgs. Second boring advanced to collect 10 ft sample.
37D	**Waste Tank, Sump, and Septic Tank West End of Building 49016** Receiving, Inspection, Calibration, NDT, Repair Laboratory	1	2.5 feet and at 5-foot intervals to first groundwater	10**	SVOCs TPH	Collect samples from boring at approximate location of 37D-AH01 to confirm TICs.	37D-SB01	8 9	6, 10, 15, 20, 25, 30, 35, 40 2.5, 6, 10, 15, 20, 25, 30, 35, 40	SVOCs TPH	Total depth of boring = 45 ft bgs. Depth to groundwater = 42.6 ft bgs. Four borings drilled to collect samples.
39D	**Drum Storage Area** Bulk Chemical Storage	1	2.5 feet and at 5-foot intervals to first groundwater	10**	SVOCs	Collect samples from boring at approximate location of 39D-AH01. Collect hydropunch sample for VOCs and SVOCs if perched groundwater (<35 feet) encountered.	39D-SB01	9	2.5, 5, 10, 15, 20, 25, 30, 35, 40	SVOCs	Total depth of boring = 45 ft bgs. Depth to groundwater = 41.80 ft bgs.

Notes and Key:

* = Assumed depth to groundwater is 25 feet
** = Assumed depth to water is 45 feet bgs.
Bldgs = Buildings
ft bgs = Feet below ground surface
ID = Identification
NDT = Non-destructive testing
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SVOCs = Semivolatile organic compounds
TICs = Tentatively identified compounds
TPH = Total petroleum hydrocarbons
UST = Underground storage tank
VOCs = Volatile organic compounds

Table 5-6 *Summary of Semivolatile Organic Compounds (SVOCs) Detected in Soil Samples*
Sites 32D and 38D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Benzoic Acid	bis (2-ethylhexyl) phthalate	Chrysene	Di-n-butyl phthalate	Diethyl phthalate	Fluor-anthene	Pyrene
HH SSL:			**100,000,000**	**34,740**	**3,780**	**NE**	**4,888,000**	**229,360**	**231,600**
32D-SB05	2.5	8/5/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB05	7.0	8/5/2003	<2.7	<9.3	<11	<12	**47 j**	<11	<12
32D-SB05	10.0	8/5/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB05	15.0	8/5/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB05	25.0	8/5/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB05	30.0	8/5/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB05	35.0	8/5/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB05	40.0	8/5/2003	<2.7	**45 j**	<11	<12	<14	<11	<12
32D-SB05 (dup)	40.0	8/5/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB05	45.0	8/5/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB06	2.5	8/4/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB06	10.0	8/4/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB06	15.0	8/4/2003	<2.7	<9.3	<11	<12	**46 j**	<11	<12
32D-SB06	25.0	8/4/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB06	30.0	8/4/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB06 (dup)	30.0	8/4/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB06	35.0	8/4/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB06	40.0	8/4/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB06	45.0	8/4/2003	<2.7	<9.3	<11	<12	**51 j**	<11	<12
32D-SB07	2.5	8/4/2003	<2.7	**170 j**	<11	<12	<14	<11	<12
32D-SB07	5.0	8/1/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB07	10.0	8/1/2003	<2.7	**54 j**	<11	<12	<14	<11	<12
32D-SB07	15.0	8/4/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB07	30.0	8/1/2003	<2.7	**33 j**	<11	<12	<14	<11	<12
32D-SB07	35.0	8/1/2003	<2.7	**55 j**	<11	<12	<14	<11	<12
32D-SB07 (dup)	35.0	8/1/2003	<2.7	<9.3	<11	<12	<14	<11	<12
32D-SB07	40.0	8/1/2003	**68 j**	**67 j**	<11	<12	<14	<11	<12
32D-SB07	45.0	8/1/2003	<2.7	<9.3	<11	<12	<14	<11	<12
38D-SB08	2.5	8/6/2003	<2.7	<9.3	<11	<12	<14	<11	<12
38D-SB08	20.0	8/6/2003	<2.7	<9.3	<11	<12	<14	<11	<12
38D-SB08	25.0	8/6/2003	<2.7	<9.3	<11	<12	<14	<11	<12
38D-SB08	30.0	8/6/2003	<2.7	<9.3	<11	<12	**330**	<11	<12
38D-SB08	35.0	8/6/2003	<2.7	<9.3	<11	<12	<14	<11	<12
38D-SB08 (dup)	35.0	8/6/2003	<2.7	<9.3	<11	<12	<14	<11	<12
38D-SB08	40.0	8/6/2003	<2.7	<9.3	<11	<12	<14	<11	<12

Notes and Key:
Concentrations and units reported in micrograms per kilogram (µg/kg).
Detected concentrations are in bold.
Concentrations above human health soil screening level (HH SSL) are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Duplicate sample
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SB = Soil boring
SNS = Surface/near surface

Laboratory Qualifiers:
j = Estimated value. Reported concentration is between method detection limit and practical quantitation limit.

Table 5-7 *Summary of Tentatively Identified Compounds Detected in SVOC Analysis of Soil Samples Collected at Sites in Area 49*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Unknown 1	Unknown 2	Unknown 3	Unknown 4	Unknown Alkanes	Unknown Cholesterol	Unknown Cycloalkanes	Sulfur, mol. (S8)
32D-SB05	2.5	8/5/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB05	7.0	8/5/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB05	10.0	8/5/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB05	15.0	8/5/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB05	25.0	8/5/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB05	30.0	8/5/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB05	35.0	8/5/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB05	40.0	8/5/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB05 (dup)	40.0	8/5/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB05	45.0	8/5/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB06	2.5	8/4/2003								800
32D-SB06	10.0	8/4/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB06	15.0	8/4/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB06	25.0	8/4/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB06	30.0	8/4/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB06 (dup)	30.0	8/4/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB06	35.0	8/4/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB06	40.0	8/4/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB06	45.0	8/4/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB07	2.5	8/4/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB07	5.0	8/1/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB07	10.0	8/1/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB07	15.0	8/4/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB07	30.0	8/1/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB07	35.0	8/1/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB07 (dup)	35.0	8/1/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB07	40.0	8/1/2003	No TICs detected at concentrations greater than 300 µg/kg							
32D-SB07	45.0	8/1/2003	No TICs detected at concentrations greater than 300 µg/kg							
33D-SB01	1.0	8/7/2003	No TICs detected at concentrations greater than 300 µg/kg							
33D-SB01	5.0	8/7/2003	No TICs detected at concentrations greater than 300 µg/kg							
33D-SB01	10.0	8/7/2003	No TICs detected at concentrations greater than 300 µg/kg							
33D-SB01	15.0	8/7/2003	No TICs detected at concentrations greater than 300 µg/kg							
33D-SB01	20.0	8/7/2003	No TICs detected at concentrations greater than 300 µg/kg							
33D-SB01	30.0	8/7/2003	No TICs detected at concentrations greater than 300 µg/kg							
33D-SB01 (dup)	30.0	8/7/2003	No TICs detected at concentrations greater than 300 µg/kg							
33D-SB01	35.0	8/7/2003	No TICs detected at concentrations greater than 300 µg/kg							
33D-SB01	40.0	8/7/2003	No TICs detected at concentrations greater than 300 µg/kg							
33D-SB01	45.0	8/7/2003	No TICs detected at concentrations greater than 300 µg/kg							
35D-SB25	2.5	7/24/2003	1,000	700	2,000	700	300	1,000	2,800	
35D-SB25	10.0	7/24/2003	No TICs detected at concentrations greater than 10 µg/kg							
35D-SB25	35.0	7/24/2003	No TICs detected at concentrations greater than 10 µg/kg							
35D-SB25	40.0	7/24/2003	No TICs detected at concentrations greater than 10 µg/kg							
35D-SB25	45.0	7/24/2003	No TICs detected at concentrations greater than 10 µg/kg							
35D-SB26	2.5	7/28/2003					300			
35D-SB26	6.0	7/25/2003	No TICs detected at concentrations greater than 10 µg/kg							
35D-SB26	11.0	7/25/2003	No TICs detected at concentrations greater than 10 µg/kg							
35D-SB26	15.0	7/25/2003	No TICs detected at concentrations greater than 10 µg/kg							
35D-SB26	20.0	7/28/2003	No TICs detected at concentrations greater than 300 µg/kg							
35D-SB26	25.0	7/28/2003	No TICs detected at concentrations greater than 300 µg/kg							
35D-SB26	30.0	7/28/2003					300			
35D-SB26	35.0	7/28/2003	No TICs detected at concentrations greater than 10 µg/kg							
35D-SB26 (dup)	35.0	7/28/2003	No TICs detected at concentrations greater than 10 µg/kg							
35D-SB26	40.0	7/28/2003	No TICs detected at concentrations greater than 10 µg/kg							
35D-SB26	45.0	7/28/2003	No TICs detected at concentrations greater than 10 µg/kg							

Table 5-7 *Summary of Tentatively Identified Compounds Detected in SVOC Analysis of Soil Samples Collected at Sites in Area 49*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Unknown 1	Unknown 2	Unknown 3	Unknown 4	Unknown Alkanes	Unknown Cholesterol	Unknown Cycloalkanes	Sulfur, mol. (S8)
36D-SB01	2.5	7/30/2003					2,000			
36D-SB01	5.0	7/30/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB01	11.0	7/30/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB01	15.0	7/30/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB01	20.0	7/30/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB01	25.0	7/30/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB01	30.0	7/30/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB01	35.0	7/30/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB01	40.0	7/30/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB01 (dup)	40.0	7/30/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB02	0.0	7/31/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB02	3.0	7/31/2003								500
36D-SB02	6.0	7/31/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB02	10.0	8/1/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB02	15.0	7/31/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB02	20.0	7/31/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB02	25.0	7/31/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB02	30.0	7/31/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB02	35.0	7/31/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB02	40.0	7/31/2003	No TICs detected at concentrations greater than 300 µg/kg							
36D-SB02 (dup)	40.0	7/31/2003	No TICs detected at concentrations greater than 300 µg/kg							
37D-SB01	6.0	7/29/2003	No TICs detected at concentrations greater than 300 µg/kg							
37D-SB01	6.0	7/30/2003	No TICs detected at concentrations greater than 300 µg/kg							
37D-SB01	10.0	7/29/2003	No TICs detected at concentrations greater than 300 µg/kg							
37D-SB01	15.0	7/29/2003	No TICs detected at concentrations greater than 300 µg/kg							
37D-SB01	20.0	7/29/2003	No TICs detected at concentrations greater than 300 µg/kg							
37D-SB01	25.0	7/29/2003	No TICs detected at concentrations greater than 300 µg/kg							
37D-SB01	30.0	7/29/2003	No TICs detected at concentrations greater than 300 µg/kg							
37D-SB01 (dup)	30.0	7/29/2003	No TICs detected at concentrations greater than 300 µg/kg							
37D-SB01	35.0	7/29/2003	No TICs detected at concentrations greater than 300 µg/kg							
37D-SB01	40.0	7/29/2003	No TICs detected at concentrations greater than 300 µg/kg							
38D-SB08	2.5	8/6/2003	5,000							
38D-SB08	20.0	8/6/2003	No TICs detected at concentrations greater than 300 µg/kg							
38D-SB08	25.0	8/6/2003	No TICs detected at concentrations greater than 300 µg/kg							
38D-SB08	30.0	8/6/2003	No TICs detected at concentrations greater than 300 µg/kg							
38D-SB08	35.0	8/6/2003	No TICs detected at concentrations greater than 300 µg/kg							
38D-SB08 (dup)	35.0	8/6/2003	No TICs detected at concentrations greater than 300 µg/kg							
38D-SB08	40.0	8/6/2003	No TICs detected at concentrations greater than 300 µg/kg							
39D-SB01	2.5	8/8/2003	No TICs detected at concentrations greater than 300 µg/kg							
39D-SB01	5.0	8/8/2003	No TICs detected at concentrations greater than 300 µg/kg							
39D-SB01	10.0	8/8/2003	No TICs detected at concentrations greater than 300 µg/kg							
39D-SB01	15.0	8/8/2003	No TICs detected at concentrations greater than 300 µg/kg							
39D-SB01	20.0	8/8/2003	No TICs detected at concentrations greater than 300 µg/kg							
39D-SB01	25.0	8/8/2003	No TICs detected at concentrations greater than 300 µg/kg							
39D-SB01 (dup)	25.0	8/8/2003	No TICs detected at concentrations greater than 300 µg/kg							
39D-SB01	30.0	8/8/2003	No TICs detected at concentrations greater than 300 µg/kg							
39D-SB01	35.0	8/8/2003	No TICs detected at concentrations greater than 300 µg/kg							
39D-SB01	40.0	8/8/2003	No TICs detected at concentrations greater than 300 µg/kg							

Notes and Key:

Units reported in micrograms per kilogram (µg/kg).
bgs = Below ground surface
dup = Duplicate
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SB = Soil boring
TICs = Tentatively identified compounds

Table 5-8 Summary of Metals Analysis of Subsurface Soil Samples
Site 32D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Titanium	Vanadium	Zinc
HH SSL:			**7,614**	**3.1**	**0.06**	**537**	**15.4**	**1,600**	**1.7**	**211**	**17**	**660**	**313**	**15**	**176**	**2.4**	**39.1**	**156**	**380**	**380**	**0.52**	**100,000**	**5.3**	**2,346**
32D-SB05	2.5	8/5/2003	5,800	<1.2 R	2.7	31	0.096	<4.7 UJ	<0.24	18	<0.13	5.4	26	2.3	120	<0.02	<0.94 UJ	11 J	<0.47 UJ	<0.24	<0.47	280	19	25 J
32D-SB05	7.0	8/5/2003	9,100	<0.25 R	5.1	28	0.092	<5.0 UJ	**0.25**	18	<0.096	9.6	34	1.9	700	<0.014	<1.0 UJ	15 J	<0.50 UJ	<0.05	0.12	400	41	45 J
32D-SB05	10.0	8/5/2003	7,300	<1.2	1.6 j	48	0.15	<4.8	<0.24	14	<0.12	3.4	**140**	2.0	120	<0.013	<0.96	13	<0.48	<0.24	<0.096	270	21	**230**
32D-SB05	15.0	8/5/2003	2,100	<1.1	0.59 j	12	<0.042	<4.2	<0.21	7.7	<0.12	0.63	5.5	0.74 j	23	0.049	<0.85	3.6	<0.42	<0.21	<0.42	51	4.1	7.9
32D-SB05	25.0	8/5/2003	11,000	<0.22	**9.5**	180	0.21	<4.4	**0.24**	23	<0.13	13	21	3.3	**3,900**	0.08	1.3	25	<0.44	<0.044	0.11	520	29	31
32D-SB05	30.0	8/5/2003	12,000	<0.22	3.5	81	0.25	<4.4	<0.22	30	<0.13	8.1	26	3.5	300	0.041	1.0	30	<0.44	<0.044	0.11	500	35	32
32D-SB05	35.0	8/5/2003	29,000	<0.25	<2.5	370	0.67	<5.0	**0.43**	9.4	<0.13	15	18	4.9	**1,900**	<0.018	<1.0	22	0.55	0.073	**0.40**	480	28	41
32D-SB05	40.0	8/5/2003	23,000	<0.25	<2.5	270	0.55	<5.0	**0.48**	6.5	<0.13	9.7	18	4.5	**1,100**	<0.018	<1.0	17	<0.50	**0.096**	**0.35**	610	28	38
32D-SB05 (dup)	40.0	8/5/2003	24,000	<0.22	<2.2	180	0.49	<4.3	**0.41**	6.6	<0.13	10	17	3.6	550	<0.015	<0.86	15	<0.43	**0.10**	0.10	790	29	39
32D-SB05	45.0	8/5/2003	18,000	<0.23	<2.3	220	0.45	<4.6	**0.34**	6.8	<0.13	9.9	15	3.9	740	<0.019	<0.93	14	<0.46	0.064	0.28	380	22	33
32D-SB06	2.5	8/4/2003	9,900	<0.24	4.0	78	0.22	<4.9	<0.49	30	<0.21	7.5	**75**	5.6	230	0.023	<0.97	24	<0.49	<0.34	0.11	590	38	**85**
32D-SB06	10.0	8/4/2003	7,800	<0.21	2.4	53	0.18	<4.3	<0.43	23	<0.21	4.9	31	2.5	160	<0.018	<0.85	16	<0.43	<0.30	0.091	360	28	51
32D-SB06	15.0	8/4/2003	10,000	<0.22	3.0	70	0.24	<4.5 UJ	<0.45	30 J	0.39 J	5.5 J	24	3.4	190	0.046 J	<0.89	23 J	<0.45	<0.31 UJ	<0.089	500	37	46 J
32D-SB06	25.0	8/4/2003	29,000	0.30	**8.6**	190	0.64	<4.9	<0.49	54	0.88	16	**59**	9.2	590	0.069	<0.98	57	<0.49	<0.34	0.14	610	70	**120**
32D-SB06	30.0	8/4/2003	24,000	<0.25	3.9	170	0.47	<4.9	<0.49	48	<0.21	16	**91**	7.0	320	**0.13**	<0.98	52	<0.49	<0.34	0.21	930	66	**180**
32D-SB06 (dup)	30.0	8/4/2003	16,000	<0.24	3.2	110	0.31	<4.8	<0.48	39	0.48	9.0	**46**	4.4	360	0.04	<0.96	35	<0.48	<0.34	0.16	810	51	**69**
32D-SB06	35.0	8/4/2003	21,000	<0.24	2.3 j	190	0.41	<4.8	**0.28**	21	<0.13	9.3	22	4.5	490	<0.018	<0.96	41	<0.48	0.051	0.11	560	33	35
32D-SB06	40.0	8/4/2003	21,000	<1.2	<2.4	220	0.43	<4.8	**0.47**	4.2	<0.12	8.4	13	4.5	570	<0.015	<0.96	11	<0.48	<0.24	<0.48	870	25	33
32D-SB06	45.0	8/4/2003	24,000	<0.25	<2.5	140	**0.72**	<4.9	<0.25	7.0	<0.13	10	31	3.7	440	<0.017	<0.98	13	<0.49	0.061	<0.098	390	24	**61**
32D-SB07	2.5	8/4/2003	13,000	<0.24 UJ	3.5	100	0.32	<4.7 UJ	<0.47	56 J	0.64 J	11 J	33	8.2	410	0.02 J	1.1	54 J	<0.47	<0.33 UJ	0.14	610	47	**68 J**
32D-SB07	5.0	8/1/2003	15,000	<0.24 UJ	4.3	100	0.36	<4.8	<0.48	41	<0.21 UJ	9.4	**57 J**	4.4	330	**0.13**	2.4	33	<0.48	<0.34	0.098	660	46	63 J
32D-SB07	10.0	8/1/2003	8,300	<0.23 UJ	**11**	54	0.20	<4.5	<0.45	18	<0.21 UJ	4.6	32 J	2.2	160	<0.019	<0.90	16	<0.45	<0.32	<0.09	360	30	40 J
32D-SB07	15.0	8/4/2003	14,000	<0.24	4.4	110	0.28	<4.9	<0.49	20	<0.19	5.6	**130**	2.8	230	0.071	<0.97	37	<0.49	<0.34	0.11	370	33	**200**
32D-SB07	30.0	8/1/2003	14,000	<0.24	5.4	90	0.32	<4.7	<0.47	31	<0.21	8.9	34	4.2	320	0.065	<0.95	32	<0.47	<0.33	0.11	700	42	**67**
32D-SB07	35.0	8/1/2003	32,000	<0.24	2.2	280	**0.72**	<4.7	<0.47	20	<0.20	14	**43**	5.1	750	<0.017	<0.95	26	<0.47	<0.33	<0.095	1,100	63	**85**
32D-SB07 (dup)	35.0	8/1/2003	35,000	<0.24	<0.47	230	**0.82**	<4.7	<0.47	5.9	<0.20	14	18	4.5	680	<0.017	<0.95	11	<0.47	<0.33	<0.095	610	38	38
32D-SB07	40.0	8/1/2003	28,000	<0.23	<0.46	290	0.63	<4.6	<0.46	8.0	<0.21	11	19	4.5	**1,300**	0.017	<0.93	14	<0.46	<0.32	0.16	1,100	55	45
32D-SB07	45.0	8/1/2003	23,000	<0.23	<0.45	150	0.62	<4.5	<0.45	11	<0.20	18	22	3.5	930	<0.019	<0.90	22	<0.45	<0.32	0.099	990	57	52

Notes and Key:

Concentrations reported in milligrams per kilogram (mg/kg).
Detected concentrations are in bold.
Metals detected at concentrations statistically above background are shaded in heading.
Metal concentrations above background and human health soil screening levels (HH SSLs) are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
(dup) = Duplicate sample
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:

j = Reported concentration is an estimate. Concentration between reporting limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference.

Data Validation Qualifiers:

J = Indicates an estimated value.
R = Quality control indicates the data is not usable.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

Table 5-9 Summary of Total Petroleum Hydrocarbons as Diesel (TPH-D) Analysis of Soil Samples Site 32D RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California

Sample Identification	Sample Date	Sample Depth (feet bgs)	TPH-D (C_{10}-C_{28})
Soil Screening Level:			**100**
32D-SB05	8/5/2003	2.5	<5.0
32D-SB05	8/5/2003	7	<5.0
32D-SB05	8/5/2003	10	**6.7**
32D-SB05	8/5/2003	15	<5.0
32D-SB05	8/5/2003	25	<5.0
32D-SB05	8/5/2003	30	**26**
32D-SB05	8/5/2003	35	<5.0
32D-SB05	8/5/2003	40	<5.0
32D-SB05 (dup)	8/5/2003	40	<5.0
32D-SB05	8/5/2003	45	<5.0
32D-SB06	8/4/2003	2.5	**6.0**
32D-SB06	8/4/2003	10	<5.0
32D-SB06	8/4/2003	15	<5.0
32D-SB06	8/4/2003	25	<5.0
32D-SB06	8/4/2003	30	**18**
32D-SB06 (dup)	8/4/2003	30.0	**8.4**
32D-SB06	8/4/2003	35	<5.0
32D-SB06	8/4/2003	40	<5.0
32D-SB06	8/4/2003	45	<5.0
32D-SB07	8/4/2003	2.5	**14 J**
32D-SB07	8/1/2003	5	<5.0 UJ
32D-SB07	8/1/2003	10	<5.0 UJ
32D-SB07	8/4/2003	15	<5.0
32D-SB07	8/1/2003	30	**5.2**
32D-SB07	8/1/2003	35	**16**
32D-SB07 (dup)	8/1/2003	35	<5.0
32D-SB07	8/1/2003	40	**30**
32D-SB07	8/1/2003	45	<5.0

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg)
Detected concentrations are in bold.
Concentrations above soil screening level are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Duplicate
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SB = Soil boring
TPH = Total petroleum hydrocarbons

Validation Qualifier:
J = Indicates an estimated value.

UJ = Indicates the compound or analyte was analyzed for but not detected. The sample practical quantitation limit is an estimated value.

Table 5-10 Summary of pH Analysis of Soil Samples
Site 32D
RI/FS for PGOU Soil Sites in
Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Date	Sample Depth (feet bgs)	pH
Screening Level:			**<5 or >9**
32D-SB05	8/5/2003	2.5	7.45
32D-SB05	8/5/2003	7.0	7.47
32D-SB05	8/5/2003	10.0	7.52
32D-SB05	8/5/2003	15.0	7.14
32D-SB05	8/5/2003	25.0	6.18
32D-SB05	8/5/2003	30.0	6.52
32D-SB05	8/5/2003	35.0	6.42
32D-SB05	8/5/2003	40.0	6.96
32D-SB05 (dup)	8/5/2003	40.0	6.97
32D-SB05	8/5/2003	45.0	7.09
32D-SB06	8/4/2003	2.5	6.43
32D-SB06	8/4/2003	10.0	7.17
32D-SB06	8/4/2003	15.0	6.92
32D-SB06	8/4/2003	25.0	6.58
32D-SB06	8/4/2003	30.0	6.19
32D-SB06 (dup)	8/4/2003	30.0	6.65
32D-SB06	8/4/2003	35.0	7.01
32D-SB06	8/4/2003	40.0	6.78
32D-SB06	8/4/2003	45.0	7.36

Notes and Key:
Concentrations outside of screening level range are shaded.
bgs = Below ground surface
dup = Duplicate sample
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Table 5-11 Summary of Analyses Performed on Stage 1 RI Soil Samples Collected at Site 35D RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California

Boring Number	Sample Depth (feet bgs)	VOCs	SVOCs	Metals	Oil and Grease
35D-SNS15	1			X	
	4			X	
35D-AH1B	0				X
	1			X	
	3		X	X	X
	5				X
	10		X		
	15		X		
35D-AH02	1			X	X
	3.5			X	X
35D-AH04	1.5			X	X
	3.5			X	
35D-MV01	0	X	X	X	
	3			X	
	5	X	X		X
	10	X	X		
	15	X	X		X

Notes and Key:
bgs = Below ground surface
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SVOCs = Semivolatile organic compounds
VOCs = Volatile organic compounds

Table 5-12 *Summary of Metals Analysis of Subsurface Soil Samples*
Site 35D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
HH SSL:			**7,614**	**3.1**	**0.06**	**537**	**15.4**	**1,600**	**1.7**	**211**	**17**	**660**	**313**	**15**	**176**	**2.4**	**156**	**380**	**380**	**0.52**	**5.3**	**2,346**
35D-SNS15	1	1993	14,600	<5.0	<5	116	<0.5	<50	<1	41.9	NA	12.2	27.2	8.32	450	**0.11**	40.2	<6	<1	<7.5	55.8	49.4
	4	1993	15,100	<5.0	5.52	106	<0.5	<50	<1	32	NA	8.92	31.6	8.97	288	<0.1	32.7	<6	<1	<7.5	75	43.2
35D-AH1B	1	1992	12,800	<5.0	<7.5	135	<0.5	<50	<1	42.2	NA	12.3	28	6.85	319	**0.20**	36	<7.5	<1	<7.5	49.3	44.3
	3	1992	12,500	<5.0	<7.5	139	<0.5	<50	<1	43.8	NA	11.4	24.4	7.18	608	<0.1	38.1	<7.5	<1	<7.5	47.8	40.6
35D-AH02	1	1991	16,800	<6.0	<10	117	0.44	<10	**1.7**	57.8	NA	9.8	28.1	NA	388	<0.1	43.4	24.8	<1	<200	56.6	**104**
	3.5	1991	25,000	<6.0	<10	133	0.69	<10	**0.57**	59.7	NA	22.1	**39.8**	NA	657	<0.1	55.9	<20	<1	<200	83.7	**60.4**
35D-AH04	1.5	1991	15,600	<6.0	<10	100	0.35	<10	**0.56**	62.7	NA	11	33.8	NA	419	<0.1	42.5	<20	<1	<200	49.6	**92.1**
	3.5	1991	14,200	<6.0	<50	115	0.35	<10	<0.5	49.2	NA	9.7	**67.9**	NA	379	<0.1	39.1	<20	<1	<200	50.2	**86.4**
35D-MV01	0	1991	16,600	<5.0	<10	124	0.46	9.3	**1.2**	89.8	NA	11.8	**53**	NA	447	<0.1	41.1	<20	<1	<200	55.7	**135**
	3	1991	16,100	<5.0	<10	113	0.38	8.0	<0.5	59.2	NA	11.5	**45.8**	NA	426	<0.1	48.6	<0	<1	**4.7**	57	**81.1**

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg).
Detected metal concentrations are in bold.
Metals detected at concentrations statistically above background are shaded in header.
Metal concentrations above background and human health soil screening levels (HH SSLs) are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
(dup) = Duplicate sample
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between reporting limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference.

Validation Qualifiers:
J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The quantitation limit is an estimated value.

Table 5-13 *Summary of Semivolatile Organic Compounds (SVOCs) Detected in Soil Samples*
Site 35D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Benzoic Acid	bis (2-ethylhexyl) phthalate	Chrysene	Di-n-butyl phthalate	Diethyl phthalate	Fluor-anthene	Pyrene
HH SSL:			**100,000,000**	**34,740**	**3,780**	**NE**	**4,888,000**	**229,360**	**231,600**
35D-SB25	2.5	7/24/2003	<2.7	**60 j**	**45 j**	<12	**58 j**	<11	<12
35D-SB25	10.0	7/24/2003	<2.7	<9.3	<11	<12	<14	<11	<12
35D-SB25	35.0	7/24/2003	<2.7	**48 j**	<11	<12	<14	<11	<12
35D-SB25	40.0	7/24/2003	<2.7	<9.3	<11	<12	<14	<11	<12
35D-SB25	45.0	7/24/2003	<2.7	<9.3	<11	<12	<14	<11	<12
35D-SB26	2.5	7/28/2003	<2.7	**39 j**	<11	<12	<14	<11	<12
35D-SB26	6.0	7/25/2003	<2.7	<9.3	<11	<12	<14	<11	<12
35D-SB26	11.0	7/25/2003	<2.7	<9.3	<11	<12	<14	<11	<12
35D-SB26	15.0	7/25/2003	<2.7	<9.3	<11	<12	<14	<11	<12
35D-SB26	20.0	7/28/2003	<2.7	**38 j**	<11	<12	<14	<11	<12
35D-SB26	25.0	7/28/2003	<2.7	<9.3	<11	<12	<14	<11	<12
35D-SB26	30.0	7/28/2003	<2.7	**65 j**	<11	<12	<14	<11	<12
35D-SB26	35.0	7/28/2003	<2.7	<9.3	<11	<12	<14	<11	<12
35D-SB26 (dup)	35.0	7/28/2003	<2.7	<9.3	<11	<12	<14	<11	<12
35D-SB26	40.0	7/28/2003	<2.7	<9.3	<11	<12	<14	<11	<12
35D-SB26	45.0	7/28/2003	<2.7	<9.3	<11	<12	<14	<11	<12

Notes and Key:
Concentrations and units reported in micrograms per kilogram (µg/kg).
Detected concentrations are in bold.
Concentrations detected above human health soil screening levels (HH SSLs) are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Duplicate sample
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SB = Soil boring
SNS = Surface/near surface

Laboratory Qualifiers:
j = Estimated value. Reported concentration is between method detection limit and reporting limit.

Table 5-14 Summary of Proposed and Actual Groundwater Sampling Activities for Sites in Area 49
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Well Proposed for Sampling	Groundwater Layer	Proposed Analyte(s)	Groundwater Sample Collected? (Yes / No)	Analyses Performed	Comments
32D	**Area 49 Surface Water Drainage Ditch System** Unlined ditch 2 Sumps & UST - Bldg 49008 3 Acid Storage Tanks - Bldgs 49019/49092 6 Storage Tanks - Bldgs 49090 & 49091	Well 808	Perched	–	No	–	Well purged dry. No recharge after 22 hours. Unable to sample. DTW = 26.52 feet; TD= 32.2 feet.
		Well 855	Perched	–	No	–	Insufficient water in well to collect sample. DTW = 20.5 feet. TD = 22.1 feet.
38D	**Area 49 Surface Water Drainage System** Surface Water Runoff Sump & UST - Bldg 49018	Soil Vapor Extraction Well 4485	B	VOCs SVOCs	Yes	VOCs SVOCs	Purged dry. Slow recovery. DTW = 30 feet. TD = 37.4 feet.
		Soil Vapor Extraction Well 4490	B	–	No	–	Casing bent. Unable to sample.
		Soil Vapor Extraction Well 4495	B	VOCs SVOCs	Yes	VOCs SVOCs	Well purged dry. DTW = 27.7 feet. TD = 38.8 feet.
35D	**Large Degreaser Sump at Building 49014** Building 49014 is Inert Chamber Processing 2 septic tanks - Bldgs 49006 & 49014	Well 802	Perched/B	VOCs SVOCs Perchlorate Nitrate Nitrite	Yes	VOCs SVOCs Perchlorate Nitrate Nitrite	Sampled with bailer. DTW = 19.6 feet. TD = 36 feet.
		Well 805	Destroyed	–	No	–	Unable to locate well.
36D	**Abandoned Chemical Waste Tank, Degreaser Sump, and Septic Tank North Side of Building 49015** Tactical Process and Inert Chamber Processing	Well 804	B	–	No	–	Dry. Unable to sample. TD = 30.8 feet.
37D	**Waste Tank, Sump, and Septic Tank West End of Building 49016** Receiving, Inspection, Calibration, NDT, Repair Laboratory	Well 803	B	–	No	–	Dry. Unable to sample. TD = 30 feet.
39D	**Drum Storage Area** Bulk Chemical Storage	Well 801	B	–	No	–	Dry. Unable to sample. TD = 25 feet.

Notes and Key:
Bldgs = Buildings
DTW = Depth to water
Hex Cr = Hexavalent chromium
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SVOCs = Semivolatile organic compounds
TD = Total depth
UST = Underground storage tank
VOCs = Volatile organic compounds

Table 5-15 Summary of Volatile Organic Compound (VOC) Analysis of Area 49 Perched Groundwater Sample RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California

Sample Identification	Sample Date	1,1,1-TCA	1,1-DCA	1,2-DCE (cis/trans)	CF	Freon 113	PCE	TCE
802	7/30/2003	<0.50	<0.50	**7.2**	<0.50	<0.50	**33**	**24**
802 (dup)	7/30/2003	<0.50	<0.50	**7.4**	<0.50	<0.50	**34**	**25**

Notes and Key:
Concentrations reported in micrograms per liter (µg/L).
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
< = Less than; not detected above the noted Practical Quanitation Limit.
CF = Chloroform
DCA = Dichloroethane
DCE = Dichloroethene
PCE = Tetrachloroethene
TCA = Trichloroethane
TCE = Trichloroethylene

Laboratory Qualifiers:
e = Analyte exceeds calibration range.

Table 5-16 Summary of Semivolatile Organic Compounds Analysis of Area 49 Perched Groundwater Samples
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Date	1,4-DIOX	1-Methyl-2-Pyrroli-dinone	N-NSM	ANI	Phen	2-CP	B(2-CE)E	1,3-DCB	1,4-DCB	BenAlc	1,2-DCB	2-MP	B(2-CIP)E	4-MP	HCE	N-N-P	ISO	NC2BZ	2-NP	2,4-DMP	2,4-DCP	b(2-CEO)M	Ben Acid	1,2,4-TCB
802	7/30/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0
802 (Dup)	7/30/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0

Sample Identification	Sample Date	NAP	4-CA	HCBU	p-Chlorop m-cresol	2-MN	HCCP	2,4,6-TCP	2,4,5-TCP	2-CN	2-NA	ACNL	DMP	2,6-DNT	3-NA	ACNE	2,4-DNP	DBF	4-NP	2,4-DNT	FLOR	DEP	4-CPPE	4-NA	N-Butyl-benzene-sulfonamide
802	7/30/2003	<5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<25	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0
802 (Dup)	7/30/2003	<5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<25	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0

Sample Identification	Sample Date	4,6-D-2-MP	N-NSP	1,2-DPHZ/AZO	4-BPE	HCB	PCP	PA	ANT	DNBP	FA	BENZ	PYR	BBP	CHRY	3,3'-DCB	B(a)A	B(2-EH)P	DNOP	B(b)F	B(k)F	B(a)P	I(123cd)P	D(ah)A	B(ghi)P
802	7/30/2003	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
802 (Dup)	7/30/2003	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Notes and Key:
Concentrations reported in micrograms per liter (µg/L).
NA = Not analyzed
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
< = Less than; not detected above the noted Practical Quanitation Limit.

Laboratory Qualifier:
j = Estimated concentration.

Semivolatile Organic Compounds

Abbreviation	Compound	Abbreviation	Compound	Abbreviation	Compound	Abbreviation	Compound
1,2,4-TCB	1,2,4-Trichlorobenzene	2-NP	2-Nitrophenol	B(b)F	Benzo(b)fluoranthene	FA	Fluoranthene
1,2-DCB	1,2-Dichlorobenzene	3,3-DCB	3,3'-Dichlorobenzidine	B(ghi)P	Benzo(ghi)perylene	FLOR	Fluorene
1,2-DPHZ/AZO	1,2-Diphenylhydrazine/Azobenzene	3-NA	3-Nitroaniline	B(k)F	Benzo(k)fluoranthene	HCB	Hexachlorobenzene
1,3-DCB	1,3-Dichlorobenzene	4,6-D-2-MP	4,6-Dinitro-2-methylphenol	BenAcid	Benzoic acid	HCBU	Hexachlorobutadiene
1,4-DCB	1,4-Dichlorobenzene	4-BPE	4-Bromophenyl phenyl ether	BenAlc	Benzyl alcohol	HCCP	Hexachlorocyclopentadiene
1,4-DIOX	1,4-Dioxane	4-CA	4-Chloroaniline	b(2-CEO)M	Bis(2-chloroethoxy)methane	HCE	Hexachloroethane
2,4,5-TCP	2,4,5-Trichlorophenol	4-CPPE	4-Chlorophenyl phenyl ether	B(2-CE)E	Bis(2-chloroethyl)ether	I(123cd)P	Indeno(1,2,3-cd)pyrene
2,4,6-TCP	2,4,6-Trichlorophenol	4-MP	4-Methylphenol	B(2-CIP)E	Bis(2-chloroisopropyl)ether	ISO	Isophorone
2,4-DCP	2,4-Dichlorophenol	4-NA	4-Nitroaniline	B(2-EH)P	Bis(2-ethylhexyl)phthalate (BEHP)	NAP	Naphthalene
2,4-DMP	2,4-Dimethylphenol	4-NP	4-Nitrophenol	BBP	Butyl benzyl phthalate	NO2BZ	Nitrobenzene
2,4-DNP	2,4-Dinitrophenol	ACNE	Acenaphthene	CHRY	Chrysene	N-NSM	N-Nitrosodimethylamine
2,4-DNT	2,4-Dinitrotoluene	ACNL	Acenaphthylene	D(ah)A	Dibenzo(a,h)anthracene	N-NSP	N-Nitrosodiphenylamine
2,6-DNT	2,6-Dinitrotoluene	ANI	Aniline	DBF	Dibenzofuran	N-N-P	N-Nitrosodi-n-propylamine
2-CN	2-Chloronaphthalene	ANT	Anthracene	DEP	Diethyl phthalate	PCP	Pentachlorophenol
2-CP	2-Chlorophenol	BENZ	Benzidine	DMP	Dimethyl phthalate	PA	Phenanthrene
2-MN	2-Methylnaphthalene	B(a)A	Benzo(a)anthracene	DNBP	Di-n-butyl phthalate	Phen	Phenol
2-MP	2-Methylphenol	B(a)P	Benzo(a)pyrene	DNOP	Di-n-octyl phthalate	PYR	Pyrene
2-NA	2-Nitroaniline						

Table 5-17 Summary of Perchlorate, Nitrate, and Nitrite Analysis of Area 49 Perched Groundwater Sample RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California

Sample Identification	Sample Date	Nitrate (mg/L)	Nitrite (as N) (mg/L)	Perchlorate (µg/L)
802	7/30/2003	**17**	**0.062**	**15**
802 (dup)	7/30/2003	**16**	**0.093**	**15**

Notes and Key:
µg/L = Micrograms per liter
mg/L = Milligrams per liter
dup = Duplicate
NA = Not analyzed
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Table 5-18 Summary of Proposed and Actual Soil Vapor Sampling Activities
Sites 33D, 36D, 37D, 39D, and Area 49 Septic Tanks
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Proposed Sampling Activity	Number of Proposed Sampling Locations	Proposed Sample Depths	Number of Samples Proposed	Number of Samples Collected	Sample ID	Sample Depth (ft bgs)	Comments
33D	**Chemical Waste Sump at Building 49010** Chemical Sampling	Soil Vapor	2	10 & 20 feet	4	11	33D-SP05	5, 10 & 20	
							33D-SP06	10	Refusal at 10 feet. Duplicate at 10 feet
							33D-SP07	10 & 20	
							33D-SP08	10 & 20	
							33D-SP09	10 & 20	
							33D-SP10	10	Refusal at 12 feet.
		Flux Chamber	2	Surface	2	3	33D-FLUX-1	Surface	Collected at 33D-SB01
							33D-FLUX-2	Surface	Collected at 33D-SB06
							33D-FLUX-N2	Surface	Negative pressure at 33D-SB06
36D	**Abandoned Chemical Waste Tank, Degreaser Sump, and Septic Tank North Side of Building 49015** Tactical Process and Inert Chamber Processing	Soil Vapor	5	20 feet	5	7	36D-SP15	20	
							36D-SP16	10 & 20	Duplicate at 20 feet
							36D-SP17	5, 10 & 20	
							36D-SP19	20	
		Flux Chamber	2	Surface	2	3	36D-FLUX-1	Surface	Collected at 36D-SB01
							36D-FLUX-N1	Surface	Negative pressure at 36D-SB01
							36D-FLUX-2	Surface	Collected at 36D-SP16
37D	**Waste Tank, Sump, and Septic Tank West End of Building 49016** Receiving, Inspection, Calibration, NDT, Repair Laboratory	Soil Vapor	4	10 feet	4	8	37D-SP08	5, 10 & 20	
							37D-SP09	10	
							37D-SP10	10	
							37D-SP11	10	Duplicate at 10 feet
							37D-SP12	10	
							37D-SP13	10	
		Flux Chamber	2	Surface	2	3	37D-FLUX-1	Surface	Collected at 37D-SP11
							37D-FLUX-2	Surface	Collected at 37D-SP08
							37D-FLUX-N2	Surface	Negative pressure at 37D-SP08
39D	**Drum Storage Area** Bulk Chemical Storage	Soil Vapor	3	15 feet	3	5	39D-SP03	15	
							39D-SP04	15	
							39D-SP05	5 & 15	
							49ST07-SP02	10	
		Flux Chamber	2	Surface	2	3	39D-FLUX-1	Surface	Collected at 39D-SB01
							39D-FLUX-N1	Surface	Negative pressure at 39D-SB01
							39D-FLUX-2	Surface	Collected at 39D-SP04
Area 49 Septic Tanks	**Septic Tanks** Buildings 49015 and 49022	Soil Vapor	3	10 feet	3	7	49ST15-SP05	10	
							49ST15-SP06	10	
							49ST22-SP02	10 & 20	
							49ST22-SP03	10	Duplicate at 10 feet
							49ST22-SP04	10	
							49ST22-SP05	10	

Notes and Key:
Bldg = Building
bgs = Below ground surface
ft = Feet
ID = Identification
NA = Not applicable
NDT = Non-destructive testing
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
UST = Underground storage tank

Table 5-19 *Summary of Volatile Organic Compound (VOC) Analysis of Soil Vapor Samples*
Site 33D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Freon 11	CE	DCM	1,1-DCA	1,1-DCE	cis-1,2-DCE	CF	1,1,1-TCA	TCE	PCE	B	T	EB	m,p-Xylene	o-Xylene	Styrene	1,3,5-TMB	1,2,4-TMB	1,2-DCB	Hexane	Cyclo-Hexane	Heptane	BDCM	Propyl-benzene	CM	Acetone	CDSD	2-Propanol	2-Butanone (MEK)	Tetra-hydro-furan	2-HEX	4-Ethyl toluene	MTBE	Ethanol	Vinyl Chloride
PGOU SVSL:		**73**	**2.32**	**20.8**	**1.2**	**20.8**	**3.7**	**0.08**	**0.12**	**0.96**	**0.32**	**0.08**	**40.1**	**106**	**10.6**	**10.6**	**106**	**0.6**	**0.6**	**20.9**	**20.8**	**620**	NE	**0.11**	**14.6**	**9.5**	**329**	**73**	NE	**511**	**0.99**	NE	NE	**7.4**	NE	**0.03**
33D-SP05	5.0	<0.024	<0.011 uj UJ	<0.015	<0.017 UJ	<0.017	<0.017	**0.17**	<0.023	**2.1**	<0.029	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021 UJ	<0.026	<0.015	<0.015	<0.017	<0.028	<0.021 UJ	<0.035	**0.10**	<0.053	<0.042	<0.050	<0.050	<0.070	<0.084 UJ	<0.061 UJ	<0.032	<0.011
33D-SP05	5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.24**	<0.10	**2.8**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
33D-SP05	10.0	<0.024	<0.011	<0.015	<0.017	<0.017	<0.017	**0.38**	<0.023	**4.1**	<0.029	**0.014**	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	**0.022**	<0.015	<0.017	<0.028	<0.021	<0.035	**0.22**	<0.053	<0.042	**0.063**	<0.050	<0.070	<0.084	<0.061	**0.033**	<0.011
33D-SP05 (dup)	10.0	<0.024	<0.011	<0.015	<0.017	<0.017	<0.017	**0.35**	<0.023	**3.9**	<0.029	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	**0.022**	<0.015	<0.017	<0.028	<0.021	<0.035	**0.20**	<0.053	<0.042	**0.057**	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
33D-SP06	10.0	<0.024	<0.011	<0.015	<0.018	<0.017	<0.017	**0.14**	<0.024	**0.56**	<0.029	**0.021**	**0.017**	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	**0.016**	<0.015	<0.018	<0.029	<0.021	<0.036	**0.62**	<0.054	<0.042	<0.051	<0.051	<0.071	<0.085 UJ	<0.062	<0.033	<0.011
33D-SP06D	10.0	<0.025	<0.012	<0.015	<0.018	<0.017	<0.017	**0.14**	<0.024	**0.57**	**0.065**	**0.022**	**0.017**	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.026	**0.017**	<0.015	<0.018	<0.029	<0.022	<0.036	**0.10**	<0.055	<0.043	<0.052	<0.052	<0.072	<0.086 UJ	<0.063	<0.033	<0.011
33D-SP07	10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
33D-SP08	10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
33D-SP09	10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**6.0**	<0.10	**1.1**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
33D-SP10	10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.32**	<0.10	**1.3**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
33D-SP05	20.0	<0.025	**0.034 J**	**0.034**	<0.018	<0.018	<0.018	**0.58**	<0.024	**3.6**	<0.030	**0.032**	**0.33**	**0.061**	**0.16**	**0.15**	<0.019	<0.022	**0.038**	<0.027	<0.016	**0.026**	**0.021**	<0.030	<0.022	**0.049 J**	**0.42**	**0.081**	**0.066**	**0.14**	<0.053	<0.073	<0.088 UJ	<0.064	**0.14**	<0.011
33D-SP07	20.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.12**	<0.10	**0.26**	**1.6**	**0.28**	**0.89**	**0.32**	<0.10	<0.10	**0.15**	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
33D-SP08	20.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.29**	**1.9**	**0.35**	**1.2**	**0.43**	<0.10	**0.11**	**0.23**	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
33D-SP09	20.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**6.0**	<0.10	**2.6**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10

Notes and Key:

Concentrations reported in milligrams per cubic meter (mg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
Concentrations above human health soil vapor screening levels (HH SVSLs) are highlighted by shading.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Field duplicate sample
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
rep = Laboratory replicate sample
RI/FS = Remedial Investigation/Feasibility Study

B = Benzene
BDCM = Bromodichloromethane
CDSD = Carbon Disulfide
CE = Chloroethane
CF = Chloroform
CM = Chloromethane
DCB = Dichlorobenzene
DCE = Dichloroethylene
DCM = Dichloromethane
DCP = Dichloropropene

EB = Ethylbenzene
Freon 11 = Trichlorofluoromethane
HEX = Hexanone
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary butyl ether
PCE = Tetrachloroethane
TCA = Trichloroethane
TCE = Trichloroethene
TMB = Trimethylbenzene

Laboratory Qualifiers:
j = Estimated value.
uj = Non detected compound associated with low bias in the continuing calibration verification.

