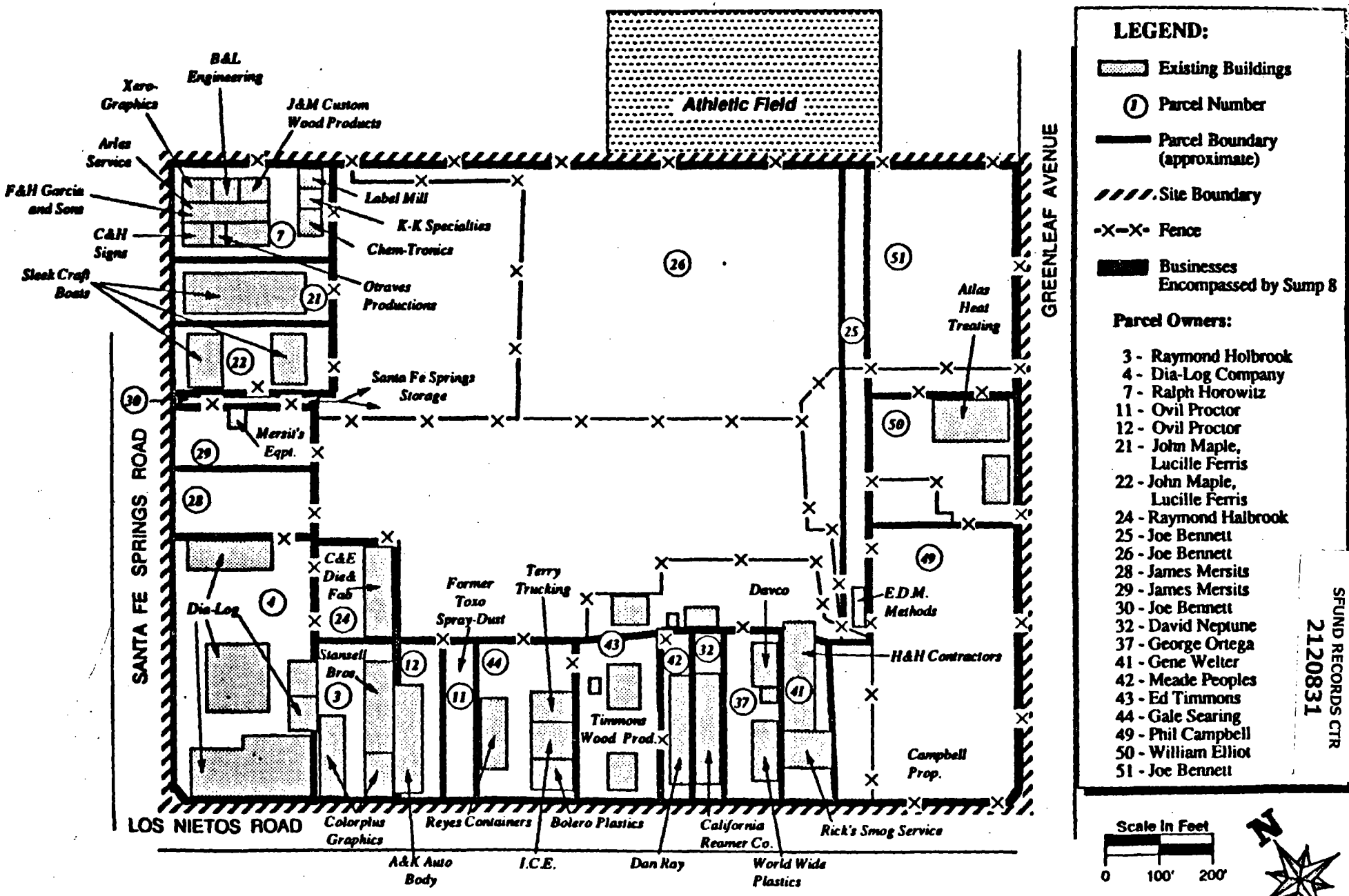
Figure 2-7
LAND USE MAP
WASTE DISPOSAL INC.



SFUND RECORDS CTR
2120831

Figure 3-8
LOCATIONS OF WASTE HANDLING AREAS
Waste Disposal, Inc.