Data Validation Qualifiers:
J = Indicates an estimated value.
U = Indicates the compound or analyte was analyzed for but not detected at or above the stated limit

Table 5-20 Summary of Metals Analysis of Soil Samples
Sites 33D, 36D, 37D, and 39D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
33D-AH01	0	1992	9,980	<5.0	<7.5	63.3	<0.5	<50	<1	37.2	NA	7.45	25	7.14	232	<0.1	27.8	<7.5	<1	<7.5	43.7	31.5
	6	1992	8,410	<5.0	<7.5	53.6	<0.5	<50	**9.1**	23.2	NA	5.71	20.9	<5	201	<0.1	18.6	<7.5	<1	<7.5	35.0	24.9
	10	1992	22,300	<5.0	<7.5	152	<0.5	<50	<1	53.7	NA	15.6	38.1	10.9	667	<0.1	48.3	<7.5	<1	<7.5	69	54.8
36D-SNS01	1	1993	24,800	**6.16**	7.77	153	0.58	<50	<1	57.1	NA	17.6	37.2	8.75	605	<0.1	55.1	<7.5	<1	<7.5	82	45.5
	3	1993	10,400	<6.0	7.64	57.8	<0.5	<50	<1	29.3	NA	8.34	35	8.33	226	<0.1	24.7	<7.5	<1	5.55	38.2	32.5
36D-AH1B1	1	1992	12,400	<5.0	<7.5	91.4	<0.5	<50	<1	37	NA	12.1	26.2	8.53	408	0.44	34.5	<7.5	<1	<7.5	46.3	55.4
	5	1992	9,110	<5.0	<7.5	65	<0.5	<50	<1	36.6	NA	10.2	14.5	<5	287	<0.1	46.8	<7.5	<1	<7.5	34.3	57.3
	15	1992	15,000	<5.0	8.64	87.4	<0.5	<50	<1	45.9	NA	10.6	33.0	5.84	431	<0.1	26.9	<7.5	<1	<7.5	62.9	41.1
36D-SB02	0.0	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.14	NA	NA
36D-SB02	3.0	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.097	NA	NA
36D-SB02	6.0	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.098	NA	NA
37D-AH01	10	1992	23,500	<5.0	8.11	133	0.52	<50	<1	53.1	NA	12.7	40.5	9.17	514	<0.1	40.1	<7.5	<1	<7.5	71.9	44.6
	15	1992	9,700	<5.0	<7.5	57.8	<0.5	<50	<1	40.4	NA	8.06	29.2	5.37	256	<0.1	26.7	<7.5	<1	<7.5	39.1	38.2
	25	1992	24,500	<5.0	<7.5	144	0.51	<50	<1	61.6	NA	11.8	41.7	9.28	482	0.16	47.7	<7.5	<1	<7.5	75.3	51.8
	30	1992	37,500	<5.0	<7.5	269	0.58	<50	<1	17.4	NA	11.1	24.4	7.86	586	<0.1	13.9	<7.5	<1	<7.5	70.7	56.7
	35	1992	25,700	<5.0	<7.5	169	0.62	<50	<1	16.2	NA	14.1	23.2	7.4	459	<0.1	20.8	<7.5	<1	<7.5	45.3	45.3
	40	1992	15,800	<5.0	<7.5	131	0.59	<50	<1	15.2	NA	12.9	26.8	5.68	247	<0.1	19.1	<7.5	<1	<7.5	59.9	46.8
39D-AH01	0	1992	14,700	<5.0	<7.5	112	<0.5	<50	<1	48.7	NA	12.8	32.6	**20.2**	517	<0.1	36	7.88	<1	<7.5	56.2	51.9
	8	1992	9,340	<5.0	<7.5	78.8	<0.5	<50	<1	47.8	NA	7.75	21.3	8.16	311	<0.1	19.5	<7.5	<1	<7.5	35.9	32.3
	11	1992	13,400	<5.0	<7.5	83.2	<0.5	<50	<1	24.5	NA	8.46	24.2	6.33	344	<0.1	24.9	<7.5	<1	<7.5	41.5	34.7
	15	1992	23,700	<5.0	7.52	138	<0.5	<50	<1	48.8	NA	12.5	39.9	11	503	<0.1	40.2	10.5	<1	<7.5	65	49.7
	20	1992	8,850	<5.0	<7.5	86.7	<0.5	<50	<1	32.9	NA	7.58	25	5.28	221	<0.1	20.6	<7.5	<1	<7.5	38.7	29.7
(dup)	20	1992	11,500	<5.0	<7.5	85.1	<0.5	<50	<1	61	NA	12.7	28	6.44	594	<0.1	38.9	<7.5	<1	<7.5	40.8	38
	25	1992	13,400	<5.0	<7.5	84.1	<0.5	<50	<1	43.1	NA	11.5	28	6.82	330	<0.1	31.8	<7.5	<1	<7.5	53.2	41
	32	1992	25,900	<5.0	<7.5	164	0.97	<50	<1	11.7	NA	12.2	21.5	7.31	437	<0.1	15.9	<7.5	<1	<7.5	50.7	48.8
	35	1992	23,900	<5.0	<7.5	151	0.70	<50	<1	11.3	NA	9.99	23.8	6.78	241	<0.1	12.8	<7.5	<1	<7.5	51.6	43.8

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg).
Metals detected at concentrations statistically above background are shaded in header.
Metal concentrations above background and human health soil screening levels (HH SSLs) are in bold and shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
(dup) = Duplicate sample
NA = Not analyzed
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between reporting limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference.

Validation Qualifiers:
J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 5-21 Summary of Semivolatile Organic Compounds (SVOCs) Detected in Soil Samples
Site 33D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Benzoic Acid	bis (2-ethylhexyl) phthalate	Chrysene	Di-n-butyl phthalate	Diethyl phthalate	Fluor-anthene	Pyrene
HH SSL:			**100,000,000**	**34,740**	**3,780**	**NE**	**4,888,000**	**229,360**	**231,600**
33D-SB01	1.0	8/7/2003	<2.7	<9.3	<11	<12	<14	<11	<12
33D-SB01	5.0	8/7/2003	<2.7	<9.3	<11	<12	<14	<11	<12
33D-SB01	10.0	8/7/2003	<2.7	**45 j**	<11	<12	**48 j**	<11	<12
33D-SB01	15.0	8/7/2003	<2.7	<9.3	<11	<12	**86 j**	<11	<12
33D-SB01	20.0	8/7/2003	<2.7	<9.3	<11	<12	**100 j**	<11	<12
33D-SB01	30.0	8/7/2003	<2.7	<9.3	<11	<12	<14	<11	<12
33D-SB01 (dup)	30.0	8/7/2003	<2.7	<9.3	<11	<12	**200 j**	<11	<12
33D-SB01	35.0	8/7/2003	<2.7	<9.3	<11	<12	**49 j**	<11	<12
33D-SB01	40.0	8/7/2003	<2.7	<9.3	<11	<12	<14	<11	<12
33D-SB01	45.0	8/7/2003	<2.7	<9.3	<11	<12	<14	<11	<12

Notes and Key:
Concentrations and units reported in micrograms per kilogram (µg/kg).
Detected concentrations are in bold.
Concentrations detected above human health soil screening levels (HH SSLs) are in bold.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Duplicate sample
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SB = Soil boring
SNS = Surface/near surface

Laboratory Qualifiers:
j = Estimated value. Reported concentration is between method detection limit and practical quantitation limit.

Table 5-22 Summary of Volatile Organic Compound (VOC) Analysis of Soil Vapor Samples
Sites 36D and 37D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Sample Date	Freon 11	CE	DCM	1,1-DFA	1,1-DCA	1,1-DCE	cis-1,2-DCE	CF	1,1,1-TCA	TCE	PCE	B	T	EB	m,p-Xylene	o-Xylene	Styrene	1,3,5-TMB	1,2,4-TMB	1,2-DCB	Hexane	Cyclo-Hexane	Heptane	BDCM	Propyl-benzene	CM	Acetone	CDSD	2-Propanol	2-Butanone (MEK)	Tetra-hydro-furan	2-HEX	4-Ethyl toluene	MTBE	Ethanol	Vinyl Chloride
PGOU SVSL:			**73**	**2.32**	**20.8**	NE	**1.2**	**20.8**	**3.7**	**0.08**	**0.12**	**0.96**	**0.32**	**0.08**	**40.1**	**106**	**10.6**	**10.6**	**106**	**0.62**	**0.62**	**20.9**	**20.8**	**620**	NE	**0.11**	**14.6**	**9.5**	**329**	**73**	NE	**511**	**0.99**	NE	NE	**7.4**	NE	**0.03**
36D-SP17	5.0		<0.10	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	**0.38**	<0.10	**0.13**	<0.10	<0.10	**0.12**	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
36D-SP18	5.0		<0.024	<0.011 uj	<0.015	NA	<0.018	<0.017	**0.024**	**0.046**	**0.051**	**8.0**	**3.8**	**0.034**	**0.025**	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	**0.027**	<0.015	**0.024**	<0.029	<0.021	<0.036	**0.12**	<0.054	<0.042	<0.051	<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
36D-SP16	10.0		**0.28**	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	**0.98**	**0.65**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
36D-SP17	10.0		<0.10	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	**3.2**	**0.20**	<0.10	**0.18**	<0.10	**0.19**	<0.10	<0.10	<0.10	**0.12**	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
36D-SP21	10.0		<0.10	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
36D-SP15	20.0		<0.026	<0.012	<0.016	NA	<0.018	<0.018	<0.018	<0.022	<0.025	**0.053**	<0.031	<0.014	**0.064**	<0.020	**0.024**	<0.020	<0.019	<0.022	<0.022	<0.027	<0.016	<0.016	<0.019	<0.030	<0.022	<0.038	**0.29**	<0.057	<0.045	<0.054	<0.054	<0.075	<0.090	<0.066	<0.034	<0.012
36D-SP16	20.0		<0.029	<0.014	<0.018	NA	<0.021	<0.021	<0.021	<0.026	<0.028	<0.028	<0.036	<0.017	<0.020	<0.023	<0.023	<0.023	<0.022	<0.026	<0.026	<0.031	<0.018	<0.018	<0.021	<0.035	<0.026	<0.043	**0.15**	<0.065	<0.051	<0.062	<0.062	<0.086	<0.10	<0.075	<0.039	<0.013
36D-SP16 (dup)	20.0		<0.028	<0.013	<0.017	NA	<0.020	<0.020	<0.020	<0.024	<0.027	<0.027	<0.034	<0.016	<0.019	<0.022	**0.039**	<0.022	<0.021	<0.025	<0.025	<0.030	<0.018	<0.017	<0.020	<0.034	<0.025	<0.041	**0.23**	<0.062	<0.049	<0.059	<0.059	<0.082	<0.099	<0.072	<0.038	<0.013
36D-SP17	20.0		<0.051	<0.024	<0.032	NA	<0.037	<0.036	<0.036	<0.045	<0.050	<0.049	<0.062	<0.029	<0.034	<0.040	<0.040	<0.040	<0.039	<0.045	<0.045	<0.055	<0.032	<0.031	<0.037	<0.061	<0.045	<0.076	<0.087	<0.11	<0.090	<0.11	<0.11	<0.15	<0.18	<0.13	<0.069	<0.023
36D-SP18	20.0		<0.17	<0.080	<0.10	NA	<0.12 UJ	<0.12	<0.12	**0.81**	<0.16	**39**	**8.5**	<0.097	<0.11	<0.13	<0.13	<0.13	<0.13	<0.15 UJ	<0.15 UJ	<0.18 UJ	<0.11	<0.10	<0.12	<0.20	<0.15 UJ	<0.25	<0.29	<0.38	<0.30	<0.36	<0.36	<0.50	<0.60	<0.44	<0.23	<0.078
36D-SP18 (rep)	20.0		<0.12	<0.056	<0.074	NA	<0.086 UJ	<0.084	**0.13**	**1.0**	**0.19**	**49 e**	**10**	<0.068	<0.080	<0.092	<0.092	<0.092	<0.090	<0.10 UJ	<0.10 UJ	<0.13 UJ	<0.075	<0.073	<0.087	<0.14	<0.10 UJ	<0.18	<0.20	<0.26	<0.21	<0.25	<0.25	<0.35	<0.42	<0.31	<0.16	<0.054
36D-SP19	20.0		<0.024	<0.011	<0.015	NA	<0.017	<0.017	<0.017	**2.5**	<0.023	**0.70**	**0.56**	**0.023**	**0.016**	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	**0.027**	<0.015	<0.017	**0.038**	<0.021	<0.035	**0.065**	<0.053	<0.042	<0.050	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
36D-SP20	20.0		<0.048	<0.022	<0.029	NA	<0.034	<0.034	<0.034	**0.70**	<0.046	**8.4**	**3.5**	<0.027	<0.032	<0.037	<0.037	<0.037	<0.036	<0.042	<0.042	<0.051	<0.030	<0.029	<0.035	<0.057	<0.042	<0.070	<0.081	<0.10	<0.083	<0.10	<0.10	<0.14	<0.17	<0.12	<0.064	<0.022
36D-SP20 (rep)	20.0		<0.060	<0.028	<0.037	NA	<0.043	<0.042	<0.042	**0.75**	<0.058	**8.9**	**3.8**	<0.034	<0.040	<0.046	<0.046	<0.046	<0.045	<0.052	<0.052	<0.064	<0.037	<0.036	<0.044	<0.071	<0.052	<0.088	<0.10	<0.13	<0.10	<0.12	<0.12	<0.17	<0.21	<0.15	<0.080	<0.027
36D-SP21	20.0		<0.10	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.16**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
36D-SP21 (dup)	20.0		<0.10	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.10**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
37D-SP08	5.0		<0.10	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	**0.36**	**0.11**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
37D-SP08	5.0	06/07/05	<0.0063	<0.0030	<0.0039	<0.012	<0.0045	<0.0044	<0.0044	<0.0055	**0.043**	<0.0060	<0.0076	<0.0084 U	<0.047 U	<0.010 U	<0.041 U	<0.014 U	<0.0048	<0.0055	<0.0091 U	<0.0067	<0.0097 U	<0.0038	**0.0066**	<0.0075	<0.0055	<0.0092	<0.59 U	<0.0035	<0.011	<0.012 U	<0.0033	<0.018	<0.010 U	<0.004	<0.0084	<0.0029
37D-SP08	5.0	06/09/05	<0.0068	<0.0032	<0.030 U	<0.013	<0.0049	<0.0048	<0.0048	<0.0059	**0.016**	<0.0065	<0.0082	<0.0039	**0.010**	<0.0052	**0.013**	<0.0052	<0.0052	<0.0059	<0.0059	<0.0073	<0.0043	<0.0042	<0.0050	<0.0081	<0.0059	<0.010	**0.50**	**0.010**	<0.012	<0.007 U	<0.0036	<0.020	<0.0059	<0.0044	<0.0091	<0.0031
37D-SP08*	5.0	07/13/05	<0.0071	<0.0033 uj,UJ	<0.0044	<0.014	<0.0051	<0.0050	<0.0050	<0.0062	**0.037**	<0.0068	<0.0086	<0.0040	**0.011**	<0.0055	**0.019**	**0.0074**	<0.0054	<0.0062	<0.0062	<0.0076	<0.0044	<0.0044	<0.0052	<0.0085	<0.0062	<0.010	<0.45 U	**0.0082**	<0.012	<0.028 U	<0.0037	<0.021	<0.0062	<0.0046	<0.0095	<0.0032
37D-SP08	10.0	07/18/03	<0.025	<0.012	<0.015	NA	**0.85**	**0.061**	**0.44**	**0.11**	**2.4**	**0.59**	<0.030	**0.068**	**0.046**	<0.019	<0.019	<0.019	**0.049**	<0.022	<0.022	<0.026	**0.033**	<0.015	**0.027**	<0.029	<0.022	<0.036	**0.55**	**0.17**	<0.043	**0.12**	<0.052	<0.072	<0.086	<0.063	**0.054**	<0.011
37D-SP08	10.0	06/07/05	<0.0065	<0.0031	<0.0040	<0.012	<0.0047	<0.0046	<0.0046	<0.0057	**0.045**	<0.0063	<0.0079	<0.02 U	<0.062 U	<0.012 U	<0.044 U	<0.014 U	<0.005	<0.0057	<0.011 U	<0.007	<0.013 U	<0.0042 U	**0.008**	<0.0078	<0.0057	<0.0096	<0.69 U	**0.032**	<0.011	<0.016 U	<0.0034	<0.019	<0.012 U	<0.0042	<0.0088	<0.003
37D-SP08* (dup)	10.0	06/07/05	<0.0067	<0.0031	<0.0041	<0.013	<0.0048	<0.0047	<0.0047	**0.0067**	**0.036**	**2.0**	**0.22**	**0.025**	<0.067 U	<0.013 U	<0.056 U	<0.017 U	<0.0051	<0.0058	<0.014 U	<0.0072	**0.062**	<0.031 U	**0.026**	<0.0080	<0.0058	<0.0098	<0.460 U	**0.066**	<0.012	<0.015 U	<0.0035 U	<0.019	<0.015 U	<0.0043	<0.009	<0.003
37D-SP08	10.0	06/10/05	<0.046	<0.022	<0.029	<0.089	<0.033	<0.033	<0.033	<0.040	**0.057**	<0.044	<0.056	<0.026	**0.064**	<0.036	**0.052**	<0.036	<0.035	<0.040	<0.040	<0.050	<0.029	<0.028	<0.034	<0.055	<0.040	<0.068	**5.7**	<0.026	<0.081	<0.078 U	<0.024	<0.14	<0.040	<0.030	<0.062	<0.021
37D-SP08 (rep)	10.0	06/10/05	<0.046	<0.022	<0.029	<0.089	<0.033	<0.033	<0.033	<0.040	**0.053**	<0.044	<0.056	<0.026	**0.065**	<0.036	**0.048**	<0.036	<0.035	<0.040	<0.040	<0.050	<0.029	<0.028	<0.034	<0.055	<0.040	<0.068	**5.4**	<0.026	<0.081	**0.066**	<0.024	<0.14	<0.040	<0.030	<0.062	<0.021
37D-SP08	10.0	07/13/05	<0.0072	<0.0034 uj,UJ	<0.0045	<0.014	**0.013**	<0.0051	<0.0051	<0.0063	**0.047**	<0.0069	<0.0088	**0.0053**	**0.032**	**0.0073**	**0.023**	**0.0076**	<0.0055	<0.0063	<0.0063	<0.0078	**0.0088**	<0.0044	<0.0053	<0.0086	<0.0063	<0.011	<1.3 e,U	**0.043**	<0.013	<0.088 U	<0.0038	**0.034**	<0.0063	<0.0046	<0.011 U	<0.0033
37D-SP08 (dup)	10.0	07/13/05	<0.0065	<0.0031 uj,UJ	<0.0040	<0.012	<0.0047	<0.0046	<0.0046	<0.0057	**0.040**	<0.0063	<0.0079	**0.0058**	**0.028**	**0.0072**	**0.025**	**0.0099**	<0.0050	<0.0057	<0.0057	<0.007	**0.0059**	<0.0040	<0.0048	<0.0078	<0.0057	<0.0096	<0.99 U	**0.030**	<0.011	<0.054 U	<0.0034	**0.021**	**0.0061**	<0.0042	<0.0086 jU	<0.0030
37D-SP08	10.0	09/01/06	<0.0059	<0.0028	<0.0036	NA	<0.0042	<0.0041	<0.0041	<0.0051	**0.011**	**0.031**	**0.033**	**0.017**	**0.0075**	**0.0045**	**0.010**	**0.054**	**0.0084**	<0.0051	<0.0051	<0.0063	<0.0037	**0.013**	<0.0043	<0.007	<0.0051	<0.0086	**0.037**	**0.0036**	<0.010	**0.017**	<0.0031	<0.017	<0.0051	<0.0038	<0.0079	<0.0027
37D-SP08 (dup)	10.0	09/01/06	<0.0057	<0.0027	**0.0093**	NA	<0.0041	<0.004	<0.004	<0.0049	<0.0055	**0.014**	**0.012**	**0.009**	**0.0096**	<0.0044	**0.0089**	**0.024**	**0.005**	<0.005	<0.005	<0.0061	<0.0036	**0.0075**	<0.0041	<0.0068	<0.005	<0.0083	**0.033**	<0.0031	<0.0099	**0.014**	<0.003	<0.016	<0.005	<0.0036	**0.028**	<0.0026
37D-SP09	10.0		<0.024	<0.011	<0.015	NA	<0.017	<0.017	<0.017	<0.021	<0.023	<0.023	<0.029	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.017	<0.028	<0.021	<0.035	<0.040	<0.053	<0.042	<0.050	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
37D-SP10	10.0		<0.024	<0.011	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	<0.023	<0.029	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029	<0.021	<0.036	**0.096**	<0.054	<0.042	<0.051	<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
37D-SP11	10.0		<0.025	<0.012	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	**0.049**	<0.030	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.026	<0.015	<0.015	<0.018	<0.029	<0.022	<0.036	**0.11**	<0.055	<0.043	<0.052	<0.052	<0.072	<0.086	<0.063	<0.033	<0.011
37D-SP11 (dup)	10.0		<0.024	<0.011	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	**0.044**	<0.029	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029	<0.021	<0.036	**0.12**	<0.054	<0.042	<0.051	<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
37D-SP12	10.0		<0.025	<0.012	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	<0.024	<0.030	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.026	<0.015	<0.015	<0.018	<0.029	<0.022	<0.036	**0.053**	<0.055	<0.043	<0.052	<0.052	<0.072	<0.086	<0.063	<0.033	<0.011
37D-SP12 (rep)	10.0		<0.025	<0.012	<0.015	NA	<0.018	<0.017	<0.017	<0.021	<0.024	<0.024	<0.030	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.026	<0.015	<0.015	<0.018	<0.029	<0.022	<0.036	**0.048**	<0.055	<0.043	<0.052	<0.052	<0.072	<0.086	<0.063	<0.033	<0.011
37D-SP13	10.0		<0.10	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
37D-SP08	15.0	06/07/05	<0.0068	<0.0032	<0.0042	<0.013	<0.0049	<0.0048	<0.0048	<0.0059	**0.071**	<0.0065	<0.0082	<0.014 U	<0.061 U	<0.010 U	<0.040 U	<0.014 U	<0.0052	<0.0059	<0.0093 U	<0.0073	<0.018 U	<0.0046 U	**0.0071**	<0.0081	<0.0059	<0.010	<0.58 U	<0.0038	<0.012	<0.014 U	<0.0036	<0.020	<0.010 U	<0.0044	<0.0091	<0.0031
37D-SP08* (dup)	15.0	06/10/05	<0.018	<0.0087	<0.011	<0.036	<0.013	<0.013	<0.013	<0.016	**0.070**	<0.018	<0.022	<0.010	**0.049**	<0.014	**0.048**	**0.017**	<0.014	<0.016	**0.019**	<0.020	<0.012	<0.011	<0.014	<0.022	<0.016	<0.027	**2.60**	<0.010	<0.032	<0.020 U	<0.0097	<0.054	**0.017**	<0.012	<0.025	<0.0084
37D-SP08	15.0	07/13/05	<0.0071	<0.0033	<0.0044	<0.014	<0.0051	<0.0050	<0.0050	<0.0062	**0.071**	<0.0068	<0.0086	**0.0045**	**0.028**	<0.0055	**0.015**	<0.0055	<0.0054	<0.0062	<0.0062	<0.0076	**0.0085**	<0.0044	**0.0052**	<0.0085	<0.0062	<0.010	<0.99 U	**0.0068**	<0.012	<0.061 U	<0.0037	**0.023**	<0.0062	<0.0046	<0.011 U	<0.0032
37D-SP08	20.0		<0.10	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	**0.17**	**0.14**	<0.10	**0.14**	**0.80**	**0.15**	**0.53**	**0.20**	<0.10	<0.10	**0.12**	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10

Notes and Key:

Concentrations reported in milligrams per cubic meter (mg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
Concentrations above human health soil vapor screening levels (HH SVSLs) are highlighted by shading.
< = Less than; not detected above the noted Practical Quanitation Limit.
* = Sample collected in individual certified canister
bgs = Below ground surface
dup = Field duplicate sample
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
PV = Purge volume
rep = Laboratory replicate sample
RI/FS = Remedial Investigation/Feasibility Study

Compound Abbreviations:

B = Benzene
BDCM = Bromodichloromethane
CB = Chlorobenzene
CDSD = Carbon Disulfide
CE = Chloroethane
CF = Chloroform
CM = Chloromethane
DCB = Dichlorobenzene
DCE = Dichloroethylene
DCM = Dichloromethane
DCP = Dichloropropene
DFA = Difluoroethane (leak check gas)

Laboratory Qualifiers:

e = Exceeds instrument calibration range.
j = Estimated value.
uj = Non detected compound associated with low bias in the continuing calibration verification.

Data Validation Qualifiers:

J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 5-23 Summary of Semivolatile Organic Compounds (SVOCs) Detected in Soil Samples
Sites 36D and 37D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Benzoic Acid	bis (2-ethylhexyl) phthalate	Chrysene	Di-n-butyl phthalate	Diethyl phthalate	Fluor-anthene	Pyrene
HH SSL:			**100,000,000**	**34,740**	**3,780**	**NE**	**4,888,000**	**229,360**	**231,600**
36D-SB01	2.5	7/30/2003	<8.0	**180 j**	**150 j**	**260 j**	<43	**160 j**	**180 j**
36D-SB01	5.0	7/30/2003	**52 j**	<9.3	<11	<12	<14	<11	<12
36D-SB01	11.0	7/30/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB01	15.0	7/30/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB01	20.0	7/30/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB01	25.0	7/30/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB01	30.0	7/30/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB01	35.0	7/30/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB01	40.0	7/30/2003	**86 j**	**85 j**	<11	<12	<14	<11	<12
36D-SB01 (dup)	40.0	7/30/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB02	0.0	7/31/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB02	3.0	7/31/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB02	6.0	7/31/2003	<2.7	**35 j**	<11	<12	<14	<11	<12
36D-SB02	10.0	8/1/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB02	15.0	7/31/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB02	20.0	7/31/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB02	25.0	7/31/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB02	30.0	7/31/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB02	35.0	7/31/2003	<2.7	<9.3	<11	<12	<14	<11	<12
36D-SB02	40.0	7/31/2003	**100 j**	**150 j**	<11	<12	<14	<11	<12
36D-SB02 (dup)	40.0	7/31/2003	<2.7	<9.3	<11	<12	<14	<11	<12
37D-SB01	6.0	7/29/2003	<2.7	<9.3	<11	<12	<14	<11	<12
37D-SB01	6.0	7/30/2003	<2.7	**47 j**	<11	<12	**66 j**	<11	<12
37D-SB01	10.0	7/29/2003	<2.7	<9.3	<11	<12	<14	<11	<12
37D-SB01	15.0	7/29/2003	<2.7	<9.3	<11	<12	<14	<11	<12
37D-SB01	20.0	7/29/2003	<2.7	<9.3	<11	<12	<14	<11	<12
37D-SB01	25.0	7/29/2003	<2.7	<9.3	<11	<12	<14	<11	<12
37D-SB01	30.0	7/29/2003	<2.7	<9.3	<11	<12	<14	<11	<12
37D-SB01 (dup)	30.0	7/29/2003	<2.7	<9.3	<11	<12	<14	<11	<12
37D-SB01	35.0	7/29/2003	<2.7	<9.3	<11	<12	<14	<11	<12
37D-SB01	40.0	7/29/2003	<2.7	<9.3	<11	<12	<14	<11	<12

Notes and Key:
Concentrations and units reported in micrograms per kilogram (µg/kg).
Detected concentrations are in bold.
Concentrations above human health soil screening level (HH SSL) are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Duplicate sample
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
PRG = Preliminary Remediation Goal (United States Environmental Protection Agency Region IX, November 2002)
RI/FS = Remedial Investigation/Feasibility Study
SB = Soil boring
SNS = Surface/near surface

Laboratory Qualifiers:
j = Estimated value. Reported concentration is between method detection limit and practical quantitation limit.

Table 5-24 Summary of Total Petroleum Hydrocarbons as Diesel (TPH-D) Analysis of Soil Samples Site 37D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Date	Sample Depth (feet bgs)	TPH-D (C_{10}-C_{28})
Soil Screening Level:			**100**
37D-SB01	7/29/2003	2.5	**24**
37D-SB01	7/29/2003	6	**6.2**
37D-SB01	7/29/2003	10	<5.0
37D-SB01	7/29/2003	15	**5.7**
37D-SB01	7/29/2003	20	**18**
37D-SB01	7/29/2003	25	<5.0
37D-SB01	7/29/2003	30	<5.0
37D-SB01 (dup)	7/29/2003	30	<5.0
37D-SB01	7/29/2003	35	<5.0
37D-SB01	7/29/2003	40	<5.0

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg)
Concentrations above screening level are highlighted by shading.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Duplicate
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SB = Soil boring
TPH = Total petroleum hydrocarbons

Table 5-25 *Summary of Volatile Organic Compound (VOC) Analysis of Soil Vapor Samples*
Site 39D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Freon 11	CE	DCM	1,1-DCA	1,1-DCE	cis-1,2-DCE	CF	1,1,1-TCA	TCE	PCE	B	T	EB	m,p-Xylene	o-Xylene	Styrene	1,3,5-TMB	1,2,4-TMB
PGOU SVSL:		**73**	**2.32**	**20.8**	**1.2**	**20.8**	**3.7**	**0.08**	**0.12**	**0.96**	**0.32**	**0.08**	**40.1**	**106**	**10.6**	**10.6**	**106**	**0.62**	**0.62**
39D-SP05	5.0	<0.024	<0.011 uj,UJ	<0.015	<0.017 UJ	<0.017	<0.017	<0.021	<0.023	<0.023	<0.029	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021 UJ
39D-SP03	15.0	<0.023	<0.011	**0.049**	<0.017	<0.016	<0.016	<0.020	<0.023	<0.022	<0.028	<0.013	**0.074**	<0.018	<0.018	<0.018	<0.018	<0.020	<0.020
39D-SP04	15.0	<0.025	<0.012	<0.015	<0.018	<0.017	<0.017	<0.021	<0.024	<0.024	<0.030	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022
39D-SP04 (rep)	15.0	<0.025	<0.012	<0.015	<0.018	<0.017	<0.017	<0.021	<0.024	<0.024	<0.030	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022
39D-SP05	15.0	<0.025	<0.012	<0.015	<0.018	<0.017	<0.017	**0.084**	<0.024	**0.036**	<0.030	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022
49ST07-SP02	10.0	<0.024	<0.011	<0.015	<0.018	<0.017	<0.017	**0.61**	<0.024	**0.043**	<0.029	**0.019**	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021

Sample Location	Sample Depth (feet bgs)	1,2-DCB	Hexane	Cyclo-Hexane	Heptane	BDCM	Propyl-benzene	CM	Acetone	CDSD	2-Propanol	2-Butanone (MEK)	Tetra-hydro-furan	2-HEX	4-Ethyl toluene	MTBE	Ethanol	Vinyl Chloride
PGOU SVSL:		**20.9**	**20.8**	**620**	NE	**0.11**	**14.6**	**9.5**	**329**	**73**	NE	**511**	**0.99**	NE	NE	**7.4**	NE	**0.03**
39D-SP05	5.0	<0.026	<0.015	<0.015	<0.017	<0.028	<0.021 UJ	<0.035	**0.13**	<0.053	<0.042	<0.050	<0.050	<0.070	<0.084 UJ	<0.061 UJ	<0.032	<0.011
39D-SP03	15.0	<0.025	<0.015	**0.051**	<0.017	<0.028	<0.020	<0.034	**0.060**	<0.052	<0.041	<0.049	<0.049	<0.068	<0.082 UJ	<0.060	**0.041**	<0.011
39D-SP04	15.0	<0.026	**0.023**	<0.015	<0.018	<0.029	<0.022	<0.036	**0.15**	<0.055	<0.043	<0.052	<0.052	<0.072	<0.086 UJ	<0.063	<0.033	<0.011
39D-SP04 (rep)	15.0	<0.026	**0.022**	<0.015	<0.018	<0.029	<0.022	<0.036	**0.12**	<0.055	<0.043	<0.052	<0.052	<0.072	<0.086 UJ	<0.063	<0.033	<0.011
39D-SP05	15.0	<0.026	<0.015	<0.015	<0.018	<0.029	<0.022	<0.036	**4.1**	<0.055	<0.043	**0.062**	<0.052	<0.072	<0.086 UJ	<0.063	<0.033	<0.011
49ST07-SP02	10.0	<0.026	**0.022**	<0.015	**0.018**	<0.029	<0.021	<0.036	**0.089**	<0.054	<0.042	<0.051	**0.06**	<0.071	<0.085 UJ	<0.062	<0.033	<0.011

Notes and Key:

Concentrations reported in milligrams per cubic meter (mg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
Concentrations above soil vapor screening levels (SVSLs) are highlighted by shading.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
rep = Laboratory replicate sample
RI/FS = Remedial Investigation/Feasibility Study

Compound Abbreviations:

B = Benzene
BDCM = Bromodichloromethane
CDSD = Carbon Disulfide
CE = Chloroethane
CF = Chloroform
DCA = Dichloroethane
DCB = Dichlorobenzene
DCE = Dichloroethylene
DCM = Dichloromethane
DCP = Dichloropropene
EB = Ethylbenzene
Freon 11 = Trichlorofluoromethane
HEX = Hexanone
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary butyl ether
T = Toluene
TCA = Trichloroethane
TCE = Trichloroethene
TMB = Trimethylbenzene

Laboratory Qualifiers:

j = Estimated value.
uj = Non detected compound associated with low bias in the continuing calibration verification.

Data Validation Qualifiers:

J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 5-26 Summary of Semivolatile Organic Compounds (SVOCs) Detected in Soil Samples
Site 39D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Benzoic Acid	bis (2-ethylhexyl) phthalate	Chrysene	Di-n-butyl phthalate	Diethyl phthalate	Fluor-anthene	Pyrene
HH SSL:			**100,000,000**	**34,740**	**3,780**	**NE**	**4,888,000**	**229,360**	**231,600**
39D-SB01	2.5	8/8/2003	<2.7	**100 j**	<11	<12	<14	<11	<12
39D-SB01	5.0	8/8/2003	<2.7	**68 j**	<11	<12	<14	<11	<12
39D-SB01	10.0	8/8/2003	<2.7	**84 j**	<11	<12	<14	<11	<12
39D-SB01	15.0	8/8/2003	<2.7	<9.3	<11	<12	<14	<11	<12
39D-SB01	20.0	8/8/2003	<2.7	<9.3	<11	<12	<14	<11	<12
39D-SB01	25.0	8/8/2003	<2.7	<9.3	<11	<12	**41 j**	<11	<12
39D-SB01 (dup)	25.0	8/8/2003	<2.7	<9.3	<11	<12	<14	<11	<12
39D-SB01	30.0	8/8/2003	<2.7	**75 j**	<11	<12	**46 j**	<11	<12
39D-SB01	35.0	8/8/2003	<2.7	<9.3	<11	<12	<14	<11	<12
39D-SB01	40.0	8/8/2003	<2.7	<9.3	<11	<12	<14	<11	<12

Notes and Key:
Concentrations and units reported in micrograms per kilogram (µg/kg).
Detected concentrations are in bold.
Concentrations above human health soil screening levels (HH SSLs) are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Duplicate sample
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
PRG = Preliminary Remediation Goal (United States Environmental Protection Agency Region IX, November 2002)
RI/FS = Remedial Investigation/Feasibility Study
SB = Soil boring
SNS = Surface/near surface

Laboratory Qualifiers:
j = Estimated value. Reported concentration is between method detection limit and practical quantitation limit.

Table 5-27 *Summary of Volatile Organic Compound (VOC) Analysis of Soil Vapor Samples*
Area 49 Septic Tanks Associated with Buildings 49015 and 49022
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location		Sample Depth (feet bgs)	Freon 11	CE	DCM	1,1-DCA	1,1-DCE	cis-1,2-DCE	CF	1,1,1-TCA	TCE	PCE	B	T	EB	m,p-Xylene	o-Xylene	Styrene	1,3,5-TMB	1,2,4-TMB
PGOU SVSL:			**73**	**2.32**	**20.8**	**1.2**	**20.8**	**3.7**	**0.08**	**0.12**	**0.96**	**0.32**	**0.08**	**40.1**	**106**	**10.6**	**10.6**	**106**	**0.62**	**0.62**
49ST15-SP05		10.0	<0.025	<0.012	<0.015	<0.018	<0.017	<0.017	<0.021	<0.024	<0.024	<0.030	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022
49ST15-SP06		10.0	<0.025	<0.012	<0.015	<0.018	<0.017	<0.017	<0.021	<0.024	<0.024	<0.030	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022
49ST22-SP02		10.0	<0.025	<0.012	<0.016	<0.018	<0.018	<0.018	**0.043**	<0.024	**0.50**	<0.030	**0.014**	<0.017	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022
49ST22-SP02		20.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.41**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
49ST22-SP03	PV=1	10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.59**	<0.10	**0.24**	**1.4**	**0.19**	**0.63**	**0.22**	<0.10	<0.10	<0.10
49ST22-SP03	PV=3	10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.60**	<0.10	**0.42**	**2.2**	**0.28**	**0.89**	**0.30**	<0.10	<0.10	**0.10**
49ST22-SP03	PV=7	10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.61**	<0.10	**0.42**	**2.3**	**0.30**	**0.98**	**0.33**	<0.10	<0.10	**0.11**
49ST22-SP04		10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.53**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
49ST22-SP05		10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Sample Location		Sample Depth (feet bgs)	1,2-DCB	Hexane	Cyclo-Hexane	Heptane	BDCM	Propyl-benzene	CM	Acetone	CDSD	2-Propanol	2-Butanone (MEK)	Tetra-hydro-furan	2-HEX	4-Ethyl toluene	MTBE	Ethanol	Vinyl Chloride
PGOU SVSL:			**20.9**	**20.8**	**620**	NE	**0.11**	**14.6**	**9.5**	**329**	**73**	NE	**511**	**0.99**	NE	NE	**7.4**	NE	**0.03**
49ST15-SP05		10.0	<0.026	<0.015	<0.015	<0.018	<0.029	<0.022	<0.036	**0.22**	<0.055	<0.043	**0.056**	<0.052	<0.072	<0.086	<0.063	<0.033	<0.011
49ST15-SP06		10.0	<0.026	<0.015	<0.015	<0.018	<0.029	<0.022	<0.036	**0.12**	<0.055	<0.043	<0.052	<0.052	<0.072	<0.086	<0.063	<0.033	<0.011
49ST22-SP02		10.0	<0.027	<0.016	<0.015	<0.018	<0.030	<0.022	<0.037	**0.056**	<0.056	<0.044	<0.053	<0.053	<0.073	<0.088	<0.064	<0.034	<0.011
49ST22-SP02		20.0	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
49ST22-SP03	PV=1	10.0	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
49ST22-SP03	PV=3	10.0	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
49ST22-SP03	PV=7	10.0	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
49ST22-SP04		10.0	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
49ST22-SP05		10.0	<0.10	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10

Notes and Key:

Concentrations reported in milligrams per cubic meter (mg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
Concentrations above human health soil vapor screening levels (HH SVSLs) are highlighted by shading.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
dup = Field duplicate sample
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
PV = Purge volume
rep = Laboratory replicate sample
RI/FS = Remedial Investigation/Feasibility Study
SVSL = Soil vapor screening level

Compound Abbreviations:

B = Benzene
BDCM = Bromodichloromethane
CDSD = Carbon Disulfide
CE = Chloroethane
CF = Chloroform
CM = Chloromethane
DCB = Dichlorobenzene
DCE = Dichloroethylene
DCM = Dichloromethane
DCP = Dichloropropene
EB = Ethylbenzene
Freon 11 = Trichlorofluoromethane
HEX = Hexanone
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary butyl ether
PCE = Tetrachloroethane
TCA = Trichloroethane
TCE = Trichloroethene
TMB = Trimethylbenzene

Laboratory Qualifiers:

j = Estimated value.
uj = Non detected compound associated with low bias in the continuing calibration verification.

Data Validation Qualifiers:

J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 5-28 Summary of Volatile Organic Compound (VOC) Analysis of Soil Vapor Samples
Sites C10, C14, and C15
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	Sample Date	Freon 11	CE	DCM	1,1-DCA	1,1-DCE	cis-1,2-DCE	CF	1,1,1-TCA	TCE	PCE	B	T	EB	m,p-Xylene	o-Xylene	Styrene	1,3,5-TMB	1,2,4-TMB	1,2-DCB	Hexane	Cyclo-Hexane	Heptane	BDCM	Propyl-benzene	CM	Acetone	CDSD	2-Propanol	2-Butanone (MEK)	Tetra-hydro-furan	2-HEX	4-Ethyl toluene	MTBE	Ethanol	Vinyl Chloride
PGOU SVSL:			**73**	**2.32**	**20.8**	**1.2**	**20.8**	**3.7**	**0.08**	**0.12**	**0.96**	**0.32**	**0.08**	**40.1**	**106**	**10.6**	**10.6**	**106**	**0.62**	**0.62**	**20.9**	**20.8**	**620**	NE	**0.11**	**14.6**	**9.5**	**329**	**73**	NE	**511**	**0.99**	NE	NE	**7.4**	NE	**0.03**
C10-SV01*	10.0	1999	<0.091	<0.043	<0.14	<0.066	<0.065	<0.065	<0.079	<0.089	<0.087	<0.11	<0.052	<0.061	<0.071	<0.071	<0.071	<0.069	<0.080	<0.080	<0.098	<0.143	<0.14	<0.17	<0.27	NA	<0.034	<0.097	<0.13	<0.10	<0.12	<0.12	<0.17	<0.20	<0.15	**0.11**	<0.042
C10-SV02*	10.0	1999	<0.091	<0.043	<0.14	<0.066	<0.065	<0.065	<0.079	<0.089	<0.087	<0.11	<0.052	<0.061	<0.071	<0.071	<0.071	<0.069	<0.080	<0.080	<0.098	<0.143	<0.14	<0.17	<0.27	NA	<0.034	<0.097	<0.13	<0.10	<0.12	<0.12	<0.17	<0.20	<0.15	<0.077	<0.042
C10-SV03*	10.0	1999	<0.091	<0.043	<0.15	<0.066	<0.065	<0.065	<0.079	<0.089	<0.087	<0.11	<0.052	<0.061	<0.071	<0.071	<0.071	<0.069	<0.080	<0.080	<0.098	<0.147	<0.14	<0.17	<0.28	NA	<0.034	<0.099	<0.13	<0.10	<0.13	<0.12	<0.17	<0.21	<0.15	<0.079	<0.042
C10-SV04*	10.0	1999	<0.091	<0.043	<0.14	<0.066	<0.065	<0.065	<0.079	<0.089	<0.087	<0.11	**0.075**	**0.958**	**0.159**	**0.618**	**0.194**	<0.069	<0.080	**0.17**	<0.098	<0.143	<0.14	<0.17	<0.27	NA	<0.034	<0.097	<0.13	<0.10	<0.12	<0.12	<0.17	**0.23**	**0.15**	<0.077	<0.042
C10-SV05*	10.0	1999	<0.091	<0.043	<0.15	<0.066	<0.065	<0.065	<0.079	<0.089	<0.087	<0.11	<0.052	<0.061	<0.071	<0.071	<0.071	<0.069	<0.080	<0.080	<0.098	<0.147	<0.14	<0.17	<0.28	NA	<0.034	<0.099	<0.13	<0.10	<0.13	<0.12	<0.17	<0.21	<0.15	<0.079	<0.042
C10-SV06	10.0		<0.024	<0.011	<0.015	<0.017	<0.017	<0.017	<0.021	<0.023	<0.023	<0.029	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.017	<0.028	<0.021	<0.035	**0.45**	<0.053	<0.042	**0.12**	<0.050	<0.070	<0.084	<0.061	**0.072**	<0.011
C10-SV06 (rep)	10.0		<0.024	<0.011	<0.015	<0.017	<0.017	<0.017	<0.021	<0.023	<0.023	<0.029	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	**0.018**	<0.028	<0.021	<0.035	**0.44 U**	<0.053	<0.042	**0.12**	<0.050	<0.070	<0.084	<0.061	**0.069**	<0.011
C10-SV07	10.0		<0.024	<0.011	<0.015	<0.018	<0.017	<0.017	<0.021	<0.024	<0.023	<0.029	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029	<0.021	<0.036	**0.30**	<0.054	<0.042	**0.12**	<0.051	<0.071	<0.085	<0.062	**0.28**	<0.011
C10-SV04	17.0		<0.14	<0.065 uj	<0.086	<0.10	<0.098	<0.098	<0.12	<0.13	<0.13	**0.17**	<0.079	<0.093	<0.11	<0.11	<0.11	<0.10	<0.12	<0.12	<0.15	<0.087	<0.085	<0.10	<0.16	<0.12	<0.20	**1.4**	<0.31	<0.24	<0.29	<0.29	<0.40	<0.48	<0.36	**0.24**	<0.063
C10-SV04 (rep)	17.0		<0.14	<0.065 uj	<0.086	<0.10	<0.098	<0.098	<0.12	<0.13	<0.13	**0.17**	<0.079	<0.093	<0.11	<0.11	<0.11	<0.10	<0.12	<0.12	<0.15	<0.087	<0.085	<0.10	<0.16	<0.12	<0.20	**1.4**	<0.31	<0.24	<0.29	<0.29	<0.40	<0.48	<0.36	**0.23**	<0.063
C10-SV04	20.0		<0.058	<0.027	<0.036	<0.042	<0.041	<0.041	<0.050	<0.056	<0.055	<0.070	<0.033	<0.039	<0.044	<0.044	<0.044	<0.044	<0.050	<0.050 UJ	<0.062	**0.061**	<0.035	<0.042	<0.069	<0.050	<0.085 UJ	**1.5**	<0.13	<0.10	**0.40**	<0.12	<0.17	<0.20	<0.15	**0.23**	<0.026
C14-SV01*	15.0	1999	<0.091	<0.043	<0.15	<0.066	<0.065	<0.065	<0.079	<0.089	<0.087	<0.11	<0.052	<0.061	<0.071	<0.071	<0.071	<0.069	<0.080	<0.080	<0.098	<0.15	<0.14	<0.17	<0.28	NA	<0.034	<0.099	<0.13	<0.10	<0.13	<0.12	<0.17	<0.21	<0.15	<0.079	<0.042
C14-SV01 (dup)*	15.0	1999	<0.091	<0.043	<0.14	<0.066	<0.065	<0.065	<0.079	<0.089	**0.109**	<0.11	<0.052	<0.061	<0.071	<0.071	<0.071	<0.069	<0.080	<0.080	<0.098	<0.14	<0.14	<0.17	<0.27	NA	<0.034	<0.097	<0.13	<0.10	<0.12	<0.12	<0.17	<0.20	<0.15	<0.077	<0.042
C14-SV02*	15.0	1999	<0.091	<0.043	<0.15	<0.066	<0.065	<0.065	<0.079	<0.089	<0.087	<0.11	<0.052	<0.061	<0.071	<0.071	<0.071	<0.069	<0.080	<0.080	<0.098	<0.15	<0.14	<0.17	<0.28	NA	<0.034	<0.099	<0.13	<0.10	<0.13	<0.12	<0.17	<0.21	<0.15	<0.079	<0.042
C14-SV03*	11.5	1999	<0.091	<0.043	<0.15	<0.066	<0.065	<0.065	<0.079	<0.089	<0.087	<0.11	<0.055	<0.061	<0.071	<0.071	<0.071	<0.069	<0.080	<0.080	<0.098	<0.14	<0.14	<0.17	<0.27	NA	<0.034	**0.101**	<0.13	<0.10	<0.12	<0.12	<0.17	<0.20	<0.15	<0.077	<0.042
C14-SV03	20.0		<0.029	<0.014	<0.018	<0.021	<0.021	<0.021	<0.026	<0.028	<0.028	<0.036	<0.017	<0.020	<0.023	<0.023	<0.023	<0.022	<0.026	<0.026	<0.031	<0.018	<0.018	<0.021	<0.035	<0.026	<0.043	**0.076**	<0.065	<0.051	<0.062	<0.062	<0.086	<0.10	<0.075	<0.039	<0.013
C14-SV04*	10.0	1999	<0.097	<0.046	<0.15	<0.070	<0.069	<0.069	<0.084	<0.094	<0.093	<0.12	<0.055	<0.065	<0.075	<0.075	<0.075	<0.073	<0.085	<0.085	<0.10	<0.15	<0.15	<0.18	<0.29	NA	<0.036	<0.10	<0.13	<0.11	<0.13	<0.13	<0.18	<0.21	<0.15	<0.080	<0.044
C14-SV05	10.0		<0.024	<0.011	<0.015	<0.017	<0.017	<0.017	<0.021	<0.023	<0.023	<0.029	<0.014	<0.016	<0.018	<0.018	<0.018	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.017	<0.028	<0.021	<0.035	**0.18**	<0.053	<0.042	**0.056**	<0.050	<0.070	<0.084	<0.061	<0.032	<0.011
C14-SV06	10.0		<0.023	<0.011	<0.014	<0.017	<0.016	<0.016	<0.020	<0.023	<0.022	<0.028	<0.013	<0.016	<0.018	<0.018	<0.018	<0.018	<0.020	<0.020	<0.025	<0.015	<0.014	<0.017	<0.028	<0.020	<0.034	**0.12**	<0.052	<0.041	<0.049	<0.049	<0.068	<0.082	<0.060	<0.031	<0.011
C15-SV01*	10.0	1999	<0.097	<0.046	<0.15	<0.070	<0.069	<0.069	<0.084	<0.094	<0.093	<0.12	<0.055	<0.065	<0.075	<0.075	<0.075	<0.073	<0.085	<0.085	<0.10	<0.15	<0.15	<0.18	<0.29	NA	<0.036	**0.15**	<0.13	<0.11	<0.13	<0.13	<0.18	<0.21	<0.15	<0.080	<0.044
C15-SV01 (dup)*	10.0	1999	<0.097	<0.046	<0.15	<0.070	<0.069	<0.069	<0.084	<0.094	<0.093	<0.12	<0.055	<0.065	<0.075	<0.075	<0.075	<0.073	<0.085	<0.085	<0.10	<0.15	<0.15	<0.18	<0.29	NA	<0.036	**0.14**	<0.13	<0.11	<0.13	<0.13	<0.18	<0.21	<0.15	<0.080	<0.044
C15-SV02*	10.0	1999	<0.091	<0.043	<0.15	<0.066	<0.065	<0.065	<0.079	<0.089	<0.087	<0.11	<0.052	<0.061	<0.071	<0.071	<0.071	<0.069	<0.080	<0.080	<0.098	<0.15	<0.14	<0.17	<0.27	NA	<0.034	<0.099	<0.13	<0.10	<0.13	<0.12	<0.17	<0.21	<0.15	<0.079	<0.042
C15-SV03*	10.0	1999	<0.097	<0.046	<0.15	<0.070	<0.069	<0.069	<0.084	<0.094	<0.093	<0.12	<0.055	<0.065	<0.075	<0.075	<0.075	<0.073	<0.085	<0.085	<0.10	<0.15	<0.15	<0.18	<0.29	NA	<0.036	<0.101	<0.13	<0.11	<0.13	<0.13	<0.18	<0.21	<0.15	**1.46**	<0.044
C15-SV04*	10.0	1999	<0.091	<0.043	<0.15	<0.066	<0.065	<0.065	**0.199**	<0.089	<0.087	<0.11	<0.052	<0.061	<0.071	<0.071	<0.071	<0.069	<0.080	<0.080	<0.098	<0.15	<0.14	<0.17	<0.27	NA	<0.034	<0.099	<0.13	<0.10	<0.13	<0.12	<0.17	<0.21	<0.15	**1.44**	<0.042
C15-SV05	10.0		<0.025	<0.012	<0.015	<0.018	<0.017	<0.017	<0.021	<0.024	<0.024	<0.030	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.026	<0.015	<0.015	<0.018	<0.029	<0.022	<0.036	**0.10**	<0.055	<0.043	<0.052	<0.052	<0.072	<0.086	<0.063	<0.033	<0.011
C15-SV06	10.0		<0.025	<0.012	<0.015	<0.018	<0.017	<0.017	<0.021	<0.024	<0.024	<0.030	<0.014	<0.016	<0.019	<0.019	<0.019	<0.019	<0.022	<0.022	<0.026	<0.015	<0.015	<0.018	<0.029	<0.022	<0.036	**0.054**	<0.055	<0.043	<0.052	<0.052	<0.072	<0.086	<0.063	<0.033	<0.011
C15-SV07	10.0		<0.024	<0.011	<0.015	<0.018	<0.017	<0.017	<0.021	<0.024	<0.023	<0.029	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029	<0.021	<0.036	**0.20**	<0.054	<0.042	<0.051	<0.051	<0.071	<0.085	<0.062	**0.043 J**	<0.011
C15-SV07 (dup)	10.0		<0.024	<0.011	<0.015	<0.018	<0.017	<0.017	<0.021	<0.024	<0.023	<0.029	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029	<0.021	<0.036	**0.13**	<0.054	<0.042	<0.051	<0.051	<0.071	<0.085	<0.062	<0.033	<0.011
C15-SV08	10.0		<0.024	<0.011	<0.015	<0.018	<0.017	<0.017	<0.021	<0.024	<0.023	<0.029	<0.014	<0.016	<0.019	<0.019	<0.019	<0.018	<0.021	<0.021	<0.026	<0.015	<0.015	<0.018	<0.029	<0.021	<0.036	**0.067**	<0.054	<0.042	<0.051	<0.051	<0.071	<0.085	<0.062	<0.033	<0.011

Notes and Key:
Concentrations reported in milligrams per cubic meter (mg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
Concentrations above soil vapor screening levels (SVSLs) are highlighted by shading.
< = Less than; not detected above the noted Practical Quanitation Limit.
* = Sample collected as part of investigation activities in 1999
bgs = Below ground surface
dup = Field duplicate sample
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
rep = Laboratory replicate sample
RI/FS = Remedial Investigation/Feasibility Study

Compound Abbreviations:
B = Benzene
BDCM = Bromodichloromethane
CDSD = Carbon Disulfide
CE = Chloroethane
CF = Chloroform
CM = Chloromethane
DCA = Dichloroethane
DCE = Dichloroethylene
DCM = Dichloromethane
DCP = Dichloropropene
EB = Ethylbenzene
Freon 11 = Trichlorofluoromethane
HEX = Hexanone
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary butyl ether
PCE = Tetrachloroethane
T = Toluene
TCE = Trichloroethene
TMB = Trimethylbenzene

Laboratory Qualifiers:
uj = Non detected compound associated with low bias in the continuing calibration verification.

Data Validation Qualifiers:
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 5-29 *Summary of Proposed and Actual Soil Vapor Sampling Activities*
Sites C10, C14, and C15
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site No.	Description and Historical Operations	Proposed Sampling Activity	Number of Proposed Sampling Locations	Proposed Sample Depths	Number of Samples Proposed	Number of Samples Collected	Sample ID	Sample Depth (ft bgs)	Comments
C10	**Concrete-lined Ditch and Surrounding Land** Ditch predates Aerojet use of site	Soil Vapor	1	20 feet	1	2	C10-SV04	17 & 20	
			2	10 feet	2	2	C10-SV06 C10-SV07	10 10	
C14	**Drainage Area and Open Land on Northern Boundary of Aerojet Site**	Soil Vapor	1	20 feet	1	1	C14-SV03	20	
			2	10 feet	2	2	C14-SV05 C14-SV06	10 10	
		Flux Chamber	2	Surface	2	3	C14-FLUX 1 C14-FLUX 2 C14-FLUX N2	Surface Surface Surface	Collected at C14-SV03 Collected at C14-SV06 Negative pressure at C14-SV06
C15	**Drainage Ditch and Low-Lying Area between Area 49 and Schnitzer Steel** Area received surface water runoff from west end of Area 49 and Schnitzer Steel	Soil Vapor	4	10 feet	4	4	C15-SV05 C15-SV06 C15-SV07 C15-SV08	10 10 10 10	Duplicate at 10 feet

Notes and Key:
Bldg = Building
bgs = Below ground surface
ft = Feet
ID = Identification
NA = Not applicable
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
UST = Underground storage tank

Table 5-30 Summary of Metals Analysis of Soil Samples
Sites C10 and C14
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Hexavalent Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Sodium	Thallium	Titanium	Vanadium	Zinc
C10-SS01	0.5	1999	31,000	<1.4	**10**	226	**0.71**	<28.2	<0.70	4,440	81.9	NA	25.7	**71.2**	42,900	**27.1**	8,840	842	**0.15**	<5.6	**63.8**	<0.70	<0.70	<704	<0.28	1,190	98.8	**181**
C10-SS02	0.5	1999	26,000	<1.1	6.2	168	<0.57	<22.7	**1.3**	5,870	71.7	NA	20.1	**84.9**	32,900	**57.3**	6,450	737	**0.33**	<4.5	51.7	<0.57	**1.3**	<568	<0.23	955	72.2	**203**
C10-SS03	0.5	1999	25,200	<1.2	6.3	178	<0.59	<23.7	**1.6**	5,600	71.4	NA	18.5	**86.8**	32,600	**79.3**	6,500	623	**0.33**	<4.7	51.6	<0.59	**1.4**	<592	<0.24	890	68.3	**258**
C10-SS04	0.5	1999	22,900	<1.3	**7.1**	165	<0.66	<26.3	**1.5**	5,490	71.1	NA	18.5	**91.1**	31,400	**69.2**	6,140	659	**0.37**	<5.3	51.6	<0.66	**1.3**	<657	<0.26	911	71.2	**225**
C10-SS05	0.5	1999	22,300	<1.1	**6.5**	180	<0.54	<21.6	**1.3**	5,220	68.9	NA	18.3	**84**	30,700	**56.1**	6,110	597	**0.33**	<4.3	50.4	<0.54	**1.2**	<541	<0.22	881	69	**184**
C14-SS01	0.5	1999	24,100	1.1	**7.3**	158	0.58	<22.0	<0.55	4,260	63.9	NA	20.7	**42.4**	34,900	10.9	6,700	512	0.05	<4.4	57.8	<0.55	<0.55	<550	<0.22	1,020	79.3	**100**
C14-SS02	0.5	1999	20,100	<1.3	**10.5**	175	**0.78**	<25.3	<0.63	31,800	42.6	NA	16.7	38.1	29,500	**26.6**	6,720	511	<0.051	<5.1	41.2	<0.63	<0.63	<632	<0.25	611	65.3	**138**
C14-SS03	0.5	1999	18,200	<1.1	**6.4**	104	<0.53	<21.2	<0.53	3,910	57.1	NA	15.9	34.9	30,000	**20.1**	6,540	505	<0.042	<4.2	45.5	<0.53	<0.53	<529	<0.21	748	59.9	**79.3**
C14-SS04	0.5	1999	17,600	<1.1	**6.4**	123	<0.53	<21.4	<0.53	3,110	55.6	NA	16.8	34.6	29,700	**15.8**	6,450	513	<0.043	<4.3	51.1	<0.53	<0.53	<535	<0.21	904	63	63.8

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg).
Metal detected at concentrations statistically above background are shaded in header.
Metal concentrations above background and human health soil screening levels (HH SSLs) are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
(dup) = Duplicate sample
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between reporting limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference.

Data Validation Qualifiers:
J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 5-31 Summary of Metals Analysis of Soil Samples
Site C15
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	pH	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Hexavalent Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Sodium	Thallium	Titanium	Vanadium	Zinc
HH SSL:			**(1)**	**7,614**	**3.1**	**0.06**	**537**	**15.4**	**1,600**	**1.7**	**NE**	**211**	**17**	**660**	**313**	**2,346**	**15**	**NE**	**176**	**2.4**	**39.1**	**156**	**380**	**380**	**NE**	**0.52**	**100,000**	**5.3**	**2,346**
C15-SS01	0.5	1999	NA	30,500	<1.2	**10.3**	277	**0.84**	<46.4	<0.58	3450	83.9	NA	**33.8**	**62.1**	45,300	**26.9**	8,510	**1,260**	0.063	<4.6	63.9	<0.58	<0.58	<1,160	0.29	1,150	111	**249**
C15-SS02	0.5	1999	NA	30,100	<1.2	**10.8**	285	**0.88**	<49.3	<0.62	3280	82.2	NA	**37.5**	**58.8**	45,700	**26.7**	7,580	**1,590**	0.072	<4.9	62.9	<0.62	<0.62	<1,230	0.28	1,080	113	**232**
C15-SS03	0.5	1999	NA	29,100	<1.2	**9.9**	239	**0.82**	<46.5	<0.58	3180	74	NA	**30**	**54.2**	42,100	**20.4**	6,890	**1,170**	0.068	<4.7	59.5	<0.58	<0.58	<1,160	0.23	1,000	102	**225**
C15-SS03 (dup)	0.5	1999	NA	30,300	<1.2	**9.6**	237	**0.80**	<23.1	<0.58	3450	71.1	NA	**30.3**	**53.6**	42,600	**19**	7,350	**1,150**	0.065	<4.6	57.1	<0.58	<0.58	<578	<0.23	1,160	99.4	**237**
C15-SS04	0.5	1999	NA	28,600	<1.2	**9.3**	218	**0.76**	<47.4	<0.59	3530	74.1	NA	**27.1**	**51.7**	43,600	**14.8**	6,750	**1,030**	0.05	<4.7	59.9	<0.59	<0.59	<1,190	<0.24	943	96.7	**358**
C15-SS05	0.5	07/15/03	NA	25,000	<0.46 UJ	5.9 J	250 J	**0.76**	<9.3	**1.1**	3,900	100 J	<1.0 r UJ	18	**62**	38,000	**41**	6,100	770	0.077 J	<1.9	51 J	0.072 j J	<0.65 UJ	220	<0.19	980	88	**240 J**
C15-SS06	0.5	07/15/03	NA	26,000	0.66 J	6.0 J	270 J	**0.89**	<8.6	**0.67 j**	2,800	**880 J**	<0.21 UJ	13	**240**	40,000	**39**	6,100	450	0.062 J	2.4	53 J	0.49 j	<0.60 UJ	190	0.18	960	100	**270 J**
C15-SS07	0.5	07/15/03	NA	29,000	0.43 J	**7.5 J**	250 J	**0.92**	<8.6	**0.32 j**	3,300	81 J	<0.21 UJ	24	**58**	41,000	**20**	6,800	**1,000**	0.079 J	<1.7	60 J	0.3 j J	<0.60 UJ	180	0.20	970	110	**82 J**
C15-SS08	0.5	07/15/03	NA	32,000	0.46 J	**6.5 J**	230 J	**0.99**	<7.9	**0.72 j**	3,500	78 J	<0.21 UJ	24	**57**	46,000	**26**	6,700	**990**	0.088 J	1.6	57 J	0.14 j J	<0.56	180	<0.16	950	110	**97 J**
C15-SS09	0.0	11/18/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C15-SS10	0.0	11/18/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	45 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C15-SS11	0.0	11/18/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	45 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C15-SS12	0.0	01/05/06	6.23	15,000	<10 UJ	6.2	150 J	**0.72**	6.9	0.19 j	2,400	54	<0.20	17	41	29,000	**13**	4,100	630	**0.12**	0.41 j J	31	0.36 j J	<1.0	45 j	0.13 j	560	95 J	44
C15-SS13	0.0	01/05/06	6.32	12,000	<10 UJ	**6.9**	150 J	**0.74**	8.3	**0.24 j**	2,400	50	0.058 j	14	37	28,000	**21**	3,900	570	**0.14**	0.41 j J	21	0.29 j J	<1.0	39 j	0.14 j	650	98 J	54
C15-SS14	0.0	01/05/06	6.71	13,000	0.88 j J	**7.4**	150 J	**0.77**	9.8	0.17 j	2,100	54	0.069 j	15	40	30,000	**13**	4,000	580	0.090	0.47 j J	26	0.30 j J	<1.0	50	0.21 j	650	110 J	43
C15-SS15	0.0	01/05/06	6.36	16,000	0.97 j J	**7.7**	160 J	**0.79**	8.7	**0.61**	2,500	58	<0.20	20	**44**	31,000	**35**	4,000	740	**0.15**	0.52 j J	33	0.53 j J	<1.0	59	0.15 j	660	100 J	**93**
C15-SS16	0.0	01/05/06	6.19	14,000	0.87 j J	**7.0**	160 J	**0.79**	8.0	**0.31 j**	2,800	52	<0.20	18	**52**	33,000	**18**	4,300	710	**0.11**	0.37 j J	31	0.37 j J	<1.0	48 j	0.14 j	590	98 J	**68**
C15-SS17	0.0	01/05/06	6.22	20,000	1.6 j J	**6.7**	200 J	**0.80 j**	9.0 j	0.12 j	2,100	74	<0.20	19	**46**	35,000	11	6,100	570	**0.093**	<4.0 UJ	37	0.32 j J	<2.0	46 j	0.20 j	890	110 J	47
C15-SS17 (dup)	0.0	01/05/06	6.32	14,000	0.90 j J	6.0	160 J	0.70	6.9	**0.23 j**	2,300	55	<0.20	18	39	27,000	**13**	4,900	700	**0.093**	0.34 j J	29	0.26 j J	<1.0	45 j	0.16 j	680	98 J	47
C15-SS18	0.0	01/05/06	6.27	16,000	0.87 j J	**6.7**	140 J	**0.73**	7.8	**0.36 j**	2,200	55	<0.20	20	41	29,000	**14**	4,400	790	**0.14**	0.36 j J	32	0.41 j J	<1.0	52	0.15 j	660	99	50 J
C15-SS19	0.0	01/05/06	7.19	12,000	<10 UJ	**6.4**	180 J	0.63	6.0	**0.22 j**	2,600	48	<0.20	19	36	23,000	**15**	4,100	800	0.081	0.30 j J	33	0.29 j J	<1.0	45 j	0.13 j	550	82 J	47
C15-SS20	0.0	01/05/06	6.35	12,000	<10 UJ	**6.4**	140 J	0.61	5.9	**0.30 j**	2,400	46	<0.20	16	41	24,000	**23**	4,100	610	0.079	0.37 j J	25	0.44 j J	<1.0	50	0.13 j	540	80 J	61
C15-SS21	0.0	01/05/06	6.54	15,000	<10 UJ	6.1	170 J	0.69	6.7	0.15 j	2,600	53	<0.20	20	41	27,000	12	5,500	770	0.058	0.36 j J	33	0.2 j J	<1.0	65	0.15 j	630	86	50 J
C15-SS22	0.0	01/05/06	6.43	14,000	<10 UJ	**7.1**	170 J	**0.74**	9.0	**0.22 j**	2,400	56	<0.20	17	39	31,000	**15**	4,300	790	**0.095**	0.46 j J	32	0.39 j J	<1.0	47 j	0.16 j	630	94 J	46
C15-SS22 (dup)	0.0	01/05/06	6.43	14,000	<10 UJ	**7.2**	170 J	**0.70**	8.0	0.18 j	2,300	58	0.022 j	19	**42**	27,000	**15**	4,500	700	**0.092**	0.40 j J	31	0.21 j J	<1.0	57	0.15 j	690	94 J	49
C15-SS23	0.0	01/05/06	6.82	15,000	1.1 j J	**7.9**	170 J	**0.79**	7.5	0.19 j	2,200	56	<0.20	20	39	29,000	**14**	4,300	960	0.078	0.38 j J	36	0.34 j J	<1.0	46 j	0.14 j	630	99	44 J
C15-SS24	0.0	01/05/06	6.65	14,000	<10 UJ	**6.4**	190 J	0.64	7.0	0.18 j	2,500	52	<0.20	21	40	24,000	**13**	5,600	890	0.048	0.30 j J	40	0.34 j J	<1.0	60	0.16 j	690	80 J	61
C15-SS25	0.0	01/05/06	6.33	15,000	1.3 j J	6.1	200 J	0.61	8.0	**0.27 j**	2,200	60	0.079 j	23	**46**	26,000	**14**	6,200	920	0.049	0.49 j J	36	0.26 j J	<1.0	72	0.18 j	790	85 J	**120**
C15-SS26	0.0	01/05/06	6.67	13,000	<10 UJ	5.9	160 J	0.52	7.2	0.18 j	2,300	44	<0.20	18	39	22,000	**15**	4,600	830	0.062	0.47 j J	31	0.25 j J	<1.0	58	0.14 j	650	69	52 J

Notes and Key:
(1) = pH less than 5 or greater than 9
Concentrations reported in milligrams per kilogram (mg/kg).
Metal detected at concentrations statistically above background are shaded in header.
Metal concentrations above background and human health soil screening levels (HH SSLs) are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
(dup) = Duplicate sample
NA = Not analyzed
NE = Not established
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between reporting limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference.

Data Validation Qualifiers:
J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 5-32 *Summary of Metals Analysis of Soil Samples*
Site C4
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Titanium	Vanadium	Zinc
HH SSL:			**7,614**	**3.1**	**0.06**	**537**	**15.4**	**1,600**	**1.7**	**211**	**17**	**660**	**313**	**15**	**176**	**2.4**	**39.1**	**156**	**380**	**380**	**0.52**	**100,000**	**5.3**	**2,346**
C4-SNS01	0.5	7/16/2003	13,000	<0.47	3.9	110	0.32	<9.4	**2.7**	52	**1.1**	9.8	40	**160**	420	0.021	<1.9	52	<0.94	<0.66	<0.19	920	54	**96**
C4-SNS02	0.5	7/16/2003	10,000	1.7	**9.4**	170	0.28	<8.2	**4.9**	46	<0.21	8.4	**100**	**530**	760	0.043	3.0	37	<0.82	<0.57	<0.16	570	41	**1,000**
C4-SNS02	2.0	11/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**58**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-SNS02 (dup)	2.0	11/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-SNS03	0.5	8/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**110**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-SNS04	0.5	8/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-SNS05	0.5	8/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**94**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-SNS06	0.5	8/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**20**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-SNS07	0.5	8/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**320**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-SNS07	2.0	11/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-SNS08	0.0	11/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**15**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-SNS09	0.0	11/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**16**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-SNS10	0.0	11/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes and Key:
Concentrations reported in milligrams per kilogram (mg/kg).
Metal detected at concentrations statistically above background are shaded in header.
Metal concentrations above background and human health soil screening levels (HH SSLs) are shaded.
< = Less than; not detected above the noted Practical Quanitation Limit.
bgs = Below ground surface
(dup) = Duplicate sample
NA = Not analyzed
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between reporting limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference.

Validation Qualifiers:
J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 5-33 Results of Dioxin and Furan Analysis of Soil Samples
Site C4
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (ft bgs)	Sample Date	TEQ	2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8-HpCDD	OCDD	2,3,7,8-TCDF
C4-SNS01	0	7/16/2003	1.01	<0.182	<0.654	**0.602 J**	**1.71 J**	**1.07 J**	**29.5**	**201 B**	<0.215
C4-SNS02	0	7/16/2003	6.34	<0.35	**1.02 J**	**1.22 J**	**2.72**	**1.99 J**	**46.6**	**175 B**	**2.3 F**
C4-SNS03	0	8/20/2003	0.163	<0.114	<0.215	<0.288	<0.560	<0.509	**9.71**	**82.1**	<0.104
C4-SNS04	0	8/20/2003	0.0638	<0.139	<0.205	<0.375	<0.413	<0.374	**3.60**	**23.3**	<0.127
C4-SNS05	0	8/20/2003	0.248	<0.149	<0.265	<0.287	**0.646 J**	<0.356	**10.8**	**58.9**	<0.165
C4-SNS06	0	8/20/2003	0.49	<0.154	<0.359	<0.377	**0.893 J**	**0.641 J**	**17.4**	**142**	<0.165

Sample Identification	Sample Depth (ft bgs)	Sample Date	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF
C4-SNS01	0	7/16/2003	<0.304	<0.485	**0.467 J**	**0.674 J**	**1.11 J**	<0.181	**8.55**	<0.384	**24**
C4-SNS02	0	7/16/2003	**3.59**	**4.67**	**5.12**	**5.66**	**6.47**	**2.18 J**	**42.1**	**7.56**	**103**
C4-SNS03	0	8/20/2003	<0.201	<0.213	<0.119	<0.157	<0.163	<0.101	**3.80**	<0.330	**10.9**
C4-SNS04	0	8/20/2003	<0.241	<0.252	<0.096	<0.126	<0.142	<0.173	**1.94 J**	<0.154	**4.69 J**
C4-SNS05	0	8/20/2003	<0.391	<0.394	<0.201 *	<0.255 *	**0.447 J**	<0.122	**1.24 J**	<0.0991	**1.33 J**
C4-SNS06	0	8/20/2003	<0.254	<0.356	<0.162	<0.180	**0.558 J**	<0.263	**5.89**	<0.213	**18.9**

Sample Identification	Sample Depth (ft bgs)	Sample Date	Total Tetra-Dioxins	Total Penta-Dioxins	Total Hexa-Dioxins	Total Hepta-Dioxins	Total Tetra-Furans	Total Penta-Furans	Total Hexa-Furans	Total Hepta-Furans
C4-SNS01	0	7/16/2003	<0.314	<0.772	**12.8**	**56.1**	**7.93**	**20**	**15.5**	**21.1**
C4-SNS02	0	7/16/2003	**4.44**	**13.4**	**28.6**	**83.9**	**55.7**	**59.3**	**58.1**	**70.7**
C4-SNS03	0	8/20/2003	<0.139	<0.549	**2.13 J**	**18.3**	<0.118	**0.407 J**	**2.69**	**10.3**
C4-SNS04	0	8/20/2003	<0.139	<0.589	<0.594	**6.83**	<0.127	<0.405	**0.855 J**	**4.61**
C4-SNS05	0	8/20/2003	<0.149	<0.614	**3.38**	**18.6**	**1.13**	**2.22 J**	**4.40 J,***	**2.44 J**
C4-SNS06	0	8/20/2003	<0.154	<0.828	**5.70**	**35.7**	**1.75**	**4.22**	**6.87**	**16.1**

Notes and Key:
Concentrations reported in picograms per gram (pg/g).
Detected concentrations are in bold.
< = Less than; not detected above the noted Practical Quanitation Limit.
B = Analyte is present in method blank
F = Analyte confirmation on secondary column
ID = Identification
J = Analyte concentration below calibration range.
* = Result taken from dilution or reinjection.
TEQ = Toxic equivalent quotient
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Compound Abbreviations:
TCDD = Tetrachlorodibezodioxin
PeCDD = Pentachlorodibenzodioxin
HxCDD = Hexachlorodibenzodioxin
HpCDD = Heptachlorodibenzodioxin
OCDD = Octachlorodibenzodioxin
TCDF = Tetrachlorodibenzofuran
PeCDF = Pentachlorodibenzofuran
HxCDF = Hexachlorodibenzofuran
HpCDF = Heptachlorodibenzofuran
OCDF = Octachlorodibenzofuran

Table 5-34 Summary of Volatile Organic Compound (VOC) Analysis of Area 49 Unconfined Groundwater Samples RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California

Sample Identification	Sample Date	1,1,1-TCA	1,1-DCA	1,2-DCE (cis/trans)	CF	Freon 113	PCE	TCE
4485	7/31/2003	**2.0**	**0.84**	**23**	**1.2**	<0.50	**40**	**130**
4495	8/1/2003	**6.1**	<0.50	**180**	<0.50	<0.50	**8.3**	**350 e**
4495	8/1/2003	**7.5**	<2.5	**210**	<2.5	<2.5	**7.5**	**450**

Notes and Key:
Concentrations reported in micrograms per liter (µg/L).
< = Less than; not detected above the noted Practical Quanitation Limit.
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
CF = Chloroform
DCA = Dichloroethane
DCE = Dichloroethene
PCE = Tetrachloroethene
TCA = Trichloroethane
TCE = Trichloroethylene

Laboratory Qualifiers:
e = Analyte exceeds calibration range.

Table 5-35 Semivolatile Organic Compounds Analysis of Area 49 Unconfined Groundwater Samples
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Date	1,4-DIOX	1-Methyl-2-Pyrroli-dinone	N-NSM	ANI	Phen	2-CP	B(2-CE)E	1,3-DCB	1,4-DCB	BenAlc	1,2-DCB	2-MP	B(2-CIP)E	4-MP	HCE	N-N-P	ISO	NC2BZ	2-NP	2,4-DMP	2,4-DCP	b(2-CEO)M	Ben Acid	1,2,4-TCB
4485	7/31/2003	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<100 j	<50 j
4495	8/1/2003	<10 j	<10 j	<10	<10	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<20 j	<10 j

Sample Identification	Sample Date	NAP	4-CA	HCBU	p-Chloro m-cresol	2-MN	HCCP	2,4,6-TCP	2,4,5-TCP	2-CN	2-NA	ACNL	DMP	2,6-DNT	3-NA	ACNE	2,4-DNP	DBF	4-NP	2,4-DNT	FLOR	DEP	4-CPPE	4-NA	N-Butyl-benzene-sulfonamide
4485	7/31/2003	<50 j	<100 j	<100 j	<100 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<100 j	<50 j	<250 j	<50 j	<100 j	<50 j	<50 j	<50 j	<50 j	<100 j	<50 j
4495	8/1/2003	<10 j	<20	<20 j	<20 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10	<10 j	<10 j	<10	<20	<10 j	<50 j	<10 j	<20 j	<10	<10 j	<10 j	<10 j	<20	<10 j

Sample Identification	Sample Date	4,6-D-2-MP	N-NSP	1,2-DPHZ/AZO	4-BPE	HCB	PCP	PA	ANT	DNBP	FA	BENZ	PYR	BBP	CHRY	3,3'-DCB	B(a)A	B(2-EH)P	DNOP	B(b)F	B(k)F	B(a)P	I(123cd)P	D(ah)A	B(ghi)P
4485	7/31/2003	<100 j	<50 j	<50 j	<50 j	<50 j	<100 j	<50 j	<50 j	<50 j	<50 j	<100 j	<50 j	<50 j	<50 j	<50 j	<50 j	<100 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j	<50 j
4495	8/1/2003	<20 j	<10	<10 j	<10 j	<10 j	<20 j	<10 j	<10 j	<10 j	<10 j	<20	<10 j	<10 j	<10 j	<10	<10 j	<20 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j

Notes and Key:
Concentrations reported in micrograms per liter (µg/L).
NA = Not analyzed
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
< = Less than; not detected above the noted Practical Quanitation Limit.

Laboratory Qualifier:
j = Estimated concentration.

Semivolatile Organic Compounds

Abbreviation	Compound	Abbreviation	Compound	Abbreviation	Compound	Abbreviation	Compound
1,2,4-TCB	1,2,4-Trichlorobenzene	2-NP	2-Nitrophenol	B(b)F	Benzo(b)fluoranthene	FA	Fluoranthene
1,2-DCB	1,2-Dichlorobenzene	3,3-DCB	3,3'-Dichlorobenzidine	B(ghi)P	Benzo(ghi)perylene	FLOR	Fluorene
1,2-DPHZ/AZO	1,2-Diphenylhydrazine/Azobenzene	3-NA	3-Nitroaniline	B(k)F	Benzo(k)fluoranthene	HCB	Hexachlorobenzene
1,3-DCB	1,3-Dichlorobenzene	4,6-D-2-MP	4,6-Dinitro-2-methylphenol	BenAcid	Benzoic acid	HCBU	Hexachlorobutadiene
1,4-DCB	1,4-Dichlorobenzene	4-BPE	4-Bromophenyl phenyl ether	BenAlc	Benzyl alcohol	HCCP	Hexachlorocyclopentadiene
1,4-DIOX	1,4-Dioxane	4-CA	4-Chloroaniline	b(2-CEO)M	Bis(2-chloroethoxy)methane	HCE	Hexachloroethane
2,4,5-TCP	2,4,5-Trichlorophenol	4-CPPE	4-Chlorophenyl phenyl ether	B(2-CE)E	Bis(2-chloroethyl)ether	I(123cd)P	Indeno(1,2,3-cd)pyrene
2,4,6-TCP	2,4,6-Trichlorophenol	4-MP	4-Methylphenol	B(2-CIP)E	Bis(2-chloroisopropyl)ether	ISO	Isophorone
2,4-DCP	2,4-Dichlorophenol	4-NA	4-Nitroaniline	B(2-EH)P	Bis(2-ethylhexyl)phthalate (BEHP)	NAP	Naphthalene
2,4-DMP	2,4-Dimethylphenol	4-NP	4-Nitrophenol	BBP	Butyl benzyl phthalate	NO2BZ	Nitrobenzene
2,4-DNP	2,4-Dinitrophenol	ACNE	Acenaphthene	CHRY	Chrysene	N-NSM	N-Nitrosodimethylamine
2,4-DNT	2,4-Dinitrotoluene	ACNL	Acenaphthylene	D(ah)A	Dibenzo(a,h)anthracene	N-NSP	N-Nitrosodiphenylamine
2,6-DNT	2,6-Dinitrotoluene	ANI	Aniline	DBF	Dibenzofuran	N-N-P	N-Nitrosodi-n-propylamine
2-CN	2-Chloronaphthalene	ANT	Anthracene	DEP	Diethyl phthalate	PCP	Pentachlorophenol
2-CP	2-Chlorophenol	BENZ	Benzidine	DMP	Dimethyl phthalate	PA	Phenanthrene
2-MN	2-Methylnaphthalene	B(a)A	Benzo(a)anthracene	DNBP	Di-n-butyl phthalate	Phen	Phenol
2-MP	2-Methylphenol	B(a)P	Benzo(a)pyrene	DNOP	Di-n-octyl phthalate	PYR	Pyrene
2-NA	2-Nitroaniline						

Table 6-1 *Summary of Geotechnical Data Used in VLEACH Modeling*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample ID	Sample Date	Depth (feet bgs)	Moisture Content (%)	Volumetric Water Content (vol/vol)	Volumetric Air Content (vol/vol)	Median Grain Size: Dry (mm)	TOC: WALKLEY-BLACK (mg/kg)	Fraction Organic Content	Specific Gravity	Dry Bulk Density (g/cc)	Porosity* (vol/vol)
D7-SS01-05M	9/14/05	5	9.8	0.18	0.17	0.655	1900	0.0019	2.73	1.79	0.34
D7-SS02-10M	9/14/05	10	11.4	0.23	0.02	9.981	1600	0.0016	2.73	2.05	0.25
D7-SS04-41.5M	9/15/05	41.5	24.6	0.33	0.16	0.198	1700	0.0017	2.61	1.34	0.49
D3-SS01-20	9/16/05	20	7.4	0.13	0.22	12.768	2250	0.00225	2.76	1.80	0.35
D3-SS03-40	9/16/05	40	25.8	0.27	0.32	0.120	1700	0.0017	2.51	1.04	0.59
D3-SS04-50	9/16/05	50	24.8	0.35	0.06	0.257	1950	0.00195	2.35	1.40	0.40
D3-SS05-70	9/16/05	70	10.7	0.16	0.17	0.311	1400	0.0014	2.21	1.48	0.33
D4-SSO1-18.5M	9/20/05	18.5	18.2	0.20	0.39	0.428	220	0.00022	2.70	1.10	0.59
D4-SSO2-42M	9/20/05	42	37.6	0.38	0.21	0.162	300	0.0003	2.44	1.01	0.59
D2-SSO1-9.8M	9/23/05	9.8	9.0	0.13	0.36	0.052	930	0.00093	2.75	1.42	0.48
D1-SS02-40M	9/29/05	40	25.8	0.33	0.13	0.253	690	0.00069	2.44	1.30	0.47
D6-SS01-20M	9/30/05	20	10.5	0.20	0.11	0.516	770	0.00077	2.78	1.92	0.31
95% Upper Confidence Limit (UCL):			**---**	**0.287**	**---**	**---**	**---**	**0.0016**	**---**	**1.65**	**0.49**

Notes and Key:

* Porosity was calculated based on laboratory data for bulk density and specific gravity shown in the table, using the following equation:
95% Upper Confidence Limits by Students-t UCL for all components.

p = 1.0 - (bulk/spec)
where:
p = Porosity
bulk = Dry Bulk Density
spec = Specific Density (particle density)

% = Percent
bgs = Below ground surface
g/cc = Grams per cubic centimeter
mg/kg = Milligrams per kilogram
mm = Millimeter
RI/FS = Remedial Investigation/Feasibility Study
TOC = Total organic content
Vol/vol = Volume per volume

Table 6-2 Conversion of VLEACH Soil Screening Levels (mg/kg) to Soil Vapor Screening Levels (µg/L) for Migration to Groundwater Pathway Evaluation
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Site Specific Soil Properties:

Bulk Density (a)	1.65	g/cm^3
Porosity	0.49	Unitless
Volumetric Water Content (b)	0.29	Unitless
Volumetric Air Content (c)	0.21	Unitless
Fraction Organic Content (Foc)	0.0016	part of a unit

Chemical	Depth (ft bgs)	Organic Carbon Water Coefficient (cm^3/g) Koc	Soil/Water Distribution Coefficient (cm^3/g) Kd	Henry's Law Constant (Dimensionless) H	Vleach Soil Concentraion (mg/kg)	Total Volative Organic Concentration (mg/cm^3) Ct	Estimated Vapor Concentration (mg/cm^3) Cg	Estimated Vapor Concentration (µg/L)
1,1,1-Trichloroethane	10	110	0.180	0.55	0.2473	4.09E-04	5.46E-04	**546**
	15	110	0.180	0.55	0.2276	3.76E-04	5.02E-04	**502**
	20	110	0.180	0.55	0.2064	3.41E-04	4.55E-04	**455**
	30	110	0.180	0.55	0.1528	2.52E-04	3.37E-04	**337**
Benzene	10	59	0.097	0.17	0.000123	2.03E-07	1.77E-07	**0.18**
	15	59	0.097	0.17	0.000112	1.85E-07	1.61E-07	**0.16**
	20	59	0.097	0.17	0.000101	1.67E-07	1.45E-07	**0.15**
	30	59	0.097	0.17	0.0000785	1.30E-07	1.13E-07	**0.11**
Freon 113	10	160	0.262	16	2.5058	4.14E-03	1.77E-02	**17,684**
	15	160	0.262	16	2.304	3.81E-03	1.63E-02	**16,259**
	20	160	0.262	16	2.0707	3.42E-03	1.46E-02	**14,613**
	30	160	0.262	16	1.5157	2.50E-03	1.07E-02	**10,696**
Tetrachloroethene	10	160	0.262	0.55	0.00098	1.62E-06	1.63E-06	**1.63**
	15	160	0.262	0.55	0.0009	1.49E-06	1.49E-06	**1.49**
	20	160	0.262	0.55	0.00081	1.34E-06	1.34E-06	**1.34**
	30	160	0.262	0.55	0.00059	9.75E-07	9.79E-07	**0.98**
Trichloroethene	10	170	0.279	0.32	0.00289	4.77E-06	2.90E-06	**2.90**
	15	170	0.279	0.32	0.00264	4.36E-06	2.65E-06	**2.65**
	20	170	0.279	0.32	0.0024	3.96E-06	2.41E-06	**2.41**
	30	170	0.279	0.32	0.00177	2.92E-06	1.78E-06	**1.78**
Vinyl Chloride	10	19	0.031	0.95	0.000025	4.13E-08	1.58E-07	**0.16**
	15	19	0.031	0.95	0.000023	3.80E-08	1.45E-07	**0.15**
	20	19	0.031	0.95	0.00002	3.30E-08	1.27E-07	**0.13**
	30	19	0.031	0.95	0.000016	2.64E-08	1.01E-07	**0.10**

Notes and Key:
µg/L = Micrograms per liter
cm^3/g = Cubic meters per gram
g/cm^3 = Grams per cubic meters
Foc = Fraction organic carbon content
Koc = Organic carbon-water partition coefficient
RI/FS = Remedial investigation/feasibility study

Equations:
Cg=Ct/((a*Kd/H) + c)
where,
Cg = Vapor concentration of volatile organic compound in gas phase
Ct = average soil concentration x bulk density
Kd= Koc x Foc
a = Bulk density (kg/L)
b = Volumetric water content within soil volume (dimensionless)
c = Volumetric air content within soil volume (dimensionless)
Kd = Distribution coefficient (L/kg)
H = Henry's Law Constant (dimensionless)

Table 6-3 *Comparison of VOC Soil Vapor Concentrations to VLEACH Screening Levels for Migration to Groundwater Pathway - Sites in Areas 20 and 21*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	1,1,1-Trichloroethane (1,1,1-TCA)	Benzene	Freon 113	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Vinyl Chloride
	10	**546**	**0.18**	**17,684**	**1.63**	**2.90**	**0.16**
VLEACH SVSL	**15**	**502**	**0.16**	**16,259**	**1.49**	**2.65**	**0.15**
	20	**455**	**0.15**	**14,613**	**1.34**	**2.41**	**0.13**
4D-SP23	5.0	<0.024	<0.014	<0.033	<0.029	<0.023	<0.011
4D-SP23	10.0	<0.030	**0.033**	**0.27**	<0.038	<0.030	<0.014
7D-SP12	10.0	<0.048	<0.028	**14**	**1.1**	**0.22**	<0.022
7D-SP13	**10.0**	**0.027**	**0.034**	**2.6**	**1.7**	**0.29**	<0.011
7D-SP14	10.0	**0.028**	<0.014	**0.12**	**0.79**	**0.07**	<0.011
7D-SP15	**10.0**	**0.038**	<0.014	**0.61**	**2.1**	**0.17**	<0.011
10D-SP30	10.0	<0.023	<0.014	<0.032	<0.029	<0.023	<0.011
10D-SP30 (dup)	10.0	<0.024	<0.014	<0.034	<0.030	<0.024	<0.011
10D-SP31	10.0	<0.023	<0.014	<0.032	<0.029	<0.023	<0.011
10D-SP32	10.0	<0.023	<0.014	<0.032	<0.029	<0.023	<0.011
10D-SP33	10.0	<0.023	<0.014	<0.032	<0.029	<0.023	<0.011
10D-SP34	5.0	<0.023	<0.013	<0.032	<0.028	<0.022	<0.011
10D-SP34	10.0	<0.023	<0.014	**0.15**	<0.029	<0.023	<0.011
11D-SP18	10.0	<0.024	<0.014	<0.033	<0.029	<0.023	<0.011
11D-SP19	10.0	<0.025	<0.014	**0.19**	<0.031	<0.024	<0.012
11D-SP20	10.0	<0.023	<0.014	**0.059**	<0.029	<0.023	<0.011
11D-SP21	10.0	<0.024	<0.014	<0.033	<0.029	<0.023	<0.011
11D-SP22	10.0	<0.024	<0.014	<0.033	<0.029	<0.023	<0.011
11D-SP23	5.0	<0.022	<0.013	<0.031	<0.028	<0.022	<0.010
11D-SP23 (rep)	5.0	<0.022	<0.013	<0.031	<0.028	<0.022	<0.010
11D-SP24	10.0	<0.023	<0.014	<0.032	<0.029	<0.023	<0.011
11D-SP25	5.0	<0.023	<0.013	<0.032	<0.028	<0.022	<0.011
11D-SP25	10.0	<0.024	<0.014	<0.034	**0.069**	<0.024	<0.011
11D-SP25 (dup)	10.0	<0.024	<0.014	<0.034	**0.067**	<0.024	<0.011
FCS-SP01	10.0	<0.023	**0.016**	**8.2**	**1.4**	<0.023	<0.011
FCS-SP01	**20.0**	**0.024**	**0.019**	**9.2**	**1.5**	<0.023	<0.011
FCS-SP02	10.0	<0.046	<0.027	**25**	**0.66**	**0.092**	<0.022
FCS-SP03	10.0	<0.024	<0.014	**7.4**	**0.040**	<0.024	<0.011
FCS-SP03	20.0	<0.15	<0.086	**68**	**0.44**	<0.14	<0.069
FCS-SP04	**10.0**	<0.046	<0.027	**14**	**2.4**	**0.072**	<0.022
FCS-SP04	20.0	<0.024	**0.043**	**0.21**	<0.029	<0.023	<0.011
FCS-SP05	**10.0**	<0.045	<0.027	**23**	**2.0**	**0.19**	<0.021
FCS-SP05	20.0	**0.048**	<0.028	**20**	**0.13**	**0.05**	<0.022
FCS-SP05 (rep)	20.0	<0.047	<0.028	**18**	**0.11**	<0.046	<0.022
FCS-SP05 (dup)	20.0	**0.058 j**	<0.034	**26**	**0.19**	**0.068**	<0.028
FCS-SP06	10.0	<0.45	<0.27	**200**	**1.5**	<0.45	<0.213
FCS-SP06 (rep)	10.0	<0.45	<0.27	**200**	**1.5**	<0.45	<0.213
FCS-SP06	**20.0**	**0.058**	<0.034	**26**	**2.5**	**0.20**	<0.027
FCS-SP07	**5.0**	<0.058	<0.034	**28**	**3.3**	**0.30**	<0.027
FCS-SP07 (dup)	**5.0**	<0.12	<0.068	**38**	**4.1**	**0.34**	<0.054
FCS-SP07	10.0	<0.047	<0.028	**18**	**1.0**	**0.12**	<0.022
FCS-SP07	20.0	<0.048	**0.032**	**15**	**1.1**	**0.12**	<0.022
FCS-SP08	10.0	<0.058	<0.034	**30**	**1.1**	<0.057	<0.026
FCS-SP08	20.0	<0.058	<0.034	**26**	**1.4**	<0.057	<0.026
FCS-SP09	**10.0**	<0.12	<0.068	**50**	**3.3**	<0.11	<0.055
FCS-SP09	20.0	<0.024	**0.017**	**8.4**	**0.32**	<0.023	<0.011
FCS-SP10	5.0	<0.12	<0.068	**26**	**1.7**	<0.11	<0.054
FCS-SP10	10.0	<0.056	<0.033	**18**	**1.0**	<0.055	<0.026
FCS-SP10	**10.0**	<0.23	<0.13	**100**	**7.6**	<0.22	<0.11
FCS-SP10 (dup)	**10.0**	<0.23	<0.14	**100**	**7.4**	<0.23	<0.11
FCS-SP10	**20.0**	<0.23	<0.14	**110**	**5.6**	<0.23	<0.11
FCS-SP10 (rep)	**20.0**	<0.23	<0.14	**120**	**5.8**	<0.23	<0.11
FCS-SP10 (dup)	**20.0**	<0.23	<0.14	**110**	**5.4**	<0.23	<0.109
FCS-SP11	10.0	<0.024	<0.014	**1.3**	**0.56**	<0.023	<0.011
FCS-SP11	20.0	<0.024	<0.014	**1.6**	**0.84**	<0.023	<0.011
FCS-SP12	10.0	<0.023	<0.014	**5.5**	**0.48**	<0.023	<0.011
FCS-SP12	20.0	<0.023	**0.018**	**2.0**	**0.39**	<0.022	<0.011
FCS-SP13	10.0	<0.024	<0.014	**1.0**	**0.70**	<0.023	<0.011
FCS-SP13	20.0	<0.024	**0.014 j**	**1.4**	**0.66**	<0.023	<0.011
FCS-SP14	**10.0**	<0.047	<0.028	**22**	**2.2**	<0.046	<0.022
FCS-SP14 (rep)	**10.0**	<0.047	<0.028	**21**	**2.1**	<0.046	<0.022
FCS-SP15	10.0	<0.023	<0.014	**0.038**	**0.062**	**0.05**	<0.011
FCS-SP15	20.0	<0.023	**0.018**	<0.032	<0.029	<0.023	<0.011

Table 6-3 *Comparison of VOC Soil Vapor Concentrations to VLEACH Screening Levels for Migration to Groundwater Pathway - Sites in Areas 20 and 21*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	1,1,1-Trichloroethane (1,1,1-TCA)	Benzene	Freon 113	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Vinyl Chloride
	10	**546**	**0.18**	**17,684**	**1.63**	**2.90**	**0.16**
VLEACH SVSL	**15**	**502**	**0.16**	**16,259**	**1.49**	**2.65**	**0.15**
	20	**455**	**0.15**	**14,613**	**1.34**	**2.41**	**0.13**
FCS-SP16	5.0	<0.024	**0.015**	**1.8**	**0.62**	<0.023	<0.011
FCS-SP16 (rep)	5.0	<0.024	**0.015**	**1.8**	**0.63**	<0.023	<0.011
FCS-SP16	10.0	<0.023	<0.013	**2.4**	**1.1**	<0.022	<0.011
FCS-SP16	20.0	<0.023	<0.013	**5.8**	**1.2**	**0.046**	<0.011
FCS-SP17	10.0	<0.024	<0.014	**3.7**	**0.83**	**0.036**	<0.011
FCS-SP17	20.0	<0.023	<0.014	**3.6**	**0.92**	**0.026**	<0.011
FCS-SVE1	NA	<0.14	<0.085	**67**	**1.1**	<0.14	<0.068
FCS-SVE2	NA	<0.076	<0.044	**35**	**0.36**	<0.074	<0.035
GET D-SV02	10.0	<0.0066	**0.007**	<0.0093	<0.0082	<0.0065	<0.0031
GET D-SV03	10.0	<0.0064	**0.0062**	<0.0089	<0.0079	<0.0063	<0.0030
GET D-SV04	10.0	<0.0066	**0.0068**	**0.0094**	**0.023**	<0.0066	<0.0031
GET D-SV04 (dup)	10.0	<0.0066	**0.0068**	<0.0094	**0.024**	<0.0066	<0.0031
C29-SV01*	5.0	<0.093	**0.067**	<0.13	<0.12	<0.091	<0.043
C29-SV02*	4.0	<0.088	<0.052	<0.125	<0.11	<0.087	<0.042
D(e) - C32-SV01*	5.0	<0.719	<0.422	<1.013	<0.896	<0.708	<0.34
D(e) - C32-SV01 (dup)*	5.0	<0.719	<0.422	<1.013	<0.896	<0.708	<0.34
C32-SV02*	10.0	<0.088	**0.065**	<0.125	<0.11	<0.087	<0.042
C32-SV02	20.0	<0.046	**0.036**	<0.065	<0.058	<0.046	<0.022
C32-SV02 (dup)	20.0	<0.050	<0.029	<0.070	<0.062	<0.049	<0.023
C32-SV03	10.0	<0.025	**0.038**	<0.035	<0.031	<0.024	<0.012
C32-SV04	10.0	<0.023	<0.013	<0.032	<0.028	<0.022	<0.011
C32-SV05	10.0	<0.025	**0.016**	<0.035	<0.031	<0.024	<0.012
C41-SV01	4.0	<0.088	<0.052	<0.125	<0.110	<0.087	<0.042
C41-SV02	3.6	<0.088	<0.052	<0.125	<0.110	<0.087	<0.042
C41-SV03	5.0	<0.088	**0.084**	<0.125	<0.110	<0.087	<0.042
C41-SV05	3.0	<0.094	<0.055	<0.132	<0.117	<0.093	<0.045
D(e)-SP05	10.0	<0.024	<0.014	<0.033	<0.029	<0.023	<0.011
D(e)-SP06	9.0	<0.024	<0.014	<0.034	<0.030	<0.024	<0.011
D(e)-SP06 (rep)	9.0	<0.024	<0.014	<0.034	<0.030	<0.024	<0.011
D(e)-SP07	10.0	<0.022	**0.014**	<0.031	<0.028	<0.022	<0.010

Notes and Key:
Concentrations are in micrograms per cubic meter (µg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
< = Less than; not detected above the noted Practical Quantitation Limit.
bgs = Below ground surface
dup = Field duplicate sample
E = Exceeds instrument calibration range.
rep = Laboratory replicate sample
SVE = Soil vapor extraction
SVSL = Soil vapor screening level
* = Sample collected as part of investigation activities in 1999
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Estimated value.
uj = Non detected compound associated with low bias in the continuing calibration verification.