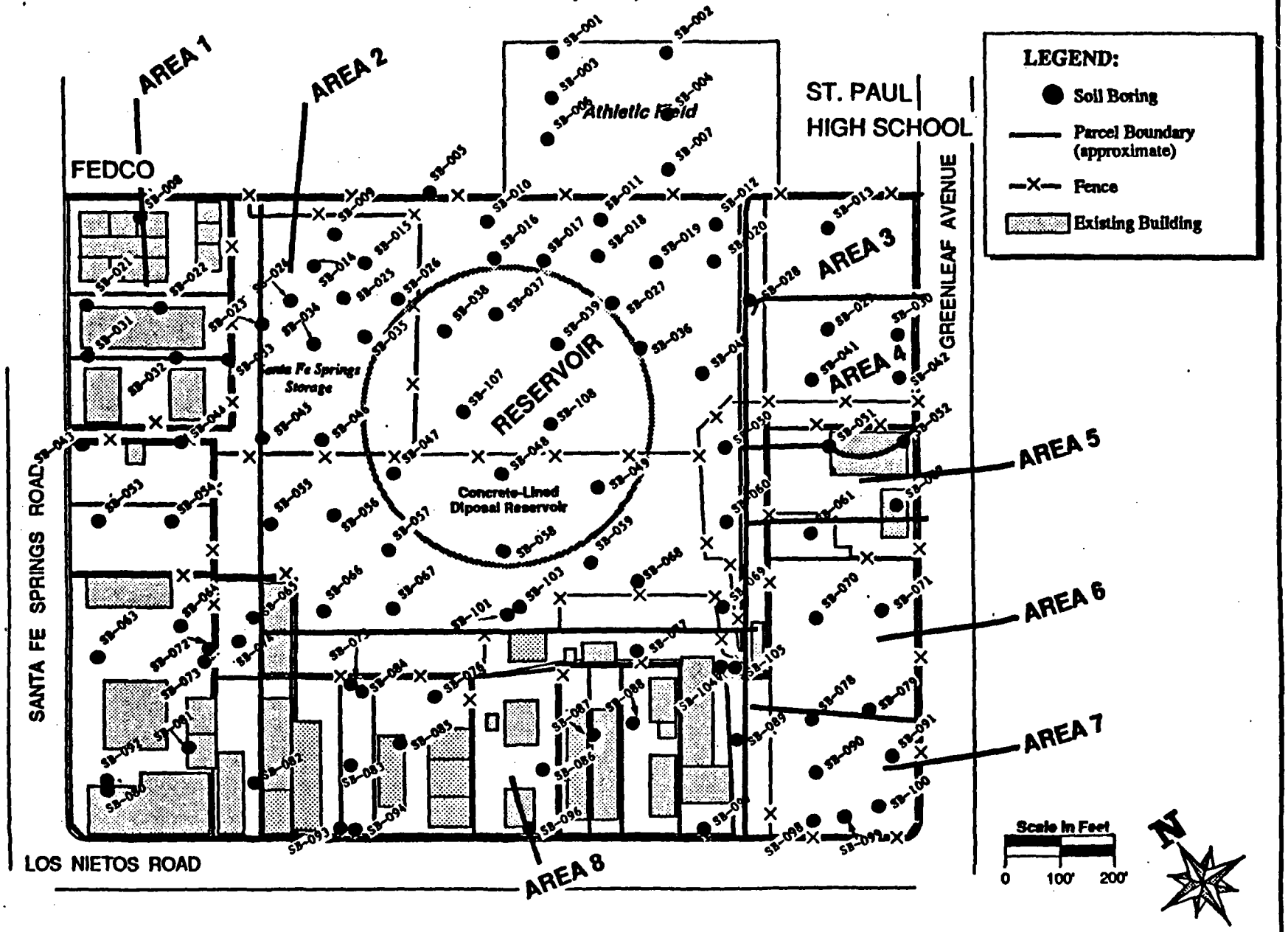
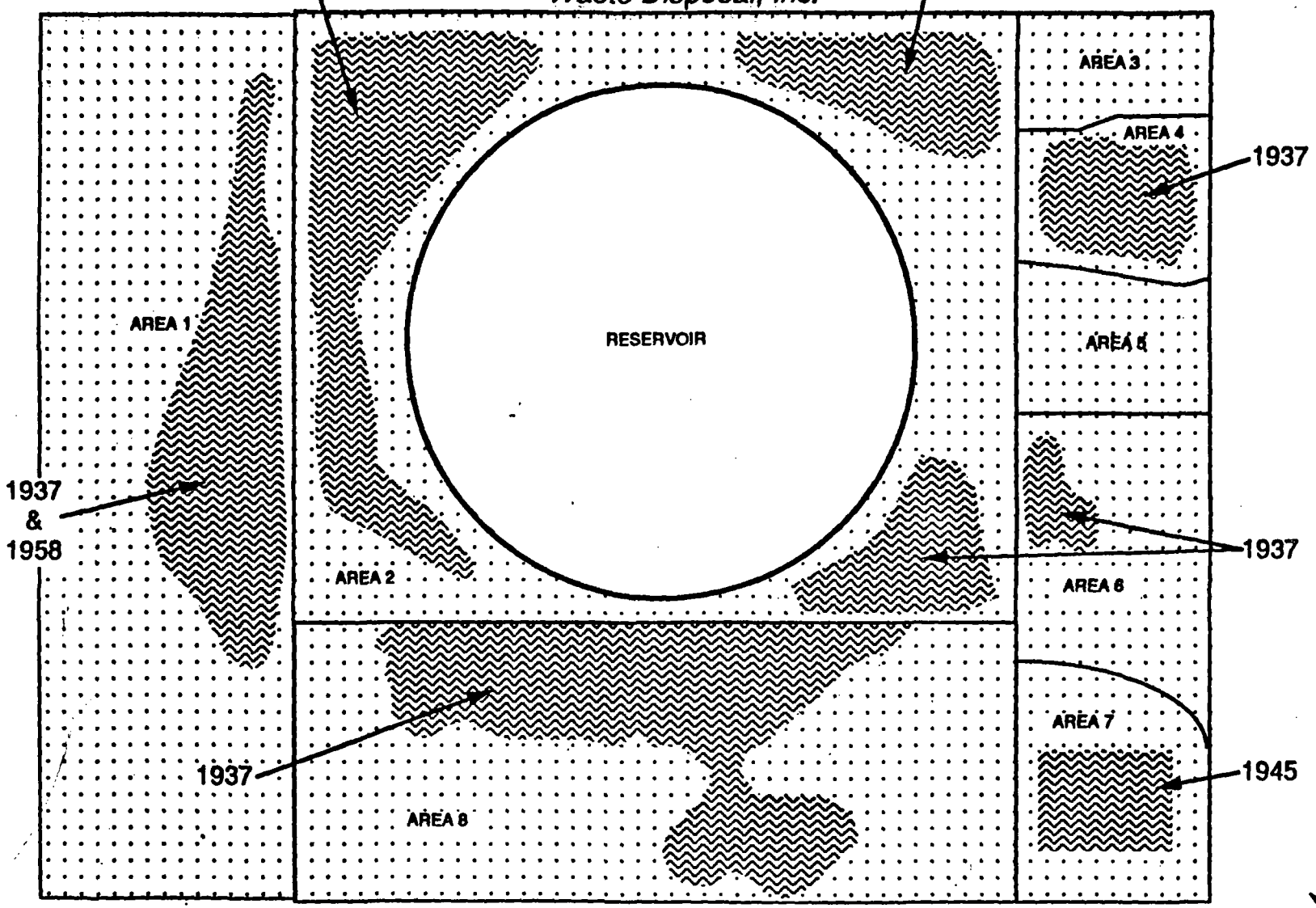