Data Validation Qualifiers:
J = Indicates an estimated value.
U = Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 6-4 *Comparison of VOC Soil Vapor Concentrations to VLEACH Screening Levels for Migration to Groundwater Pathway - Sites in Area 49 and Sites C10, C14, and C15*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	1,1,1-Trichloroethane (1,1,1-TCA)	Benzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Vinyl Chloride
VLEACH SVSL	**10**	**546**	**0.18**	**1.63**	**2.90**	**0.16**
	15	**502**	**0.16**	**1.49**	**2.65**	**0.15**
	20	**455**	**0.15**	**1.34**	**2.41**	**0.13**
33D-SP05	**5.0**	<0.023	<0.014	<0.029	**2.1**	<0.011
33D-SP05	**5.0**	<0.10	<0.10	<0.10	**2.8**	<0.10
33D-SP05	**10.0**	<0.023	**0.014**	<0.029	**4.1**	<0.011
33D-SP05 (dup)	**10.0**	<0.023	<0.014	<0.029	**3.9**	<0.011
33D-SP05	**20.0**	<0.024	**0.032**	<0.030	**3.6**	<0.011
33D-SP06	10.0	<0.024	**0.021**	<0.029	**0.56**	<0.011
33D-SP06 (dup)	10.0	<0.024	**0.022**	**0.065**	**0.57**	<0.011
33D-SP07	10.0	<0.10	<0.10	<0.10	<0.10	<0.10
33D-SP07	**20.0**	<0.10	**0.26**	<0.10	**0.12**	<0.10
33D-SP08	10.0	<0.10	<0.10	<0.10	<0.10	<0.10
33D-SP08	**20.0**	<0.10	**0.29**	<0.10	<0.10	<0.10
33D-SP09	10.0	<0.10	<0.10	<0.10	**1.1**	<0.10
33D-SP09	**20.0**	<0.10	<0.10	<0.10	**2.6**	<0.10
33D-SP10	10.0	<0.10	<0.10	<0.10	**1.3**	<0.10
34D-SP06	10.0	<0.024	<0.014	**0.049**	**0.19**	<0.011
34D-SP06	20.0	<0.024	<0.014	**0.060**	**0.30**	<0.011
34D-SP07	5.0	<0.0062	**0.046**	<0.0078	**0.011**	<0.0029
34D-SP07	5.0	**0.022**	<0.0069	**0.016**	**0.14**	<0.0055
34D-SP07	5.0	**0.009**	<0.0039	**0.012**	**0.074**	<0.0031
34D-SP07	10.0	**0.048**	<0.014	**0.13**	**0.52**	<0.011
34D-SP07	10.0	**0.048**	<0.014	**0.13**	**0.52**	<0.011
34D-SP07	10.0	**0.022**	<0.0083 U	<0.0082	**0.13**	<0.0031
34D-SP07 (dup)	10.0	<0.025	<0.020 U	<0.031	**0.095**	<0.012
34D-SP07	10.0	<0.006	<0.0035	<0.0075	**0.0067**	<0.0028
34D-SP07	10.0	**0.022**	<0.0039	**0.043**	**0.20**	<0.0031
34D-SP07 (dup)	10.0	**0.023**	<0.0039	**0.051**	**0.22**	<0.0032
34D-SP07	15.0	**0.014**	<0.022 U	<0.0078	**0.064**	<0.0029
34D-SP07	15.0	<0.012	<0.0072	<0.015	**0.068**	<0.0057
34D-SP07 (dup)	15.0	**0.014**	**0.013**	**0.012**	**0.12**	<0.0030
34D-SP07	15.0	**0.014**	<0.0040	**0.030**	**0.12**	<0.0032
34D-SP07	20.0	**0.059**	**0.048**	**0.086**	**0.56**	<0.011
34D-SP07	20.0	**0.059**	**0.048**	**0.086**	**0.56**	<0.011
34D-SP08	**5.0**	**0.065**	**0.032**	**4.0**	**12**	<0.022
34D-SP08	**10.0**	**0.094**	**0.044**	**4.8 J**	**17**	<0.021
34D-SP08	**20.0**	<0.023	<0.014	**1.2 J**	**4.1**	<0.011
34D-SP09	**10.0**	**0.50**	<0.10	**0.22**	**3.9**	<0.10
34D-SP09	**20.0**	**0.27**	<0.10	**0.28**	**3.8**	<0.10
35D-SP20	5.0	<0.024	<0.014	<0.029	<0.023	<0.011
35D-SP20	10.0	**0.062**	**0.051**	**0.65**	**0.040**	<0.018
35D-SP20	18.0	<0.023	**0.032**	<0.028	<0.022	<0.011
35D-SP22	5.0	**0.025**	<0.015 U	**0.013**	**0.16**	<0.0032
35D-SP22	5.0	<0.011	<0.0065	<0.014	<0.011	<0.0052
35D-SP22	5.0	<0.0061	<0.0036	<0.0076	<0.0060	<0.0029
35D-SP22	10.0	<0.024	**0.049**	<0.029	**0.084**	<0.011
35D-SP22	10.0	<0.024	**0.049**	<0.029	**0.084**	<0.011
35D-SP22	10.0	<0.050	<0.029	<0.062	<0.049	<0.023
35D-SP22 (rep)	10.0	<0.050	<0.029	<0.062	<0.049	<0.023
35D-SP22 (dup)	10.0	<0.67	<0.39	<0.84	<0.66	<0.32
35D-SP22	10.0	<0.24	<0.14	<0.30	<0.24	<0.11
35D-SP22	10.0	<0.047	<0.028	<0.059	<0.046	<0.022
35D-SP22	20.0	<0.024	**0.015**	<0.030	**0.062**	<0.011
35D-SP22	20.0	<0.024	**0.015**	<0.030	**0.062**	<0.011

Table 6-4 Comparison of VOC Soil Vapor Concentrations to VLEACH Screening Levels for Migration to Groundwater Pathway - Sites in Area 49 and Sites C10, C14, and C15
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	1,1,1-Trichloroethane (1,1,1-TCA)	Benzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Vinyl Chloride
VLEACH SVSL	**10**	**546**	**0.18**	**1.63**	**2.90**	**0.16**
	15	**502**	**0.16**	**1.49**	**2.65**	**0.15**
	20	**455**	**0.15**	**1.34**	**2.41**	**0.13**
35D-SP22	20.0	<0.0069	<0.012 U	<0.0086	<0.0068	<0.0032
35D-SP22	**20.0**	<0.015	**0.6 J**	**0.029 J**	<0.015	<0.0070
35D-SP22 (dup)	20.0	<0.0067	<0.0039	<0.0084	<0.0066	<0.0032
35D-SP22 (rep)	20.0	<0.0067	<0.0039	<0.0084	<0.0066	<0.0032
35D-SP22	20.0	<0.0062	<0.0036	<0.0078	<0.0062	<0.0029
35D-SP22 (dup)	20.0	<0.013	<0.0077	<0.016	<0.013	<0.0062
35D-SP23	10.0	<0.023	**0.034**	<0.029	**0.036**	<0.011
35D-SP24	10.0	<0.024	<0.014	**0.060**	<0.024	<0.011
35D-SP24	20.0	<0.024	<0.014	<0.029	<0.023	<0.011
35D-SP25	10.0	<0.024	<0.014	**0.061**	<0.024	<0.011
35D-SP25	20.0	<0.024	<0.014	**0.058**	<0.023	<0.011
35D-SP26	10.0	<0.023	<0.013	**0.68**	**0.20**	<0.011
35D-SP26	20.0	<0.023	<0.013	**0.57**	**0.87**	<0.011
35D-SP26 (rep)	20.0	<0.023	<0.013	**0.56**	**0.86**	<0.011
35D-SP27	10.0	<0.023	**0.017**	**0.13**	<0.023	<0.011
35D-SP27	20.0	<0.023	**0.015**	**0.091**	<0.023	<0.011
35D-SP28	10.0	<0.022	<0.013	**0.047**	<0.022	<0.010
35D-SP29	**5.0**	**0.043**	<0.013	**2.0**	**3.2**	<0.011
35D-SP29	**10.0**	**0.038**	**0.014**	**1.6**	**3.0**	<0.011
35D-SP29(dup)	**10.0**	**0.033**	<0.014	**1.4**	**2.7**	<0.011
35D-SP29	**20.0**	**0.026**	**0.020**	**1.0**	**2.0**	<0.011
36D-SP15	20.0	<0.025	<0.014	<0.031	**0.053**	<0.012
36D-SP16	10.0	<0.10	<0.10	**0.65**	**0.98**	<0.10
36D-SP16	20.0	<0.028	<0.017	<0.036	<0.028	<0.013
36D-SP16 (dup)	20.0	<0.027	<0.016	<0.034	<0.027	<0.013
36D-SP17	5.0	<0.10	**0.13**	<0.10	**0.38**	<0.10
36D-SP17	**10.0**	<0.10	<0.10	**0.20**	**3.2**	<0.10
36D-SP17	20.0	<0.050	<0.029	<0.062	<0.049	<0.023
36D-SP18	**5.0**	**0.051**	**0.034**	**3.8**	**8.0**	<0.011
36D-SP18	**20.0**	<0.16	<0.097	**8.5**	**39**	<0.078
36D-SP18 (rep)	**20.0**	**0.19**	<0.068	**10**	**49 e**	<0.054
36D-SP19	20.0	<0.023	**0.023**	**0.56**	**0.70**	<0.011
36D-SP20	**20.0**	<0.046	<0.027	**3.5**	**8.4**	<0.022
36D-SP20 (rep)	**20.0**	<0.058	<0.034	**3.8**	**8.9**	<0.027
36D-SP21	10.0	<0.10	<0.10	<0.10	<0.10	<0.10
36D-SP21	20.0	<0.10	<0.10	<0.10	<0.10	<0.10
36D-SP21 (dup)	20.0	<0.10	<0.10	<0.10	<0.10	<0.10
37D-SP08	5.0	**0.36**	<0.10	<0.10	**0.11**	<0.10
37D-SP08	5.0	**0.043**	<0.0084 U	<0.0076	<0.0060	<0.0029
37D-SP08	5.0	**0.016**	<0.0039	<0.0082	<0.0065	<0.0031
37D-SP08	5.0	**0.037**	<0.0040	<0.0086	<0.0068	<0.0032
37D-SP08	10.0	**2.4**	**0.068**	<0.030	**0.59**	<0.011
37D-SP08	10.0	**2.4**	**0.068**	<0.030	**0.59**	<0.011
37D-SP08	10.0	**0.045**	<0.02 U	<0.0079	<0.0063	<0.003
37D-SP08 (dup)	**10.0**	**0.036**	**0.025**	**0.22**	**2.0**	<0.003
37D-SP08	10.0	**0.057**	<0.026	<0.056	<0.044	<0.021
37D-SP08 (rep)	10.0	**0.053**	<0.026	<0.056	<0.044	<0.021
37D-SP08	10.0	**0.047**	**0.0053**	<0.0088	<0.0069	<0.0033
37D-SP08 (dup)	10.0	**0.040**	**0.0058**	<0.0079	<0.0063	<0.0030
37D-SP08	15.0	**0.071**	<0.014 U	<0.0082	<0.0065	<0.0031
37D-SP08	15.0	<0.012	<0.0072	<0.015	<0.012	<0.0057
37D-SP08 (dup)	15.0	**0.070**	<0.010	<0.022	<0.018	<0.0084
37D-SP08	15.0	**0.071**	**0.0045**	<0.0086	<0.0068	<0.0032

Table 6-4 *Comparison of VOC Soil Vapor Concentrations to VLEACH Screening Levels for Migration to Groundwater Pathway - Sites in Area 49 and Sites C10, C14, and C15*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	1,1,1-Trichloroethane (1,1,1-TCA)	Benzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Vinyl Chloride
VLEACH SVSL	**10**	**546**	**0.18**	**1.63**	**2.90**	**0.16**
	15	**502**	**0.16**	**1.49**	**2.65**	**0.15**
	20	**455**	**0.15**	**1.34**	**2.41**	**0.13**
37D-SP08	20.0	**0.17**	**0.14**	<0.10	**0.14**	<0.10
37D-SP09	10.0	<0.023	<0.014	<0.029	<0.023	<0.011
37D-SP10	10.0	<0.024	<0.014	<0.029	<0.023	<0.011
37D-SP11	10.0	<0.024	<0.014	<0.030	**0.049**	<0.011
37D-SP11 (dup)	10.0	<0.024	<0.014	<0.029	**0.044**	<0.011
37D-SP12	10.0	<0.024	<0.014	<0.030	<0.024	<0.011
37D-SP12 (rep)	10.0	<0.024	<0.014	<0.030	<0.024	<0.011
37D-SP13	10.0	<0.10	<0.10	<0.10	<0.10	<0.10
38D-SP20	**10.0**	**0.13**	**0.023**	**0.19**	**4.2**	<0.011
38D-SP20 (rep)	**10.0**	**0.12**	**0.02**	**0.18**	**4.1**	<0.011
38D-SP20	**20.0**	**0.36**	**0.027**	**0.18**	**12**	<0.018
38D-SP21	10.0	**0.034**	**0.15**	**0.19**	**0.19**	<0.011
38D-SP21 (dup)	10.0	**0.026**	**0.03**	**0.14**	**0.13**	<0.011
38D-SP21	20.0	<0.023	<0.014	<0.029	**0.080**	<0.011
38D-SP22	**10.0**	**0.52**	<0.027	**8.4 J**	**14**	<0.022
38D-SP22	**20.0**	**0.41**	<0.034	**7.4 J**	**14**	<0.028
38D-SP23	**5.0**	**0.080**	**0.032**	**4.4**	**10**	<0.022
38D-SP23 (rep)	**5.0**	**0.080**	**0.03**	**4.4**	**10**	<0.022
38D-SP23	**5.0**	**0.080**	**0.032**	**4.4**	**10**	<0.022
38D-SP23 (rep)	**5.0**	**0.080**	**0.030**	**4.4**	**10**	<0.022
38D-SP23	**5.0**	**0.053**	**0.044**	**0.18**	**2.9**	<0.0042
38D-SP23 (dup)	**5.0**	**0.049**	**0.044**	**0.18**	**2.8**	<0.0042
38D-SP23	**5.0**	**0.049**	<0.015	**0.68**	**3.1**	<0.012
38D-SP23	**5.0**	**0.066**	<0.016	**2.2**	**6.6**	<0.013
38D-SP23	**10.0**	**0.055**	<0.016	**1.6**	**6.0**	<0.013
38D-SP23	**10.0**	**0.055**	<0.016	**1.6**	**6.0**	<0.013
38D-SP23	10.0	**0.030**	<0.021 U	**0.040**	**1.0**	<0.003
38D-SP23 (dup)	10.0	**0.042**	<0.021 U	<0.0082	<0.0065	<0.0031
38D-SP23	10.0	<0.049	<0.028	**0.22**	**2.2**	<0.023
38D-SP23	**10.0**	**0.048**	<0.0090	**1.4**	**4.2**	<0.0072
38D-SP23 (rep)	**10.0**	**0.049**	<0.0090	**1.4**	**4.2**	<0.0072
38D-SP23 (dup)	**10.0**	**0.050**	<0.0084	**1.4**	**4.3**	<0.0067
38D-SP23	**15.0**	**0.057**	<0.015 U	**0.064**	**2.3**	<0.0031
38D-SP23	**15.0**	**0.066**	<0.020	**0.31**	**3.7**	<0.016
38D-SP23 (dup)	**15.0**	**0.069**	**0.041**	**0.82**	**4.9**	<0.011
38D-SP23	**15.0**	**0.073**	<0.011	**2.2**	**6.6**	<0.0092
38D-SP23	**20.0**	**0.19**	<0.066	**8.6**	**31**	<0.052
38D-SP23	**20.0**	**0.19**	<0.066	**8.6**	**31**	<0.052
38D-SP24	10.0	<0.022	<0.013	**0.15**	**0.18**	<0.010
38D-SP24	20.0	<0.022	<0.013	<0.028	**0.043**	<0.010
38D-SP25	5.0	<0.024	<0.014	<0.030	<0.024	<0.011
38D-SP25	**10.0**	<0.046	<0.027	**1.0 J**	**17**	<0.022
38D-SP25	**20.0**	<0.59	<0.34	**8.0 J**	**160**	<0.28
38D-SP26	**10.0**	<0.10	<0.10	<0.10	**2.5**	<0.10
38D-SP27	**10.0**	**0.27**	<0.10	**0.42**	**13**	<0.10
38D-SP28	10.0	<0.10	<0.10	**0.63**	**0.36**	<0.10
39D-SP03	15.0	<0.023	<0.013	<0.028	<0.022	<0.011
39D-SP04	15.0	<0.024	<0.014	<0.030	<0.024	<0.011
39D-SP04 (rep)	15.0	<0.024	<0.014	<0.030	<0.024	<0.011
39D-SP05	5.0	<0.023	<0.014	<0.029	<0.023	<0.011
39D-SP05	15.0	<0.024	<0.014	<0.030	**0.036**	<0.011
49ST07-SP02	10.0	<0.024	**0.019**	<0.029	**0.043**	<0.011
49ST11-SP03	10.0	**0.10**	**0.017**	**0.19**	**0.69**	<0.011
49ST11-SP04	10.0	**0.045**	**0.014 j**	**0.11**	**0.18**	<0.011
49ST11-SP04	20.0	<0.10	<0.10	**0.11**	**0.45**	<0.10

Table 6-4 Comparison of VOC Soil Vapor Concentrations to VLEACH Screening Levels for Migration to Groundwater Pathway - Sites in Area 49 and Sites C10, C14, and C15
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	1,1,1-Trichloroethane (1,1,1-TCA)	Benzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Vinyl Chloride
VLEACH SVSL	**10**	**546**	**0.18**	**1.63**	**2.90**	**0.16**
	15	**502**	**0.16**	**1.49**	**2.65**	**0.15**
	20	**455**	**0.15**	**1.34**	**2.41**	**0.13**
49ST15-SP05	10.0	<0.024	<0.014	<0.030	<0.024	<0.011
49ST15-SP06	10.0	<0.024	<0.014	<0.030	<0.024	<0.011
49ST22-SP02	10.0	<0.024	**0.014**	<0.030	**0.50**	<0.011
49ST22-SP02	20.0	<0.10	<0.10	<0.10	**0.41**	<0.10
49ST22-SP03	10.0	<0.10	**0.24**	<0.10	**0.59**	<0.10
49ST22-SP03	**10.0**	<0.10	**0.42**	<0.10	**0.60**	<0.10
49ST22-SP03	**10.0**	<0.10	**0.42**	<0.10	**0.61**	<0.10
49ST22-SP04	10.0	<0.10	<0.10	<0.10	**0.53**	<0.10
49ST22-SP05	10.0	<0.10	<0.10	<0.10	<0.10	<0.10
C10-SV01*	10.0	<0.088	<0.052	<0.11	<0.087	<0.042
C10-SV02*	10.0	<0.088	<0.052	<0.11	<0.087	<0.042
C10-SV03*	10.0	<0.088	<0.052	<0.11	<0.087	<0.042
C10-SV04*	10.0	<0.088	**0.075**	<0.11	<0.087	<0.042
C10-SV04	17.0	<0.13	<0.079	**0.17**	<0.13	<0.063
C10-SV04 (rep)	17.0	<0.13	<0.079	**0.17**	<0.13	<0.063
C10-SV04	20.0	<0.056	<0.033	<0.070	<0.055	<0.026
C10-SV05*	10.0	<0.088	<0.052	<0.11	<0.087	<0.042
C10-SV06	10.0	<0.023	<0.014	<0.029	<0.023	<0.011
C10-SV06 (rep)	10.0	<0.023	<0.014	<0.029	<0.023	<0.011
C10-SV07	10.0	<0.024	<0.014	<0.029	<0.023	<0.011
C14-SV01*	15.0	<0.091	<0.053	<0.11	<0.090	<0.043
C14-SV01 (dup)*	15.0	<0.090	<0.052	<0.11	**0.11**	<0.042
C14-SV02*	15.0	<0.091	<0.053	<0.11	<0.090	<0.043
C14-SV03*	11.5	<0.090	**0.055**	<0.11	<0.088	<0.042
C14-SV03	20.0	<0.028	<0.017	<0.036	<0.028	<0.013
C14-SV04*	10.0	<0.093	<0.054	<0.12	<0.091	<0.043
C14-SV05	10.0	<0.023	<0.014	<0.029	<0.023	<0.011
C14-SV06	10.0	<0.023	<0.013	<0.028	<0.022	<0.011
C15-SV01*	10.0	<0.093	<0.054	<0.12	<0.091	<0.043
C15-SV01 (dup)*	10.0	<0.093	<0.054	<0.12	<0.091	<0.043
C15-SV02*	10.0	<0.091	<0.053	<0.11	<0.090	<0.043
C15-SV03*	10.0	<0.093	<0.054	<0.12	<0.091	<0.043
C15-SV04*	10.0	<0.091	<0.053	<0.11	<0.090	<0.043
C15-SV05	10.0	<0.024	<0.014	<0.030	<0.024	<0.011
C15-SV06	10.0	<0.024	<0.014	<0.030	<0.024	<0.011
C15-SV07	10.0	<0.024	<0.014	<0.029	<0.023	<0.011
C15-SV07 (dup)	10.0	<0.024	<0.014	<0.029	<0.023	<0.011
C15-SV08	10.0	<0.024	<0.014	<0.029	<0.023	<0.011

Notes and Key:

Concentrations are in micrograms per cubic meter (µg/m^3) / micrograms per liter (µg/L)
Detected concentrations are in bold.
< = Less than; not detected above the noted Practical Quantitation Limit.
* = Sample collected as part of investigation activities in 1999
bgs = Below ground surface
dup = Field duplicate sample
NA = Not analyzed
PV = Purge volume
rep = Laboratory replicate sample
RI/FS = Remedial Investigation/Feasibility Study
SVSL = Soil vapor screening level

Table 6-5 Comparison of VOC Soil Vapor Concentrations to VLEACH Screening Levels for Migration to Groundwater Pathway - Central Area 49 Stage 1 RI Soil Vapor Samples
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	1,1,1-Trichloroethane (1,1,1-TCA)	Freon 113	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Vinyl Chloride
VLEACH SVSL	10	546	17,684	1.63	2.90	0.16
	15	502	16,259	1.49	2.65	0.15
	20	455	14,613	1.34	2.41	0.13
32D SP01	10	14	<0.2	39	301	<0.5
32D SP02	10	<0.2	<0.2	<0.4	2.1	<0.5
32D SP03	10	3.8	<1	9.1	213	<2.5
32D SP04	10	1.6	<0.2	5.5	77	<0.5
32D SP04 (dup)	10	1.2	<0.2	5.4	75	<0.5
32D SP04	15	0.7	<0.5	1.5	33	<0.5
32D SP05	10	9.2	<0.2	18	573	<0.5
32D SP06	10	<0.5	<0.5	110	8	<0.5
32D SP06	20	100	<0.5	80	2,600	<0.5
32D SP07	10	1.5	<0.5	4.7	130	<0.5
32D SP07	10	<0.5	<0.5	2.4	6.5	<0.5
32D SP07	15	<0.5	<0.5	<0.5	12	<0.5
32D SP07	19	0.6	<0.5	<0.5	12	<0.5
34D SP01	10	<0.2	<0.2	<0.4	2.2	<0.5
34D SP02	10	<0.2	<0.2	<0.4	1.2	<0.5
34D SP02 (dup)	10	<0.2	<0.2	<0.4	1.5	<0.5
34D SP03	10	4.8	<0.2	<0.4	4.4	<0.5
34D SP03 (dup)	15	12	<0.5	<0.5	11	<0.5
34D SP03	15	12	<0.5	<0.5	9.8	<0.5
34D SP04	10	<0.2	<0.2	<0.4	0.66	<0.5
35D SP01	10	1.5	<0.2	13	121	<0.5
35D SP02	10	24	<0.2	11	2,700	<0.5
35D SP02	15	38	<1	7.3	4,463	<2.5
35D SP03	10	1.2	<0.2	<0.4	4.2	<0.5
35D SP04	10	7.0	<0.2	9	197	<0.5
35D SP04 (dup)	10	7.3	<0.2	10	196	<0.5
35D SP05	10	1.1	<0.2	2.4	8.1	<0.5
35D SP06	10	<0.2	<0.2	<0.4	<0.4	<0.5
35D SP07	8	<0.2	<0.2	1.4	6.2	<0.5
35D SP08	10	2.0	<0.2	1.2	85	<0.5
35D SP08 (dup)	10	1.8	<0.2	1.2	82	<0.5
35D SP08	15	<0.2	<0.2	0.58	64	<0.5
35D SP09	10	0.4	<0.2	5.1	9.9	<0.5
35D SP10	10	<0.2	<0.2	0.88	2.5	<0.5
35D SP11	10	0.22	<0.2	<0.4	3.9	<0.5
35D SP11	20	<0.5	<0.5	<0.5	5.8	<0.5
35D SP12	10	0.59	<0.2	1.2	36	<0.5
35D SP12 (dup)	10	0.43	<0.2	1.2	35	<0.5
35D SP12	15	0.7	0.39	1.6	12	<0.5
35D SP13	8	<0.2	<0.2	<0.4	2.8	<0.5
35D SP14	18	1.6	<0.5	6.4	8.4	<0.5
35D SP15	15	3.8	<0.5	<0.5	3.6	<0.5
35D SP15 (dup)	15	3	<0.5	<0.5	3.9	<0.5
35D SP17	14.5	5.1	<0.5	36	1,500	<0.5
38D SP01	10	58	<0.2	101	26,647	9,676
38D SP02	10	2.9	<0.2	2.3	48	<0.5
38D SP03	10	3.0	<0.2	13	358	<0.5
38D SP03	15	3.3	0.61	20	44	<0.5
38D SP04	10	<0.2	<0.2	<0.4	12	<0.5
38D SP04	10	<0.2	<0.2	<0.4	13	<0.5
38D SP05	10	2.0	<0.2	37	1,485	280

Table 6-5 Comparison of VOC Soil Vapor Concentrations to VLEACH Screening Levels for Migration to Groundwater Pathway - Central Area 49 Stage 1 RI Soil Vapor Samples
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Location	Sample Depth (feet bgs)	1,1,1-Trichloroethane (1,1,1-TCA)	Freon 113	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Vinyl Chloride
VLEACH SVSL	10	546	17,684	1.63	2.90	0.16
	15	502	16,259	1.49	2.65	0.15
	20	455	14,613	1.34	2.41	0.13
38D SP05 (dup)	10	1.8	<0.2	35	1,089	137
38D SP05	10	<0.2	<0.2	29	1,646	157
38D SP06	10	11	<0.2	8.1	212	<0.5
38D SP06 (dup)	10	25	2.7	232	3,825	<2.5
38D SP06	5	5.0	0.6	668	691	<0.5
38D SP06	10	22	3.0	253	3,888	<2.5
38D SP06	15	17	4.5	224	3,443	<2.5
38D SP08	10	<0.2	<0.2	<0.4	1.07	<0.5
38D SP09	10	4.7	18	262	678	<0.5
38D SP10	10	14	23	510	953	<0.5
38D SP11	10	14	2.1	9.3	524	<0.5
38D SP12	15	4.2	0.93	5.7	55	<0.5
38D SP13	10	0.6	<0.5	87	32	<0.5
38D SP13 (dup)	10	0.7	<0.5	91	35	<0.5
38D SP14	10	27	5.6	95	340	<0.5
38D SP15	10	<0.5	<0.5	11	<0.5	<0.5
38D SP16	20	1.9	<0.5	1.8	23	<0.5
38D SP17	20	3	<0.5	1.9	130	<0.5

Notes and Key:

Concentrations are in micrograms per cubic meter ($\mu g/m^3$) / micrograms per liter ($\mu g/L$)

Detected concentrations are in bold.

Soil vapor concentrations above screening levels are shaded.

< = Less than; not detected above the noted Practical Quantitation Limit.

bgs = Below ground surface

dup = Field duplicate sample

RI/FS = Remedial Investigation/Feasibility Study

SVSL = Soil vapor screening level

Table 6-6 ***Results of Metals Analysis of Background Soil Samples and Sample Extracts***
Perimeter Operable Unit RI/FS
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Units	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Titanium	Vanadium	Zinc
A20-BML01	2.0	7/16/2003	mg/kg	18,000	<0.40 UJ	5.3 J	150 J	0.46	<8.1	<0.81	46 J	0.27 J	13	38	5.9	550	**0.097 J**	<1.6	42 J	<0.81 UJ	<0.56 UJ	<0.16	840	73	51 J
A20-BML01	2.0	7/16/2003	µg/L	37,000	<300	<500	11,000	7.4	<500	<50	83	<25	700	590	<380	33,000	<2	<100	420	<500	<35	<500	1,000	900	280
A20-BML02	2.0	7/16/2003	mg/kg	20,000	<0.44	**9.1**	180	0.60	<8.8	**0.37 j**	56	<0.21	14	**46**	8.3	590	**0.23**	<1.8	42	<0.88	<0.61	0.19	820	89	52
A20-BML02	2.0	7/16/2003	µg/L	37,000	<300	<500	11,000	7.8	<500	<50	98	<25	700	590	<380	33,000	<2	<100	350	<500	<35	<500	1,000	910	280
A20-BML03	2.0	7/16/2003	mg/kg	17,000	<0.44 UJ	3.1 J	130 J	0.51	<8.8	**0.25 j**	46 J	0.68 J	13	29	6.3	520	0.045 J	<1.8	37	<0.88 UJ	<0.61 UJ	<0.18	880	65	44 J
A20-BML03	2.0	7/16/2003	µg/L	24,000	<300	<500	8,000	<5	<500	<50	63	<25	530	190	<380	35,000	<2	<100	310	<500	<35	<500	990	330	370
A20-BML04	2.0	7/16/2003	mg/kg	15,000	<0.44	3.1	170	0.47	<8.8	**0.23 j**	41	0.23	12	28	7.7	650	0.036	<1.8	28	<0.88	<0.61	<0.18	700	61	52
A20-BML04	2.0	7/16/2003	µg/L	19,000	<300	<500	6,600	<5	<500	<50	50	<25	650	230	<380	29,000	<2	<100	400	<500	<35	<500	750	530	210

Notes and Key:
Metal concentrations in soil above average background levels are in bold.
< = Less than; not detected above the indicated Practical Quantitation Limit.
bgs = Below ground surface
mg/kg = Milligrams per kilogram
µg/L = Micrograms per liter
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifier:
j = Reported concentration is an estimate. Concentration between reporting limit and practical quantitation limit.

Data Validation Qualifiers:
J = Indicates an estimated value.
UJ = Indicates the compound or analyte was analyzed for but not detected. The practical quantitation limit is an estimated value.

Table 6-7 *Summary of Metals Analysis of Background Soil Sample Extracts*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Units	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper
A20-BML01	2.0	7/16/2003	µg/L	37,000	<300	<500	11,000	7.4	<500	<50	83	<25	700	590
A20-BML02	2.0	7/16/2003	µg/L	37,000	<300	<500	11,000	7.8	<500	<50	98	<25	700	590
A20-BML03	2.0	7/16/2003	µg/L	24,000	<300	<500	8,000	<5	<500	<50	63	<25	530	190
A20-BML04	2.0	7/16/2003	µg/L	19,000	<300	<500	6,600	<5	<500	<50	50	<25	650	230
Mean Concentration				**29,250**	**300**	**500**	**9,150**	**6.3**	**500**	**50**	**73.5**	**25**	**645**	**400**
Standard Deviation				**9,179**	**0.0**	**0.0**	**2,211**	**1.5**	**0.0**	**0.0**	**21.2**	**0.0**	**80.2**	**220**

Sample Identification	Sample Depth (feet bgs)	Sample Date	Units	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Titanium	Vanadium	Zinc
A20-BML01	2.0	7/16/2003	µg/L	<380	33,000	<2	<100	420	<500	<35	<500	1,000	900	280
A20-BML02	2.0	7/16/2003	µg/L	<380	33,000	<2	<100	350	<500	<35	<500	1,000	910	280
A20-BML03	2.0	7/16/2003	µg/L	<380	35,000	<2	<100	310	<500	<35	<500	990	330	370
A20-BML04	2.0	7/16/2003	µg/L	<380	29,000	<2	<100	400	<500	<35	<500	750	530	210
Mean Concentration				**380**	**32,500**	**2.0**	**0.1**	**370**	**500**	**35**	**500**	**935**	**668**	**285**
Standard Deviation				**0.0**	**2,517**	**0.0**	**0.0**	**49.7**	**0.0**	**0.0**	**0.0**	**123**	**286**	**65.6**

Notes and Key:
bgs = Below ground surface
µg/L = Micrograms per liter
RI/FS = Remedial Investigation/Feasibility Study
< = Less than; not detected above the indicated Practical Quantitation Limit.

Table 6-8 *Results of Metals Analysis of Surface Soil Samples and Sample Extracts*
Sites 5D, 10D, and 11D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Units	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Titanium	Vanadium	Zinc
5D-SNS07	0.5	7/15/2003	mg/kg	24,000	<0.48	**12**	180	**0.74**	<9.6	**2.2**	130	<1.0 r	20	**110**	**92**	730	**0.75**	**3.7**	62	0.52 j	**40**	0.19	810	98	**540**
5D-SNS07	0.5	7/15/2003	µg/L	NA	NA	<500 UJ	150 J	<5	NA	<50	<50	<5 R	NA	<50	<380	110	<0.25 UJ	NA	<150 UJ	NA	<35	NA	NA	NA	390 J
10D-SS10	0.0	7/15/2003	mg/kg	14,000	<0.45	**6.4**	110	0.42	<8.9	**0.64**	50	0.62	13	32	**13**	440	**0.11**	<1.8	44	0.12 j	**0.31**	<0.18	590	57	**350**
10D-SS10	0.0	7/15/2003	µg/L	NA	NA	<500	120 J	<5	NA	<50	<50	<5 UJ	NA	<50	<380	<50	<0.25 UJ	NA	<150	NA	<35 UJ	NA	NA	NA	400 J
10D-SS21	0.5	7/15/2003	mg/kg	19,000	**0.57**	**8.4**	210	0.57	<10	**2.2**	71	<1.0	22	**70**	**92**	690	**0.23**	**2.3**	51	0.19 j	**1.3**	<0.20	860	78	**1,700**
10D-SS21	0.0	7/15/2003	µg/L	NA	NA	<500 UJ	290 J	<5	NA	<50	<50	<5 UJ	NA	<50	<380	75	<0.25 UJ	NA	<150	NA	<35	NA	NA	NA	2000 J
10D-SS22	0.5	7/15/2003	mg/kg	26,000	**0.52**	5.8	230	**0.83**	<7.9	**1.6**	85	<1.0	23	**66**	**38**	900	**0.2**	**2.2**	66	0.18 j	**8.4**	<0.16	880	110	**1,000**
10D-SS22	0.0	7/15/2003	µg/L	NA	NA	<500 UJ	140 J	<5	NA	<50	<50	<5 UJ	NA	<50	<380	<50	<0.25 UJ	NA	<150	NA	<35	NA	NA	NA	940 J
10D-SNS27	0.5	7/14/2003	mg/kg	25,000	<0.48	**7.0**	250	**0.82**	<9.6	**1.7**	87	<0.21	**27**	**66**	**51**	**1,000**	**0.18**	**2.6**	65	0.45 j	<0.67	0.20	960	110	**1,100**
10D-SNS27	0.5	7/14/2003	µg/L	NA	NA	<500	230	<5	NA	<50	<50	<5	NA	<50	<380	65	<0.25 UJ	NA	<150	NA	<35	NA	NA	NA	770
11D-SNS08	0.5	7/14/2003	mg/kg	7,100	**1.0**	1.8	57	0.22	<8.6	**0.89**	33	0.34	5.3	25	**79**	170	0.027	<1.7	21	0.38 j	**0.15 j**	<0.17	470	34	**1,500**
11D-SNS08	0.5	7/14/2003	µg/L	NA	NA	<500 UJ	120 J	<5	NA	<50	<50	6.8 J	NA	<50	<380	130	<0.25 UJ	NA	<150 UJ	NA	<35	NA	NA	NA	3600 J
11D-SNS09	0.5	7/14/2003	mg/kg	16,000	**0.98**	4.2	100	0.48	<8.9	**2.0**	49	<0.21	12	**41**	**110**	430	**0.12**	**2.5**	34	0.68 j	<0.62	0.20	800	65	**1,900**
11D-SNS09	0.5	7/14/2003	µg/L	NA	NA	<500 UJ	54 J	<5	NA	<50	<50	<5 R	NA	<50	<380	<50	<0.25 UJ	NA	<150 UJ	NA	<35	NA	NA	NA	1400 J
Average Background				**87,814**	**<0.3**	**5.96**	**644**	**<0.7**	**NA**	**<0.2**	**135**	**NA**	**26**	**39.4**	**11.3**	**927**	**0.057**	**0.58**	**70.6**	**NE**	**0.08**	**<0.3**	**4,300**	**159**	**63.8**
Residential PRG				**76,000**	**31**	**0.062**	**5,400**	**150**	**16,000**	**37**	**210**	**30**	**900**	**3,100**	**150**	**1,800**	**23**	**39**	**1,600**	**390**	**390**	**5.2**	**NE**	**78**	**23,000**
Industrial PRG				**100,000**	**410**	**0.25**	**67,000**	**1,900**	**100,000**	**450**	**450**	**64**	**1,900**	**41,000**	**800**	**19,000**	**310**	**5,100**	**20,000**	**5,100**	**5,100**	**67**	**NE**	**1,000**	**100,000**

Notes and Key:
Metal concentrations in soil above average background levels are in bold.
Metal concentrations in soil above residential PRGs are boxed.
Metal concentrations in soil above industrial PRGs are shaded.
< = Less than; not detected above the indicated Practical Quantitation Limit.
bgs = Below ground surface
mg/kg = Milligrams per kilogram
µg/L = Micrograms per liter
NA = Not analyzed
NE = Not established
PRG = Preliminary Remediation Goal (United States Environmental Protection Agency Region IX, October 2004)
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between method detection limit and practical quantitation limit.
r = Reporting limit for analyte was raised to account for matrix interference.

Data Validation Qualifiers:
J = Indicates an estimated value.
R = Quality control indicates the data is not usable.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 6-9 ***Summary of Metals Analysis of Surface Soil Sample Extracts***
Sites 5D, 10D, and 11D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Units	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Titanium	Vanadium	Zinc
5D-SNS07	0.5	7/15/2003	µg/L	NA	NA	<500 UJ	150 J	<5	NA	<50	<50	<5 R	NA	<50	<380	110	<0.25 UJ	NA	<150 UJ	NA	<35	NA	NA	NA	390 J
10D-SS10	0.0	7/15/2003	µg/L	NA	NA	<500	120 J	<5	NA	<50	<50	<5 UJ	NA	<50	<380	<50	<0.25 UJ	NA	<150	NA	<35 UJ	NA	NA	NA	400 J
10D-SS21	0.0	7/15/2003	µg/L	NA	NA	<500 UJ	290 J	<5	NA	<50	<50	<5 UJ	NA	<50	<380	75	<0.25 UJ	NA	<150	NA	<35	NA	NA	NA	2000 J
10D-SS22	0.0	7/15/2003	µg/L	NA	NA	<500 UJ	140 J	<5	NA	<50	<50	<5 UJ	NA	<50	<380	<50	<0.25 UJ	NA	<150	NA	<35	NA	NA	NA	940 J
10D-SNS27	0.5	7/14/2003	µg/L	NA	NA	<500	230	<5	NA	<50	<50	<5	NA	<50	<380	65	<0.25 UJ	NA	<150	NA	<35	NA	NA	NA	770
11D-SNS08	0.5	7/14/2003	µg/L	NA	NA	<500 UJ	120 J	<5	NA	<50	<50	6.8 J	NA	<50	<380	130	<0.25 UJ	NA	<150 UJ	NA	<35	NA	NA	NA	3600 J
11D-SNS09	0.5	7/14/2003	µg/L	NA	NA	<500 UJ	54 J	<5	NA	<50	<50	<5 R	NA	<50	<380	<50	<0.25 UJ	NA	<150 UJ	NA	<35	NA	NA	NA	1400 J
Maximum Extract Concentration:				NA	NA	<500	**290**	<5	NA	<50	<50	**6.8**	NA	<50	<380	**130**	<0.25	NA	<150	NA	<35	NA	NA	NA	**3,600**
Average Extract Concentration:				NA	NA	<500	**158**	<5	NA	<50	<50	<5	NA	<50	<380	**76**	<0.25	NA	<150	NA	<35	NA	NA	NA	**1,357**

Notes and Key:
< = Less than; not detected above the indicated Practical Quantitation Limit.
bgs = Below ground surface
µg/L = Micrograms per liter
NA = Not analyzed
PRG = Preliminary Remediation Goal (United States Environmental Protection Agency Region IX, October 2004)
RI/FS = Remedial Investigation/Feasibility Study

Laboratory Qualifiers:
j = Reported concentration is an estimate. Concentration between practical quantitation limit and method detection limit.
r = Practical quantitation limit for analyte was raised to account for matrix interference.

Data Validation Qualifiers:
J = Indicates an estimated value.
R = Quality control indicates the data is not usable.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

Table 6-10 *Results of Polychlorinated Biphenyl (PCB) Analysis of Soil Samples and Sample Extracts*
Sites 10D and 11D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Sample Type	Units	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
10D-SNS31	0.5	7/24/2003	Soil	µg/kg	<33	<33	<33	<33	<33	<33	**1,200**
10D-SNS31	0.5	7/24/2003	Extract	µg/L	<4	<4	<4	<4	<4	<4	<4
10D-SNS34	0.5	7/24/2003	Soil	µg/kg	<33	<33	<33	<33	<33	**500**	**520**
10D-SNS34	0.5	7/24/2003	Extract	µg/L	<4	<4	<4	<4	<4	<4	<4
Residential PRG (µg/kg):					**3,900**	**220**	**220**	**220**	**220**	**220**	**220**
Industrial PRG (µg/kg):					**21,000**	**740**	**740**	**740**	**740**	**740**	**740**

Notes and Key:
Detected concentrations are in bold.
Concentrations above residential PRG are boxed.
Concentrations above industrial PRG are shaded.
µg/kg = Micrograms per kilogram
µg/L = Micrograms per liter
< = Less than; not detected above the indicated Practical Quantitation Limit.
bgs = Below ground surface
PRG = Preliminary Remediation Goal (United States Environmental Protection Agency Region IX, October 2004)
RI/FS = Remedial Investigation/Feasibility Study

Table 6-11 *Comparison of Site Soil Sample Extract Concentrations to Background Extract Concentrations*
Site 5D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Copper	Lead	Manganese	Mercury	Nickel	Silver	Zinc
5D-SNS07	0.5	7/15/2003	<500	150	<5	<50	<50	<5	<50	<380	110	<0.25	<150	<35	**390**
Mean Background Extract Concentration:			**500**	**9,150**	**6.3**	**50**	**73.5**	**25**	**400**	**380**	**32,500**	**2**	**370**	**35**	**285**

Notes and Key:
Concentrations reported in micrograms per liter (µg/L)
Metal concentrations above mean background soil extract concentrations are in bold
< = Less than; not detected above the indicated Practical Quantitation Limit.
bgs = Below ground surface
RI/FS = Remedial Investigation/Feasibility Study

Table 6-12 *Comparison of Site Soil Sample Extract Concentrations to Background Extract Concentrations*
Site 10D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Copper	Lead	Manganese	Mercury	Nickel	Silver	Zinc
10D-SS10	0.0	7/15/2003	<500	120	<5	<50	<50	<5	<50	<380	<50	<0.25	<150	<35	**400**
10D-SS21	0.0	7/15/2003	<500	290	<5	<50	<50	<5	<50	<380	75	<0.25	<150	<35	**2,000**
10D-SS22	0.0	7/15/2003	<500	140	<5	<50	<50	<5	<50	<380	<50	<0.25	<150	<35	**940**
10D-SNS27	0.5	7/14/2003	<500	230	<5	<50	<50	<5	<50	<380	65	<0.25	<150	<35	**770**
Mean Soil Sample Extract Concentration:			<500	195	<5	<50	<50	<5	<50	<380	60	<0.25	<150	<35	**1,028**
Mean Background Soil Extract Concentration:			**500**	**9,150**	**6.3**	**50**	**73.5**	**25**	**400**	**380**	**32,500**	**2**	**370**	**35**	**285**

Notes and Key:
Concentrations reported in micrograms per liter (µg/L)
Metal concentrations above mean background soil extract concentrations are in bold
< = Less than; not detected above the indicated Practical Quantitation Limit.
bgs = Below ground surface
RI/FS = Remedial Investigation/Feasibility Study

Table 6-13 *Comparison of Site Soil Sample Extract Concentrations to Background Extract Concentrations*
Site 11D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Copper	Lead	Manganese	Mercury	Nickel	Silver	Zinc
11D-SNS08	0.5	7/14/2003	<500	120	<5	<50	<50	6.8	<50	<380	130	<0.25	<150	<35	**3,600**
11D-SNS09	0.5	7/14/2003	<500	54	<5	<50	<50	<5	<50	<380	<50	<0.25	<150	<35	**1,400**
Mean Soil Sample Extract Concentration:			<500	87	<5	<50	<50	5.9	<50	<380	90	<0.25	<150	<35	**2,500**
Mean Background Soil Extract Concentration:			**500**	**9,150**	**6.3**	**50**	**73.5**	**25**	**400**	**380**	**32,500**	**2**	**370**	**35**	**285**

Notes and Key:
Concentrations reported in micrograms per liter (µg/L)
Metal concentrations above mean background soil extract concentrations are in bold
< = Less than; not detected above the indicated Practical Quantitation Limit.
bgs = Below ground surface
RI/FS = Remedial Investigation/Feasibility Study

Table 6-14 *Assessment of Zinc Leachate Concentrations With Respect to Background Groundwater and Water Quality Limits*
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Constituent	Mean Background Groundwater Concentration	Beneficial Use Numerical Water Quality Limits	Maximum Site Soils Extract Concentration	Maximum Site Soils Leachate Concentration[1]	Average Background Soils Extract Concentration	Attenuation Required to Protect Background[2]	Attenuation Required to Protect Beneficial Users[3]
Zinc	133	2,000	3,600	36,000	285	271	18

Notes and Key:
Concentrations reported in micrograms per liter (µg/L)
1 = Maximum site soils leachate concentration = maximum site soils extract concentration x 10.
2 = Maximum site soils leachate concentration divided by mean background groundwater concentration.
3 = Maximum site soils leachate concentration divided by beneficial water quality limit.
NE = Not established
RI/FS = Remedial Investigation/Feasibility Study

Summary of Numerical Water Quality Limits for Zinc:

USEPA Tap Water PRG	11,000
Drinking Water Standards	
Primary MCL	NE
Secondary MCL	5,000
California Public Health Goal (PHG)	NE
California Action Level for Drinking Water	NE
Agricultural Water Quality Limits	2,000
Taste and Odor Thresholds	NE
USEPA IRIS Reference Dose as Drinking Water Level	2,100
Drinking Water Health Advisory	
USEPA	2,000
National Academy of Sciences (NAS)	NE
USEPA Ambient Water Quality Criteria	
Human Health and Welfare Protection	
Sources of Drinking Water (Non-Cancer)	7,400
Other Waters (Non-Cancer)	26,000

Table 6-15 Summary of Metals Analysis of Area 20 Background Groundwater Samples
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	GW Layer	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Hexavalent Chromium	Cobalt	Copper	Iron
38	B	7/31/2003	<100	<100	<40	**54**	<0.0005	<20	<2	**24,000**	<4	NA	<4	<3	<150
38 (dup)	B	7/31/2003	<100	<100	<40	**53**	<0.0005	<20	<2	**24,000**	<4	<5	<4	<3	<150
3093	C	7/31/2003	<100	<100	<40	**35**	<0.0005	**44**	<2	**46,000**	<4	<5	<4	<3	**2,600**
3109	C	7/17/2003	<100	<100	<40	**20**	<0.0005	<20	<2	**22,000**	<4	<5	<4	<3	**3,100**
Mean Concentration			**50**	**50**	**20**	**36.3**	**0.5**	**21.3**	**1.0**	**30,667**	**2.0**	**2.5**	**2.7**	**1.5**	**1,925**
Standard Deviation			**0.0**	**0.0**	**0.0**	**17**	**0.0**	**19.6**	**0.0**	**13,317**	**0.0**	**0.0**	**1.2**	**0.0**	**1,622**

Sample Identification	GW Layer	Sample Date	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
38	B	7/31/2003	<30	**21,000**	**26**	NA	<20	<10	<1,000	<50	<10	**15,000**	<25	**6.0**	<50
38 (dup)	B	7/31/2003	<30	**21,000**	**26**	<0.08	<20	<10	<1,000	<50	<10	**14,000**	<25	<3	<50
3093	C	7/31/2003	<30	**31,000**	**54**	<0.08	<20	<10	**2,200**	<50	<10	**18,000**	<25	<3	<50
3109	C	7/17/2003	<30	**14,000**	**160**	<0.08	<20	<10	**2,600**	<50	<10	**16,000**	<25	<3	**350**
Mean Concentration			**15**	**22,000**	**80**	**0.04**	**10**	**5**	**1,767**	**25**	**5**	**16,333**	**12.5**	**3.0**	**133**
Standard Deviation			**0.0**	**8,544**	**71**	**0.0**	**0.0**	**0.0**	**1,115**	**0.0**	**0.0**	**1,528**	**0.0**	**2.6**	**188**

Notes and Key:
Concentrations reported in micrograms per liter (µg/L).
dup = Duplicate sample
GW = Groundwater
NA = Not analyzed
RI/FS = Remedial Investigation/Feasibility Study
< = Less than; not detected above the indicated Practical Quantitation Limit.

Table 6-16 Results of Metals Analysis of Surface and Subsurface Soil Samples at Site 10D
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Identification	Sample Depth (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Hexavalent Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Titanium	Vanadium	Zinc
10D-SNS05	0.0	1997	31,000	<22	<7.5	150	0.52	4.1	**3.1**	5,800	77	0.89	11	**44**	30,000	**40**	5,600	260	**1.9**	<3.7	43	1,700	<9.4	**24**	250	<4.7	NA	93	**370**
10D-SB02	2.5	1997	15,600	<4.42	**7.88**	127	0.3	<26.5	**4.58**	3,030	42.6	<0.84	13.1	36.4	19,200	6.27	4,330	563	**0.84**	2.21	50.1	1,320	<8.85	**1.63**	243	<8.85	NA	46.2	**78.4**
	5.0	1997	12,800	<3.16	**5.54**	104	0.23	<38	**0.83**	2,930	46.8	<0.87	13.8	32.2	17,500	<3.16	5,180	581	**1.23**	1.58	28	1,050	<6.33	**0.7**	106	<12.7	NA	46.2	36.2
	7.5	1997	12,300	<4.27	<7.26	75.2	0.24	<25.6	<0.43	2,050	37.8	<0.95	11.4	23.5	20,000	4.52	4,170	317	0.05	<1.71	25.3	517	<8.55	<2.99	66.8	<8.55	NA	47.6	44.7
	10.0	1997	29,600	<4.59	<7.8	234	0.36	<55	<0.46	2,120	37.4	<0.94	15.1	26.4	25,200	<4.59	3,940	535	<0.02	<1.83	35.7	935	<9.17	<1.28	89.3	<9.17	NA	67.6	48.9
10D-SNS07	0.0	1997	24,000	<23	<7.5	180	0.45	18.0	**1.6**	5,600	87	<0.84	14	**65**	27,000	**130**	5,400	280	**0.41**	<3.8	51	1,900	<9.4	<1.9	450	<4.7	NA	68	**1,600**
10D-SB07	2.0	01/25/06	6,800	<0.8	2.0	70	0.25 j	6.2	**0.96**	2,000	25	0.23 j	5.2	34	13,000	**33**	2,000	110	**0.48**	0.31 j	13	470	0.26 j	**8.2**	52	0.19 j	380	37	**360**
	5.0	01/25/06	13,000	<0.8	3.1	140	0.33 j	8.6	**1.3**	2,100	44	0.25 j	9.7	**64**	20,000	**32**	4,100	170	**0.14**	0.67 j	29	1,200	0.28 j	**4.1**	74	0.12 j	560	55	**420**
	10.0	01/25/06	12,000	<0.8	7.6	110	0.31 j	8.3	0.16 j	1,900	52	0.072 j	13	**51**	22,000	5.5	5,400	650	0.0099 j	0.55 j	34	850	0.37 j	<0.4	57	<0.1	440	47	58
10D-SNS10	0.0	1997	43,000	<24	**13**	210	**0.84**	<3.9	**2.5**	5,000	96	<0.86	26	**71**	42,000	**110**	7,800	920	**0.57**	<3.9	**79**	2,600	<9.9	**8.4**	230	**5.5**	NA	110	**710**
10D-SB10	2.0	01/25/06	11,000	<0.8	5	94	0.28 j	11	**0.81**	1,900	43	<0.026	13	**46**	17,000	**34**	4,900	430	**0.21**	0.31 j	43	1,200	0.30 j	**2.8**	88	0.23 j	540	44	**340**
	5.0	01/25/06	6,300	<0.8	4.6	55	<0.2	6.0	0.06 j	1,300	15	0.21 j	5.3	33	10,000	4.7	2,200	180	0.038	<0.2	11	860	0.27 j	<0.4	69	0.11 j	260	24	27
	10.0	01/25/06	14,000	<0.8	6.7	130	0.34 j	9.7	0.12 j	2,100	42	0.13 j	17	40	23,000	5.8	6,500	830	0.035	<0.2	35	860	0.24 j	<0.4	34 j	0.12 j	450	52	44
90% UCL for Mean Background:			90,200	0.27	6.3	655	0.72	NE	0.18	NE	138	NE	27	41	NE	12.1	NE	968	0.09	NE	73.4	NE	NA	0.13	NE	0.26	NE	162	66
Maximum Background			124,100	0.8	14.4	1,020	2.5	NE	0.9	35,000	241	NE	47	68	71,000	63.5	19,600	1,900	0.9	1.0	137	1,330	NA	1.64	17,800	0.4	5,900	207	129
Minimum Background			53,500	0.1	0.6	440	0.25	NE	0.05	6,300	45	NE	10	14	29,100	4.5	3,600	265	0.01	0.2	29	190	NA	0.01	4,700	0.05	2,700	110	26
Residential PRG			**76,000**	**31**	**0.062**	**5,400**	**150**	**16,000**	**37**	**NE**	**210**	**30**	**900**	**3,100**	**23,000**	**150**	**NE**	**1,800**	**23**	**390**	**1,600**	**NE**	**390**	**390**	**NE**	**5.2**	**100,000**	**78**	**23,000**
Industrial PRG			**100,000**	**410**	**0.25**	**67,000**	**1,900**	**100,000**	**450**	**NE**	**450**	**64**	**1,900**	**41,000**	**100,000**	**800**	**NE**	**19,000**	**310**	**5,100**	**20,000**	**NE**	**5,100**	**5,100**	**NE**	**67**	**100,000**	**1,000**	**100,000**

Notes and Key:

Concentrations reported in milligrams per kilogram (mg/kg).
Metal concentrations above 90% UCL background levels are in bold.
Metal concentrations above residential PRGs are boxed.
Metal concentrations above industrial PRGs are shaded.
< = Less than; not detected above the indicated Practical Quantitation Limit.
bgs = Below ground surface

NA = Not analyzed
NE = Not established
PRG = Preliminary Remediation Goal (USEPA Region IX, October 2002)
RI/FS = Remedial Investigation/Feasibility Study
UCL = Upper confidence limit

Laboratory Qualifiers:

j = Reported concentration is an estimate. Concentration between reporting limit and method detection limit.
r = Practical quantitation limitfor analyte was raised to account for matrix interference

Data Validation Qualifiers:

J = Indicates an estimated value.
R = Quality control indicates the data is not usable.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample quantitation limit is an estimated value.

Table 6-17 Results of Volatile Organic Compound (VOC) Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		ACE	ACRL	ACRN	BDCM	BF	BM	BZ	CB	CCL	CD	CE	2-CEVE	CF	CM	DBCM	1,1-DCA	1,2-DCA	DCDFM	1,1-DCE	c/t-1,2-DCE	DCM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	EB	Freon 113	2-HEX	4-M-2-P	MEK	1,1,2,2-PCA	PCE	STY	1,1,1-TCA	1,1,2-TCA	TCE	TCFM	TOL	VA	VC	m,p-XYL	o-XYL	XYL (total)
2000																																											
01/04/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/07/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/10/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/12/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/14/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/17/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/19/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/21/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/24/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/26/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/28/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
01/31/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/02/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/04/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/07/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/07/00	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/09/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/11/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/14/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/16/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/18/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/21/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/23/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/25/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/28/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/01/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/03/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/06/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/08/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/10/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/13/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/15/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/17/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/20/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/22/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/24/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/27/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/29/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/31/00		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
04/03/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/05/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/05/00	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/07/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/10/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/12/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/14/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/17/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/19/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/21/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/24/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/26/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/28/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/01/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/03/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/05/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/08/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/10/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/10/00	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/12/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/15/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/17/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/19/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/22/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/24/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/26/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/30/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/31/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/02/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/05/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/05/00	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/07/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/09/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/12/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/14/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/16/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/19/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/21/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/23/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/26/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/28/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/30/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0

Table 6-17 Results of Volatile Organic Compound (VOC) Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		ACE	ACRL	ACRN	BDCM	BF	BM	BZ	CB	CCL	CD	CE	2-CEVE	CF	CM	DBCM	1,1-DCA	1,2-DCA	DCDFM	1,1-DCE	c/t-1,2-DCE	DCM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	EB	Freon 113	2-HEX	4-M-2-P	MEK	1,1,2,2-PCA	PCE	STY	1,1,1-TCA	1,1,2-TCA	TCE	TCFM	TOL	VA	VC	m,p-XYL	o-XYL	XYL (total)
07/03/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/05/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/07/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/10/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/10/00	SA	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/12/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/12/00	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/14/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/17/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/19/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/21/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/24/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/26/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/28/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/31/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/02/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/04/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/07/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/09/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/11/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/14/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/14/00	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/16/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/18/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/21/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/23/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/25/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/28/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/30/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/01/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/05/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/06/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/06/00	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/08/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/11/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/13/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/15/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/18/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/20/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/22/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/25/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/27/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/29/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/02/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/02/00	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/04/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/06/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/09/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/11/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/13/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/16/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/18/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/20/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/23/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/25/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/27/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/30/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/01/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/01/00	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/03/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/06/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/08/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/10/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/13/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/15/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/17/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/20/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/21/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/22/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/27/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/29/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/01/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/04/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/04/00	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/06/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/08/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/11/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/13/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/15/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/18/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/19/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/20/00		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0

Table 6-17 Results of Volatile Organic Compound (VOC) Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		ACE	ACRL	ACRN	BDCM	BF	BM	BZ	CB	CCL	CD	CE	2-CEVE	CF	CM	DBCM	1,1-DCA	1,2-DCA	DCDFM	1,1-DCE	c/t-1,2-DCE	DCM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	EB	Freon 113	2-HEX	4-M-2-P	MEK	1,1,2,2-PCA	PCE	STY	1,1,1-TCA	1,1,2-TCA	TCE	TCFM	TOL	VA	VC	m,p-XYL	o-XYL	XYL (total)
2001																																											
01/02/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/03/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/03/01	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/05/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/08/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/08/01	SA	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/10/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/12/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/15/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/17/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/19/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/22/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/24/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/26/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/29/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/31/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/02/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/05/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/07/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/09/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/12/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/14/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/16/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/19/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/21/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/23/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/26/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/28/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/02/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/05/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/05/01	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/07/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/09/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/12/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/14/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/16/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/19/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/21/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/23/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/26/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/28/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/30/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/02/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/02/01	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/04/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/06/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/09/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/11/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/13/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/16/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/18/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/20/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/23/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/25/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/27/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/30/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/02/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/04/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/07/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/09/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/11/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/14/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/16/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/18/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/21/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/23/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/25/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/29/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/30/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/01/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/04/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/06/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/08/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/11/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/13/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/15/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/18/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/20/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/22/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/25/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/27/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0

Table 6-17 Results of Volatile Organic Compound (VOC) Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		ACE	ACRL	ACRN	BDCM	BF	BM	BZ	CB	CCL	CD	CE	2-CEVE	CF	CM	DBCM	1,1-DCA	1,2-DCA	DCDFM	1,1-DCE	c/t-1,2-DCE	DCM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	EB	Freon 113	2-HEX	4-M-2-P	MEK	1,1,2,2-PCA	PCE	STY	1,1,1-TCA	1,1,2-TCA	TCE	TCFM	TOL	VA	VC	m,p-XYL	o-XYL	XYL (total)
06/29/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/02/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/05/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/05/01	SA	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/06/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/09/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/11/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/13/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/16/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/18/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/20/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/23/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/25/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/27/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/30/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/01/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/03/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/03/01	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/06/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/08/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/10/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/13/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/15/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/17/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/20/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/22/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/24/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/27/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/29/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/31/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/04/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/05/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/05/01	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/07/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/10/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/12/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/14/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/17/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/19/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/21/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/24/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/26/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/28/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/01/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/01/01	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/03/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/05/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/08/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/10/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/12/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/15/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/17/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/19/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/22/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/24/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/26/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/29/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/31/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/02/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/05/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/05/01	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/07/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/09/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/12/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/14/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/16/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/19/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/20/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/21/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/26/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/28/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/30/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/03/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/05/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/05/01	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/07/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/10/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/12/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/14/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/17/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	**5.2**	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/19/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/20/01		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0

Table 6-17 Results of Volatile Organic Compound (VOC) Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		ACE	ACRL	ACRN	BDCM	BF	BM	BZ	CB	CCL	CD	CE	2-CEVE	CF	CM	DBCM	1,1-DCA	1,2-DCA	DCDFM	1,1-DCE	c/t-1,2-DCE	DCM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	EB	Freon 113	2-HEX	4-M-2-P	MEK	1,1,2,2-PCA	PCE	STY	1,1,1-TCA	1,1,2-TCA	TCE	TCFM	TOL	VA	VC	m,p-XYL	o-XYL	XYL (total)
<u>2002</u>																																										
01/02/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/02/02	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/03/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/04/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/07/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/09/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/11/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/14/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/16/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/18/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/21/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/23/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/23/02	SA	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/25/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/28/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	**5.3**	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/30/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/01/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/04/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/06/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<0.50	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/08/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/11/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/13/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/15/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/18/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/20/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/22/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/25/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/27/02		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/01/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/04/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/06/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/08/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/11/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/13/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/15/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/18/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/20/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/22/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/25/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/27/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
03/29/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/01/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/03/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/03/02	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/05/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/08/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/10/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/12/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/15/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/17/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/19/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/22/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/24/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/26/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
04/29/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/01/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/03/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/06/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/08/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/10/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/13/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/13/02	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/15/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/17/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/20/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/22/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/24/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/28/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/29/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
05/31/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/03/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/03/02	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/05/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/07/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/10/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/12/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/14/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/17/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/19/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/21/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/24/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0

Table 6-17 Results of Volatile Organic Compound (VOC) Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		ACE	ACRL	ACRN	BDCM	BF	BM	BZ	CB	CCL	CD	CE	2-CEVE	CF	CM	DBCM	1,1-DCA	1,2-DCA	DCDFM	1,1-DCE	c/t-1,2-DCE	DCM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	EB	Freon 113	2-HEX	4-M-2-P	MEK	1,1,2,2-PCA	PCE	STY	1,1,1-TCA	1,1,2-TCA	TCE	TCFM	TOL	VA	VC	m,p-XYL	o-XYL	XYL (total)
06/26/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
06/28/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/01/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/02/02	SA	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/03/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/03/02	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/05/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/08/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/10/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/12/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/15/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/17/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/19/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/22/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/24/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/26/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/29/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
07/31/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/02/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/05/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/07/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/09/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/12/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/12/02	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/14/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/16/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/19/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/21/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/23/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/26/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/28/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
08/30/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/03/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/04/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/04/02	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/06/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/09/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/11/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/13/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/16/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/18/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/20/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/23/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/25/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/27/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
09/30/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/02/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/02/02	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/04/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/07/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/09/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/11/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/14/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/16/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/18/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/21/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/23/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/25/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/28/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
10/30/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/01/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/04/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/06/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/08/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/11/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/13/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/15/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/18/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/20/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/22/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/25/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/26/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
11/27/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/02/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/04/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/04/02	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/06/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/09/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/11/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/13/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/16/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/18/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0

Table 6-17 Results of Volatile Organic Compound (VOC) Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		ACE	ACRL	ACRN	BDCM	BF	BM	BZ	CB	CCL	CD	CE	2-CEVE	CF	CM	DBCM	1,1-DCA	1,2-DCA	DCDFM	1,1-DCE	c/t-1,2-DCE	DCM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	EB	Freon 113	2-HEX	4-M-2-P	MEK	1,1,2,2-PCA	PCE	STY	1,1,1-TCA	1,1,2-TCA	TCE	TCFM	TOL	VA	VC	m,p-XYL	o-XYL	XYL (total)
12/20/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
12/23/02		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
2003																																											
01/02/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/03/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/06/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/06/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/08/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/08/03	SA	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/10/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/13/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/15/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/17/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/20/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/22/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/24/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/27/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/29/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
01/31/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/03/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/05/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/07/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/07/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/10/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/12/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/14/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/17/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/19/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/21/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/24/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	NA	<5.0
02/26/03		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
02/28/03		NA	NA	<25	<5.0	NA	<10	<5.0	NA	<5.0	<5.0	<10	NA	<5.0	<10	NA	NA	<5.0	<10	NA	NA	NA	NA	<5.0	NA	<5.0	<5.0	<20	NA	<20	NA	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<10	NA	NA	<5.0
03/03/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
03/05/03		**20**	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	<5.0
03/05/03	(Rep)	**20**	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	NA	<5.0
03/07/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	NA	<5.0
03/10/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	<5.0
03/12/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/14/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/17/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/19/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/21/03		**110**	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/24/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/26/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/28/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/31/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/02/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/04/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/04/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/07/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/08/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/09/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/11/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/14/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/16/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/18/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/21/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/23/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/25/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/28/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
04/30/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/02/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/05/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/05/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/07/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/09/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/12/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/14/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/16/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/19/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/21/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/23/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/27/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/28/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
05/30/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/02/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/02/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/04/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/06/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/09/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/11/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/13/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0

Table 6-17 Results of Volatile Organic Compound (VOC) Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		ACE	ACRL	ACRN	BDCM	BF	BM	BZ	CB	CCL	CD	CE	2-CEVE	CF	CM	DBCM	1,1-DCA	1,2-DCA	DCDFM	1,1-DCE	c/t-1,2-DCE	DCM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	EB	Freon 113	2-HEX	4-M-2-P	MEK	1,1,2,2-PCA	PCE	STY	1,1,1-TCA	1,1,2-TCA	TCE	TCFM	TOL	VA	VC	m,p-XYL	o-XYL	XYL (total)
06/16/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/18/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/20/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/23/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/25/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/27/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
06/30/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/02/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/02/03	SA	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/03/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/07/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/07/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/09/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/11/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/14/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/16/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/18/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/21/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/23/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/25/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/28/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
07/30/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/01/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/04/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/06/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/08/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/11/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/13/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/15/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/18/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/18/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/20/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/22/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/25/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/27/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
08/29/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
09/02/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
09/03/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
09/05/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
09/08/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
09/08/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
09/10/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
09/12/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
09/15/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
09/22/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
09/29/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
10/06/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
10/06/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
10/13/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
10/20/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
10/27/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/03/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/05/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/07/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/10/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/12/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/14/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/17/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/17/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/19/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/21/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/24/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/25/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
11/26/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/01/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/01/03	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/03/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/05/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/08/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/10/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/12/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/15/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/17/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/19/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/22/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
12/23/03		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
2004																																											
01/05/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/05/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/07/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/09/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/12/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0

Table 6-17 Results of Volatile Organic Compound (VOC) Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		ACE	ACRL	ACRN	BDCM	BF	BM	BZ	CB	CCL	CD	CE	2-CEVE	CF	CM	DBCM	1,1-DCA	1,2-DCA	DCDFM	1,1-DCE	c/t-1,2-DCE	DCM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	EB	Freon 113	2-HEX	4-M-2-P	MEK	1,1,2,2-PCA	PCE	STY	1,1,1-TCA	1,1,2-TCA	TCE	TCFM	TOL	VA	VC	m,p-XYL	o-XYL	XYL (total)
01/12/04	SA	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/14/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/16/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/19/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/21/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/23/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/26/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/28/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
01/30/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/02/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/04/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/06/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/09/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/09/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/11/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/13/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/16/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/18/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/20/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/23/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/25/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
02/27/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/01/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/03/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/03/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/05/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/08/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/10/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/12/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/15/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/17/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/19/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/22/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/24/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/26/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/29/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	NA	<5.0	<5.0
03/31/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
04/02/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
04/05/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
04/05/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
04/07/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
04/09/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
04/12/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
04/19/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	**16**	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
04/26/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
05/03/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
05/03/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
05/05/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
05/07/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
05/10/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
05/12/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
05/14/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
05/17/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
05/24/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	**16**	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
05/28/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
06/01/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
06/02/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
06/02/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
06/04/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
06/07/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
06/09/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
06/11/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
06/14/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	**11**	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
06/21/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
06/28/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
07/06/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
07/12/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
07/12/04	SA	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
07/19/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
07/26/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	**14**	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
08/02/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
08/09/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
08/09/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
08/16/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
08/23/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
08/30/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
09/07/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	**6.3**	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
09/07/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	**6.3**	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
09/13/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
09/20/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	**6.7**	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
09/22/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
09/24/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA

Table 6-17 Results of Volatile Organic Compound (VOC) Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		ACE	ACRL	ACRN	BDCM	BF	BM	BZ	CB	CCL	CD	CE	2-CEVE	CF	CM	DBCM	1,1-DCA	1,2-DCA	DCDFM	1,1-DCE	c/t-1,2-DCE	DCM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	EB	Freon 113	2-HEX	4-M-2-P	MEK	1,1,2,2-PCA	PCE	STY	1,1,1-TCA	1,1,2-TCA	TCE	TCFM	TOL	VA	VC	m,p-XYL	o-XYL	XYL (total)
09/27/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
09/29/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/01/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/04/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/06/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/08/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/11/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/11/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/13/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/15/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/18/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/20/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/22/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/25/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/27/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
10/29/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/01/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/01/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/03/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/05/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/08/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/10/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/12/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/15/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/17/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/19/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/22/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/23/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/24/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
11/29/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/01/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/01/04	(Rep)	<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/03/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/06/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/08/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/10/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/13/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/15/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/17/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/20/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/21/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA
12/22/04		<20	<25	<25	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<10	<10 j	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	<10	<5.0	NA

Notes and Key:

Bolded and shaded concentrations exceeded the laboratory practical quantitation limit.
Rep = Replicate
SA = Semi-annual
< = Less than; not detected above the indicated Practical Quantitation Limit.

Compound Abbreviations:

ACE	Acetone	c/t-1,2-DCE	cis/trans-1,2-Dichloroethylene
ACRL	Acrolein	DCM	Dichloromethane
ACRN	Acrylonitrile	1,2-DCP	1,2-Dichloropropane
BDCM	Bromodichloromethane	cis-1,3-DCP	Cis-1,3-dichloropropylene
BF	Bromoform	trans-1,3-DCP	Trans-1,3-dichloropropylene
BM	Bromomethane	EB	Ethylbenzene
BZ	Benzene	2-HEX	2-Hexanone
CB	Chlorobenzene	MEK	Methyl ethyl ketone (2-Butanone)
CCL	Carbon Tetrachloride	1,1,2,2-PCA	1,1,2,2-Tetrachloroethane
CD	Carbon Disulfide	PCE	Tetrachloroethylene
CE	Chloroethane	STY	Styrene
2-CEVE	2-Chloroethyl Vinyl Ether	1,1,1-TCA	1,1,1-Trichloroethane
CF	Chloroform	1,1,2-TCA	1,1,2-Trichloroethane
CM	Chloromethane	TCE	Trichloroethylene
DBCM	Chlorodibromomethane	TCFM	Trichlorofluoromethane
1,1-DCA	1,1-Dichloroethane	TOL	Toluene
1,2-DCA	1,2-Dichloroethane	VA	Vinyl Acetate
DCDFM	Dichlorodifluoromethane	VC	Vinyl Chloride
1,1-DCE	1,1-Dichloroethylene	XYL	Xylenes

Table 6-18 Results of Semi-Volatile Organic (SVOC) and Hydrazine Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Frequency	Sample Date	Hydrazine	Mono-methyl-hydrazine	Unsym-metrical Dimethyl-hydrazine	Acenaph-thene	Anilene	ANT	1,2-Diphenyl-hydrazine/ Azobenzene	Benzidine	Benzoic acid	Benzyl Alcohol	Butyl-benzyl-phthalate	Di-n-butyl-phthalate	N-Butyl-benzene-sulfonamide	B(2-CE)E	B(a)A	B(b)F	B(k)F	B(a)P	B(2-Chloro-ethoxy)-methane	Bis(2-chloro-isopropyl)-ether	B(2-EH)P	B(ghi)P	2-Chloro-phenol	4-Chloro-aniline	p-Chloro-m-cresol
(Quarterly)	4/10/2000	<5.0	<5.0	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	7/10/2000	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	7/28/2000	<5.0	<5.0	<5.0	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<50	<20
(Quarterly)	10/9/2000	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	1/8/2001	<5.0	<5.0	<5.0	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<50	<20
(Quarterly)	4/9/2001	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	7/5/2001	<5.0	<5.0	<5.0	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<50	<20
(Quarterly)	10/3/2001	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	1/23/2002	<5.0	<5.0	<5.0	<10 j	<10	<10 j	<10 j	<50	<50 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<50 j	<10 j	<10 j	<50	<20 j
(Quarterly)	4/15/2002	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	7/2/2002	<5.0	<5.0	<5.0	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<50	<20
(Quarterly)	10/7/2002	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	1/8/2003	<5.0	<5.0	<5.0	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<50	<20
(Quarterly)	10/13/2003	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/14/2003	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	1/12/2004	<5.0	<5.0	<5.0	<10	<10	NA	<10	NA	<50	<10	NA	NA	<10	<10	NA	NA	NA	NA	<10	<10	NA	NA	<10	<50	<20
(Quarterly)	4/6/2004	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	7/12/2004	<5.0	<5.0	<5.0	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<50	<20
(Quarterly)	10/4/2004	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample Frequency	Sample Date	2-Chloro-naphtha-lene	CHRY	4-CPPE	D(ah)A	1,2-DCB	1,3-DCB	1,4-DCB	3,3'-DCB	2,4-DCP	DEP	Dibenzo-furan	Dimethyl-phthalate	Di-n-octyl-phthalate	2,4-Dinitro-toluene	2,6-Dinitro-toluene	1,4-DIOX	2,4-DMP	2,4-DNP	FLOR	Fluorene	Hexa-chloro-butadiene	Hexa-chloro-ethane	HCB	HCCP	I(123-cd)P
(Quarterly)	4/10/2000	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
(Semiannual)	7/10/2000	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
(Semiannual)	7/28/2000	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<20	<10	<10	<10	<10
(Quarterly)	10/9/2000	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
(Semiannual)	1/8/2001	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<20	<10	<10	<10	<10
(Quarterly)	4/9/2001	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
(Semiannual)	7/5/2001	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<20	<10	<10	<10	<10
(Quarterly)	10/3/2001	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
(Semiannual)	1/23/2002	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<50	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j	<50 j	<10 j	<10 j	<20 j	<10 j	<10 j	<10 j	<10 j
(Quarterly)	4/15/2002	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
(Semiannual)	7/2/2002	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<20	<10	<10	<10	<10
(Quarterly)	10/7/2002	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
(Semiannual)	1/8/2003	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<20	<10	<10	<10	<10
(Quarterly)	10/13/2003	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
	11/14/2003	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
(Semiannual)	1/12/2004	<10	NA	<10	NA	<10	<10	<10	NA	<10	<10	<10	<10	NA	<10	<10	<10	<10	<50	NA	<10	<20	<10	NA	<10	NA
(Quarterly)	4/6/2004	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
(Semiannual)	7/12/2004	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<20	<10	<10	<10	<10
(Quarterly)	10/4/2004	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

Table 6-18 Results of Semi-Volatile Organic (SVOC) and Hydrazine Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Frequency	Sample Date	Isophorone	2-MN	2-MP	4-MP	4,6-D-2-MP	Naph-thalene	N-Nitro-sodimethyl-amine	N-Nitrosodi-n-propyl-amine	NO2BZ	2-NA	3-NA	4-NA	2-NP	4-NP	Phenol	N-Nitro-sodi-phenyl-amine	4-Bromo-phenyl-phenyl-ether	PCP	Phen	Pyrene	1-Methyl-2-pyrroli-dinone	1,2,4-TCB	2,4,6-TCP	2,4,5-TCP
(Quarterly)	4/10/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	7/10/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	7/28/2000	<10	<10	<10	<10	<50	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10
(Quarterly)	10/9/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	1/8/2001	<10	<10	<10	<10	<50	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10
(Quarterly)	4/9/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	7/5/2001	<10	<10	<10	<10	<50	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10
(Quarterly)	10/3/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	1/23/2002	<10 j	<10 j	<10 j	<10 j	<50 j	<10 j	<10 j	<10	<10	<50	<50	<50	<10 j	<50	<10 j	<10	<10 j	<50 j	<10 j	<10 j	<10 j	<10 j	<10 j	<10 j
(Quarterly)	4/15/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	7/2/2002	<10	<10	<10	<10	<50	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10
(Quarterly)	10/7/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	1/8/2003	<10	<10	<10	<10	<50	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10
(Quarterly)	10/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	1/12/2004	<10	<10	<10	<10	<50	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	NA	NA	NA	<10	<10	<10	<10
(Quarterly)	4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	7/12/2004	<10	<10	<10	<10	<50	<10	<10	<10	<10	<50	<50	<50	<10	<50	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10
(Quarterly)	10/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes and Key:
All concentrations in micrograms per liter (µg/L).
< = Less than; not detected above the indicated Practical Quantitation Limit.

SVOC Abbreviations

ANT	Anthracene
B(a)A	Benzo(a)anthracene
B(a)P	Benzo(a)pyrene
B(k)F	Benzo(k)fluoranthene
B(b)F	Benzo[b]fluoranthene
B(ghi)P	Benzo[ghi]perylene
B(2-CE)E	Bis(2-Chloroethyl) Ether
B(2-EH)P	Bis(2-ethylhexyl) Phthalate
CHRY	Chrysene
4-CPPE	4-Chlorophenyl Phenyl Ether
D(ah)A	Dibenzo[a,h]anthracene
1,2-DCB	1,2-Dichlorobenzene
1,3-DCB	1,3-Dichlorobenzene
1,4-DCB	1,4-Dichlorobenzene
3,3'-DCB	3,3'-Dichlorobenzidine
2,4-DCP	2,4-Dichlorophenol
DEP	Diethyl Phthalate
1,4-DIOX	1,4-Dioxane
2,4-DMP	2,4-Dimethylphenol
2,4-DNP	2,4-Dinitrophenol
2,4-DNT	2,4-Dinitrotoluene
FLOR	Fluoranthene
HCB	Hexachlorobenzene
HCCP	Hexachlorocyclopentadiene
I(1,2,3-cd)P	Indeno(123-cd)Pyrene
2-MN	2-Methylnaphthalene
2-MP	2-Methylphenol
4-MP	4-Methylphenol
4,6-D-2-MP	4,6-Dinitro-2-Methyl Phenol
2-NA	2-Nitroaniline
2-NP	2-Nitrophenol
3-NA	3-Nitroaniline
4-NA	4-Nitroaniline
4-NP	4-Nitrophenol
NO2BZ	Nitrobenzene
PCP	Pentachlorophenol
PHEN	Phenanthrene
1,2,4-TCB	1,2,4-Trichlorobenzene
2,4,5-TCP	2,4,5-Trichlorophenol
2,4,6-TCP	2,4,6-Trichlorophenol

Table 6-19 Results of Metals Analysis of Surface Water Samples Collected at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sampling Frequency	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Boron		Cadmium		Calcium[1]		Chromium		Cobalt		Copper		Hexavalent Chromium		Iron	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Tota[1]	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
(Quarterly)	04/10/00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	07/10/00	**5.9**	**0.052**	<0.003	<0.003	<0.002	<0.002	**0.062**	**0.023**	0.00027	<0.00025	<0.010	**0.053**	<0.001	<0.001	**7.0**	**6.0**	**0.021**	<0.002	**0.0051**	<0.002	**0.039**	**0.01**	<0.01	<0.01	**8.4**	**0.20**
(Quarterly)	10/09/00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**8.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	01/08/01	**0.51**	**0.051**	<0.003	<0.003	<0.002	<0.002	**0.014**	**0.11**	<0.00025	<0.00025	<0.01	**0.038**	<0.001	<0.001	**1.2**	**1.2**	**0.0022**	<0.002	<0.002	<0.002	**0.0056**	**0.0039**	<0.01	<0.01	**0.73**	<0.075
(Quarterly)	04/09/01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	07/05/01	**1.3**	<0.05	<0.003	<0.003	<0.002	<0.002	**0.031**	**0.14**	<0.00025	<0.00025	<0.01	**0.042**	<0.001	<0.001	**9.1**	**8.6**	**0.0047**	<0.002	<0.002	<0.002	**0.011**	**0.0035**	<0.01	<0.01	**1.9**	<0.075
(Quarterly)	10/03/01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**10**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	01/23/02	**0.26**	<0.05	<0.005	<0.005	<0.005	<0.005	**0.02**	**0.061**	<0.00025	<0.00025	<0.01	**0.022**	<0.001	<0.001	**8.5**	**8.3**	<0.002	<0.002	<0.002	<0.002	**0.0079**	**0.0058**	<0.01	<0.01	**0.43**	<0.075
(Quarterly)	04/15/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	07/02/02	**0.23**	<0.05	<0.003	<0.003	<0.002	<0.002	**0.019**	**0.093**	<0.00025	<0.00025	<0.01	**0.037**	NA	<0.001	**8.2**	**7.7**	<0.002	<0.002	<0.002	<0.002	**0.008**	**0.0054**	<0.01	<0.01	**0.59**	**0.20**
(Quarterly)	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**6.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	01/08/03	**0.086**	<0.05	<0.003	<0.003	<0.002	<0.002	**0.023**	**0.022**	<0.00025	<0.00025	<0.01	<0.01	<0.001	<0.001	**7.7**	**7.5**	<0.002	<0.002	<0.002	<0.002	**0.0041**	**0.0033**	<0.01	<0.01	**0.22**	<0.075
(Quarterly)	04/07/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	07/02/03	**0.16**	<0.05	<0.003	<0.003	<0.002	<0.002	**0.017**	**0.015**	<0.00025	<0.00025	<0.01	<0.01	<0.001	<0.001	**8.1**	**8.2**	<0.002	<0.002	<0.002	<0.002	**0.0063**	**0.005**	<0.01	<0.01	**0.89**	**0.64**
(Quarterly)	10/13/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**10**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	01/12/04	**1.3**	<0.05	<0.003	<0.003	<0.002	<0.002	**0.034**	**0.050**	<0.00025	<0.00025	<0.01	**0.038**	<0.001	<0.001	**4.4**	**4.4**	**0.0028**	<0.002	<0.002	<0.002	**0.018**	**0.01**	<0.01	<0.01	**1.8**	**0.15**
(Quarterly)	04/06/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**11**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	07/12/04	**0.54**	<0.05	<0.003	<0.003	<0.002	<0.002	**0.04**	**0.036**	<0.00025	<0.00025	**0.016**	**0.020**	<0.001	<0.001	**14**	**13**	<0.002	<0.002	<0.002	<0.002	**0.057**	**0.040**	<0.01	<0.01	**0.86**	**0.29**
(Quarterly)	10/04/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**10**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Quality Objective:			**0.20**		**0.0028**		**0.000004**		**0.49**		**0.001**		**0.6**		**0.00007**		**10**		**0.021**		**0.05**		**0.17**		**0.021**		**0.3**
NPDES Discharge Limit:			**NA**		**NA**		**0.01**		**0.1**		**NA**		**NA**		**NA**		**NA**		**NA**		**NA**		**0.01**		**NA**		**0.3**

Sampling Frequency	Sample Date	Lead		Manganese		Magnesium[1]		Mercury		Molybdenum		Nickel		Potassium		Silver		Selenium		Sodium		Thallium		Vandium		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
(Quarterly)	04/10/00	NA	NA	NA	NA	**2.9**	NA	NA	NA	NA	NA	NA	NA	**2.4**	NA	NA	NA	NA	NA	**6.5**	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	07/10/00	<0.002	<0.002	**0.16**	**0.0089**	**3.2**	**1.8**	<0.0002	<0.0002	<0.01	<0.01	**0.012**	<0.005	**5.2**	**4.2**	<0.005	<0.005	<0.025	<0.025	**5.5**	**6.4**	<0.012	<0.012	**0.024**	**0.0049**	**0.11**	**0.049**
(Quarterly)	10/09/00	NA	NA	NA	NA	**1.7**	NA	NA	NA	NA	NA	NA	NA	**3.0**	NA	NA	NA	NA	NA	**6.1**	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	01/08/01	**0.0035**	<0.002	**0.016**	**0.0079**	**0.38**	**0.27**	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	**0.86**	**0.73**	<0.005	<0.005	<0.025	<0.025	**0.5**	**1.1**	<0.012	<0.012	**0.0023**	<0.0015	**0.20**	**0.21**
(Quarterly)	04/09/01	NA	NA	NA	NA	**2**	NA	NA	NA	NA	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	**5.0**	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	07/05/01	**0.005**	<0.002	**0.045**	**0.0062**	**2.8**	**2.5**	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	**1.4**	**1.4**	<0.005	<0.005	<0.025	<0.025	**5.6**	**6.1**	<0.012	<0.012	**0.0057**	**0.0021**	**0.059**	**0.10**
(Quarterly)	10/03/01	NA	NA	NA	NA	**2.2**	NA	NA	NA	NA	NA	NA	NA	**3.1**	NA	NA	NA	NA	NA	**7.3**	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	01/23/02	<0.005	<0.005	**0.0074**	**0.0026**	**2.6**	**2.4**	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	**1.1**	**1.1**	<0.005	<0.005	<0.025	<0.025	**6.8**	**6.8**	<0.012	<0.012	**0.0018**	<0.0015	<0.025	**0.047**
(Quarterly)	04/15/02	NA	NA	NA	NA	**2.5**	NA	NA	NA	NA	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	**5.9**	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	07/02/02	<0.002	<0.002	**0.022**	**0.014**	**2.9**	**2.7**	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	**3**	**2.9**	<0.005	<0.005	<0.025	<0.025	**7.0**	**7.3**	<0.012	<0.012	**0.0033**	**0.0025**	<0.025	**0.073**
(Quarterly)	10/07/02	NA	NA	NA	NA	**1.8**	NA	NA	NA	NA	NA	NA	NA	**2.5**	NA	NA	NA	NA	NA	**5.0**	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	01/08/03	<0.002	<0.002	**0.0064**	**0.0053**	**1.9**	**1.8**	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	**1.3**	**1.4**	<0.005	<0.005	<0.025	<0.025	**5.4**	**5.3**	<0.012	<0.012	**0.002**	**0.0017**	**0.030**	<0.025
(Quarterly)	04/07/03	NA	NA	NA	NA	**2.0**	NA	NA	NA	NA	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	**5.8**	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	07/02/03	**0.0028**	<0.002	**0.038**	**0.034**	**2.2**	**2.2**	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	**9.3**	**9.4**	<0.005	<0.005	<0.025	<0.025	**6.3**	**6.4**	<0.012	<0.012	**0.0056**	**0.0051**	<0.025	<0.025
(Quarterly)	10/13/03	NA	NA	NA	NA	**2.4**	NA	NA	NA	NA	NA	NA	NA	**24**	NA	NA	NA	NA	NA	**11.0**	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	01/12/04	**0.0033**	<0.002	**0.051**	**0.039**	**1.3**	**1.2**	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	**1.5**	**1.5**	<0.005	<0.005	<0.025	<0.025	**2.5**	**3.2**	<0.012	<0.012	**0.0058**	**0.0017**	**0.12**	**0.14**
(Quarterly)	04/06/04	NA	NA	NA	NA	**3.1**	NA	NA	NA	NA	NA	NA	NA	**3.5**	NA	NA	NA	NA	NA	**4.7**	NA	NA	NA	NA	NA	NA	NA
(Semiannual)	07/12/04	**0.0031**	<0.002	**0.023**	**0.019**	**3.3**	**3.1**	<0.0002	<0.0002	0.046	**0.042**	<0.005	<0.005	**50**	**45**	<0.005	<0.005	<0.025	<0.025	**18.0**	**17**	<0.012	<0.012	**0.0045**	**0.0037**	**0.093**	**0.083**
(Quarterly)	10/04/04	NA	NA	NA	NA	**3.2**	NA	NA	NA	NA	NA	NA	NA	**5.6**	NA	NA	NA	NA	NA	**13.0**	NA	NA	NA	NA	NA	NA	NA
Water Quality Objective:			**0.002**		**NA**		**10**		**0.0012**		**0.01**		**0.012**		**NA**		**0.035**		**0.02**		**NA**		**0.0001**		**0.05**		**2.0**
NPDES Discharge Limit:			**NA**		**0.05**		**NA**		**NA**		**NA**		**NA**		**NA**		**0.01**		**NA**		**NA**		**NA**		**NA**		**0.1**

Notes and Key:
All units reported in milligrams per liter (mg/L).
Detected concentrations are in bold.
Concentrations above water quality objectives are shaded.
< = Less than; not detected above the indicated Practical Quantitation Limit.

1 = Water quality objectives for calcium and magnesium were verbally proposed by the RWQCB on 13 June 2006.
NA = Not analyzed
NPDES = National pollution discharge elimination system
RI/FS = Remedial Investigation/Feasibility Study