Figure 3-9
WASTE HANDLING AREAS 1-8 AS DEFINED BY AERIAL PHOTOS
Waste Disposal, Inc.



LEGEND: DATES REFER TO YEAR OF AVAILABLE AERIAL PHOTO — Standing Liquid — Extent of Area

Approx. Scale 1" = 200'

E # 23/ W01

TABLE 4-4

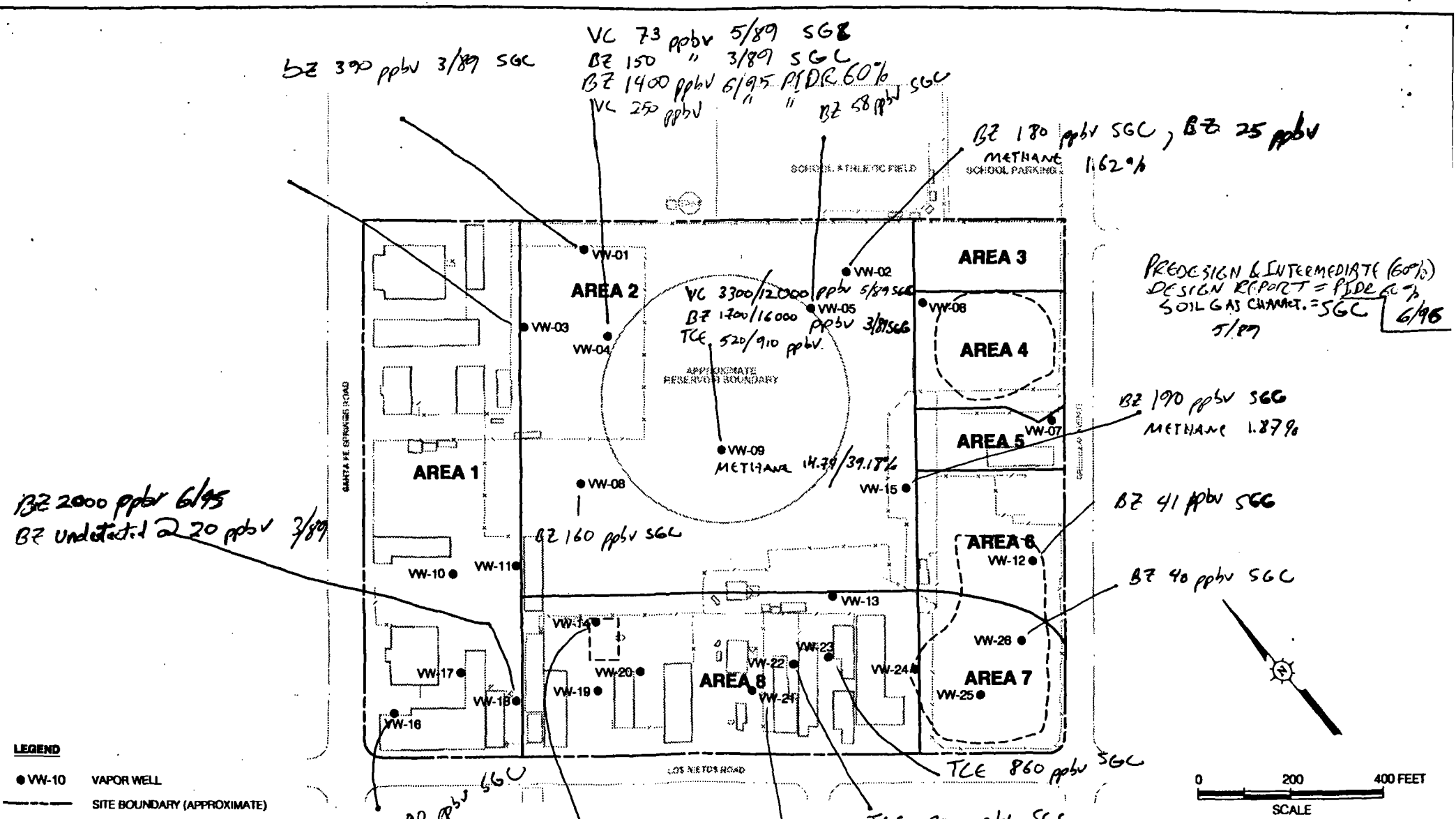
METALS CONCENTRATIONS COMPARED TO BACKGROUND
WDI RESERVOIR/WASTE HANDLING AREAS

Metals	Background Concentrations (mg/kg)	Frequency of Detects (%)	Minimum (ppm)	Maximum (ppm)	Median (ppm)	Standard Deviation (ppm)	Arithmetic Mean (ppm)	Geometric Mean (ppm)	STLC Values (ppm)	TTLC Values (ppm)
Aluminum, Al	3,450.00 - 10,300.00	100.00	3,000	39,600	12,600	6,867	12,954	10,969	b	c
Antimony, Sb	2.70 - 3.00	49.82	2	173	4.65	14.62	6.08	4.43	15.00	500.00
Arsenic, As	1.68 - 2.31	100.00	.71	337	5.45	21.91	8.74	5.36	5.36	500.00
Barium, Ba	37.50 - 71.10	100.00	29.8	4,450	150	506.22	267.55	145.36	100.00	10,000.00
Beryllium, Be	0.196 - 0.278	85.66	0.13	1.4	0.35	0.35	0.55	0.42	0.75	75.00
Cadmium, Cd	0.255 - 0.363	57.04	0.19	50.1	0.68	4.62	1.45	0.71	1.00	100.00
Calcium, Ca	1,360.0 - 1,870.0	100.00	1,280	92,400	4,285	12,837	8,986	5,208	b	c
Chromium, Cr	5.96 - 12.10	100.00	4.63	149	22.75	15.14	23.68	19.53	560.00	2,500.00