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2*
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
2000							
01/04/00		7.4	72	12	<0.10	0.033	<0.004
01/07/00		7.3	73	12	<0.10	0.044	<0.004
01/10/00		7.2	69	11	<0.10	0.073	<0.004
01/12/00		6.6	52	10	0.62	1.0	<0.004
01/14/00		7.0	69	11	<0.10	0.16	<0.004
01/17/00		6.9	55	11	<0.10	0.24	<0.004
01/19/00		6.7	45	10	0.20	0.59	<0.004
01/21/00		7.0	53	11	<0.10	0.32	<0.004
01/24/00		6.4	13	9.9	<0.10	0.086	<0.004
01/26/00		6.9	55	10	<0.10	0.41	<0.004
01/28/00		7.3	69	12	<0.10	0.074	<0.004
01/31/00		7.0	51	10	0.11	0.41	<0.004
02/02/00		7.4	74	12	<0.10	0.068	<0.004
02/04/00		6.9	44	10	<0.10	0.32	<0.004
02/07/00		7.5	68	13	<0.10	0.044	<0.004
02/07/00	Rep	7.5	69	13	<0.10	0.043	<0.004
02/09/00		8.5	70	13	<0.10	0.045	<0.004
02/11/00		7.0	53	10	<0.10	0.25	<0.004
02/14/00		6.3	10.5	9.8	<0.10	0.088	<0.004
02/16/00		6.4	38	8.8	0.16	0.53	<0.004
02/18/00		7.2	63	11	<0.10	0.24	<0.004
02/21/00		6.9	37	10	<0.10	0.29	<0.004
02/23/00		6.9	37	10	<0.10	0.22	<0.004
02/25/00		7.5	68	12	<0.10	0.17	<0.004
02/28/00		7.2	69	10	<0.10	0.21	<0.004
03/01/00		8.1	67	NA	NA	NA	<0.004
03/03/00		7.4	69	NA	NA	NA	<0.004
03/06/00		7.6	63	NA	NA	NA	<0.004
03/08/00		7.0	28	NA	NA	NA	<0.004
03/10/00		7.3	48	NA	NA	NA	<0.004
03/13/00		8.2	75	NA	NA	NA	<0.004
03/15/00		**9.1**	100	NA	NA	NA	<0.004
03/17/00		7.6	92	NA	NA	NA	<0.004
03/20/00		7.7	93	NA	NA	NA	<0.004
03/22/00		7.8	130	NA	NA	NA	<0.004
03/24/00		7.8	130	NA	NA	NA	<0.004
03/27/00		7.5	94	NA	NA	NA	<0.004
03/29/00		7.4	130	NA	NA	NA	<0.004
03/31/00		7.4	130	NA	NA	NA	<0.004
04/03/00		7.6	94	8.5	<0.10	0.021	<0.004
04/05/00		7.6	120	10	<0.10	0.026	<0.004
04/05/00	Rep	7.6	120	9.8	<0.10	0.024	<0.004
04/07/00		7.5	120	10	<0.10	0.024	<0.004
04/10/00		7.4	89	9.7	<0.10	<0.011	<0.004
04/12/00		7.4	110	9.0	<0.10	<0.011	<0.004
04/14/00		7.3	110	9.8	<0.10	0.028	<0.004
04/17/00		6.1	8.8	10	<0.10	0.11	<0.004
04/19/00		7.3	96	10	<0.10	0.035	<0.004
04/21/00		7.2	120	8.5	<0.10	<0.011	<0.004
04/24/00		7.4	90	10	<0.10	<0.011	<0.004
04/26/00		7.6	96	8.5	<0.10	<0.011	<0.004
04/28/00		7.5	110	10	<0.10	<0.011	<0.004
05/01/00		7.5	150	9.4	<0.10	0.092	<0.004
05/03/00		7.3	99	9.5	<0.10	<0.011	<0.004
05/05/00		7.4	120	9.2	<0.10	<0.011	<0.004
05/08/00		6.6	43	8.4	<0.10	0.60	<0.004
05/10/00		7.4	84	9.9	<0.10	<0.011	<0.004
05/10/00	Rep	7.4	84	10	<0.10	<0.011	<0.004
05/12/00		7.2	86	9.8	<0.10	<0.011	<0.004
05/15/00		7.0	84	8.0	0.14	0.46	<0.004
05/17/00		7.2	79	9.6	<0.10	0.11	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
05/19/00		7.3	94	8.8	<0.10	0.025	<0.004
05/22/00		7.4	110	8.5	<0.10	0.014	<0.004
05/24/00		7.4	100	8.0	<0.10	<0.011	<0.004
05/26/00		7.2	90	8.0	<0.10	<0.011	<0.004
05/30/00		7.5	82	9.3	<0.10	<0.011	<0.004
05/31/00		7.3	85	9.6	<0.10	<0.011	<0.004
06/02/00		7.4	88	8.9	<0.10	<0.011	<0.004
06/05/00		7.4	84	9.2	<0.10	<0.011	<0.004
06/05/00	Rep	7.4	85	9.2	<0.10	<0.011	<0.004
06/07/00		7.4	82	9.0	<0.10	<0.011	<0.004
06/09/00		7.5	99	9.7	<0.10	0.16	<0.004
06/12/00		7.6	86	9.6	<0.10	0.011	<0.004
06/14/00		7.3	93	7.8	<0.10	<0.011	<0.004
06/16/00		7.4	140	7.3	<0.10	0.21	<0.004
06/19/00		7.6	110	9.5	<0.10	0.012	<0.004
06/21/00		7.4	94	8.4	<0.10	<0.011	<0.004
06/23/00		7.7	95	9.4	<0.10	<0.011	<0.004
06/26/00		7.4	100	8.4	<0.10	0.011	<0.004
06/28/00		8.1	96	8.6	<0.10	<0.011	<0.004
06/30/00		7.8	90	9.1	<0.10	0.012	<0.004
07/03/00		7.9	91	10	<0.10	<0.011	<0.004
07/05/00		8.0	74	9.9	<0.10	<0.011	<0.004
07/07/00		7.6	79	9.4	<0.10	<0.011	<0.004
07/10/00		8.2	82	8.1	<0.10	0.023	<0.004
07/12/00		7.8	89	8.8	<0.10	<0.011	<0.004
07/12/00	Rep	7.8	90	8.8	<0.10	<0.011	<0.004
07/14/00		7.6	78	9.0	<0.10	0.015	<0.004
07/17/00		7.7	88	9.7	<0.10	<0.011	<0.004
07/19/00		7.6	76	8.4	<0.10	<0.011	<0.004
07/21/00		7.5	80	9.0	<0.10	<0.011	<0.004
07/24/00		7.6	88	8.3	<0.10	<0.011	<0.004
07/26/00		7.5	84	8.4	<0.10	0.021	<0.004
07/28/00		7.4	80	8.4	<0.10	<0.011	<0.004
07/31/00		8.0	91	9.2	<0.10	<0.011	<0.004
08/02/00		7.8	98	8.8	<0.10	0.013	<0.004
08/04/00		7.8	100	8.9	<0.10	<0.011	<0.004
08/07/00		7.5	100	8.6	<0.10	<0.011	<0.004
08/09/00		7.4	91	9.0	<0.10	0.03	<0.004
08/11/00		7.5	88	8.9	<0.10	<0.011	<0.004
08/14/00		7.5	100	8.2	<0.10	0.012	<0.004
08/14/00	Rep	7.6	100	8.3	<0.10	0.014	<0.004
08/16/00		7.5	96	8.5	<0.10	0.014	<0.004
08/18/00		7.3	87	8.5	<0.10	0.022	<0.004
08/21/00		7.4	80	8.4	<0.10	0.025	<0.004
08/23/00		7.4	91	8.5	<0.10	0.026	<0.004
08/25/00		7.3	88	8.3	<0.10	0.016	<0.004
08/28/00		7.5	100	8.7	<0.10	<0.011	<0.004
08/30/00		7.2	94	7.4	0.12	0.061	<0.004
09/01/00		7.4	87	9.0	<0.10	0.026	<0.004
09/05/00		7.4	81	9.5	<0.10	0.019	<0.004
09/06/00		7.6	79	9.5	<0.10	0.017	<0.004
09/06/00	Rep	7.5	80	9.7	<0.10	0.018	<0.004
09/08/00		7.2	84	8.5	<0.10	0.044	<0.004
09/11/00		7.4	91	8.9	<0.10	0.031	<0.004
09/13/00		7.3	87	8.2	<0.10	0.033 j	<0.004
09/15/00		7.4	93	8.0	<0.10	0.045 j	<0.004
09/18/00		7.4	80	8.9	<0.10	0.024	<0.004
09/20/00		7.6	98	8.3	<0.10	<0.011	<0.004
09/22/00		7.3	87	8.2	<0.10	0.030	<0.004
09/25/00		7.5	81	9.5	<0.10	0.030	<0.004
09/27/00		7.4	85	9.4	<0.10	0.027	<0.004
09/29/00		7.4	81	9.7	<0.10	0.028	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
10/02/00		7.4	89	9.2	<0.10	0.025	<0.004
10/02/00	Rep	7.4	90	9.3	<0.10	0.027	<0.004
10/04/00		7.4	82	9.7	<0.10	0.033	<0.004
10/06/00		7.4	81	9.8	<0.10	0.017	<0.004
10/09/00		7.5	87	9.5	<0.10	0.039	<0.004
10/11/00		7	79	8.5	0.14	0.22	<0.004
10/13/00		7.1	69	9.3	0.12	0.18	<0.004
10/16/00		7.2	83	9.4	<0.10	0.056	<0.004
10/18/00		7.3	72	9.3	<0.10	0.042	<0.004
10/20/00		7.4	78	9.2	<0.10	0.035	<0.004 j
10/23/00		7.2	71	9.7	<0.10	0.020	<0.004
10/25/00		7.4	76	9.3	<0.10	0.055	<0.004
10/27/00		6.7	42	8.9	0.19	0.66	<0.004
10/30/00		7.0	55	9.8	0.17	0.36	<0.004 j
11/01/00		7.3	80	10	<0.10	0.063	<0.004
11/01/00	Rep	7.4	81	10	<0.10	0.067	<0.004
11/03/00		7.3	77	10	<0.10	0.046	<0.004
11/06/00		7.4	75	10	<0.10	0.023	<0.004
11/08/00		7.5	78	10	<0.10	0.025	<0.004
11/10/00		7.2	78	10	<0.10	<0.011	<0.004
11/13/00		7.5	75	12	<0.10	0.013	<0.004
11/15/00		7.4	73	12	<0.10	0.051	<0.004
11/17/00		7.4	79	12	<0.10	0.018	<0.004
11/20/00		7.4	72	12	<0.10	0.011	<0.004
11/21/00		7.5	77	12	<0.10	0.017	<0.004
11/22/00		7.4	64	12	<0.10	0.38	<0.004
11/27/00		7.4	70	11	<0.10	<0.011	<0.004
11/29/00		6.9	41	11	0.39	0.87	<0.004
12/01/00		7.4	78	12	<0.10	0.047	<0.004
12/04/00		7.5	67	12	<0.10	0.016	<0.004
12/04/00	Rep	7.5	68	12	<0.10	0.014	<0.004
12/06/00		7.5	69	11	<0.10	0.015	<0.004
12/08/00		7.4	73	11	<0.10	<0.011	<0.004
12/11/00		7.4	68	11	<0.10	<0.011	<0.004
12/13/00		7.3	71	12	<0.10	0.18	<0.004
12/15/00		6.7	48	10	0.29	0.91 j	<0.004
12/18/00		7.4	66	13	<0.10	0.025	<0.004
12/19/00		7.5	74	12	<0.10	0.025	<0.004
12/20/00		7.5	74	12	<0.10	0.021	<0.004
2001							
01/02/01		7.4	72	13	<0.10	0.011	<0.004
01/03/01		7.4	72	13	<0.10	0.012	<0.004
01/03/01	Rep	7.4	72	13	<0.10	<0.011	<0.004
01/05/01		7.6	86	13	<0.10	0.083	<0.004
01/08/01		6.3	16	11	0.21	0.36	<0.004
01/10/01		7.0	62	11	<0.10	0.055	<0.004
01/12/01		7.0	43	11	0.11	0.50	<0.004
01/15/01		7.3	64	13	<0.10	0.016	<0.004
01/17/01		7.5	65	14	<0.10	0.02	<0.004
01/19/01		7.3	65	12	<0.10	0.025	<0.004
01/22/01		7.5	78	12	<0.10	<0.011	<0.004
01/24/01		6.8	28	11	0.15	0.34	<0.004
01/26/01		6.7	34	12	0.11	0.47	<0.004
01/29/01		6.5	34	12	0.45	0.86	<0.004
01/31/01		7.2	67	13	<0.10	0.018	<0.004
02/02/01		7.4	71	13	<0.10	0.016	<0.004
02/05/01		7.3	72	12	<0.10	0.022	<0.004 j
02/07/01		7.3	61	12	<0.10	0.28	<0.004
02/09/01		7.6	76	12	<0.10	0.025	<0.004
02/12/01		6.8	46	12	0.13	0.43	<0.004
02/14/01		7.5	70	12	<0.10	0.10	<0.004
02/16/01		7.9	78	11	<0.10	0.02	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
02/19/01		7.3	74	11	<0.10	0.032	<0.004
02/21/01		6.8	26	10	0.18	0.27	<0.004
02/23/01		6.7	17	11	0.10	0.17	<0.004
02/26/01		7.6	63	12	<0.10	0.091	<0.004
02/28/01		7.8	110	12	<0.10	0.037	<0.004
03/02/01		6.8	17	11	0.19	0.44	<0.004
03/05/01		6.6	15	9.9	<0.10	0.20	<0.004
03/05/01	Rep	6.6	15	9.9	<0.10	0.20	<0.004
03/07/01		7.7	76	11	<0.10	0.47	<0.004
03/09/01		7.7	89	12	<0.10	0.016	<0.020
03/12/01		7.7	90	11	<0.10	<0.011	<0.004
03/14/01		7.8	140	11	<0.10	0.017	<0.008
03/16/01		7.7	110	11	<0.10	<0.011	<0.004
03/19/01		7.7	91	10	<0.10	<0.011	<0.004
03/21/01		7.8	140	9.8	<0.10	0.016	<0.004
03/23/01		7.8	140	9.6	<0.10	0.021	<0.004
03/26/01		7.6	79	11	<0.10	0.035	<0.004
03/28/01		7.7	98	10	<0.10	0.014	<0.004
03/30/01		7.8	110	9.3	<0.10	0.014	<0.004
04/02/01		7.7	87	11	<0.10	<0.011	<0.004
04/02/01	Rep	7.7	88	11	<0.10	<0.011	<0.004
04/04/01		8.0	110	8.7	<0.10	0.012	<0.004
04/06/01		7.6	110	10	<0.10	0.014	<0.004 j
04/09/01		7.6	78	11	<0.10	0.036	<0.004
04/11/01		7.7	110	10	<0.10	0.013	<0.004
04/13/01		7.6	110	11	<0.10	0.031	<0.004
04/16/01		7.6	88	10	<0.10	<0.011	<0.004
04/18/01		7.6	120	9.5	<0.10	0.017	<0.004
04/20/01		7.6	100	10	<0.10	0.090	<0.004
04/23/01		7.6	90	10	<0.10	0.012	<0.004
04/25/01		7.6	100	10	<0.10	0.016	<0.004
04/27/01		7.7	110	9.7	<0.10	<0.011	<0.004
04/30/01		7.6	94	9.8	<0.10	<0.011	<0.004
05/02/01		8.0	120	10	<0.10	<0.011	<0.004
05/04/01		7.6	120	9.4	<0.10	0.011	<0.004
05/07/01		7.7	120	9.2	<0.10	<0.011	<0.004
05/09/01		8.0	120	9.1	<0.10	0.014	<0.004
05/11/01		7.6	100	8.4	<0.10	<0.011	<0.004
05/14/01		7.8	120	9.9	<0.10	0.015	<0.004
05/16/01		7.7	100	9.0	<0.10	<0.011	<0.004
05/18/01		7.7	100	9.1	<0.10	<0.011	<0.004
05/21/01		7.7	120	8.9	<0.10	<0.011	<0.004
05/23/01		7.4	110	9.2	<0.10	<0.011	<0.004
05/25/01		7.7	110	8.8	<0.10	<0.011	<0.004
05/29/01		8.5	100	9.8	<0.10	<0.011	<0.004
05/30/01		7.8	100	9.7	<0.10	<0.011	<0.004
06/01/01		7.9	110	9.0	<0.10	<0.011	<0.004
06/04/01		8.0	120	9.7	<0.10	<0.011	<0.004
06/06/01		7.7	100	9.3	<0.10	<0.011	<0.004
06/08/01		7.4	100	8.8	<0.10	<0.011	<0.004
06/11/01		7.7	120	9.1	<0.10	<0.011	<0.004
06/13/01		7.6	98	9.0	<0.10	<0.011	<0.004
06/15/01		7.8	100	8.8	<0.10	<0.011	<0.004
06/18/01		7.6	120	8.0	<0.10	<0.011	<0.004
06/20/01		7.7	110	7.9	<0.10	<0.011	<0.004
06/22/01		7.7	120	7.8	<0.10	<0.011	<0.004
06/25/01		7.6	130	8.5	<0.10	<0.011	<0.004
06/27/01		7.4	100	7.6	<0.10	0.013	<0.004
06/29/01		7.6	100	8.4	<0.10	<0.011	<0.004
07/02/01		7.4	100	7.9	<0.10	<0.011	<0.004
07/05/01		7.5	99	7.8	<0.10	<0.011	<0.004
07/06/01		7.6	110	8.4	<0.10	<0.011	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
07/09/01		7.4	120	8.1	<0.10	<0.011	<0.004
07/11/01		7.7	100	9.3	<0.10	0.014	<0.004
07/13/01		7.4	99	8.6	<0.10	0.019	<0.004
07/16/01		7.6	110	8.9	<0.10	0.012	<0.004
07/18/01		7.3	100	8.1	<0.10	<0.011	<0.004
07/20/01		7.6	110	8.4	<0.10	0.014	<0.004
07/23/01		7.4	100	7.8	<0.10	<0.011	<0.004
07/25/01		7.2	100	7.1	<0.10	0.015	<0.004
07/27/01		7.2	100	7.0	<0.10	0.013	<0.004
07/30/01		7.1	110	7.3	<0.10	0.021	<0.004
08/01/01		7.0	98	6.7	<0.10	<0.011	<0.004
08/03/01		7.2	97	7.3	<0.10	<0.011	<0.004
08/03/01	Rep	7.3	97	7.3	<0.10	0.012	<0.004
08/06/01		7.2	110	7.4	<0.10	0.013	<0.004
08/08/01		7.2	100	6.1	<0.10	0.018	<0.004
08/10/01		7.1	100	7.0	<0.10	0.012	<0.004
08/13/01		7.3	110	7.0	<0.10	0.014	<0.004
08/15/01		7.2	100	7.0	<0.10	0.012	<0.004
08/17/01		7.2	100	7.3	<0.10	0.011	<0.004
08/20/01		7.3	120	7.8	<0.10	0.014	<0.004
08/22/01		7.2	99	7.4	<0.10	<0.011	<0.004
08/24/01		7.4	100	7.4	<0.10	0.012	<0.004
08/27/01		7.3	120	7.1	<0.10	0.019	<0.004
08/29/01		7.1	99	7.0	<0.10	0.023	<0.004
08/31/01		7.2	97	7.5	<0.10	0.014	<0.004
09/04/01		7.3	96	7.1	<0.10	0.017	<0.004
09/05/01		7.4	100	7.4	<0.10	0.026	<0.004
09/05/01	Rep	7.4	100	7.5	<0.10	0.023	<0.004
09/07/01		7.3	110	8.4	<0.10	0.011	<0.004
09/10/01		7.3	100	7.9	<0.10	0.024	<0.004
09/12/01		7.7	100	9.0	<0.10	0.017	<0.004
09/14/01		7.4	98	8.3	<0.10	0.017	<0.004
09/17/01		7.5	110	8.6	<0.10	0.031	<0.004
09/19/01		7.4	100	8.1	<0.10	0.033	<0.004
09/21/01		7.4	100	9.2	<0.10	0.025	<0.004
09/24/01		7.5	110	8.2	<0.10	0.040	<0.004
09/26/01		7.3	93	7.8	<0.10	0.066	<0.004
09/28/01		7.4	97	8.7	<0.10	0.033	<0.004
10/01/01		7.4	95	8.0	<0.10	0.019	<0.004
10/01/01	Rep	7.5	95	8.0	<0.10	0.023	<0.004
10/03/01		7.7	110	8.8	<0.10	0.031	<0.004
10/05/01		7.5	95	9.0	<0.10	0.024	<0.004
10/08/01		7.6	110	9.1	<0.10	0.039	<0.004
10/10/01		7.6	96	9.8	<0.10	0.021	<0.004
10/12/01		7.5	93	9.4	<0.10	<0.011	<0.004
10/15/01		7.2	110	8.8	<0.10	0.052	<0.004
10/17/01		6.7	92	9.0	<0.10	0.015	<0.004
10/19/01		7.4	95	9.2	<0.10	0.016	<0.004
10/22/01		7.2	110	9.3	<0.10	0.038	<0.004
10/24/01		7.2	89	9.5	<0.10	0.012	<0.004
10/26/01		7.4	90	9.4	<0.10	<0.011	<0.004
10/29/01		7.4	90	9.2	<0.10	<0.011	<0.004
10/31/01		7.2	91	8.4	<0.10	0.13	<0.004
11/02/01		7.2	92	9.6	<0.10	<0.011	<0.004
11/05/01		7.5	85	10	<0.10	0.020	<0.004
11/05/01	Rep	7.5	85	10	<0.10	0.022	<0.004
11/07/01		7.6	86	10	<0.10	<0.011	<0.004
11/09/01		7.4	83	10	<0.10	<0.011	<0.004
11/12/01		7.4	83	8.9	<0.10	0.016	<0.004
11/14/01		7.4	82	9.1	<0.10	0.036	<0.004
11/16/01		7.4	84	9.4	<0.10	<0.011	<0.004
11/19/01		7.5	86	9.8	<0.10	<0.011	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
11/20/01		7.2	87	9.3	<0.10	<0.011	<0.004
11/21/01		7.3	84	8.9	0.16	0.48	<0.004
11/26/01		7.5	77	11	<0.10	0.025	<0.004
11/28/01		7.4	82	10	<0.10	0.023	<0.004
11/30/01		7.1	70	10	<0.10	0.17	<0.004
12/03/01		6.8	62	11	0.16	0.62	<0.004
12/05/01		7.4	79	11	<0.10	0.13	<0.004
12/05/01	Rep	7.4	80	11	<0.10	0.13	<0.004
12/07/01		7.4	81	11	<0.10	0.12	<0.004
12/10/01		7.2	76	11	<0.10	0.046	<0.004
12/12/01		7.5	84	12	<0.10	0.035	<0.004
12/14/01		6.7	19	13	0.31	0.39	<0.004
12/17/01		6.9	44	11	0.12	0.19	<0.004
12/19/01		7.4	86	11	<0.10	0.065	<0.004
12/20/01		6.9	38	10	0.12	0.31	<0.004
2002							
01/02/02		6.9	22	9.6	<0.10	0.11	<0.004
01/02/02	Rep	7.0	22	9.5	<0.10	0.11	<0.004
01/03/02		6.7	40	7.8	<0.10	0.14	<0.004
01/04/02		7.4	82	11	<0.10	0.16	<0.004
01/07/02		7.3	77	10	<0.10	0.55	<0.004
01/09/02		7.4	96	9.7	<0.10	0.096	<0.004
01/11/02		7.6	98	11	<0.10	0.077	<0.004
01/14/02		7.6	100	11	<0.10	0.056	<0.004
01/16/02		7.6	96	12	<0.10	0.050	<0.004
01/18/02		7.6	98	12	<0.10	0.061	<0.004
01/21/02		7.6	110	12	<0.10	0.060	<0.004
01/23/02		7.6	99	13	<0.10	0.031	<0.004
01/25/02		7.6	93	12	<0.10	0.071	<0.004
01/28/02		7.5	87	12	<0.10	0.15	<0.004
01/30/02		7.4	90	12	<0.10	0.077	<0.004
02/01/02		7.6	89	NA	NA	NA	<0.004
02/04/02		8.0	89	NA	NA	NA	<0.004
02/06/02		7.7	88	NA	NA	NA	<0.004
02/08/02		7.2	58	NA	NA	NA	<0.004
02/11/02		7.7	88	NA	NA	NA	<0.004
02/13/02		7.6	91	NA	NA	NA	<0.004
02/15/02		7.8	88	NA	NA	NA	<0.004
02/18/02		7.3	80	NA	NA	NA	<0.004
02/20/02		7.2	62	NA	NA	NA	<0.004
02/22/02		7.3	91	NA	NA	NA	<0.004
02/25/02		7.6	92	NA	NA	NA	<0.004
02/27/02		7.4	91	NA	NA	NA	<0.004
03/01/02		7.6	93	12	<0.10	0.014	<0.004
03/04/02		7.5	91	11	<0.10	0.011	<0.004
03/06/02		6.4	20	9.5	0.33	0.42	<0.004
03/08/02		7.4	61	12	<0.10	0.28	<0.004
03/11/02		7.1	65	11	<0.10	0.22	<0.004
03/13/02		7.5	93	11	<0.10	0.037	<0.004
03/15/02		7.6	100	11	<0.10	0.044	<0.004
03/18/02		7.4	84	12	<0.10	0.024	<0.004
03/20/02		7.8	96	11	<0.10	0.017	<0.004
03/22/02		7.4	110	9.8	<0.10	0.032	<0.004
03/25/02		7.4	84	10	<0.10	0.027	<0.004
03/27/02		7.3	100	9.8	<0.10	0.023	<0.004
03/29/02		7.4	110	10	<0.10	0.014	<0.004
04/01/02		7.3	91	9.7	<0.10	<0.011	<0.004
04/03/02		7.6	100	9.8	<0.10	<0.011	<0.004
04/03/02	Rep	7.5	100	9.9	<0.10	<0.011	<0.004
04/05/02		7.4	99	9.8	<0.10	<0.011	<0.004
04/08/02		7.2	90	8.8	<0.10	<0.011	<0.004
04/10/02		7.3	100	9.2	<0.10	0.012	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
04/12/02		7.2	110	4.2	<0.10	<0.011	<0.004
04/15/02		7.0	89	4.9	<0.10	0.38	<0.004
04/17/02		6.8	66	5.1	<0.10	0.39	<0.004
04/19/02		7.5	140	5.9	<0.10	0.041	<0.004
04/22/02		7.3	92	4.7	<0.10	<0.011	<0.004
04/24/02		7.3	110	5.7	<0.10	<0.011	<0.004
04/26/02		7.3	110	5.8	<0.10	<0.011	<0.004
04/29/02		7.3	94	9.5	<0.10	<0.011	<0.004
05/01/02		7.5	100	9.9	<0.10	<0.011	<0.004
05/03/02		7.4	96	9.7	<0.10	<0.011	<0.004
05/06/02		7.2	98	8.9	<0.10	<0.011	<0.004
05/08/02		7.7	95	9.9	<0.10	<0.011	<0.004
05/10/02		7.4	95	9.8	<0.10	<0.011	<0.004
05/13/02		7.1	94	8.6	<0.10	<0.011	<0.004
05/13/02	Rep	7.1	95	8.6	<0.10	<0.011	<0.004
05/15/02		7.2	110	8.4	<0.10	<0.011	<0.004
05/17/02		7.2	110	8.5	<0.10	<0.011	<0.004
05/20/02		6.8	78	8.1	0.31	0.56	<0.004
05/22/02		7.0	64	3.9	<0.10	0.036	<0.004
05/24/02		7.3	98	5.1	<0.10	<0.011	<0.004
05/28/02		7.2	97	7.7	<0.10	<0.011	<0.004
05/29/02		7.1	100	7.8	<0.10	<0.011	<0.004
05/31/02		7.1	110	6.9	<0.10	<0.011	<0.004
06/03/02		7.2	120	7.3	<0.10	<0.011	<0.004
06/03/02	Rep	7.2	120	7.4	<0.10	<0.011	<0.004
06/05/02		7.1	120	6.0	<0.10	<0.011	<0.004
06/07/02		7.3	110	8.1	<0.10	<0.011	<0.004
06/10/02		7.1	99	8.0	<0.10	<0.011	<0.004
06/12/02		7.1	110	7.4	<0.10	<0.011	<0.004
06/14/02		7.2	110	8.2	<0.10	<0.011	<0.004
06/17/02		7.2	98	8.2	<0.10	<0.011	<0.004
06/19/02		7.2	120	6.9	<0.10	<0.011	<0.004
06/21/02		7.1	110	8.1	<0.10	<0.011	<0.004
06/24/02		7.1	96	8.4	<0.10	<0.011	<0.004
06/26/02		7.1	110	7.1	<0.10	<0.011	<0.004
06/28/02		7.1	110	7.8	<0.10	<0.011	<0.004
07/01/02		7.0	98	6.8	<0.10	<0.011	<0.004
07/03/02		7.3	120	7.5	<0.10	0.018	<0.004
07/03/02	Rep	7.3	120	7.5	<0.10	0.018	<0.004
07/05/02		7.2	100	7.9	<0.10	<0.011	<0.004
07/08/02		7.1	94	7.3	<0.10	<0.011	<0.004
07/10/02		7.1	120	7.1	<0.10	<0.011	<0.004
07/12/02		7.2	120	6.8	<0.10	<0.011	<0.004
07/15/02		7.0	96	6.0	<0.10	<0.011	<0.004
07/17/02		8.1	100	10	<0.10	<0.011	<0.004
07/19/02		6.9	130	6.0	<0.10	<0.011	<0.004
07/22/02		7.0	140	6.3	<0.10	<0.011	<0.004
07/24/02		7.0	120	6.3	<0.10	<0.011	<0.004
07/26/02		6.9	140	6.4	<0.10	<0.011	<0.004
07/29/02		7.2	140	9.1	<0.10	<0.011	<0.004
07/31/02		6.9	120	5.9	<0.10	<0.011	<0.004
08/02/02		7.0	140	5.3	<0.10	<0.011	<0.004
08/05/02		6.8	130	6.0	<0.10	<0.011	<0.004
08/07/02		7.1	100	7.4	<0.10	<0.011	<0.004
08/09/02		7.1	110	7.5	<0.10	<0.011	<0.004
08/12/02		7.1	120	6.7	<0.10	<0.011	<0.004
08/12/02	Rep	7.0	120	6.7	<0.10	<0.011	<0.004
08/14/02		7.2	110	6.9	<0.10	<0.011	<0.004
08/16/02		6.9	130	6.0	<0.10	<0.011	<0.004
08/19/02		6.9	130	5.8	<0.10	<0.011	<0.004
08/21/02		7.0	100	7.2	<0.10	<0.011	<0.004
08/23/02		6.9	110	6.1	<0.10	<0.011	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
08/26/02		6.9	120	4.7	<0.10	<0.011	<0.004
08/28/02		6.9	100	5.3	<0.10	<0.011	<0.004
08/30/02		6.9	120	5.4	<0.10	<0.011	<0.004
09/03/02		6.9	120	4.1	<0.10	<0.011	<0.004
09/04/02		6.8	100	4.8	<0.10	<0.011	<0.004
09/04/02	Rep	6.8	100	4.7	<0.10	<0.011	<0.004
09/06/02		6.9	120	5.2	<0.10	<0.011	<0.004
09/09/02		6.7	110	5.2	<0.10	<0.011	<0.004
09/11/02		6.8	97	5.2	<0.10	<0.011	<0.004
09/13/02		6.9	110	4.6	<0.10	<0.011	<0.004
09/16/02		6.7	110	3.4	<0.10	<0.011	<0.004
09/18/02		6.7	96	5.0	<0.10	<0.011	<0.004
09/20/02		6.8	110	4.5	<0.10	<0.011	<0.004
09/23/02		6.8	120	3.4	<0.10	<0.011	<0.004
09/25/02		6.7	60	3.0	<0.10	0.012	<0.004
09/27/02		6.8	100	4.4	<0.10	0.012	<0.004
09/30/02		6.7	92	5.4	<0.10	0.12	<0.004
10/02/02		6.8	85	6.3	<0.10	0.12	<0.004
10/02/02	Rep	6.8	86	6.1	<0.10	0.12	<0.004
10/04/02		6.8	82	5.3	<0.10	<0.011	<0.004
10/07/02		6.8	77	6.8	<0.10	0.011	<0.004
10/09/02		7.0	88	7.2	<0.10	<0.011	<0.004
10/11/02		6.8	93	7.4	<0.10	0.014	<0.004
10/14/02		6.8	74	6.9	<0.10	0.013	<0.004
10/16/02		6.8	78	7.0	<0.10	0.011	<0.004
10/18/02		6.8	81	7.2	<0.10	<0.011	<0.004
10/21/02		6.7	78	6.8	<0.10	0.012	<0.004
10/23/02		6.7	72	6.6	<0.10	0.012	<0.004
10/25/02		6.8	82	7.5	<0.10	0.012	<0.004
10/28/02		6.8	77	8.1	<0.10	<0.011	<0.004
10/30/02		6.8	83	8.4	<0.10	<0.011	<0.004
11/01/02		7.0	88	8.8	<0.10	<0.011	<0.004
11/04/02		6.9	78	9.3	<0.10	0.015	<0.004
11/06/02		6.9	73	9.5	<0.10	<0.011	<0.004
11/08/02		6.0	31	8.6	0.31	0.28	<0.004
11/11/02		6.4	100	7.3	0.44	0.67	<0.004
11/13/02		6.6	84	6.5	<0.10	0.12	<0.004
11/15/02		6.8	86	8.2	<0.10	0.039	<0.004
11/18/02		6.9	88	9.3	<0.10	0.026	<0.004
11/20/02		6.8	81	9.0	<0.10	0.025	<0.004
11/22/02		6.9	88	8.4	<0.10	0.022	<0.004
11/25/02		7.1	93	9.2	<0.10	0.022	<0.004
11/26/02		6.9	82	9.3	<0.10	0.020	<0.004
11/27/02		6.9	84	9.9	<0.10	0.025	<0.004
12/02/02		7.0	80	10	<0.10	0.023	<0.004
12/04/02		6.9	84	10	<0.10	0.031	<0.004
12/04/02	Rep	7.0	85	9.9	<0.10	0.029	<0.004
12/06/02		6.9	89	9.8	<0.10	0.035	<0.004
12/09/02		6.8	88	9.6	<0.10	0.034	<0.004
12/11/02		6.4	69	8.1	0.31	0.83	<0.004
12/13/02		6.6	30	10	0.31	0.59	<0.004
12/16/02		6.2	24	9.6	<0.10	0.27	<0.004
12/18/02		6.5	67	10	<0.10	0.44	<0.004
12/20/02		6.5	46	10	0.10	0.44	<0.004
12/23/02		6.9	63	11	<0.10	0.20	<0.004
2003							
01/02/03		6.6	75	11	<0.10	0.29	<0.004
01/03/03		6.6	72	10	<0.10	0.083	<0.004
01/06/03		6.8	78	9.6	<0.10	0.035	<0.004
01/06/03	Rep	6.8	80	9.5	<0.10	0.038	<0.004
01/08/03		6.8	83	9.8	<0.10	0.032	<0.004
01/10/03		6.3	41	9.3	0.11	0.46	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
01/13/03		6.4	69	8.4	<0.10	0.19	<0.004
01/15/03		6.7	88	8.6	<0.10	0.05	<0.004
01/17/03		6.9	91	10	<0.10	0.027	<0.004
01/20/03		7.4	91	9.9	<0.10	0.031	<0.004
01/22/03		6.9	38	8.8	<0.10	0.34	<0.004
01/24/03		7.1	57	8.4	<0.10	0.28	<0.004
01/27/03		7.3	81	9.6	<0.10	0.038	<0.004
01/29/03		7.5	89	11	<0.10	0.028	<0.004
01/31/03		7.2	91	8.4	<0.10	0.022	<0.004
02/03/03		7.5	83	13	<0.10	0.013	<0.004
02/05/03		7.4	89	12	<0.10	0.016	<0.004
02/07/03		7.4	90	12	<0.10	0.027	<0.004
02/07/03	Rep	7.4	90	12	<0.10	0.027	<0.004
02/10/03		7.5	83	12	<0.10	0.016	<0.004
02/12/03		7.4	84	9.9	<0.10	0.027	<0.004
02/14/03		6.9	41	9.5	<0.10	0.30	<0.004
02/17/03		7.2	57	10	<0.10	0.13	<0.004
02/19/03		7.2	80	9.6	<0.10	0.05	<0.004
02/21/03		7.4	73	11	<0.10	0.044	<0.004
02/24/03		7.4	76	10	<0.10	0.032	<0.004
02/26/03		7.2	77	10	<0.10	0.037	<0.004
02/28/03		7.4	74	NA	NA	NA	<0.004
03/03/03		7.8	70	11	<0.10	0.017	<0.004
03/05/03		7.3	76	11	<0.10	0.014	<0.004
03/05/03	Rep	7.4	76	11	<0.10	0.015	<0.004
03/07/03		7.2	78	10	<0.10	0.031	<0.004
03/10/03		7.6	74	11	<0.10	0.021	<0.004
03/12/03		7.2	86	8.1	<0.10	0.039	<0.004
03/14/03		7.5	85	9.9	<0.10	<0.011	<0.004
03/17/03		7.0	36	9.4	<0.10	0.25	<0.004
03/19/03		7.3	77	10	<0.10	0.054	<0.004
03/21/03		7.1	61	9.7	<0.10	0.12	<0.004
03/24/03		7.1	42	11	<0.10	0.21	<0.004
03/26/03		7.2	84	8.4	<0.10	0.031	<0.004
03/28/03		7.3	86	10	<0.10	<0.011	<0.004
03/31/03		7.5	86	10	<0.10	<0.011	<0.004
04/02/03		7.6	85	11	<0.10	0.051	<0.004
04/04/03		6.8	24	10	0.16	0.40	<0.004
04/04/03	Rep	6.8	24	10	0.16	0.41	<0.004
04/07/03		7.4	83	11	<0.10	0.012	<0.004
04/08/03		7.3	91	8.7	<0.10	0.014	<0.004
04/09/03		7.3	97	8.4	<0.10	<0.011	<0.004
04/11/03		7.4	99	9.3	<0.10	<0.011	<0.004
04/14/03		7.0	53	9.3	<0.10	0.32	<0.004
04/16/03		7.2	92	8.6	0.13	0.57	<0.004
04/18/03		6.8	42	8.9	0.11	0.62	<0.004
04/21/03		7.3	84	9.3	<0.10	0.019	<0.004
04/23/03		7.2	74	9.0	<0.10	0.018	<0.004
04/25/03		6.9	39	9.0	<0.10	0.30	<0.004
04/28/03		7.0	30	8.4	<0.10	0.25	<0.004
04/30/03		7.1	80	9.6	<0.10	0.052	<0.004
05/02/03		7.3	92	7.5	<0.10	0.033	<0.004
05/05/03		7.5	68	9.3	<0.10	0.043	<0.004
05/05/03	Rep	7.5	68	9.2	<0.10	0.039	<0.004
05/07/03		7.6	90	9.8	<0.10	0.012	<0.004
05/09/03		6.9	40	9.2	<0.10	0.35	<0.004
05/12/03		7.3	91	8.7	<0.10	0.012	<0.004
05/14/03		7.4	110	8.1	<0.10	0.012	<0.004
05/16/03		7.3	110	9.2	<0.10	<0.011	<0.004
05/19/03		7.8	87	11	<0.10	<0.011	<0.004
05/21/03		7.5	110	8.7	<0.10	0.013	<0.004
05/23/03		7.4	120	8.0	<0.10	<0.011	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
05/27/03		7.8	120	9.9	<0.10	<0.011	<0.004
05/28/03		7.4	110	8.3	<0.10	<0.011	<0.004
05/30/03		7.3	120	9.0	<0.10	<0.011	<0.004
06/02/03		7.0	99	6.4	<0.10	<0.011	<0.004
06/02/03	Rep	7.0	100	6.5	<0.10	<0.011	<0.004
06/04/03		7.8	120	8.7	<0.10	<0.011	<0.004
06/06/03		7.4	130	7.3	<0.10	<0.011	<0.004
06/09/03		7.2	96	7.2	<0.10	<0.011	<0.004
06/11/03		7.3	120	6.7	<0.10	<0.011	<0.004
06/13/03		7.4	120	6.0	<0.10	<0.011	<0.004
06/16/03		7.2	92	7.9	<0.10	<0.011	<0.004
06/18/03		7.3	140	6.8	<0.10	<0.011	<0.004
06/20/03		7.3	120	7.6	<0.10	0.013	<0.004
06/23/03		7.3	92	7.7	<0.10	<0.011	<0.004
06/25/03		7.3	120	7.3	<0.10	<0.011	<0.004
06/27/03		7.3	130	7.0	<0.10	<0.011	<0.004
06/30/03		7.2	88	7.0	<0.10	<0.011	<0.004
07/02/03		7.3	120	7.5	<0.10	<0.011	<0.004
07/03/03		7.2	110	6.9	<0.10	<0.011	<0.004
07/07/03		7.1	88	7.2	<0.10	<0.011	<0.004
07/07/03	Rep	7.1	89	7.1	<0.10	<0.011	<0.004
07/09/03		7.2	110	6.2	<0.10	<0.011	<0.004
07/11/03		7.2	120	7.6	<0.10	<0.011	<0.004
07/14/03		7.1	88	6.3	<0.10	<0.011	<0.004
07/16/03		7.2	130	5.8	<0.10	<0.011	<0.004
07/18/03		7.3	120	7.2	<0.10	0.020	<0.004
07/21/03		7.1	91	6.4	<0.10	<0.011	<0.004
07/23/03		7.1	120	5.4	<0.10	<0.011	<0.004
07/25/03		7.0	110	5.4	<0.10	<0.011	<0.004
07/28/03		7.1	86	5.6	<0.10	<0.011	<0.004
07/30/03		7.1	100	5.6	<0.10	<0.011	<0.004
08/01/03		7.1	120	6.4	<0.10	<0.011	<0.004
08/04/03		7.0	84	6.1	<0.10	0.014	<0.004
08/06/03		7.3	82	8.0	<0.10	<0.011	<0.004
08/08/03		7.3	110	6.8	<0.10	<0.011	<0.004
08/11/03		7.0	85	7.5	<0.10	<0.011	<0.004
08/13/03		7.1	110	6.0	<0.10	<0.011	<0.004
08/15/03		7.1	120	5.7	<0.10	<0.011	<0.004
08/18/03		7.0	97	5.5	<0.10	<0.011	<0.004
08/18/03	Rep	7.0	98	5.5	<0.10	0.018	<0.004
08/20/03		7.2	130	5.4	<0.10	<0.011	<0.004
08/22/03		6.6	94	3.9	0.99	1.6	<0.004
08/25/03		7.0	87	4.7	<0.10	0.012	<0.004
08/27/03		7.3	120	6.7	<0.10	<0.011	<0.004
08/29/03		7.1	150	5.3	<0.10	<0.011	<0.004
09/02/03		7.1	150	8.2	<0.10	<0.011	<0.004
09/03/03		6.9	160	0.35	<0.10	<0.011	<0.004
09/05/03		6.8	150	1.4	<0.10	<0.011	<0.004
09/08/03		6.8	140	1.7	<0.10	<0.011	<0.004
09/08/03	Rep	6.8	140	1.6	<0.10	<0.011	<0.004
09/10/03		6.4	140	<0.20	<0.10	<0.011	<0.004
09/12/03		6.7	120	2.5	<0.10	0.031	<0.004
09/15/03		7.4	270	3.2	<0.10	<0.011	<0.004
09/22/03		7.2	180	2.5	<0.10	<0.011	<0.004
09/29/03		7.1	180	1.8	<0.10	<0.011	<0.004
10/06/03		7.4	160	5.0	<0.10	<0.011	<0.004
10/06/03	Rep	7.4	160	4.9	<0.10	<0.011	<0.004
10/13/03		7.6	160	NA	NA	NA	<0.004
10/20/03		7.7	160	4.2	<0.10	<0.011	<0.004
10/27/03		7.4	160	4.9	<0.10	<0.011	<0.004
11/03/03		6.3	47	7.5	0.56	1.0	<0.004
11/05/03		6.3	83	6.5	0.78	0.35	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
11/07/03		6.6	60	6.4	0.76	1.0	<0.004
11/10/03		6.4	49	5.3	0.48	0.25	<0.004
11/12/03		6.3	65	6.0	0.68	0.15	<0.004
11/14/03		6.4	64	6.1	0.64	0.093	<0.004
11/17/03		6.5	60	5.6	0.48	0.33	<0.004
11/17/03	Rep	6.5	61	5.4	0.48	0.34	<0.004
11/19/03		6.4	64	5.2	0.50	0.19	<0.004
11/21/03		6.5	69	5.8	0.49	0.084	<0.004
11/24/03		6.5	69	11	0.14	0.035	<0.004
11/25/03		6.6	71	12	<0.10	0.020	<0.004
11/26/03		6.7	69	12	<0.10	<0.011	<0.004
12/01/03		6.7	62	8.2	0.59	0.98	<0.004
12/01/03	Rep	6.7	62	8.3	0.60	0.98	<0.004
12/03/03		6.4	43	4.6	0.36	0.60	<0.004
12/05/03		6.6	46	7.5	0.28	0.59	<0.004
12/08/03		6.4	46	5.9	0.24	0.68	<0.004
12/10/03		6.5	30	4.7	0.24	0.64	<0.004
12/12/03		6.0	36	6.7	0.11	0.92	<0.004
12/15/03		6.1	33	8.1	<0.10	0.93	<0.004
12/17/03		6.4	39	10	<0.10	0.98	<0.004
12/19/03		6.2	44	7.2	<0.10	1.0	<0.004
12/22/03		6.4	39	8.0	<0.10	0.91	<0.004
12/23/03		6.3	42	5.6	<0.10	0.80	<0.004
2004							
01/05/04		6.2	46	9.6	<0.10	0.74	<0.004
01/05/04	Rep	6.2	46	9.5	<0.10	0.73	<0.004
01/07/04		6.3	22	11	<0.10	0.45	<0.004
01/09/04		6.2	46	7.0	<0.10	0.54	<0.004
01/12/04		6.3	52	6.5	<0.10	0.33	<0.004
01/14/04		6.1	55	6.9	<0.10	0.16	<0.004
01/16/04		6.1	57	6.8	0.11	0.097	<0.004
01/19/04		6.3	54	8.7	<0.10	0.064	<0.004
01/21/04		6.3	53	9.4	<0.10	0.042	<0.004
01/23/04		6.5	52	12	<0.10	<0.023	<0.004
01/26/04		6.2	50	8.6	<0.10	1.4	<0.004
01/28/04		6.0	28	9.1	<0.10	0.68	<0.004
01/30/04		6.1	38	7.2	<0.10	0.58	<0.004
02/02/04		6.1	42	8.4	<0.10	0.36	<0.004
02/04/04		6.2	36	9.1	<0.10	0.57	<0.004
02/06/04		6.3	45	9.7	<0.10	0.37	<0.004
02/09/04		6.2	41	8.4	<0.10	0.35	<0.004
02/09/04	Rep	6.3	42	8.2	<0.10	0.35	<0.004
02/11/04		6.4	39	11	<0.10	0.24	<0.004
02/13/04		6.3	41	7.7	<0.10	0.16	<0.004
02/16/04		6.4	64	8.1	<0.10	0.27	<0.004
02/18/04		6.2	10	10	<0.10	0.092	<0.004
02/20/04		6.5	46	7.5	<0.10	0.23	<0.004
02/23/04		6.3	47	6.6	<0.10	0.58	<0.004
02/25/04		6.4	30	10	0.19	0.41	<0.004
02/27/04		6.7	47	10	<0.10	0.32	<0.004
03/01/04		6.3	54	6.1	<0.10	0.052	<0.004
03/03/04		6.4	41	7.6	<0.10	0.40	<0.004
03/03/04	Rep	6.4	42	7.6	<0.10	0.38	<0.004
03/05/04		6.7	52	6.7	<0.10	0.062	<0.004
03/08/04		6.4	51	7.3	<0.10	0.025	<0.004
03/10/04		6.4	66	5.5	<0.10	0.073	<0.004
03/12/04		6.4	77	5.7	<0.10	0.033	<0.004
03/15/04		6.7	83	8.3	<0.10	<0.023	<0.004
03/17/04		6.8	81	8.3	<0.10	0.031	<0.004
03/19/04		6.5	130	5.6	<0.10	0.093	<0.004
03/22/04		6.9	100	8.9	<0.10	<0.023	<0.004
03/24/04		8.4	110	12	<0.10	<0.023	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
03/26/04		6.4	61	8.4	0.18	0.72	<0.004
03/29/04		6.5	70	7.0	<0.10	0.24	<0.004
03/31/04		8.6	74	6.8	<0.10	<0.023	<0.004
04/02/04		6.7	81	9.8	<0.10	0.036	<0.004
04/05/04		6.4	100	6.1	<0.10	<0.023	<0.004
04/05/04	Rep	6.4	100	6.0	<0.10	<0.023	<0.004
04/07/04		6.1	120	6.5	<0.10	0.31	<0.004
04/09/04		6.3	110	6.8	<0.10	<0.023	<0.004
04/12/04		7.2	190	5.5	<0.10	<0.023	<0.004
04/19/04		7.2	97	7.3	<0.10	0.10	<0.004
04/26/04		7.6	160	7.4	<0.10	0.56	<0.004
05/03/04		7.2	180	3.2	<0.10	<0.023	<0.004
05/03/04	Rep	7.1	180	3.8	0.11	<0.023	<0.004
05/05/04		6.4	150	3.0	0.23	0.40	<0.004
05/07/04		6.3	150	2.5	0.22	0.056	<0.004
05/10/04		6.2	160	3.5	<0.10	<0.023	<0.004
05/12/04		6.3	170	4.3	<0.10	<0.023	<0.004
05/14/04		6.2	170	4.1	<0.10	<0.023	<0.004
05/17/04		6.3	170	5.5	0.12	<0.023	<0.004
05/24/04		8.0	110	7.5	<0.10	0.19	<0.004
05/28/04		6.8	130	6.1	0.10	0.49	<0.004
06/01/04		6.4	140	3.3	<0.10	<0.023	<0.004
06/02/04		6.4	140	3.5	<0.10	<0.023	<0.004
06/02/04	Rep	6.4	140	3.6	<0.10	<0.023	<0.004
06/04/04		6.3	140	3.9	<0.10	<0.023	<0.004
06/07/04		6.2	140	3.7	<0.10	<0.023	<0.004
06/09/04		6.5	140	4.0	<0.10	<0.023	<0.004
06/11/04		6.7	140	5.5	<0.10	<0.023	<0.004
06/14/04		7.8	110	7.0	<0.10	0.19	<0.004
06/16/04		NA	NA	NA	NA	NA	**0.0053**
06/21/04		7.9	250	7.2	<0.10	0.47	<0.004
06/28/04		7.9	300	6.9	<0.10	0.62	<0.004
07/06/04		8.1	290	6.5	<0.10	0.63	<0.004
07/12/04		8.2	310	7.3	<0.10	0.54	<0.004
07/19/04		8.0	340	6.0	<0.10	0.36	<0.004
07/26/04		7.9	92	7.7	<0.10	0.088	<0.004
08/02/04		7.6	270	5.8	<0.10	0.38	<0.004
08/09/04		8.2	370	6.4	<0.10	1.6	<0.004
08/09/04	Rep	8.2	360	6.7	<0.10	1.6	<0.004
08/16/04		7.6	260	4.9	<0.10	0.85	<0.004
08/23/04		7.2	74	6.9	<0.10	<0.023	<0.004
08/30/04		7.0	69	4.8	<0.10	0.026	<0.004
09/07/04		6.6	67	5.3	<0.10	<0.023	<0.004
09/07/04	Rep	6.7	67	5.3	<0.10	<0.023	<0.004
09/13/04		6.6	66	5.9	<0.10	<0.023	<0.004
09/20/04		6.6	78	5.2	<0.10	0.096	<0.004
09/22/04		**5.7**	160	2.6	0.34	1.2	<0.004
09/24/04		**5.6**	100	3.8	<0.10	<0.023	<0.004
09/27/04		**5.9**	98	4.2	0.10	<0.023	<0.004
09/29/04		6.4	100	4.6	0.14	0.082	<0.004
10/01/04		6.4	110	4.1	0.44	0.040	<0.004
10/04/04		6.5	160	3.5	0.13	0.035	<0.004
10/06/04		6.8	130	7.2	0.27	0.041	<0.004
10/08/04		6.7	56	4.3	0.19	0.051	<0.004
10/11/04		6.7	100	4.8	<0.10	0.064	<0.004
10/11/04	Rep	6.7	100	4.8	0.12	0.057	<0.004
10/13/04		6.7	100	6.0	<0.10	0.051	<0.004
10/15/04		6.6	100	4.5	0.10	0.12	<0.004
10/18/04		6.3	160	3.3	0.93	3.1	<0.004
10/20/04		6.1	30	8.2	1.1	0.56	<0.004
10/22/04		6.4	64	6.9	0.11	0.58	<0.004

Table 6-20 *Results of Miscellaneous Analysis of All Surface Water Samples Collected at Sampling Station S-2 January 2000 Through December 2004 RI/FS for PGOU Soil Sites in Areas 20, 21, and 49 Aerojet Superfund Site Sacramento County, California*

Sample Date		pH (units)	Electrical Conductivity (µmhos)	Dissolved Oxygen (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Perchlorate (mg/L)
WQO:		**6.0 - 9.0**	**NA**	**NA**	**4.9**	**10**	**0.006**
10/25/04		6.3	78	5.6	0.14	1.2	<0.004
10/27/04		6.6	53	9.0	<0.10	0.83	<0.004
10/29/04		6.5	66	7.5	<0.10	0.23	<0.004
11/01/04		6.6	74	8.0	<0.10	0.058	<0.004
11/01/04	Rep	6.7	74	8.5	<0.10	0.061	<0.004
11/03/04		6.6	78	7.3	<0.10	0.36	<0.004
11/05/04		6.4	56	7.8	<0.10	0.84	<0.004
11/08/04		6.7	65	8.2	<0.10	0.059	<0.004
11/10/04		6.6	72	7.3	<0.10	0.50	<0.004
11/12/04		6.3	41	7.5	<0.10	0.70	<0.004
11/15/04		6.6	67	7.0	<0.10	0.12	<0.004
11/17/04		6.7	69	7.7	<0.10	0.038	<0.004
11/19/04		6.7	76	6.8	<0.10	0.069	<0.004
11/22/04		6.8	130	9.0	<0.10	0.028	<0.004
11/23/04		6.9	110	10	<0.10	<0.023	<0.004
11/24/04		6.8	80	9.7	<0.10	<0.023	<0.004
11/29/04		6.5	58	10	<0.10	1.3	<0.004
12/01/04		6.8	67	11	<0.10	0.20	<0.004
12/01/04	Rep	6.9	66	10	<0.10	0.20	<0.004
12/03/04		6.7	74	10	<0.10	0.045	<0.004
12/06/04		6.8	71	9.2	<0.10	0.029	<0.004
12/08/04		6.2	14	10	<0.10	0.13	<0.004
12/10/04		6.6	69	7.1	<0.10	0.73	<0.004
12/13/04		6.7	79	7.2	<0.10	0.11	<0.004
12/15/04		6.8	77	7.4	<0.10	0.11	<0.004
12/17/04		6.7	75	9.2	<0.10	0.092	<0.004
12/20/04		6.7	78	8.8	<0.10	0.073	<0.004
12/21/04		6.8	81	9.1	<0.10	0.073	<0.004
12/22/04		6.8	84	9.4	<0.10	0.039	<0.004

Notes & Key:

< = Less than; not detected above the indicated Practical Quantitation Limit.
µmhos = Micromhos
mg/L = Milligrams per liter
SA = Semi-annual
Rep = Replicate
Qtly = Quarterly
NA = Not analyzed / Not available

Table 6-21 Results of Miscellaneous Analysis of Surface Water Samples Collected Quarterly at Sampling Station S-2
January 2000 Through December 2004
RI/FS for PGOU Soil Sites in Areas 20, 21, and 49
Aerojet Superfund Site
Sacramento County, California

Sample Date	Temp (°C)	Turbidity (ntu)	Total Hardness (as Caco3) (mg/L)	Total Hardness, Dissolved (mg/L)	Chemical Oxygen Demand (mg/L)	Total Organic Halogen (µg/L)	Total Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Chlorine as CI (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Organic Kjeldahl Nitrogen (mg/L)	Oil and Grease (mg/L)
WQO:	**NA**	**75**	**NA**	**NA**	**40[1]**	**NA**	**150[1]**	**500[1]**	**0.02[1,2]**	**NA**	**NA**	**NA**
2000												
04/10/00	19	5.5	NA	NA	13	61	9.2	59	<0.01	0.21	0.21	<10
07/10/00	28	9.8	31	22	10	71	120	63	<0.01	0.26	0.26	<10
10/09/00	18	9.1	NA	NA	6.4	140	47	62	<0.01	0.70	0.70	<10
2001												
01/08/01	9.5	14	4.6	4.0	6.9	<30	<6	<30	<0.01	0.46	0.24	<10
04/09/01	11	8.3	NA	NA	6.8	49	33	52	<0.01	0.36	0.32	<10
07/05/01	24	3.1	34	32	10	66	10	63	<0.01	0.46	0.45	<10
10/03/01	22	11	NA	NA	4.1	90	41	74	0.014	0.45	0.41	<10
2002												
01/23/02	6.0	5.5	32	31	3.6	110	<6.0	63	0.027	0.19	0.16	<10
04/15/02	15	3.6	NA	NA	23	110	<6.0	67	<0.010	0.38	0.31	<10
07/02/02	25	2.4	33	31	3.9	35	<6.0	66	<0.01	0.18	0.15	<10
10/07/02	15.1	14	NA	NA	8.5	39	12	53	0.011	0.30	0.28	<10
2003												
01/08/03	8.5	3.5	27	26	6.1	71	<6	55	<0.01	0.17	0.13	<10
04/07/03	12.5	20	NA	NA	5.7	86	24	52	<0.01	0.32	0.28	<10
07/02/03	19	4.2	29	29	16	NA	<6.0	85	<0.01	0.39	0.37	<10
10/13/03	14.4	59	NA	NA	39	47	35	150	<0.01	0.41	0.39	<10
2004												
01/12/04	10	24	16	16	16		7.9	61	<0.01	0.27	0.22	<10
04/06/04	17.5	45	NA	NA	38	<30	32	100	<0.01	0.74	0.71	<11
07/12/04	20.3	13	50	46	64	180	13	250	0.021	1.1	1.0	<10
10/04/04	16.1	5.5	NA	NA	35	30	<6.0	110	<0.01	0.91 j	0.46 j	<10

Notes & Key:

*At time of analysis.
1 = Daily maximum
2 = Effluent limitation for chlorine residual is 0.01 mg/L monthly average
< = Less than; not detected above the indicated Practical Quantitation Limit.
µmhos = Micromhos
mg/L = Milligrams per liter
µg/L = Micrograms per liter

°C = Degrees Celsius
SA = Semi-annual
REP = Replicate
Qtly = Quarterly
NA = Not analyzed / Not available / Not applicable
WQO = Water quality objective

Laboratory Qualifiers:

j = Reported concentration is an estimate. Concentration between method detection limit and practical quantitation limit.