Cobalt, Co	3.00 - 7.17	99.64	2.46	31.8	11.25	5.44	11.17	9.67	80.00	8,000.00
Copper, Cu	4.95 - 13.80	99.29	3.44	721	24.1	64.98	35.37	22.3	25.00	2,500.00
Iron, Fe	6,130.00 - 13,700.00	100.00	5,350	61,600	20,600	8,974	20,170	17,890	b	c
Lead, Pb	3.33 - 7.00	99.64	1.5	2,790	7.3	305	82.55	11.59	5.00	1,000.00
Magnesium, Mg	1,660.00 - 3,220.00	100.00	1,440	27,200	5,985	3,380	6,193	5,307	b	c
Manganese, Mn	88.80 - 263.00	100.00	71.8	2,270	342	271.5	393.86	325.21	b	c
Mercury, Hg	0.018 - 0.0137	72.86	0.01	10.9	0.11	0.79	0.21	0.09	0.20	20.00
Molybdenum, Mo	0.194 - 0.268	47.65	0.19	33.4	0.55	3.01	1.24	0.72	350.00	3,500.00
Nickel, Ni	4.05 - 9.23	100.00	3.61	105	18.9	11.43	18.62	15.34	20.00	2,000.00
Potassium, K	818.00 - 2260.00	100.00	495	13,600	3,490	1,664	3,266	2,770	b	c
Selenium, Se	0.202 - 0.278	48.01	0.13	1.2	0.26	0.24	0.36	0.31	1.00	100.00
Silver, Ag	0.863 - 0.939	45.49	0.42	4.8	0.81	0.63	0.90	0.80	5.00	500.00
Sodium, Na	123.00 - 231.00	87.32	88.7	6,650	465	955.05	781.59	486.03	b	c
Thallium, Tl	9.77 - 12.00	41.52	0.55	39.2	12.6	5.77	14.34	13.07	7.00	700.00
Vanadium, V	10.60 - 27.30	100.00	9.33	107	40.3	17.55	38.80	34.11	24.00	2,400.00
Zinc, Zn	22.10 - 38.30	100.00	14	775	61.6	93.15	81.77	58.56	250.00	5,000.00

[a] Neither the waste extraction test (WET) to determine the STLC nor the EP Toxicity test have been conducted on WDI soil samples at this time. These values are provided for reference purposes only. Generally, if the concentration of a metal is 10 times the STLC or EP Toxicity test in soil it can be considered likely to occur in hazardous concentrations in leachate.

[b] Soluble Threshold Limit Concentrations (STLC) values have not been established for these metals under Title 22 of the California Code of Regulations (CCR).

[c] Total Threshold Limit Concentrations (TTLC) values have not been established for these metals under Title 22 of the California Code of Regulations (CCR).



REFERENCE: BASED ON FIGURES ... INVESTIGATION REPORT, EBASCO, 1989d.

FIGURE 2.2

VAPOR WELL LOCATIONS

WASTE DISPOSAL, INC.
SANTA FE SPRINGS, CALIFORNIA

ENVIRONMENTAL SOLUTIONS, INC.

TABLE 4-5

VOLATILE ORGANIC COMPOUNDS (VOC) CONCENTRATIONS
WDI RESERVOIR/WASTE-HANDLING AREA

Compound	Depth	Number of Detects	Number of Samples	Frequency of Detects (%)	STLC Values (mg/l)	Minimum (ppb)	Maximum (ppb)	Median (ppb)	Standard Deviation (ppb)	Arithmetic Mean (ppb)	Geometric Mean (ppb)
1,1,1-Trichloroethane	5,10,15,20,30,35	13	304	4.28	a	3	1,800	9	733.46	512.54	45.98
1,1,2,2-Trichloroethane	20	1	58	1.72	a	28	28	28	0	28.00	28.00
1,1,2-Trichloroethane	20	1	60	1.67	a	16	16	16	0	16	16
1,1-Dichloroethene	5,10,20,35	4	240	1.67	a	2	1,200	34.5	588.93	317.75	26.26
1,2-Dichloroethene	0,10,15,20	4	204	1.96	a	1.7	14	8.5	6.23	8.18	5.93
1,2-Dichloropropane	20	1	60	1.67	a	17	17	17	0	17	17
2-Butanone	0-50	93	398	23.37	a	1	11,000	12	1,139.02	148.03	14.41
2-Hexanone	10	1	62	1.61	a	3	3	3	0.00	3.00	3.00
4-Methyl-2-Pentanone	0,5,10,20	8	226	3.54	a	1	68	4.5	23.00	14.13	5.56
Acetone [b]	0-50	70	263	26.62	a	1	4,100	38.5	514.83	173.14	46.22
Benzene [c]	0-35	36	412	8.74	a	0	19,000	195	4,099.00	2,200.00	97.00
Benzyl Alcohol	35	1	68	1.47	a	89	89	89	0	89.00	89.00
Carbon Disulfide	5,10,15	4	152	2.63	a	1	10	5.5	3.87	5.5	4.09
Carbon Tetrachloride	10	1	62	1.61	a	2	2	2	0.00	2.00	2.00
Chlorobenzene	20	2	60	3.33	a	18	70	44	36.67	44.00	35.50
Chloroform	0-25	10	263	3.80	a	1	5	2	1.25	2.00	1.73
Chloromethane	5	1	48	2.08	a	2	2	2	0	2	2
Ethylbenzene [c]	0-35,50	67	418	16.03	a	1	73,000	230	10,886.19	4,995.87	202.12
Methylene Chloride [b]	0-50	82	250	32.80	a	1	2,400	8	386.00	140.00	14.00
Styrene	10,20	5	124	4.03	a	1	650	17	282.39	145.60	23.89
Tetrachloroethene	5-20	9	213	4.23	a	2	43,000	6	14,286.31	4,917.67	25.68
Toluene [b,c]	0-50,60	232	442	52.49	a	0.3	120,000	36.5	9,546.05	1,853.43	42.41
Trichloroethene [c]	10,15,20,35	7	235	2.98	204	1	5,000	21	1,859.90	806.43	28.67
Vinyl Acetate	0,40,45	3	65	4.62	a	9	76	64	35.73	49.67	35.24
Vinyl Chloride	10,15	3	110	2.73	a	1	1,700	18	976.00	573.00	31.00
Xylene [c]	0-35,60	52	410	12.68	a	2	410,000	515	71,250.61	24,236.68	441.93

[a] STLC Values have not been established for these chemicals under Title 22 of the California Code of Regulations (CCR).
[b] Common laboratory contaminant.
[c] Constituents commonly found in total petroleum hydrocarbon.