Table 7-1 Summary of Risk Assessment Results for Areas 20 and 21
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

				Risk Threshold Exceedance						Risk Threshold Exceedance						Risk Threshold Exceedance					
				Residential						Commercial						Construction					
				Soil			Soil Vapor [1]			Soil			Soil Vapor [1]			Soil			Soil Vapor [2]		
Potential Source Site	Description and Historical Operations	Current Land Use	Planned Future Land Use	HI	ILCR	Lead	HI	ILCR	Comment	HI	ILCR	Lead	HI	ILCR	Comment	HI	ILCR	Lead	HI	ILCR	Comment
4D	**Area 20 Surface Water Drainage System** Section of unlined ditch south of Building 20022 and east of Building 20024	Vacant	Commercial	--	--	--	--	--		--	--	--	--	--		--	--	--	--	--	
11D	**Area 20 Surface Water Drainage System** Unlined ditches north and east of Building 20022 and 170-foot section of ditch north of Building 20B73 and underground culvert	Vacant	Commercial	--	Y	Y	--	Y	11D-SNS10 - PCBs 11D-SNS04 - Lead 11D-SP22 @ 10 feet = Chloroform	--	--	--	--	--		--	--	--	--	--	
10D	**Area 20 Surface Water Drainage System** Unlined ditch north of Buildings 20001 and 20002	Vacant	Commercial	Y	Y	Y	--	--	10D-SNS03 - Silver, mercury and lead; 10D-SNS21 - Iron; Also, 10D-SNS25 had a total HI of 1.1 but each constituent HI was below 1. Multiple locations with PCBs	--	Y	--	--	--	10D-SNS26, 10D-SNS31, 10D-SNS34, and 10D-SNS36 - PCBs	Y	Y	--	--	--	10D-SNS03 - Total HI of 1.1, but no individual HQs above 1.0 10D-SNS06 - Hexavalent chromium
7D	**Area 20 Surface Water Drainage System** Gunite-lined ditch north of Building 20009	Vacant	Residential	--	--	Y	--	Y	07D-CS01 - Lead 07D-SP12 and 07D-SP15 @ 10 feet - PCE 07D-SP13 @ 10 feet - Chloroform and PCE	--	--	--	--	--		--	--	--	--	--	
5D	**Area 20 Surface Water Drainage System** **Section of unlined ditch between northern property line and confluence with potential source site 7D**	Vacant	Residential	--	--	--	--	--		--	--	--	--	--		--	--	--	--	--	
FCS	**Former Company Store** Freon 113 discovered during Stage 1 RI attributed to refrigeration units at Former Company Store	Vacant	Residential	--	--	--	--	Y	Multiple locations with PCE and Chloroform	--	--	--	--	Y	FCS-SP03 and FCS-SP17 - Chloroform FCS-SP07 and FCS-SP10 - PCE	--	--	--	--	--	
C29	**Area of Potentially Disturbed Soil** Identified by USEPA in 1957 aerial photo as possible burial site	Vacant	Residential	--	--	--	--	--		--	--	--	--	--		--	--	--	--	--	
D(e)	**Area 20 Surface Water Drainage System** Unlined ditch north of Buildings 20001 and 20002	Vacant	Commercial	--	--	--	--	--		--	--	--	--	--		--	--	--	--	--	
C32	**Debris Site** Debris believed to be due to dumping allowed by owner of land adjacent to Aerojet boundary	Vacant	Commercial	Y	--	Y	--	--	C32-SS02 @ 0.5; Iron = 10,500 mg/kg C32-SS01 at 0.5; Lead = 175 mg/kg	--	--	--	--	--		--	--	--	--	--	
GET D	**GET D Treatment Facility** Treatment of extracted groundwater	Vacant	Residential	--	--	--	--	--		--	--	--	--	--		--	--	--	--	--	
C41	**Former Tank Car Loading Area** Facility used to load and unload liquid chemicals and wastes to railroad tank cars	Vacant	Residential	--	--	--	--	--		--	--	--	--	--		--	--	--	--	--	

Notes and Key:

Unrestricted reuse = The health risk assessment concluded residents are unlikely to experience unacceptable lifetime cancer or noncancer risks from constituents in soil and soil vapor. Therefore, these sites are not included in the Feasibility Study

1 = Soil vapor migration into indoor air pathway
2 = Soil vapor migration into ambient air pathway
-- = Risk below regulatory thresholds or no constituents above screening levels
Y = Exceed regulatory thresholds
HI = Child hazard index
HQ = Hazard quotient
ILCR = Incremental lifetime cancer risk
mg/kg = Milligrams per kilogram
PCBs = Polychlorinated biphenyls
PCE = Tetrachloroethene
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study

Table 7-2 Summary of Risk Assessment Results for Area 49
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

				Risk Threshold Exceedance						Risk Threshold Exceedance					
				Residential						Commercial					
				Soil			Soil Vapor [1]			Soil			Soil Vapor [1]		
Site Number	Description and Historical Operations	Current Land Use	Planned Future Land Use	HI	ILCR	Lead	HI	ILCR	Comment	HI	ILCR	Lead	HI	ILCR	Comment
32D	**Area 49 Surface Water Drainage Ditch System** Unlined ditch 2 Sumps & UST - Bldg 49008 3 Acid Storage Tanks - Bldgs 49019/49092 6 Storage Tanks - Bldgs 49090 & 49091	Vacant	Roadway	--	--	--	Y	Y	Multiple locations exceed for TCE, PCE, CF,and cis/trans 1-2-DCE	--	--	--	--	Y	Multiple locations exceed for TCE and PCE
34D	**Area 49 Surface Water Drainage System** Surface Water Runoff	Vacant	Roadway	--	--	--	--	Y	Multiple locations exceed for TCE, PCE, and chloroform	--	--	--	--	Y	34D-SP01 - Chloroform 34D-SP08 - PCE and TCE
35D	**Large Degreaser Sump at Building 49014** Building 49014 is Inert Chamber Processing 2 septic tanks - Bldgs 49006 & 49014	Vacant	Roadway	--	--	--	Y	Y	Multiple locations exceed for TCE, PCE, 1,1-DCA, and cis-1,2-DCE. Also, 35D-SP22 at 20ft - Benzene	--	--	--	Y	Y	Multiple locations exceed for TCE, PCE, 1,1-DCA, and cis-1,2-DCE.
38D	**Area 49 Surface Water Drainage System** Surface Water Runoff Sump & UST - Bldg 49018	Vacant	Roadway	--	--	--	Y	Y	Multiple locations exceed for TCE, PCE, 1,2-DCA, 1,1-DCE, cis/trans-1,2-DCE, CF, and vinyl chloride	--	--	--	Y	Y	Multiple locations exceed for TCE, PCE, 1,2-DCA, cis/trans-1,2-DCE, CF, and vinyl chloride
33D	**Chemical Waste Sump at Building 49010** Chemical Sampling	Commercial	Commercial	--	--	--	--	Y	33D-SP05 at 5 and 10 ft - TCE. Multiple locations for chloroform	--	--	--	--	Y	33D-SP09 at 10 and 20 ft - CF
36D	**Abandoned Chemical Waste Tank, Degreaser Sump, and Septic Tank North Side of Building 49015** Tactical Process and Inert Chamber Processing	Commercial	Commercial	--	--	--	--	--	Soil vapor samples 36D-SP17, 36D-SP18, 36D-SP19, 36D-SP20 with TCE, PCE, and CF are related to Site 38D. The risks associated with these are included in the summary for Site 38D	--	--	--	--	--	
37D	**Waste Tank, Sump, and Septic Tank West End of Building 49016** Receiving, Inspection, Calibration, NDT, Repair Laboratory.	Commercial	Commercial	--	--	--	--	--	37D-SP08 at 10 ft - Total risk is 3E-6. TCE risk is at 1E-6, all other constituents below 1E-6	--	--	--	--	--	
39D	**Drum Storage Area** Bulk Chemical Storage	Vacant	Commercial	--	--	--	--	--		--	--	--	--	--	
Area 49 Septic Tanks	**Septic Tanks Associated with Buildings 49007, 49011, and 49022**	Vacant	Commercial	--	--	--	--	Y	49ST07-SP02 - Chloroform 49ST22-SP03 - Benzene 49ST11-SP03 - Total risk is 2E-6. Chloroform risk is at 1E-6, all other constituents below 1E-6	--	--	--	--	--	
C4	**Former Debris Site** Graded area with some domestic trash and debris.	Vacant	Residential	Y	Y	Y	--	--	C4-SNS02 - 2,3,7,8-TCDD, iron and lead C4-SNS01 and C4-SNS07 - Lead	--	--	--	--	--	
C10	**Concrete-lined Ditch and Surrounding Land** Ditch predates Aerojet use of site. Water flow in ditch is onto Aerojet property.	Vacant	Commercial	--	--	--	--	--		--	--	--	--	--	
C14	**Drainage Area and Open Land on Northern Boundary of Aerojet Site** Drainage ditch is historical dredge pit. Potentially received runoff from western portion of Area 49.	Vacant	Commercial	--	--	--	--	--		--	--	--	--	--	
C15	**Drainage Ditch and Low-Lying Area between Area 49 and Schnitzer Steel** Area received surface water runoff from west end of Area 49 and Schnitzer Steel	Vacant	Residential	--	--	--	--	--		--	--	--	--	--	
Multiple Buildings	**Potential Lead-Based Paint** Buildings 49001, 49002, 49003, 49004, 49020, 49021, 49023, 49026, 49011, and 49017	Commercial	Commercial	--	--	--	--	--		--	--	--	--	--	

Notes and Key:

Unrestricted reuse = The health risk assessment concluded residents are unlikely to experience unacceptable lifetime cancer or noncancer risks from constituents in soil and soil vapor. Therefore, these sites are not included in the Feasibility Study

1 = Soil vapor migration into indoor air pathway
2 = Soil vapor migration into ambient air pathway
-- = Risk below regulatory thresholds or no constituents above screening levels
Y = Exceed regulatory thresholds
Bldg = Building
D&F = Dioxins and furans
FS = Feasibility Study
HI = Child hazard index
HQ = Hazard quotient
ILCR = Incremental lifetime cancer risk
mg/kg = Milligrams per kilogram
NDT = Non-destructive testing
PCBs = Polychlorinated biphenyls
PCE = Tetrachloroethene
PGOU = Perimeter Groundwater Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
SVOC = Semivolatile organic compound
TPH = Total petroleum hydrocarbons
USEPA = United States Environmental Protection Agency
UST = Underground storage tank
VOC = Volatile organic compound

Table 7-2 *Summary of Risk Assessment Results for Area 49*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

				Risk Threshold Exceedance						Risk Threshold Exceedance					
				Construction						Maintenance					
				Soil			Soil Vapor [2]			Soil			Soil Vapor [2]		
Site Number	Description and Historical Operations	Current Land Use	Planned Future Land Use	HI	ILCR	Lead	HI	ILCR	Comment	HI	ILCR	Lead	HI	ILCR	Comment
32D	**Area 49 Surface Water Drainage Ditch System** Unlined ditch 2 Sumps & UST - Bldg 49008 3 Acid Storage Tanks - Bldgs 49019/49092 6 Storage Tanks - Bldgs 49090 & 49091	Vacant	Roadway	--	--	--	--	--		--	--	--	--	Y	32D-SP05 and 32D-SP06 - TCE
34D	**Area 49 Surface Water Drainage System** Surface Water Runoff	Vacant	Roadway	--	--	--	--	--		--	--	--	--	--	
35D	**Large Degreaser Sump at Building 49014** Building 49014 is Inert Chamber Processing 2 septic tanks - Bldgs 49006 & 49014	Vacant	Roadway	--	--	--	--	--		--	--	--	--	Y	35D-MV01, 35D-SP02, and 35D-SP17 - TCE
38D	**Area 49 Surface Water Drainage System** Surface Water Runoff Sump & UST - Bldg 49018	Vacant	Roadway	--	--	--	Y	Y	38D-SP05 at 10 ft - Vinyl chloride 38D-SP01 at 10 ft cis/trans-1,2-DCE, TCE, and vinyl chloride	--	--	--	Y	Y	Multiple locations with CF, cis/trans 1,2-DCE, 1,2-DCA, PCE, TCE, and vinyl chloride
33D	**Chemical Waste Sump at Building 49010** Chemical Sampling	Commercial	Commercial	--	--	--	--	--		--	--	--	--	--	
36D	**Abandoned Chemical Waste Tank, Degreaser Sump, and Septic Tank North Side of Building 49015** Tactical Process and Inert Chamber Processing	Commercial	Commercial	--	--	--	--	--		--	--	--	--	--	
37D	**Waste Tank, Sump, and Septic Tank West End of Building 49016** Receiving, Inspection, Calibration, NDT, Repair Laboratory.	Commercial	Commercial	--	--	--	--	--		--	--	--	--	--	
39D	**Drum Storage Area** Bulk Chemical Storage	Vacant	Commercial	--	--	--	--	--		--	--	--	--	--	
Area 49 Septic Tanks	**Septic Tanks Associated with Buildings 49007, 49011, and 49022**	Vacant	Commercial	--	--	--	--	--		--	--	--	--	--	
C4	**Former Debris Site** Graded area with some domestic trash and debris.	Vacant	Residential	--	--	--	--	--		--	--	--	--	--	
C10	**Concrete-lined Ditch and Surrounding Land** Ditch predates Aerojet use of site. Water flow in ditch is onto Aerojet property.	Vacant	Commercial	--	--	--	--	--		--	--	--	--	--	
C14	**Drainage Area and Open Land on Northern Boundary of Aerojet Site** Drainage ditch is historical dredge pit. Potentially received runoff from western portion of Area 49.	Vacant	Commercial	--	--	--	--	--		--	--	--	--	--	
C15	**Drainage Ditch and Low-Lying Area between Area 49 and Schnitzer Steel** Area received surface water runoff from west end of Area 49 and Schnitzer Steel	Vacant	Residential	--	--	--	--	--		--	--	--	--	--	
Multiple Buildings	**Potential Lead-Based Paint** Buildings 49001, 49002, 49003, 49004, 49020, 49021, 49023, 49026, 49011, and 49017	Commercial	Commercial	--	--	--	--	--		--	--	--	--	--	

Notes and Key:

Unrestricted reuse = The health risk assessment concluded residents are unlikely to experience unacceptable lifetime cancer or noncancer risks from constituents in soil and soil vapor. Therefore, these sites are not included in the Feasibility Study

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PCBs = Polychlorinated biphenyls
PCE = Tetrachloroethene
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TPH = Total petroleum hydrocarbons
USEPA = United States Environmental Protection Agency
UST = Underground storage tank
VOC = Volatile organic compound

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento, California

Chemical-Specific ARARs	Agency	Reference	Description	Comment
Hazardous Waste - Identification	USEPA/ DTSC	40 CFR 261/ 22 CCR 66261	Sets standards for classification of hazardous wastes. Establishes constituent levels for characteristic wastes and lists of wastes considered to be hazardous wastes.	All wastes generated during site activities must be evaluated to determine if they are hazardous.
Hazardous Waste - Land Disposal Restrictions (LDR)	USEPA/ DTSC	40 CFR 268/ 22 CCR 66268	Sets land disposal restriction constituent concentrations and treatment standards.	Hazardous wastes generated during site activities must meet LDR standards prior to land disposal.
Toxic Substances Control Act - PCB Spill Cleanup Requirements	USEPA	40 CFR 761 Subpart G	Sets cleanup requirements for PCB spills.	Establishes federal definition of "clean soil" as 1 mg/kg PCBs in soil for protection of human health.
Safe Drinking Water Act - Maximum Contaminant Levels (MCLs)	USEPA	40 CFR 141.11 - 141.16; 141.60 - 141.62	National Primary Drinking Water Standards - enforceable standards for specified contaminants in drinking water.	Applicable to water systems serving ove 25 persons. Relevant and appropriate for smaller systems. Establishes MCLs that apply to many of the site-related chemicals.
California Safe Drinking Water Act - MCLs	DHS	22 CCR 64444; 64473	California drinking water standards; primary and secondary MCLs for specified contaminants in drinking water.	It is Aerojet's opinion that this requirement is only applicable to public water systems at the point groundwater is delivered to a drinking water distribution system. Aerojet believs this requirement is relevant and appropriate for in situ groundwater that is or has a potential to be used for drinking water.
Porter-Cologne Water Quality Control Act	California Water Code Sections 13240, 13241, 13242, 13243	Water Quality Control Plan (Basin Plan) for the RWQCB, adopted in accordance with Sections 13240 and 13050	Establishes water quality objectives (WQOs), including narrative and numerical standards that protect the beneficial uses and WQOs of surface and ground waters in the region. Describes implementation plans and other control measures designed to ensure compliance with state-wide plans and policies and provide comprehensive water quality planning. Defines beneficial uses for surface water and groundwater in the basin. Establishes WQOs, including narrative and numeric standards, to protect the beneficial uses and WQOs of surface and ground waters in the region. Describes implementation plans and other control measures designed to ensure compliance with state-wide plans and policies. Establishes WQOs, including narrative and numeric standards, to protect the beneficial uses and WQOs of surface and ground waters in the region. Describes implementation plans and other control measures designed to ensure compliance with state-wide plans and policies.	Specific applicable portions of the Basin Plan include beneficial uses of affected water bodies and WQOs to protect those uses. Any activity, including, but not limited to, the discharge of contaminated soils or waters or in situ treatment or containment of contaminated soils or waters, must not result in actual water quality exceeding WQOs. Specific portions of the Basin Plan that are potentially applicable include: • Beneficial uses of waters in the basin including: *Ground water:* - Municipal and domestic supply (MUN) - Agricultural supply (AGR) - Industrial service supply (IND), and - Industrial process supply (PRO). Surface water: - MUN, AGR, IND; - Recreation (REC); and - Freshwater habitat (WARM) and (COLD), Wildlife habitat (WILD), Migration of aquatic organisms (MIGR), and Spawning (SPWN). • WQOs to protect these uses including: *Ground water:* - Numerical standards for bacteria, chemical constituents (MCLs), and radioactivity; and - Narrative standards for tastes and odors and toxicity. *Surface water:* - Numerical limits for bacteria, chemical constituents, dissolved oxygen, pH, radioactivity, salinity, temperature and turbidity; and - Narrative standards for biostimulatory substances, color, floating material, oil and grease, sediment, settleable material, suspended material, tastes and odor, and toxicity. Basin Plan also requires that any activity, including, but not limited to, the discharge of contaminated soils or waters or in situ treatment or containment of contaminated soils or waters, must not result in actual water quality exceeding WQOs.

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento, California

Chemical-Specific ARARs (cont.)	Agency	Reference	Description	Comment
Porter-Cologne Water Quality Control Act	California Water Code Sections 13240, 13241, 13242, 13243	RWQCO Basin Plan (cont.) "Policy for Application of Water Quality Objectives"	This policy requires achievement of WQOs at all points within a surface water or ground water resource for which beneficial uses have been designated rather than just at the points of use. This policy also explains how the RWQCB applies numeric and narrative WQOs to ensure the reasonable protection of beneficial uses of water. This policy also explains how the RWQCB applies Resolution No. 68-16 to promote the maintenance of existing high-quality waters.	This policy requires maintenance of background water quality to comply with the antidegradation policy. This policy requires WQOs to be the least stringent limits to be imposed on water quality and indicates that background represents the most stringent limits to be imposed on ambient water quality. The Basin Plan includes both numeric and narrative WQOs. This policy explains how the RWQCB evaluates compliance with the narrative WQOs through use of other standards, criteria, advisories, etc., as presented in "A Compilation of Water Quality Goals." This policy also presents a methodology for assessing compliance with the narrative WQO for toxicity. NOTE: As the "Compilation of Water Quality Goals" is only a guidance document and not a promulgated standard, it is Aerojet's opinion that this compilation is a "To Be Considered" criteria and not an ARAR.
Porter-Cologne Water Quality Control Act	California Water Code Sections 13140-13147, 13172, 13260, 13263, 13267, 13304	Title 27, CCR, Section 20400 Title 23, CCR, Section 2550.4	Concentration limits must be established for groundwater, surface water, and the unsaturated zone. Limits must be based on background, equal to background, or for corrective actions, may be greater than background, not to exceed the lower of the applicable WQO or the concentration technologically or economically achievable. This regulation presents procedures for identifying concentration limits for cleanup and abatement of discharges from facilities that treat, store, or dispose of hazardous waste at Class I waste management units. SWB Resolution 92-49 also requires use of these regulations for development of cleanup levels other than background.	This regulation requires cleanup to background concentration levels, or a concentration limit greater than background if: - It is technologically and economically infeasible to achieve background, and - The constituent will not pose a substantial present or potential hazard to human health or the environment as long as the concentration limit greater than background is exceeded. This regulation lists the various factors to be considered in setting a concentration limit greater than background. This regulation also requires concentration limits that are greater than background to be set at the lowest levels that are economically and technologically achievable.
Safe Drinking Water and Toxics Enforcement Act (Proposition 65)	Health and Welfare Agency	22 CCR 12000 et seq.	These regulations identify chemicals known to cause cancer or reproductive toxicity. This act prohibits discharge or release of significant amounts of the identified chemicals. Significant amounts are generally defined as levels that pose no significant risk of cancer. For drinking water, significant levels are defined as California MCLs, drinking water action levels when MCLs don't exist, or discharge limits allowed by a Basin Plan or waste discharge permit.	These regulations make it illegal to expose persons to significant amounts of chemicals known to cause cancer or reproductive toxicity without prior notification, or to discharge significant amounts of these chemicals to sources of drinking water. The numeric limits and notification requirements are applicable to the water suppliers at the point that groundwater is delivered to a water system for public consumption. The numeric limits and prohibition on discharge of significant amounts of these chemicals are applicable to discharge of treated water to surface water or reinjection of treated groundwater. The numeric limits and notification requirements are applicable to remedial actions, if any, that include use of treated water for municipal or domestic supply

Chemical-Specific TBCs	Agency	Reference	Description	Comment
Preliminary Remediation Goals (PRGs)	USEPA	PRG Table - October 2004	Sets a PRG for potential industrial and residential uses for a variety of compounds.	May be used for general risk screening purposes or to set initial cleanup goals.

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento, California

Chemical-Specific TBCs (cont.)	Agency	Reference	Description	Comment
Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites	USEPA	RSL Table - September 2008	Sets a RSL for potential industrial and residential uses for a variety of compounds.	May be used for general risk screening purposes or to set initial cleanup goals.
Proposed Corrective Action Rule (40 CFR 264 Subpart S) Action Levels	USEPA	55 FR 30798	Sets action levels for certain chemicals in soil; exceeding action levels may trigger requirements for additional investigation or remediation.	May be used in determining whether contamination poses potential threat to human health or the environment.
Designated Level Methodology for Waste Classification and Cleanup Level Determination	RWQCB	CVRWQCB June 1989	Guidance on how to classify wastes under the definitions contained in the Chapter 15 regulations to select appropriate disposal practices protective of beneficial uses of waters of the state.	
California Public Health Goals (PHGs)	California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA).	Calderon-Sher Safe Drinking Water Act of 1996	OEHHA has adopted PHGs for chemicals in drinking water. PHGs are levels of drinking water contaminants at which adverse health effects are not expected to occur from a lifetime of exposure.	PHGs are non-enforceable risk-based goals and therefore are not ARARs, but are TBCs for identifying potential groundwater cleanup levels.
California Human Health Screening Levels	California Environmental Protection Agency	Use of California Human Health Screening Levels in Evaluation of Contaminated Properties - Jan 2005	Sets a CHHSL for potential industrial and residential uses for a variety of compounds.	May be used for general risk screening purposes or to set initial cleanup goals.
Toxic Substances Control Act (TSCA)	USEPA	15 U.S.C. §2601 et seq. (1976)	The Toxic Substances Control Act of 1976 provides EPA with authority to require reporting, record-keeping and testing requirements, and restrictions relating to chemical substances and/or mixtures. TSCA addresses the production, importation, use, and disposal of specific chemicals including polychlorinated biphenyls (PCBs), asbestos, radon and lead-based paint.	Applicable to lead-based paint and lead in soil as described below: - National Lead Laboratory Accreditation Program (TSCA Section 405(b)) establishes protocols, criteria, and minimum performance standards for laboratory analysis of lead in paint, dust, and soil. - Training & Certification Program for Lead-Based Paint Activities ensures that individuals conducting lead-based paint abatement, risk assessment, or inspection are properly trained and certified, that training programs are accredited, and that these activities are conducted according to reliable, effective, and safe work practice standards
National Ambient Water Quality Criteria	USEPA	Clean Water Act (CWA) Section 304(a)(1)	Establishes water quality criteria, which are non-enforceable guidance developed under CWA §304 and are used by the State, in conjunction with designated use for a stream segment, to establish water quality standards under CWA §303.	Neither applicable nor relevant and appropriate for groundwater. Potentially relevant but likely not appropriate for discharge of treated water to surface water These criteria are published by EPA to protect human health and welfare and freshwater and marine aquatic life from pollutants in surface waters and therefore are not applicable to groundwater. Ambient water quality criteria are based on consumption of drinking water and aquatic organisms (primarily fish) and consumption of fish alone and therefore are not relevant to groundwater in the BOU. Although potentially relevant, ambient water quality criteria are not appropriate requirements as the RWQCB has adopted numeric standards for the surface waters in the area which represent site-specific water quality standards which are more appropriate requirements.

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento, California

Action-Specific ARARs	Agency	Reference	Description	Comment
Air Resources Act	CA Air Resources Board/ SMAQMD	Health & Safety Code, Div. 26, Sec. 39000 et seq.	Regulates both vehicular and nonvehicular sources of air contaminants in California. Defines relationship of California Air Resources Board and local or regional air pollution control districts. Establishes ambient air quality standards and permit procedures.	Applicable to air emission sources. The Sacramento Metropolitan Air Quality Management District (SMAQMD) is the enforcement agency.
Air - Permits; exemptions	SMAQMD	Rule 201	Specifies emissions units that are not required to obtain an Authority to Construct or a Permit to Operate.	Sources deemed by the air pollution control officer that emit any pollutants without the benefit of air pollution control devices and would not exceed 2 pounds in any 24-hour period are not required to obtain an authority to construct or permit to operate.
Air - New Source Review	SMAQMD	Rule 202	Requires review of new stationary air pollution sources to prevent exceedances of ambient air quality standards. Requires Best Available Control Technology for emissions in excess of 10 lbs/day for reactive organic compounds; 10 lbs/day for particulates; 3.3 lbs/day for lead; and 5.5 lbs/day for vinyl chloride.	Applicable to new sources of air emissions that are subject to Rule 201 (General Permit Requirements) and that emit or may emit any affected pollutants.
Air - Opacity	SMAQMD	Rule 401	Sets limits for opacity of emissions (Number 1 on the Ringelmann chart).	Applicable to emissions of visible air contaminants. Associated with dust-producing actions.
Air - Nuisance	SMAQMD	Rule 402	Prohibits discharge of air contaminants in quantities that cause injury, detriment, or nuisance.	Applicable to emissions of air contaminants that may cause injury, detriment, nuisance, or annoyance to any considerable number of persons or the public, or that endanger the comfort, health, or safety of any such persons or the public, or which cause or have natural tendency to cause injury or damage to business or property.
Air - Particulate Matter	SMAQMD	Rule 404	Limits permissible discharges of particulate matter.	Applicable to any construction activities that result in emissions of dust.
Air - Dust and Condensed Fumes	SMAQMD	Rule 405	Limits permissible emissions of dusts and condensed fumes based on process throughput rates.	Applicable to any activity discharging in excess of specified emission rates.
OSHA Hazardous Waste Operations and Emergency Response	Cal/OSHA	29 CFR 1910.120/ 8 CCR 5192	Worker training and health and safety plan requirements for site cleanup operations.	Applicable to on-site workers engaged in site cleanup operations.
OSHA Excavation Standards	Cal/OSHA	29 CFR 1926/ 8 CCR 1540 and 341	Includes requirements for benching, sloping or shoring of excavations to prevent cave-ins; entry into any excavation deeper than 5 feet requires a permit.	Applicable to excavation activities.
OSHA Heavy Equipment Operation Standards	Cal/OSHA	29 CFR 1926/ 8 CCR 1590 and 3649	Requirements for safe operation of haulage, earthmoving, industrial trucks and tractors.	Applicable to activities involving the use of heavy equipment.
OSHA Head, Eye, Face, and Hearing Protection Standards	Cal/OSHA	29 CFR 1926 Subpart E/ 8 CCR 3381, 3382, 5162, and 5097.	Specific details regarding personal protective equipment and noise levels for hearing protection for workers.	Applicable to activities where employees may encounter hazards requiring the use of personal protective equipment or hearing protection.
OSHA Worker Protection Programs	Cal/OSHA	29 CFR 1910.1200/ 8 CCR 5194 and 3203	Written program requirements include hazard communication, and illness and injury prevention plan.	Employees who may be exposed to hazardous substances must be informed of those hazards in accordance with hazard communication requirements. All employers must develop illness and injury prevention plan for providing information on safe and healthy work practices.
Hazardous Waste	DTSC	22 CCR 66260	Provides definitions of terms used in the hazardous waste regulations under Title 22 of the California Code of Regulations.	Applicable to activities generating wastes; wastes must be classified using generator knowledge or waste analysis.
Hazardous Waste Identification	DTSC	22 CCR 66261	Sets standards for classification of RCRA hazardous wastes and California hazardous wastes and requirements for recycling and reclamation of RCRA and California hazardous wastes.	Wastes generated during site activities (including residues from treatment operations) must be evaluated to determine if hazardous.

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento, California

Action-Specific ARARs (cont.)	Agency	Reference	Description	Comment
Hazardous Waste Generator Standards	DTSC	22 CCR 66262	Requirements for generation, on-site management, and off-site transportation of RCRA and non-RCRA hazardous waste.	Wastes generated during site activities must be managed in accordance with these standards if determined to be a hazardous waste.
Hazardous Waste	DTSC	40 CFR 265, 264/ 22 CCR 66265, 66264	Requirements for management/storage of hazardous waste in containers.	Applicable to any hazardous wastes accumulated or stored in containers.
Hazardous Waste	DTSC	40 CFR 264 and 265 Subpart B/ 22 CCR 66264 and 66265	General facility standards for on-site treatment, storage, or disposal of hazardous waste.	Applicable to alternatives involving treatment, storage, or disposal of hazardous waste.
Hazardous Waste	DTSC	40 CFR 264, 265 Subpart C/ 22 CCR 66264 and 66265	Preparedness and prevention requirements applicable to on-site treatment, storage, and disposal of hazardous waste. Applies to generators and TSDs.	Applicable to alternatives involving treatment, storage, or disposal of hazardous waste.
Hazardous Waste	DTSC	40 CFR 264, 265 Subpart D/ 22 CCR 66264 and 66265	Contingency plan requirements applicable to on-site treatment, storage, and disposal of hazardous waste. Applies to generators and TSDs.	Applicable to alternatives involving treatment, storage, or disposal of hazardous waste.
Hazardous Waste	DTSC	40 CFR 264, 265 Subpart E/ 22 CCR 66264 and 66265	Manifesting, record keeping, and reporting requirements applicable to TSDs.	Applicable to alternatives involving treatment, storage, or disposal of hazardous waste.
Hazardous Waste	USEPA/ DTSC	40 CFR 264, 265 Subpart F/ 22 CCR 66264 and 66265	Establishes monitoring requirements for facilities that treat, store, or dispose of hazardous waste.	Applicable to alternatives involving treatment, storage, or disposal of hazardous waste.
Hazardous Waste	USEPA/ DTSC	40 CFR 264, 265 Subpart G/ 22 CCR 66264 and 66265	Closure and post-closure requirements for hazardous waste treatment, storage, and disposal in new on-site units.	Applicable to alternatives involving creation of new treatment, storage, or disposal units.
Hazardous Waste	USEPA/ DTSC	40 CFR 264, 265 Subpart L/ 22 CCR 66264 and 66265	Requirements for storage of hazardous waste in a waste pile for greater than 90 days.	Applicable to alternatives in which hazardous waste is stored in a waste pile for greater than 90 days.
Hazardous Waste	USEPA/ DTSC	40 CFR 264, 265 Subpart N/ 22 CCR 66264 and 66265	Requirements for hazardous waste landfills.	Applicable to alternatives involving land disposal of hazardous waste.
Hazardous Waste	DTSC	Health and Safety Code 25123.3	Remediation waste staging requirements allowing the temporary accumulation of non-RCRA contaminated soil provided that certain conditions are met.	Applicable to activities that involve temporary accumulation of non-RCRA contaminated soil. Requires an impermeable surface, controls to prevent dispersion or runoff, inspections, and certification.
Hazardous Waste - Land Disposal Restrictions	DTSC	22 CCR 66268	Establishes land disposal restrictions and treatment standards for hazardous wastes applicable to generators.	Any hazardous wastes generated as a result of on-site activities or by treatment systems must meet LDR requirements.
Land Use Controls	DTSC	CCC section 1471	Allows an owner of land to make a covenant to restrict use of land for the benefit of a covenantee. The covenant runs with the land to bind successive owners.	In the event a remedy is selected that does not result in unrestricted use, a LUC between Aerojet and DTSC will be signed and recorded with Sacramento County prior to DTSC certification that the removal action has been completed.
Land Use Controls	DTSC	CHSC 25222.1 and 25355.5	Authorizes DTSC to enter into an agreement with a land owner to restrict the present and future use of land.	
Land Use Controls	DTSC	CHSC 25233	Provides a process and criteria for requesting a variance from a land use restriction.	
Land Use Controls	DTSC	CHSC 25234	Provides a process and criteria for requesting the removal or termination of land use restrictions.	
Hazardous Material/Hazardous Waste Transportation Requirements	USEPA/ DOT	40 CFR 262/49 CFR 172/ 22 CCR 66262	Requirements for packaging, labeling, placarding and transporting hazardous waste.	Any hazardous wastes shipped off site for disposal must meet the requirements for hazardous waste shipping and transportation.
Discharge of Waste to Land	RWQCB	23 CCR Chapter 15	Waste and site classifications of waste landfills, including allowable soluble constituent concentrations.	Applicable to on-site land disposal of wastes.
OSHA Worker Lead Exposure Standard	Cal-OSHA	29 CFR 1910.1025/ 8 CCR 5216	Specific standard for occupational exposure to lead; includes requirements for monitoring and protective equipment. The PEL for lead is currently 50 µg/m3 for an 8-hour TWA.	If concentrations of lead in air exceed the PEL, control measures will be required. This applies to dust-producing actions.

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento, California

Action-Specific ARARs (cont.)	Agency	Reference	Description	Comment
OSHA Worker Vinyl Chloride Exposure Standard	Cal-OSHA	29 CFR 1910.1017/ 8 CCR 5210	Specific standard for occupational exposure to vinyl chloride; includes requirements for monitoring, protective equipment and decontamination. The PEL for vinyl chloride is currently 1 ppm for an 8-hour TWA.	If concentrations of vinyl chloride in air exceed the PEL, control measures will be required. This applies to actions that may encourage offgassing of VOCs.
OSHA Permissible Exposure Limits	Cal-OSHA	29 CFR 1910.1001/ 8 CCR 5155	Requirements for controlling employee exposure to airborne contamination during work operations; sets PELs for specified contaminants and workplace monitoring requirements.	If concentrations of any specified contaminants in air exceed the PEL, control measures (administrative or engineering controls, or personal protective equipment) will be required. This applies to dust-producing actions or actions that may encourage offgassing of VOCs.
Water Protection Porter-Cologne Water Quality Control Act Basin Plan for Central Valley Region	RWQCB	CWC Sections 13240, 13241, 13242, 13243	Establishes water quality objectives, including narrative and numerical standards, that protect the beneficial uses of surface and ground waters in the region. Describes implementation plans and other control measures designed to ensure compliance with statewide plans and policies and provide comprehensive water quality planning. Includes implementation actions for setting soil cleanup levels for soils that threaten water quality.	Specific applicable portions of the Basin Plan include beneficial uses of affected water bodies and water quality objectives to protect those uses. Any activity, including, for example, a new discharge of contaminated soils or in-situ treatment or containment of contaminated soils, that may affect water quality must not result in water quality exceeding water quality objectives. Implementation plans and other policies and requirements may also apply.
Water Protection Porter-Cologne Water Quality Control Act Policy for Investigation and Cleanup of Contaminated Sites	RWQCB	CWC Sections 13000, 13304, 13240, 13241, 13242, 13243	Establishes and describes policy for investigation and remediation of contaminated sites. Includes implementation actions for setting groundwater and soil cleanup levels.	Cleanup levels for soils should be equal to levels that would achieve background concentrations in groundwater unless such levels are technically and economically infeasible to achieve. In such cases, soil cleanup levels are such that groundwater will not exceed applicable groundwater quality objectives.
Water Protection Porter-Cologne Water Quality Control Act Policy for Application of Water Quality Objectives	RWQCB	CWC Sections 13240, 13241, 13242, 13243	This policy defines water quality objectives and explains how the Regional Water Board applies numerical and narrative water quality objectives to ensure the reasonable protection of beneficial uses of water and how the Regional Water Board applies Resolution No. 68-16 to promote the maintenance of existing high quality waters.	Applies to all cleanups of discharges that may affect water quality.
Water Protection Porter-Cologne Water Quality Control Act Antidegradation Policy	SWRCB	CWC Sections 13000, 13140, 13263, 13304	Requires that high quality surface and groundwaters be maintained to the maximum extent possible. Degradation of waters will be allowed (or allowed to remain) only if it is consistent with the maximum benefit to the people of the state, will not unreasonably affect present and anticipated beneficial uses, and will not result in water quality less than that prescribed in RWQCB and SWRCB policies. If degradation is allowed, the discharge must meet best practicable treatment or control, which must prevent pollution or nuisance and result in the highest water quality consistent with maximum benefit to the people of the state.	Applies to the discharges of waste to waters, including discharges to soil that may affect surface or groundwaters. In-situ cleanup levels for contaminated soils must be set so that groundwaters will not be degraded, unless degradation is consistent with the maximum benefit of the people of the state. If degradation is allowed, the discharge must meet best practical treatment or control, and result in the highest water quality possible consistent with the maximum benefit to the people of the state. In no case may water quality objectives be exceeded.

Table 7-3 ***Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)***
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
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Water Protection Porter-Cologne Water Quality Control Act SWRCB Resolution No. 92-49 (as amended April 21, 1994)	SWRCB	CWC Sections 13000, 13140, 13240, 13260, 13263, 13267, 13300, 13304, 13307	Establishes requirements for investigation and cleanup and abatement of discharges. Among other requirements, dischargers must clean up and abate the effects of discharges in a manner that promotes the attainment of either background water quality, or the best water quality that is reasonable if background water quality cannot be restored. Requires the application of Title 23, CCR, Section 2550.4 requirements to cleanups.	Applies to all cleanups of discharges that may affect water quality.

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento, California

Action-Specific ARARs (cont.)	Agency	Reference	Description	Comment
Water Protection Porter-Cologne Water Quality Control Act Resolution No. 88-63 (Sources of Drinking Water Policy) (as contained in the RWQCB's Water Quality Control Plan)	SWRCB	CWC Sections 13000, 13140, 13240	Specifies that, with certain exceptions, all ground and surface waters have the beneficial use of municipal or domestic water supply.	Applies in determining beneficial uses for waters that may be affected by discharges of waste.
Wastes Staff Report The Designated Level Methodology for Waste Classification and Cleanup Level Determination	RWQCB		Provides guidance on how to classify wastes according to Title 27, CCR, Division 2, Subdiv.1/Title 23, CCR, Division 3, Chapter 15, Article 10	Performance standard to be considered in determining the classification of wastes and contaminated soils.
Water Protection Staff Report A Compilation of Water Quality Goals	RWQCB		Provides guidance on selecting numerical values to implement narrative water quality objectives contained in the Basin Plan.	Performance standard to be considered in selecting appropriate numerical values to implement the Basin Plan for setting cleanup levels and discharge limits. The numerical values contained in the staff report may be applicable, relevant and appropriate, or TBC, depending on the source of the values.
Waste Management Porter-Cologne Water Quality Control Act Title 27, CCR, Division 2, Subdiv. 1 (Section 20080 et seq.), Title 23 CCR, Division 3, Chapter 15, (Section 2510 et seq.)		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13304	Establishes waste and siting classification systems and minimum waste management standards for discharges of waste to land for treatment, storage, and disposal. Engineered alternatives that are consistent with Title 27/Title 23 performance goals may be considered. Establishes corrective action requirements for responding to leaks and other unauthorized discharges.	Applies to all discharges of waste to land for treatment, storage, or disposal that may affect water quality. The application of some of the specific sections of Title 27/Title 23 to different situations is discussed below. Provisions of Title 23 apply to hazardous waste and provisions of Title 27 apply to designated and nonhazardous waste.
Waste Management Porter-Cologne Water Quality Control Act Title 23, CCR, Section 2520, 2521		CWC Sections 13140-13147, 13172, 13260, 13263, 13269	Requires that hazardous waste be discharged to Class I waste management units that meet certain design and monitoring standards.	Applies to discharges of hazardous waste to land for treatment, storage, or disposal.
Waste Management Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20200(c), 20210		CWC Sections 13140-13147, 13172, 13260, 13263, 13269	Requires that designated waste be discharged to Class I or Class II waste management units.	Applies to discharges of designated waste (nonhazardous waste that could cause degradation of surface or groundwater) to land for treatment, storage, or disposal.
Waste Management Porter-Cologne Water Quality Control Act Title 27, CCR Section 20230		CWC Sections 13140-13147, 13172, 13260, 13263, 13269	Requires that inert waste does not need to be discharged at classified units.	Applies to discharges of inert waste to land for treatment, storage, or disposal.
Nonhazardous Solid Waste Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20200(c), 20220		CWC Sections 13140-13147, 13172, 13260, 13263, 13269	Requires that nonhazardous solid waste be discharged to a classified waste management unit.	Applies to discharges of nonhazardous solid waste to land for treatment, storage, or disposal.

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
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Storm Water Porter-Cologne Water Quality Control Act 40 CFR Parts 122, 123, 124, National Pollution Discharge Elimination System, implemented by California Storm Water Permit for Industrial Activities, Order #97-03-DWQ.	SWRCB	CWC Sections 13260, 13263, 13370.5, 13372, 13373, 13374, 13375, 13376, 13377, 13383	Regulates pollutants in discharge of storm water associated with hazardous waste TSDs, wastewater treatment plants, landfills, land application sites, and open dumps. Requirements to ensure storm water discharges do not contribute to a violation of surface water quality standards.	Applies to storm water discharges from industrial areas. Includes measures to minimize and/or eliminate pollutants in storm water discharges and monitoring to demonstrate compliance.

Action-Specific ARARs (cont.)	**Agency**	**Reference**	**Description**	**Comment**
Storm Water Porter-Cologne Water Quality Control Act 40 CFR Parts 122, 123, 124, National Pollution Discharge Elimination System, implemented by California Storm Water Permit for Industrial Activities, Order #92-08-DWQ.	SWRCB	CWC Sections 13260, 13263, 13370.5, 13372, 13373, 13374, 13375, 13376, 13377, 13383	Regulates pollutants in discharge of storm water associated with construction activity (clearing, grading, or excavation) involving the disturbance of 5 acres or more. Requirements to ensure storm water discharges do not contribute to a violation of surface water quality standards.	Applies to construction areas over 5 acres in size. Includes measures to minimize and/or eliminate pollutants in storm water discharges and monitoring to demonstrate compliance.
Monitoring Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20080(g), Title 23, CCR, Section 2510(g)		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13304	Requires monitoring. If water quality is threatened, corrective action consistent with Title 27, Title 23 is required.	Applies to areas of land where discharges had ceased as of November 27, 1984 (the effective date of the revised Title 27/Title 23 regulations).
Remediation and Monitoring Porter-Cologne Water Quality Control Act Title 27, CCR Section 20090(d) Title 23 CCR, Section 2511(d)		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13304	Actions taken by public agencies to clean up unauthorized releases are exempt from Title 27/Title 23 except that wastes removed from immediate place of release and discharged to land must be managed in accordance with classification (Title 27 CCR, Section 20200/Title 23 CCR, Sections 2520) and siting requirements of Title 27 or Title 23 and wastes contained or left in place must comply with Title 27 or Title 23 to the extent feasible.	Applies to remediation and monitoring of sites.
Existing Waste Management Units Porter-Cologne Water Quality Control Act Title 27, CCR Section 20080(d) Title 23 CCR, Section 2510(d)		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13304	Requires closure of existing waste management units according to Title 27/Title 23.	Applies to "existing" waste management units (i.e., areas where waste was discharged to land on or before November 27, 1984, but that were not closed, abandoned, or inactive prior to that date).
Surface Impoundments Porter-Cologne Water Quality Control Act Title 27, CCR Section 21400 Title 23, CCR Section 2582		CWC Sections 13140-13147, 13172, 13260, 1323, 13269	Requires surface impoundments to be closed by removing and treating all free liquid and either removing all remaining contamination or closing the surface impoundment as a landfill.	If water quality is threatened, this section is relevant and appropriate for natural topographic depressions, excavations, and diked areas where wastes containing free liquids were discharged.
Groundwater Monitoring Porter-Cologne Water Quality Control Act Title 27, CCR Sections 20385-20435 Title 23, CCR Section 2550		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Where groundwater monitoring is required under 2510 or 2511 of Ch 15 (and equivalent for Title 27), applies to authorized waste management units as well as unauthorized discharges of waste to land and to closed abandoned inactive units.	Applies to all areas in which waste has been discharged to land to determine the threat to water quality.

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
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Detection Monitoring Porter-Cologne Water Quality Control Act Title 27, CCR Section 20385 Title 23, CCR Section 2550.1	CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires detection monitoring. Once a significant release has occurred, evaluation or corrective action monitoring is required.	Applies to all areas in which waste has been discharged to land to determine the threat to water quality.
Water Quality Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20390 Title 23, CCR, Section 2550.2	CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires establishment of water quality protection standard consisting of a list of constituents of concern, concentration limits, compliance monitoring points and all monitoring points. This section further specifies the time period that the standard shall apply.	Applies to all areas in which waste has been discharged to land where groundwater is threatened.

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
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Action-Specific ARARs (cont.)	Agency	Reference	Description	Comment
Constituents of Concern in Soil Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20395 Title 23, CCR, Section 2550.3		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires development of a list of constituents of concern that include all waste constituents, that are reasonably expected to be present in the soil from discharges to land, and could adversely affect water quality.	Applies to all areas in which waste has been discharged to land where groundwater is threatened.
Concentration Limits Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20400 Title 23, CCR, Section 2550.4		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Concentration limits must be established for groundwater, surface water, and the unsaturated zone. Must be based on background, equal to background, or for corrective actions, may be greater than background, not to exceed the lower of the applicable water quality objective or the concentration technologically or economically achievable. Specific factors must be considered in setting cleanup standards above background levels.	If water quality is threatened, this section applies in setting soil cleanup levels for all cleanups of discharges of waste to land.
Detection Monitoring Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20420 Title 23, CCR, Section 2550.8		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires detection monitoring to determine if a release has occurred.	Applies to all areas where waste has been discharged to land and groundwater is threatened.
Point of Compliance Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20405 Title 23, CCR, Section 2550.5		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires identification of the point of compliance, hydraulically downgradient from the area where waste was discharged to land.	Applies to all areas in which waste has been discharged to land where groundwater is threatened.
Monitoring Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20410 Title 23, CCR, Section 2550.6		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires monitoring for compliance with remedial action objectives for three years from the date of achieving cleanup levels.	Applies to all soil cleanup activities.
Monitoring Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20415 Title 23, CCR, Section 2550.7		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires general soil, surface water, and groundwater monitoring.	Applies to all areas where waste has been discharged to land.
Detection Monitoring Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20420 Title 23, CCR, Section 2550.8		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires detection monitoring to determine if a release has occurred.	Applies to all areas where waste has been discharged to land and groundwater is threatened.
Releases Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20425 Title 23, CCR, Section 2550.9		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires an assessment of the nature and extent of the release, including determination of the spatial distribution and concentration of each constituent.	Applies to sites at which monitoring results show statistically significant evidence of a release.

Table 7-3 *Summary of Potential Applicable or Relevant and Appropriate Requirements (ARARs) and Requirements "To be Considered" (TBCs)*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento, California

Action-Specific ARARs (cont.)	Agency	Reference	Description	Comment
Corrective Action Measures Porter-Cologne Water Quality Control Act Title 27, CCR, Section 20430 Title 23, CCR, Section 2550.10		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires implementation of corrective action measures that ensure that cleanup levels (i.e., water quality protection standard established under Section 2550.2) are achieved throughout the zone affected by the release by removing the waste constituents or treating them in place. Source control may be required. Also requires monitoring to determine the effectiveness of the corrective actions.	If water quality is threatened, this section applies to all soil cleanup activities.
Closure Requirements Porter-Cologne Water Quality Control Act Title 27, CCR, Sections 20950; 22207(a); 22212(a); and 22222 Title 23, CCR, Sections 2550.0(b); 2580; 2580(f)		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	General closure requirements, including continued maintenance of waste containment, drainage controls, and groundwater monitoring throughout the closure and post-closure maintenance periods.	Applies to partial or final closure of waste management units.
Closure Requirements Porter-Cologne Water Quality Control Act Title 27, CCR, Section 21090		CWC Sections 13140-13147, 13172, 13260, 13263, 13267, 13269	Requires a final cover for landfills constructed in accordance with specific prescriptive standards, to be maintained as long as wastes pose a threat to water quality.	If water quality is threatened, this section is relevant and appropriate for wastes contained or left in place at the end of remedial actions that could affect water quality. Includes closure of landfills and other areas where wastes have been discharged to land.

Location-Specific ARARs	Agency	Reference	Description	Comment
Seismic Construction Standards	International Conference of Building Officials/ City of Sacramento Building & Safety Department	California Uniform Building Code Part V, Chapter 23, Part III	Specifies requirements for earthquake-resistant design.	Any construction must be designed in accordance with these requirements.