TABLE 4-6

SEMI-VOLATILE ORGANICS CONCENTRATIONS
WDI RESERVOIR/WASTE-HANDLING AREAS

Compound	Depth	Number of Detects	Number of Samples	Frequency of Detects (%)	STLC Values (mg/l)	Minimum (ppb)	Maximum (ppb)	Median (ppb)	Standard Deviation (ppb)	Arithmetic Mean (ppb)	Geometric Mean (ppb)
1,2,4-Trichlorobenzene	0,10,20,30	5	193	2.59	a	35	2,600	98	1,114.89	611.00	174.22
1,2-Dichlorobenzene	5,10,20	4	170	2.35	a	3	1,600	203.5	753.30	502.50	75.11
1,3-Dichlorobenzene	10	1	60	1.67	a	24	24	24	0.00	24.00	24.00
1,4-Dichlorobenzene	5,10,20	5	156	3.21	a	6	2,400	160	1,009.00	687.00	165.00
2,4-Dinitrotoluene	10	1	57	1.75	a	130	130	130	0.00	130.00	130.00
2,6-Dinitrotoluene	10	1	59	1.69	a	360	360	360	0.00	360.00	360.00
2-Chloronaphthalene	20	1	56	1.79	a	20	20	20	0.00	20.00	20.00
2-Chlorophenol	20,30	3	83	3.61	a	71	5,200	160	2,395.87	1,810.33	389.46
2-Methylnaphthalene	0-35,45,50,60	83	440	18.86	a	2	170,000	1200	32,293.77	14,573.77	1099.56
2-Methylphenol	0	1	50	2.00	a	79	79	79	0.00	79.00	79.00
3,3-Dichlorobenzidine	5,10	2	100	2.00	a	93	100	96.5	4.95	96.5	96.44
4-Chloro-3-methylphenol	0,10,20,30,35	6	260	2.31	a	73	5,300	145	2,107.60	1,000.00	234.58
4-Chloroaniline	5	1	48	2.08	a	140	140	140	0.00	140.00	140.00
4-Methylphenol	0,15,35	4	158	2.53	a	110	1200	715	451.70	685.00	507.87
4-Nitroaniline	5	1	46	2.17	a	82	82	82	0	82	82
4-Nitrophenol	35	5	136	3.68	a	80	1,700	780	582.05	806.00	562.57
Acenaphthene	0-30,50	14	305	4.59	a	2.7	2,300	130	914.56	669.98	151.65
Acenaphthylene	5,10,35	4	158	2.53	a	18	170	77.5	63.00	85.75	65.36
Anthracene	0-20	12	272	4.41	a	5	16,000	171	4,525.00	1,731.00	161.00
Benzo(a)anthracene	0,5,10,15,20	13	303	4.29	a	27	1,500	360	430.00	446.00	274.00
Benzo(a)pyrene	0-20,35	16	373	4.29	a	18	1,500	205	399.65	365.88	212.03
Benzo(b)fluoranthene	0-10,35	10	252	3.97	a	45	2,200	325	626.61	470.50	283.85
Benzo(g,h,i)perylene	0-10,35	8	228	3.51	a	51	660	170	252.27	288.63	191.00
Benzo(k)fluoranthene	0-10	5	152	3.29	a	48	410	120	162.07	201.80	148.85
Benzoic Acid	0-10,25,35	11	288	3.82	a	69	1,700	100	568.31	320.36	174.34
Butylbenzylphthalate	0,5,20,30,40,60	12	192	6.25	a	18	17,000	195	4,831.11	1,885.95	259.36
Chrysene	0-35	40	419	9.55	a	2	8,000	285	1,688.00	871.00	234.00

TABLE 4-6

SEMI-VOLATILE ORGANICS CONCENTRATIONS
WDI RESERVOIR/WASTE-HANDLING AREAS
(Continued)