Notes and Key:

$\mu g/m^3$ = Micrograms per cubic meter
ARARs = Applicable or relevant and appropriate requirements
CA = California
Cal-OSHA = California Occupational Safety and Health Administration
CCC = California Civil Code
CCR = California code of regulations
CFR = Code of federal regulations
CHHSL = California Human Health Screening Level
CHSC = California Health and Safety Code
CWC = California water code
DOT = Department of Transportation
DTSC = California Department of Toxic Substances Control
FR = Federal Register
lbs = Pounds
LDR = Land disposal restrictions
LUC = Land use control
MCL = Maximum Contaminant Level
mg/kg = Milligrams per kilogram
OEHHA = Office of Environmental Health Hazard Assessment
OSHA = Federal Occupational Safety and Health Administration
PCB = Polychlorinated biphenyls
PEL = Permissible exposure limits
PHG = Public Health Goal
ppm = Parts per million
PRG = Preliminary remediation goal
RCRA = Resource Conservation and Recovery Act
RI/FS = Remedial Investigation/Feasibility Study
RSL = Regional Screening Level
RWQCB = California Regional Water Quality Control Board
SMAQMD = Sacramento Metropolitan Air Quality Management District
SWRCB = State Water Resources Control Board
TBCs = To be considered
TSDs = Treatment, storage, and disposal facilities
TWA = Time weighted average
USEPA = United States Environmental Protection Agency
VOCs = Volatile organic compounds
WQO = Water Quality Objective

Table 7-4 *Cleanup Goals for Soil*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Chemical	Units	Future Hypothetical Resident					Construction Worker				
		HQ =1	HQ =0.1	ILCR = 10^{-6}	ILCR = 10^{-5}	ILCR = 10^{-4}	HQ =1	HQ =0.1	ILCR = 10^{-6}	ILCR = 10^{-5}	ILCR = 10^{-4}
2,3,7,8-TCDD	mg/kg	NA	NA	3.9E-06	3.9E-05	3.9E-04	NA	NA	1.3E-04	1.3E-03	1.3E-02
Antimony	mg/kg	31.3	3.1	NA	NA	NA	120	12	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	mg/kg	1,222	122	34.7	347	3,474	4,656	466	1,164.0	11640	116,401
Cadmium	mg/kg	70.3	7.0	602	6,017	60,170	269	26.9	47.7	477	4,769
Diethyl phthalate	mg/kg	48,883	4,888	NA	NA	NA	186,241	18,624	NA	NA	NA
Di-n-butyl phthalate	mg/kg	6,110	611	NA	NA	NA	23,280	2,328	NA	NA	NA
Hexavalent chromium	mg/kg	223	22.3	17.7	177	1,770	22.0	2.2	1.4	14	140
Iron	mg/kg	54,750	5,475	NA	NA	NA	216,788	21,679	NA	NA	NA
Lead	mg/kg	127/217[a]	127/217[a]	NA	NA	NA	531/835[b]	531/835[b]	NA	NA	NA
Mercury	mg/kg	23.5	2.3	NA	NA	NA	84.0	8.4	NA	NA	NA
Perchlorate	mg/kg	54.7	5.5	NA	NA	NA	210	21.0	NA	NA	NA
PCB-1254	mg/kg	1.1	0.1	0.09	0.89	8.9	4.3	0.4	3.0	30	303
PCB-1260	mg/kg	1.1	0.1	0.09	0.89	8.9	4.3	0.4	3.0	30	303
Silver	mg/kg	391	39.1	NA	NA	NA	1,503	150	NA	NA	NA
Zinc	mg/kg	23,463	2,346	NA	NA	NA	90,176	9,018	NA	NA	NA

Notes and Key:

[a]Based on exposures for 99th and 95th percentiles assuming default lead in drinking water value of 15 ug/L. If 5 ug/L is utilized (typical detection limit for lead-assuming lead is ND in future municipal water supply) RAOs are 172/263.

[b]Based on exposures for 99th and 95th percentiles assuming default lead in drinking water value of 15 ug/L. If 5 ug/L is utilized (typical detection limit for lead - assuming lead is ND in future municipal water supply) RAOs are 664-967.

[c]Based on exposures for 99th and 95th percentiles assuming default lead in drinking water value of 15 ug/L. If 5 ug/L is utilized (typical detection limit for lead - assuming lead is ND in future municipal water supply) RAOs are 2146/3129.

[d]Based on exposures for 99th and 95th percentiles assuming default lead in drinking water value of 15 ug/L. If 5 ug/L is utilized (typical detection limit for lead - assuming lead is ND in future municipal water supply) RAOs are 2387/3479.

µg/L = Micrograms per liter
mg/kg = Millligrams per kilogram
NA = Not applicable
HQ = Hazard quotient
ILCR = Incremental lifetime cancer risk

Table 7-4 *Cleanup Goals for Soil*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Chemical	Units	Commercial Worker					Maintenance Worker					Protection of Groundwater
		HQ =1	HQ =0.1	ILCR = 10^{-6}	ILCR = 10^{-5}	ILCR = 10^{-4}	HQ =1	HQ =0.1	ILCR = 10^{-6}	ILCR = 10^{-5}	ILCR = 10^{-4}	
2,3,7,8-TCDD	mg/kg	NA	NA	1.6E-05	1.6E-04	1.6E-03	NA	NA	1.8E-05	1.8E-04	1.8E-03	NA
Antimony	mg/kg	409	41	NA	NA	NA	454	45	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	mg/kg	12,312	1,231	123	1231	12,312	13,680	1,368	137	1368	13,680	NA
Cadmium	mg/kg	808	80.8	1,297	12,973	129,726	898	89.8	1,441	14,414	144,140	NA
Diethyl phthalate	mg/kg	492,486	49,249	NA	NA	NA	547,207	54,721	NA	NA	NA	NA
Di-n-butyl phthalate	mg/kg	61,561	6,156	NA	NA	NA	68,401	6,840	NA	NA	NA	NA
Hexavalent chromium	mg/kg	2,554	255.4	38.2	382	3,815	2,838	283.8	42	424	4,239	NA
Iron	mg/kg	715,400	71,540	NA	NA	NA	794,889	79,489	NA	NA	NA	NA
Lead	mg/kg	1717/2699[c]	1717/2699[c]	NA	NA	NA	1910/3002[d]	1910/3002[d]	NA	NA	NA	NA
Mercury	mg/kg	306	30.6	NA	NA	NA	340	34.0	NA	NA	NA	NA
Perchlorate	mg/kg	715	71.5	NA	NA	NA	795	79.5	NA	NA	NA	0.06
PCB-1254	mg/kg	10.6	1.1	0.3	3.0	29.7	11.8	1.2	0.3	3.3	33.1	NA
PCB-1260	mg/kg	10.6	1.1	0.3	3.0	29.7	11.8	1.2	0.3	3.3	33.1	NA
Silver	mg/kg	5,109	511	NA	NA	NA	5,677	568	NA	NA	NA	NA
Zinc	mg/kg	306,555	30,655	NA	NA	NA	340,617	34,062	NA	NA	NA	NA

Notes and Key:

[a]Based on exposures for 99th and 95th percentiles assuming default lead in drinking water value of 15 ug/L. If 5 ug/L is utilized (typical detection limit for lead-assuming lead is ND in future municipal water supply) RAOs are 172/263.

[b]Based on exposures for 99th and 95th percentiles assuming default lead in drinking water value of 15 ug/L. If 5 ug/L is utilized (typical detection limit for lead - assuming lead is ND in future municipal water supply) RAOs are 664-967.

[c]Based on exposures for 99th and 95th percentiles assuming default lead in drinking water value of 15 ug/L. If 5 ug/L is utilized (typical detection limit for lead - assuming lead is ND in future municipal water supply) RAOs are 2146/3129.

[d]Based on exposures for 99th and 95th percentiles assuming default lead in drinking water value of 15 ug/L. If 5 ug/L is utilized (typical detection limit for lead - assuming lead is ND in future municipal water supply) RAOs are 2387/3479.

µg/L = Micrograms per liter
mg/kg = Millligrams per kilogram
NA = Not applicable
HQ = Hazard quotient
ILCR = Incremental lifetime cancer risk

Table 7-5 *Cleanup Goals for Volatile Organic Compounds (VOCs) in Soil Vapor*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

	Future Resident					Construction Worker				
Chemical	**HQ =1**	**HQ = 0.1**	**ILCR = 10^{-6}**	**ILCR = 10^{-5}**	**ILCR = 10^{-4}**	**HQ =1**	**HQ = 0.1**	**ILCR = 10^{-6}**	**ILCR = 10^{-5}**	**ILCR = 10^{-4}**
1,1,1-Trichloroethane	4,656	466	NA	NA	NA	1,148,462	114,846	NA	NA	NA
1,1-Dichloroethane	693	69	2.6	25.8	258	172,468	17,247	10,590	105,902	1,059,016
1,1-Dichloroethene	59.3	5.9	NA	NA	NA	14,219	1,422	NA	NA	NA
1,1-Difluoroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	8.2	0.8	NA	NA	NA	2,112	211.2	NA	NA	NA
1,2-Dichloroethane	3.7	0.4	0.12	1.2	12.4	861	86.1	473	4,733	47,327
1,2-Dichloroethene (cis/trans)	34.9	3.5	NA	NA	NA	8,694	869	NA	NA	NA
1,4-Dichlorobenzene	846	85	0.71	7.1	70.9	213,286	21,329	2,951	29,506	295,059
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl Ethyl Ketone)	4,585	458	NA	NA	NA	1,131,290	113,129	NA	NA	NA
4-Ethyltoluene	88.4	8.8	NA	NA	NA	21,329	2,133	NA	NA	NA
Acetone	2,080	208	NA	NA	NA	464,413	46,441	NA	NA	NA
Benzene	26.0	2.6	0.13	1.3	12.8	6,253	625	509	5,090	50,898
Benzyl chloride	NA	NA	0.09	0.86	8.6	NA	NA	351	3,513	35,129
Bromodichloromethane	153	15	0.25	2.5	25.0	42,943	4,294	1,156	11,562	115,617
Carbon disulfide	1,379	138	NA	NA	NA	123,050	12,305	NA	NA	NA
Chloroform	34.5	3.4	0.14	1.4	14.0	7,998	800	535	5,350	53,500
cis-1,2-Dichloroethene	34.9	3.5	NA	NA	NA	8,694	869	NA	NA	NA
cis-1,3-Dichloropropene	22.8	2.3	0.31	3.1	30.8	5,841	584	1,301	13,009	130,090
Cyclohexane	5,586	559	NA	NA	NA	1,371,123	137,112	NA	NA	NA
Ethanol	930	93	NA	NA	NA	203,906	20,391	NA	NA	NA
Ethylbenzene	981	98	1.7	16.7	167	243,755	24,376	6,864	68,644	686,437
Freon 113	28,603	2,860	NA	NA	NA	7,054,840	705,484	NA	NA	NA
Heptane	337	34	NA	NA	NA	187,093	18,709	NA	NA	NA
Hexane	337	34	NA	NA	NA	63,986	6,399	NA	NA	NA
m,p-Xylene	96.1	9.6	NA	NA	NA	23,773	2,377	NA	NA	NA
Methylene chloride	2,325	233	3.3	33	329	543,019	54,302	12,670	126,704	1,267,045
o-Xylene	87.1	8.7	NA	NA	NA	21,013	2,101	NA	NA	NA
Tetrachloroethylene	35.5	3.5	0.72	7.2	71.7	8,887	889	2,962	29,623	296,230
Tetrahydrofuran	225	23	1.6	16	164	52,407	5,241	6,273	62,731	627,311
Toluene	261	26	NA	NA	NA	63,040	6,304	NA	NA	NA
trans-1,3-Dichloropropene	22.8	2.3	0.31	3.1	30.8	5,841	584	1,301	13,009	130,090
Trichloroethylene	560	56	2.0	20	199	137,691	13,769	8,099	80,995	809,946
Vinyl chloride	74.7	7.5	0.04	0.4	4.11	23,141	2,314	210	2,100	20,999

Notes and Key:

Concentrations are in milligrams per cubic meter (mg/m^3) = micrograms per liter (µg/L)
HQ = Hazard quotient
ILCR = Incremental lifetime cancer risk
NA = Not applicable
RI/FS = Remedial investigation/feasibility study

Table 7-5 *Cleanup Goals for Volatile Organic Compounds (VOCs) in Soil Vapor*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

	Commercial Worker					Protection of Groundwater			
Chemical	**HQ =1**	**HQ = 0.1**	**ILCR = 10^{-6}**	**ILCR = 10^{-5}**	**ILCR = 10^{-4}**	**10 ft bgs**	**15 ft bgs**	**20 ft bgs**	**30 ft bgs**
1,1,1-Trichloroethane	30,420	3,042	NA	NA	NA	546	502	455	337
1,1-Dichloroethane	4,525	453	11.1	111	1,112	NA	NA	NA	NA
1,1-Dichloroethene	388	39	NA	NA	NA	NA	NA	NA	NA
1,1-Difluoroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	53.5	5.4	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	24.3	2.4	0.53	5.3	53	NA	NA	NA	NA
1,2-Dichloroethene (cis/trans)	228	23	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	5,524	552	3.1	31	306	NA	NA	NA	NA
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl Ethyl Ketone)	29,954	2,995	NA	NA	NA	NA	NA	NA	NA
4-Ethyltoluene	577	58	NA	NA	NA	NA	NA	NA	NA
Acetone	13,592	1,359	NA	NA	NA	NA	NA	NA	NA
Benzene	170	17	0.55	5.5	55.2	0.18	0.16	0.15	0.11
Benzyl chloride	NA	NA	0.37	3.7	36.9	NA	NA	NA	NA
Bromodichloromethane	1,002	100	1.1	11	108	NA	NA	NA	NA
Carbon disulfide	3,467	347	NA	NA	NA	NA	NA	NA	NA
Chloroform	225	23	0.60	6.0	60.3	NA	NA	NA	NA
cis-1,2-Dichloroethene	228	23	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	149	15	1.3	13	133	NA	NA	NA	NA
Cyclohexane	36,497	3,650	NA	NA	NA	NA	NA	NA	NA
Ethanol	6,073	607	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	6,409	641	7.2	72	722	NA	NA	NA	NA
Freon 113	186,871	18,687	NA	NA	NA	17,684	16,259	14,613	10,696
Heptane	2,202	220	NA	NA	NA	NA	NA	NA	NA
Hexane	2,202	220	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	628	63	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	15,192	1,519	14.2	142	1,418	NA	NA	NA	NA
o-Xylene	569	57	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethylene	232	23	3.1	31	309	1.6	1.5	1.3	1.0
Tetrahydrofuran	1,473	147	7.1	71	705	NA	NA	NA	NA
Toluene	1,707	171	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	149	15	1.3	13	133	NA	NA	NA	NA
Trichloroethylene	3,656	366	8.6	86	860	2.9	2.6	2.4	1.8
Vinyl chloride	488	49	0.18	1.8	18	0.16	0.15	0.13	0.10

Notes and Key:

Concentrations are in milligrams per cubic meter (mg/m^3) = micrograms per liter (µg/L)
HQ = Hazard quotient
ILCR = Incremental lifetime cancer risk
NA = Not applicable
RI/FS = Remedial investigation/feasibility study

Table 7-6 *Area and Volume Estimates for Soil Excavation and Disposal*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Residential Land Use

		Excavation Size			Volume		Extra	Volume	Weight	Floor	Sidewall
Site	Constituents of Concern	Length (feet)	Width (feet)	Depth (feet)	Cubic Feet	Bank (CY)	SLOPE	15% Expansion Factor (CY)	Tons	Area (SF)	Length (LF)
10D	Metals, PCBs	900	10	2	18,000	670	670	780	1,170	9,000	1,820
11D	Metals, PCBs	20	10	2	400	20	20	30	45	200	60
C4	Metals, PCBs	40	100	1	4,000	150	150	180	270	4,000	280
C41	Perchlorate	120	88	10	105,600	3,920	3,920	4,510	6,765	10,560	420
							ESTIMATED TOTALS	**1,860**	**2,790**	**23,200**	**2,560**

Commercial Land Use

		Excavation Size			Volume		Extra	Volume	Weight	Floor	Sidewall
Site	Constituents of Concern	Length (feet)	Width (feet)	Depth (feet)	Cubic Feet	Bank (CY)	SLOPE	15% Expansion Factor (CY)	Tons	Area (SF)	Length (LF)
10D	Metals, PCBs	83	10	2	1,660	70	70	90	135	830	190
C41	Perchlorate	120	88	10	105,600	3,920	3,920	4,510	6,765	10,560	420
							ESTIMATED TOTALS	**90**	**135**	**830**	**190**

Notes and Key:
Weight conversion = 1.5 tons per cubic yard
CY = Cubic yards
LF = Linear feet
PCBs = Polychlorinated biphenyls
RI/FS = Remedial Investigation/Feasibility Study
SF = Square feet

Table 7-7 Area with Volatile Organic Compounds (VOCs) in Vadose Zone
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Residential Land Use

Site	Constituents of Concern	Dimensions Length (feet)	Dimensions Width (feet)	Area Square Feet	Area Acreage
7D	VOCs	(1)	(1)	4,050	0.09
FCS	VOCs	(1)	(1)	148,500	3.4
32D, 34D, 35D, 38D	VOCs	(1)	(1)	483,200	11.1
33D	VOCs	80	60	4,800	0.11

Commercial Land Use

Site	Constituents of Concern	Dimensions Length (feet)	Dimensions Width (feet)	Area Square Feet	Area Acreage
FCS-1	VOCs	300	30	9,000	0.2
FCS-2	VOCs	200	30	6,000	0.1
32D, 34D, 35D, 38D	VOCs	(1)	(1)	311,700	7.2
33D	VOCs	30	30	900	0.021

Notes and Key:
1 = Variable dimensions. Calculated based on various geometric shapes.
Area conversion = 43,560 square feet per acre
RI/FS = Remedial Investigation/Feasibility Study
VOCs = Volatile organic compounds

Table 7-8 ***Remedial Technologies and Process Options***
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Response Action	Remediation Technology Type	Process Option	Description	Retain?	Comments
No Action	No Action	None	No institutional controls or treatment.	Yes	Baseline for comparison.
Limited Actions	Institutional Controls	Deed Notification / Deed Restrictions	Implement deed notification to inform future owners of the presence of potentially hazardous substances at the site and /or implement deed restriction to restrict future use of site.	Yes	Could prevent human contact to contaminated soil and soil vapor.
	Engineering Controls	Vapor Mitigation for buildings	Installation of vapor mitigation system in new or existing buildings. Vapor mitigation systems can include vapor barriers (synthetic membrane), subslab venting systems, and subslab depressurization systems.	Yes	Vapor mitigation would prevent soil vapor intrusion into buildings.
		Fencing	Fencing or other means of limiting site access.	No	Perimeter fence already in place; additional fencing unnecessary.
		Signs	Signs or other means of warning potential trespassers or site users of potential dangers.	No	Limited effectiveness/utility for preventing exposure to chemicals.
Containment	Cap	Asphalt/Aggregate Base or HDPE	Containment or capping of contaminated soil to prevent or reduce contaminant migration and to prevent exposure.	Yes	Prevents direct contact with chemicals in soil and limits migration of chemical vapors to the surface and infiltration of surface water and formation of leachate.
Ex Situ Soil Treatment	Physical Removal	Excavation and Discharge to Appropriate Landfill	Remove contaminated soil by physical means (e.g., excavation) and disposal at a Class I or Class II landfill.	Yes	Removes contaminant source and eliminates need for further in situ remedies.
		Excavation and Discharge to Appropriate Recycling Facility	Remove contaminated soil by physical means (e.g., excavation) and recycle as fill for road construction or mixed with concrete.	Yes	Removes contaminant source and eliminates need for further in situ remedies.
	Biological Treatment	Biopiles	Excavated soils are mixed with soil amendments and placed on a treatment area that includes leachate collection systems and some form of aeration.	No	Limited effectiveness with specific halogenated compounds.
		Landfarming	Contaminated soil is placed in lined beds and periodically turned over or tilled to aerate the waste.	No	Not implementable because of the potential contaminated off-gas and large amount of land area required.

Table 7-8 ***Remedial Technologies and Process Options***
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Response Action	Remediation Technology Type	Process Option	Description	Retain?	Comments
		Slurry Paste Biological Treatment	The controlled treatment of excavated soil in a bioreactor, where the contaminated soil is maintained in suspension with water and mixed with nutrients and oxygen.	No	Not cost effective due to large capital and operation and maintenance (O&M) costs.
	Physical/Chemical Treatment	Chemical Extraction	Reduces the volume of the material to be treated by separating the hazardous contaminants from soil by using an extraction acid or solvent.	No	Not cost effective for large volumes of soil.
Ex Situ Soil Treatment	Physical/Chemical Treatment	Chemical Reduction/ Oxidation	Reduction/oxidation uses oxidizing agents to chemically convert hazardous contaminants to nonhazardous or less toxic compounds that are more stable, less mobile, and/or inert.	No	Not as cost effective as excavation and disposal option.
		Soil Washing	Wash soil with water-based surfactants, detergents, acids, etc., to remove chemicals from soil particles. Treat or dispose of high chemical concentration residuals.	No	Difficult to implement. Difficult to formulate washing fluids for complex waste mixtures. Soils may remain toxic due to difficulty extracting residual fluids.
		Solidification / Stabilization	Contaminants are physically bound or enclosed within a stabilized mass or chemical reactions are induced between stabilizing agent and contaminants to reduce their mobility.	Yes	Requires appropriate disposal location for treated material. Not proven effective on fuels and organics, but potentially applicable for metals impacted soil.
	Thermal Treatment	Hot Gas Decontamination	Process involves raising the temperature of the contaminated material for a specified period of time. The gas effluent is treated in an afterburner system to destroy all volatilized contaminants.	No	Only effective on explosive material.
		Incineration	High temperatures, 871-1,204 °C (1,600-2,200 °F), are used to combust (in the presence of oxygen) organic constituents in hazardous wastes.	No	Most effective for semivolatile organic compounds contamination and not as cost effective for VOCs as in situ methods such as soil vapor extraction..
		Thermal Desorption (High-Temperature)	Wastes are heated within a continuous flow reactor to 320 to 560 °C to volatilize organic contaminants. A carrier gas or vacuum system transports volatilized organics to the gas treatment system.	No	Not as cost effective for treatment of VOCs as in situ methods such as soil vapor extraction..
In Situ Soil Treatment	Biological Treatment	Bioventing	Oxygen is supplied through direct low-flow air injection into residual contamination in soil.	No	Due to relatively shallow conditions, not implementable because of the potentially contaminated off-gas.

Table 7-8 *Remedial Technologies and Process Options*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Response Action	Remediation Technology Type	Process Option	Description	Retain?	Comments
		Enhanced Bioremediation	Stimulation of naturally occurring microbes by injecting water-based solutions into the contaminated soils to enhance in situ biological degradation of organic contaminants or immobilize inorganic contaminants.	Yes	Technology has not been proven effective in remediating chlorinated solvents. However, the technology is potentially applicable to perchlorate impacted soils.
		Land Treatment	Land treatment is a full-scale bioremediation technology in which contaminated soils, sediments, or sludges are turned over (i.e., tilled) and allowed to interact with the soil and climate at the site.	No	Land treatment is most effective on soil contamination from the surface to 18 inches due to the shallow reach of tilling equipment.
In Situ Soil Treatment	Biological Treatment	Natural Attenuation	Natural biotransformation processes such as dilution, dispersion, volatilization, biodegradation, adsorption, and chemical reactions with soil materials can reduce contaminant concentrations to acceptable levels.	No	Not implementable due to the long duration of cleanup time and the O&M cost.
	Physical/Chemical Treatment	Chemical Oxidation	Injection of chemical oxidizers to convert hazardous chemicals to nonhazardous or less toxic compounds that are more stable, less mobile, and/or inert. Common oxidizing agents used are oxygen, ozone, hydrogen peroxide, and potassium permanganate.	No	Potential for breakdown of some halogenated VOCs to chemicals with greater toxicity and mobility (i.e., TCE to vinyl chloride).
		Soil Flushing	The extraction of contaminants from soil with aqueous solution accomplished by passing fluid through in-place soils using an injection or infiltration process. Extraction fluids must be recovered from underlying aquifer.	No	Not cost effective. Potential for mobilization of chemicals in the vadose zone to groundwater.
		Soil Vapor Extraction	Vacuum is applied through extraction pipes to create a pressure/concentration gradient, in impacted areas, that induces gas-phase volatiles to diffuse through soil to extraction wells. The process includes a system for handling off-gases.	Yes	Effective in remediating site contaminants and has been proven during Interim Remedial Actions. Existing catalytic oxidation systems will be used to treat the off-gases.
		In Situ Vitrification	Uses an electric current to melt soil at extremely high temperatures and thereby immobilize most inorganics and destroy organic pollutants by pyrolysis.	No	Not cost effective.
	Thermal Treatment	Thermally Enhanced Soil Vapor Extraction	Uses electrical resistance/electromagnetic/fiber optic/radio frequency heating or hot-air/steam injection to increase the volatilization rate of semivolatiles and facilitate extraction.	No	Not cost effective.

Table 7-8 *Remedial Technologies and Process Options*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Response Action	Remediation Technology Type	Process Option	Description	Retain?	Comments

Notes and Key:

^{o}C = Degree Celsius
^{o}F = Degrees Fahrenheit
HDPE = High density polyethylene plastic
O&M = Operation and maintenance
POU = Perimeter Operable Unit
RI/FS = Remedial Investigation/Feasibility Study
TCE = Trichloroethene
VOCs = Volatile organic compounds

Table 7-9 Feasibility Study Groups
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Potential Source Site	Feasibility Study Group	Planned Future Land Use	Constituents Requiring Remedial Action - Residential Land Use	Constituents Requiring Remedial Action - Commercial Land Use
11D	**A20-1**	Commercial	PCBs and lead	None
10D	**A20-1**	Commercial	PCBs, silver, hexavalent chromium, mercury, and lead	PCBs
7D	**A20-2**	Residential	VOCs	None
FCS	**A20-2**	Residential	VOCs	VOCs
C41	**A20-3**	Residential	Perchlorate	Perchlorate
32D	**A49-1**	Commercial/ Roadway	VOCs	VOCs
34D	**A49-1**	Commercial/ Roadway	VOCs	VOCs
35D	**A49-1**	Commercial/ Roadway	VOCs	VOCs
38D	**A49-1**	Commercial/ Roadway	VOCs	VOCs
33D	**A49-2**	Commercial	VOCs	None
C4	**A49-3**	Residential	Dioxins/Furans and lead	None

Notes and Key:
FCS = Former company store
PCBs = Polychlorinated biphenyls
RI/FS = Remedial Investigation/Feasibility Study
VOCs = Volatile organic compounds

Table 7-10 Screening of Soil Remedial Technologies
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Location	Remediation Technology Type	Process Option	Effectiveness	Implementability	Cost	Retained	Summary of Screening
FS Group A20-1 Sites 10D and 11D	No Action	None	Does not meet Remedial Action Objectives (RAOs).	As no actions are taken, this action is readily implementable.	None	Yes	Retained as part of "No Action" baseline.
	Institutional Controls	Deed Notifications/Deed Restrictions	Protective of human health within specific land use scenarios.	Easily implemented. Specific legal requirements and authority would need to be met.	Low Capital	Yes	Applicable to the commercial potential future land use.
	Physical Removal	Excavation	Removes source of contamination in soil.	Easily implemented.	Low Capital	Yes	Removal of local hot spots.
FS Group A20-2 Sites 7D and FCS	No Action	None	Does not meet RAOs.	As no actions are taken, this action is readily implementable.	None	Yes	Retained as part of "No Action" baseline.
	Institutional Controls	Deed Notifications/Deed Restrictions	Protective of human health within specific land use scenarios.	Easily implemented. Specific legal requirements and authority would need to be met.	Low Capital	Yes	Applicable to the planned and potential future land use.
	Engineering Controls	Vapor Mitigation beneath Buildings	Protective of human health by preventing soil vapor intrusion into buildings, but would not address inhalation hazards in outdoor environments (i.e. during construction) or mitigate potential threats to groundwater from source area VOCs.	Could be implemented inside existing structures or installed in new structures.	Moderate Capital	Yes	Potentially applicable in combination with other institutional controls.
	In Situ Treatment	SVE	Proven technology type to reduce volatile organic compound (VOC) contaminant mass and concentration.	Technology has been implemented at the site and has been shown to be effective.	Moderate Capital, Moderate Operation and Maintenance (O&M)	No	Concentrations of VOCs are already in an acceptable range for potential future land use.
FS Group A20-3 Site C41	No Action	None	Does not meet RAOs.	As no actions are taken, this action is readily implementable.	None	Yes	Retained as part of "No Action" baseline.
	Physical Removal	Excavation/Off-site Disposal	Protective of human health and the environment through removal and proper disposal of impacted soil.	Impractical for VOC-contaminated sites due to vertical extent of VOCs in soil and the large volume of soil that would need to be excavated.	High Capital	Yes	Impractical due to the volume of soil impacted by VOCs and the required depth of excavation.
	In Situ Treatment	Enhanced Bioremediation	Successfully demonstrated technology in California to reduce the concentration of perchlorate in soil.	Difficult to implement because requires excavation, applying a layer of electron donor and then replacing soil while mixing. Following replacement, another dose of water-based electron donor solution is delivered to soil.	Low Capital	Yes	Impractical at depth but potentially applicable for shallower soils (upper 10 feet). Ensuring good mixing to allow contact of the electron donor and the soils is difficult. Process may take multiple rounds to reach CGs.
FS Group A49-1 Sites 32D, 34D, 35D, and 38D	No Action	None	Does not meet RAOs.	As no actions are taken, this action is readily implementable.	None	Yes	Retained as part of "No Action" baseline.
	Institutional Controls	Deed Notifications/Deed Restrictions	Does not meet RAO of allowing for unrestricted reuse.	Easily implemented. Specific legal requirements and authority would need to be met.	Low Capital	Yes	Potentially applicable in combination with other technologies.
	Containment	HDPE/Asphalt Cap	Does not meet RAO of allowing for unrestricted reuse.	Easily implemented.	Moderate Capital	Yes	Would reduce migration of perchlorate into groundwater.
	Physical Removal	Excavation	Removes source of contamination in soil.	Easily implemented.	High Capital	No	Not cost effective alternative for soils with VOCs
	In Situ Treatment	SVE	Proven technology type to reduce volatile organic compound (VOC) contaminant mass and concentration.	Technology has been implemented at the site and has been shown to be effective.	Moderate Capital, Moderate Operation and Maintenance (O&M)	Yes	Concentrations and mass of VOCs likely to be reduced. Unlikely to achieve cleanup goals, but would potentially reduce migration of VOCs into groundwater.

Table 7-10 *Screening of Soil Remedial Technologies*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Location	Remediation Technology Type	Process Option	Effectiveness	Implementability	Cost	Retained	Summary of Screening
FS Group A49-2 Site 33D	No Action	None	Does not meet RAOs.	As no actions are taken, this action is readily implementable.	None	Yes	Retained as part of "No Action" baseline.
	Institutional Controls	Deed Notifications/Deed Restrictions	Does not meet RAO of allowing for unrestricted reuse.	Easily implemented. Specific legal requirements and authority would need to be met.	Low Capital	Yes	Potentially applicable in combination with other technologies.
	Engineering Controls	Vapor Mitigation beneath Buildings	Protective of human health by preventing soil vapor intrusion into buildings, but would not address inhalation hazards in outdoor environments (i.e. during construction) or mitigate potential threats to groundwater from source area VOCs.	Could be implemented inside existing structures or installed in new structures.	Moderate Capital	Yes	Potentially applicable in combination with other institutional controls.
	In Situ Treatment	SVE	Proven technology type to reduce volatile organic compound (VOC) contaminant mass and concentration.	Technology has been implemented at the site and has been shown to be effective.	Moderate Capital, Moderate Operation and Maintenance (O&M)	No	Concentrations of VOCs are already in an acceptable range for potential future land use.
FS Group A49-3 Site C4	No Action	None	Does not meet RAOs.	As no actions are taken, this action is readily implementable.	None	Yes	Retained as part of "No Action" baseline.
	Institutional Controls	Deed Notifications/Deed Restrictions	Protective of human health within specific land use scenarios.	Easily implemented. Specific legal requirements and authority would need to be met.	Low Capital	Yes	Applicable to the commercial potential future land use.
	Physical Removal	Excavation	Removes source of contamination in soil.	Easily implemented.	Low Capital	Yes	Removal of local hot spots.

Notes and Key:

HDPE = High density polyethylene
O&M = Operation and maintenance
POU = Perimeter Operable Unit
RAO = Remedial action objective
RI/FS = Remedial Investigation/Feasibility Study
SVE = Soil vapor extraction
VOCs = Volatile organic compounds

Table 7-11 *Summary of Comparative Analysis of Alternatives for Area 20/21 and 49 FS Groups*
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Location	Alternative		Potential Land Use Under Remedy	Protection of Human Health and the Environment	Compliance with ARARs	Long Term Effectiveness	Reduction of Toxicity, Mobility, and Volume	Short-Term Effectiveness	Implementability	Cost	State and Community Acceptance	Score
FS Group A20-1 Sites 10D and 11D	**A20-1A**	**No Action**	Not Applicable	0	0	0	0	0	5	0	0	**5**
	A20-1B	**Land Use Restriction and Excavation and Disposal**	Commercial	4	4	4	3	4	4	3	3	**29**
	A20-1C	**Excavation and Disposal**	Residential	5	4	4	4	3	5	2	5	**32**
FS Group A20-2 Sites 7D and FCS	**A20-2A**	**No Action**	Not Applicable	0	0	0	0	0	5	0	0	**5**
	A20-2B	**Institutional and Engineering Controls**	Residential	4	4	3	1	4	4	3	4	**27**
	A20-2C	**Land Use Restriction and Engineering Controls**	Commercial	4	4	3	1	4	4	4	3	**27**
FS Group A20-3 Site C41	**A20-3A**	**No Action**	Not Applicable	0	0	0	0	0	5	0	0	**5**
	A20-3B	**Excavation and Disposal**	Residential	4	3	4	3	3	4	1	4	**26**
	A20-3C	**Enhanced Bioremediation**	Residential	3	3	3	3	3	3	2	3	**23**
FS Group A49-1 Sites 32D, 34D, 35D, and 38D	**A49-1A**	**No Action**	Not Applicable	0	0	0	0	0	5	0	0	**5**
	A49-1B	**Capping with Institutional Controls**	Roadway/Parking Lot	4	3	2	2	4	5	2	2	**24**
	A49-1C	**SVE with Capping and Institutional Controls**	Commercial	4	5	3	4	4	5	1	4	**30**
FS Group A49-2 Site 33D	**A49-2A**	**No Action**	Not Applicable	0	0	0	0	0	5	0	0	**5**
	A49-2B	**Institutional and Engineering Controls**	Residential	4	4	4	1	4	4	4	4	**29**
	A49-2C	**Land Use Restriction**	Commercial	4	4	4	1	5	4	4	3	**29**
FS Group A49-3 Site C4	**A49-3A**	**No Action**	Not Applicable	0	0	0	0	0	5	0	0	**5**
	A49-3B	**Excavation and Disposal**	Residential	5	4	4	4	3	5	4	5	**34**

Notes:
Each alternative's performance against the criteria is initially ranked on a scale of 0 to 5. The ranking scores are not intended to be quantitative, but rather are only summary indicators of the alternative's performance against the CERCLA evaluation criteria. The rankings equate to the following qualifiers:

NR = Not Ranked
0 = No/None
1= Low
2 = Low-Moderate
3 = Moderate
4 = Moderate-High
5 = High

Table 7-12 Detailed Analysis of Remedial Alternatives
FS Group A20-1: Sites 10D and 11D
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A20-1A: No Action		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	No actions are taken. Provides no protection of human health and the environment.	0
Compliance with applicable or relevant and appropriate requirements (ARARs)	Will not satisfy ARARs.	0
Long-term effectiveness and permanence	No actions are taken. Provides no long-term effectiveness or permanence.	0
Reduction of toxicity, mobility, or volume (TMV) through treatment	Provides no reduction in TMV through treatment.	0
Short-term effectiveness	As no actions are taken, there would be no short-term risk to workers. However protection from site risks would not be attained.	0
Implementability	As no actions are taken, this alternative is highly implementable.	5
Cost	No cost.	NR
State and community acceptance	As no actions are taken, this alternative would not be acceptable to the State or community	0
Total Score		5

Alternative A20-1B: Land Use Restriction and Excavation and Disposal		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	Restriction to commercial development would prevent exposures to residents	4
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs	4
Long-term effectiveness and permanence	Provides long-term effectiveness and permanence due to excavation and removal of COCs above commercial/construction worker scenarios.	4
Reduction of toxicity, mobility, or volume (TMV) through treatment	Removal of COCs above commercial and construction worker CGs would eliminate mobility	3
Short-term effectiveness	Short term risks to workers during excavation and transport.	4
Implementability	Implementable	4
Cost	$99,500	3
State and community acceptance	Alternative may be acceptable to the State or community, but would restrict future development	3
Total Score		29

Table 7-12 ***Detailed Analysis of Remedial Alternatives***
FS Group A20-1: Sites 10D and 11D
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A20-1C: Excavation and Disposal		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	All COCs above cleanup goals would be removed	5
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs	4
Long-term effectiveness and permanence	Long-term effectiveness and permanence due to removal of perchlorate	4
Reduction of toxicity, mobility, or volume (TMV) through treatment	Removal of perchlorate would eliminate mobility	4
Short-term effectiveness	Short term risks to workers during excavation and transport.	3
Implementability	Easily implemented	5
Cost	$178,000	2
State and community acceptance	Potentially acceptable to the State and community.	5
Total Score		32

Notes and Key:
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NR = Not ranked
0 = No/none
1 = Low
2 = Low-moderate
3 = Moderate
4 = Moderate-high
5 = High

Table 7-13 *Detailed Analysis of Remedial Alternatives*
FS Group A20-2: Sites 7D and FCS
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A20-2A: No Action		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	No actions are taken. Provides no protection of human health and the environment.	0
Compliance with applicable or relevant and appropriate requirements (ARARs)	Will not satisfy ARARs.	0
Long-term effectiveness and permanence	No actions are taken. Provides no long-term effectiveness or permanence.	0
Reduction of toxicity, mobility, or volume (TMV) through treatment	Provides no reduction in TMV through treatment.	0
Short-term effectiveness	As no actions are taken, there would be no short-term risk to workers. However protection from site risks would not be attained.	0
Implementability	As no actions are taken, this alternative is highly implementable.	5
Cost	No cost.	NR
State and community acceptance	As no actions are taken, this alternative would not be acceptable to the State or community	0
Total Score		5

Alternative A20-2B: Institutional and Engineering Controls		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	Institutional and engineering controls (vapor mitigation) would prevent exposures to residents.	4
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs but would not allow unrestricted use of the property	4
Long-term effectiveness and permanence	Long-term effectiveness and permanence depends on quality of installation and material.	3
Reduction of toxicity, mobility, or volume (TMV) through treatment	Provides no reduction in TMV through treatment.	1
Short-term effectiveness	Short term risk to workers during installation of vapor barriers.	4
Implementability	Implementable	4
Cost	$62,000	3
State and community acceptance	Alternative may be acceptable to the State or community, but would restrict future development	4
Total Score		27

Table 7-13 *Detailed Analysis of Remedial Alternatives*
FS Group A20-2: Sites 7D and FCS
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A20-2C: Land Use Restrictions and Engineering Controls		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	Restriction to commercial development would prevent exposures to residents. In addition, engineering controls (vapor mitigation) would prevent exposures to commercial workers.	4
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs but would not allow unrestricted use of the property	4
Long-term effectiveness and permanence	Long-term effectiveness and permanence depends on quality of installation and material.	3
Reduction of toxicity, mobility, or volume (TMV) through treatment	Provides no reduction in TMV through treatment.	1
Short-term effectiveness	Short term risk to workers during installation of vapor barriers.	4
Implementability	Implementable	4
Cost	$25,000	4
State and community acceptance	Alternative may be acceptable to the State or community, but would restrict future development to commercial.	3
Total Score		27

Notes and Key:
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NR = Not ranked
0 = No/none
1 = Low
2 = Low-moderate
3 = Moderate
4 = Moderate-high
5 = High

Table 7-14 *Detailed Analysis of Remedial Alternatives*
FS Group A20-3: Site C41
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A20-3A: No Action		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	No actions are taken. Provides no protection of human health and the environment.	0
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs	0
Long-term effectiveness and permanence	No actions are taken. Provides no long-term effectiveness or permanence.	0
Reduction of toxicity, mobility, or volume (TMV) through treatment	Provides no reduction in TMV through treatment.	0
Short-term effectiveness	As no actions are taken, there would be no short-term risk to workers. However protection from site risks would not be attained.	0
Implementability	As no actions are taken, this alternative is highly implementable.	5
Cost	No cost.	NR
State and community acceptance	As no actions are taken, this alternative would not be acceptable to the State or community	0
Total Score		5

Alternative A20-3B: Excavation and Disposal		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	Mass of perchlorate in vadose zone would be reduced.	4
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs	3
Long-term effectiveness and permanence	Long-term effectiveness and permanence due to removal of perchlorate	4
Reduction of toxicity, mobility, or volume (TMV) through treatment	Removal of perchlorate would eliminate mobility	3
Short-term effectiveness	Short term risks to workers during excavation and transport.	3
Implementability	Removal of perchlorate to depth of 10 feet below ground surface easily implemented	4
Cost	$590,000	1
State and community acceptance	Potentially acceptable to the State and community.	4
Total Score		26

Table 7-14 *Detailed Analysis of Remedial Alternatives*
FS Group A20-3: Site C41
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A20-3C: Enhanced Bioremediation		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	Mass of perchlorate in vadose zone would be reduced.	3
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs	3
Long-term effectiveness and permanence	Long-term effectiveness and permanence due to reduction of perchlorate. However, multiple rounds could be required to obtain treatment objectives.	3
Reduction of toxicity, mobility, or volume (TMV) through treatment	Treatment of perchlorate would reduce toxicity and mobility	3
Short-term effectiveness	Short term risks to workers during excavation and mixing	3
Implementability	Difficult to implement because requires excavation, applying a layer of electron donor and then replacing soil while mixing. Following replacement, another dose of water-based electron donor solution is delivered to soil.	3
Cost	$192,000	2
State and community acceptance	Potentially acceptable to the State and community.	3
Total Score		23

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NR = Not ranked
0 = No/none
1 = Low
2 = Low-moderate
3 = Moderate
4 = Moderate-high
5 = High

Table 7-15 *Detailed Analysis of Remedial Alternatives*
FS Group A49-1: Sites 32D, 34D, 35D, and 38D
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A49-1A: No Action		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human	No actions are taken. Provides no protection of human health and the environment.	0
Compliance with applicable or relevant and appropriate requirements (ARARs)	Will not satisfy ARARs.	0
Long-term effectiveness and permanence	No actions are taken. Provides no long-term effectiveness or permanence.	0
Reduction of toxicity, mobility, or volume (TMV) through treatment	Provides no reduction in TMV through treatment.	0
Short-term effectiveness	As no actions are taken, there would be no short-term risk to workers. However protection from site risks would not be attained.	0
Implementability	As no actions are taken, this alternative is highly implementable.	5
Cost	No cost.	NR
State and community acceptance	As no actions are taken, this alternative would not be acceptable to the State or community	0
Total Score		5

Alternative A49-1B: Capping with Institutional Controls		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	Chemcials would not be removed. Capping would prevent vapor emissions and infiltration of surface water	4
Compliance with applicable or relevant and appropriate requirements (ARARs)	Does not satisty the criteria for unrestricted land use and protection of groundwater	3
Long-term effectiveness and permanence	Chemicals would remain in soil and would likely continue to migrate into groundwater	2
Reduction of toxicity, mobility, or volume (TMV) through treatment	Chemicals would remains in soil with no treatment. Some reduction in mobility obtained by capping.	2
Short-term effectiveness	Short term risk to workers during installation of cap.	4
Implementability	Capping is easily implemented.	5
Cost	$365,500 (Includes Cost of institutional controls = $17,500 and capping = $348,000)	2
State and community acceptance	Action is unlikely to be approved by the State and/or community because it does not allow for unrestricted use. Could potentially be acceptable if sites are used only for roadways.	2
Total Score		24

Table 7-15 *Detailed Analysis of Remedial Alternatives*
FS Group A49-1: Sites 32D, 34D, 35D, and 38D
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A49-1C: SVE with Capping and Institutional Controls		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	SVE would remove a signficant amount of VOCs from the soil, but still unlikely to achieve residential or commercial cleanup goals.	4
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs	5
Long-term effectiveness and permanence	SVE would remove a signficant amount of VOCs from the soil, but still unlikely to achieve residential or commercial cleanup goals.	3
Reduction of toxicity, mobility, or volume (TMV) through treatment	SVE would remove a signficant amount of VOCs from the soil, but still unlikely to achieve residential or commercial cleanup goals. SVE would reduce mass of VOCs and likely result in reducing migration into groundwater.	4
Short-term effectiveness	Short term risk to workers during installation of SVE system and cap.	4
Implementability	Relatively easy to implement.	5
Cost	$1,190,000 (Includes Cost of institutional controls = $17,500 and SVE and capping = $1,172,000)	1
State and community acceptance	Actions is likely to be acceptable to the State and community.	4
Total Score		30

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NR = Not ranked
0 = No/none
1 = Low
2 = Low-moderate
3 = Moderate
4 = Moderate-high
5 = High

Table 7-16 *Detailed Analysis of Remedial Alternatives*
FS Group A49-2: Site 33D
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A49-2A: No Action		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	No actions are taken. Provides no protection of human health and the environment.	0
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs	0
Long-term effectiveness and permanence	No actions are taken. Provides no long-term effectiveness or permanence.	0
Reduction of toxicity, mobility, or volume (TMV) through treatment	Provides no reduction in TMV through treatment.	0
Short-term effectiveness	As no actions are taken, there would be no short-term risk to workers. However protection from site risks would not be attained.	0
Implementability	As no actions are taken, this alternative is highly implementable.	5
Cost	No cost.	NR
State and community acceptance	As no actions are taken, this alternative would not be acceptable to the State or community	0
Total Score		5

Alternative A49-2B: Institutional and Engineering Controls		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	Institutional and engineering controls (vapor mitigation) would prevent exposures to residents.	4
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs but would not allow unrestricted use of the property	4
Long-term effectiveness and permanence	Long-term effectiveness and permanence due to land use restriction and covenants	4
Reduction of toxicity, mobility, or volume (TMV) through treatment	Provides no reduction in TMV through treatment.	1
Short-term effectiveness	Short term risk to workers during installation of vapor barriers.	4
Implementability	Implementable	4
Cost	$18,800	4
State and community acceptance	Alternative may be acceptable to the State or community, but would restrict future development	4
Total Score		29

Table 7-16 *Detailed Analysis of Remedial Alternatives*
FS Group A49-2: Site 33D
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A49-2C: Land Use Restriction		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	Restriction to commercial development would prevent exposures to residents	4
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs but would not allow unrestricted use of the property	4
Long-term effectiveness and permanence	Long-term effectiveness and permanence due to land use restriction and covenants	4
Reduction of toxicity, mobility, or volume (TMV) through treatment	Provides no reduction in TMV through treatment.	1
Short-term effectiveness	As no actions are taken, there would be no short-term risk to workers	5
Implementability	Implementable	4
Cost	$17,500	4
State and community acceptance	Alternative may be acceptable to the State or community, but would restrict future development to commercial.	3
Total Score		29

Notes and Key:
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NR = Not ranked
0 = No/none
1 = Low
2 = Low-moderate
3 = Moderate
4 = Moderate-high
5 = High

Table 7-17 *Detailed Analysis of Remedial Alternatives*
FS Group A49-3: Site C4
Perimeter Groundwater Operable Unit RI/FS
Aerojet Superfund Site
Sacramento County, California

Alternative A49-3A: No Action		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	No actions are taken. Provides no protection of human health and the environment.	0
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs	0
Long-term effectiveness and permanence	No actions are taken. Provides no long-term effectiveness or permanence.	0
Reduction of toxicity, mobility, or volume (TMV) through treatment	Provides no reduction in TMV through treatment.	0
Short-term effectiveness	As no actions are taken, there would be no short-term risk to workers. However protection from site risks would not be attained.	0
Implementability	As no actions are taken, this alternative is highly implementable.	5
Cost	No cost.	NR
State and community acceptance	As no actions are taken, this alternative would not be acceptable to the State or community	0
Total Score		5

Alternative A49-3B: Excavation and Landfill Disposal		
Evaluation Criteria	**Detailed Analysis Summary**	**Score**
Overall protection of human health and the environment	All COCs would be removed.	5
Compliance with applicable or relevant and appropriate requirements (ARARs)	Satisfies ARARs	4
Long-term effectiveness and permanence	Long-term effectiveness and permanence due to removal of perchlorate	4
Reduction of toxicity, mobility, or volume (TMV) through treatment	All COCs above residential risk levels would be removed	4
Short-term effectiveness	Short term risks to workers during excavation and transport.	3
Implementability	Easily Implemented	5
Cost	$41,000	4
State and community acceptance	Potentially acceptable to the State and community.	5
Total Score		34

Notes and Key:
Each alternative's performance against the criteria is initially ranked on a scale of 0 to 5. The ranking scores are not intended to be quantitative, but rather are only summary indicators of the alternative's performance against the CERCLA against the CERCLA evaluation criteria. The rankings equate to the following qualifiers:

NR = Not ranked
0 = No/none
1 = Low
2 = Low-moderate
3 = Moderate
4 = Moderate-high
5 = High