Compound	Depth	Number of Detects	Number of Samples	Frequency of Detects (%)	STLC Values (mg/l)	Minimum (ppb)	Maximum (ppb)	Median (ppb)	Standard Deviation (ppb)	Arithmetic Mean (ppb)	Geometric Mean (ppb)
Di-n-butylphthalate	0-35	37	369	10.03	a	4	8,600	220	1,414.66	619.54	238.48
Di-n-octylphthalate	0-25,35	15	356	4.21	a	31	88,000	120	22,681.89	6,011.67	165.20
Dibenzofuran	0-20	9	251	3.59	a	3	1,300	280	435.67	383.78	98.06
Dibenz(a,h)anthracene	5,10	2	100	2.00	a	16	42	29	18.38	29	25.92
Diethylphthalate	15,35	3	105	2.86	a	22	360	48	188.09	143.33	72.44
Dimethylphthalate	0	1	50	2.00	a	1000	1,000	1,000	0	1,000.00	1,000.00
Fluoranthene	0-20	24	307	7.82	a	2.1	1,500	170	441.40	369.68	115.92
Fluorene	0-35	43	391	11.00	a	2	18,000	250	3,856.00	2,168.00	269.00
Hexachloroethane	15	1	40	2.50	a	280	280	280	0	280.00	280.00
Ideno(1,2,3-cd)pyrene	5,10,35	5	176	2.84	a	58	450	89	163.96	174.20	128.01
Isophorone	0,10,15	3	75	2.67	a	62	3,200	150	1,787.00	1,137.00	310.00
N-Nitrosodiphenylamine	5-15,25,30,35	7	250	2.80	a	90	4,000	950	1,326.00	1,247.00	731.00
Naphthalene	0-35,45,50,60	62	439	14.12	a	3.3	52,000	665	11,913.74	6,261.49	681.55
Nitrobenzene	10	1	57	1.75	a	20	20	20	0.00	20.00	20.00
Pentachlorophenol	0-10,30,35	7	238	2.94	a	180	340	230	59.64	257.14	251.26
Phenanthrene	0-35,45,50	67	422	15.88	a	5	44,000	550	8,959.50	4,341.60	552.04
Phenol	0,15,20	4	152	2.63	a	51	4,800	2800	2,057.00	2,613.00	1,152.00
Pyrene	0-35,60	41	424	9.67	a	2.5	4,300	180	941.35	623.63	164.57
bis(2-Ethylhexyl)phthalate	0-35	61	335	18.21	a	4	830,000	150	106,219.00	14,028.00	195.00

[a] STLC values have not been established for these chemicals under Title 22 of the California Code of Regulations (CCR).

TABLE 2-6
SUBSURFACE GAS SAMPLE RESULTS
COLLECTED AT THE WDI SITE

Chemical	Detection Frequency	Total Samples	CONCENTRATION (in ug/m3) Geometric Mean (a)	Geometric Mean (b)	Maximum	Detection Limit	Blank Geometric Mean (c)
Benzene	38%	26	99	524	28,000	64	67
Carbon Tetrachloride	3.8%	26	1.7	9.4	9.4	3.1	ND (d)
Chloroform	15%	26	3.8	45	120	4.9	ND
1,2-Dibromoethane	81%	26	160	209	590	110	210
1,2-Dichloroethane	3.8%	26	42	117	120	81	ND
Tetrachloroethylene	100%	26	88	88	520	6.8	30
1,1,1-Trichloroethane	50%	26	44	130	6,300	27	39
Trichloroethylene	92%	26	150	215	16,000	5.4	9.1
Vinyl Chloride	12%	26	38	945	20,000	51	ND

(a) - Geometric mean using all positively detected samples and one half the detection limit for non-detected samples.
(b) - Geometric mean using positive detects only.
(c) - Two blank samples were collected.
(d) - ND = Not detected in either blank sample.

Figure 2-3
GROUNDWATER MONITORING WELL LOCATIONS
Waste Disposal, Inc.

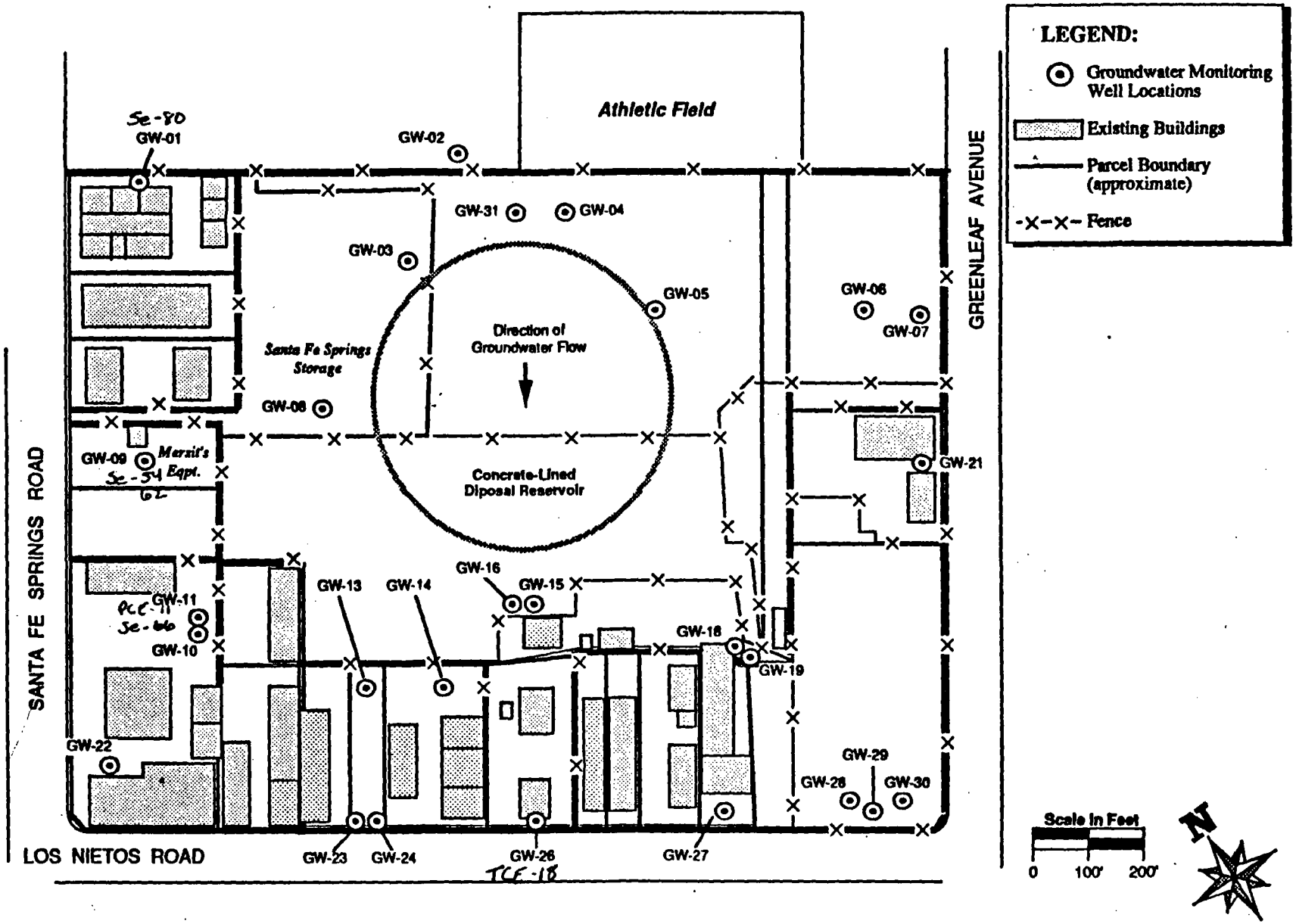


TABLE 4-9

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN THE RESERVOIR AREA

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	41	41	100	1.80	337.00	23.20
Cadmium	41	22	51	0.39	18.20	2.30
Chromium	41	41	100	8.26	149.00	34.67
Copper	41	41	100	7.30	721.00	57.45
Lead	41	41	100	4.80	23,000.00	822.20
Mercury	41	29	71	0.02	10.90	0.61
Selenium	41	17	41	0.20	0.87	0.41
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	38	5	13	1.00	13.00	6.00
Acetone	28	7	25	1.00	4,100.00	779.00
Benzene	47	15	32	1.80	19,000.00	3,727.00
Chloroform	41	0	0	N/A	N/A	N/A
Ethylbenzene	52	26	50	1.20	73,000.00	7,895.00
Methylene Chloride	26	12	46	1.00	1,200.00	249.00
Toluene	44	35	79	0.80	120,000.00	8,189.00
Xylene (total)	49	24	49	4.10	410,000.00	38,594.00
● Pesticides and PCB's				(ppb)	(ppb)	(ppb)
4,4'-DDD	43	4	9	2.00	28.00	10.60
4,4'-DDE	43	4	9	4.00	44.00	17.80
4,4'-DDT	43	4	9	15.00	72.00	43.80
Aldrin	43	0	0	N/A	N/A	N/A
Aroclor-1016	41	0	0	N/A	N/A	N/A
Aroclor-1221	41	0	0	N/A	N/A	N/A
Aroclor-1232	41	0	0	N/A	N/A	N/A
Aroclor-1242	41	0	0	N/A	N/A	N/A
Aroclor-1248	50	1	2	22.00	22.00	22.00
Aroclor-1254	41	3	14	86.00	570.00	329.00
Aroclor-1260	46	3	7	100.00	3,200.00	1,533.00
Dieldrin	43	1	2	7.80	7.80	7.80
Heptachlor	43	0	0	N/A	N/A	N/A
Heptachlor epoxide	43	2	5	2.50	46.00	24.30
Toxaphene	41	0	0	N/A	N/A	N/A
alpha-BHC	43	0	0	N/A	N/A	N/A
alpha-Chlordane	43	2	5	9.10	210.00	110.00
beta-BHC	43	0	0	N/A	N/A	N/A
delta-BHC	43	0	0	N/A	N/A	N/A
gamma-BHC (Lindane)	43	0	0	N/A	N/A	N/A
gamma-Chlordane	43	2	5	12.00	270.00	141.00
● Semi-Volatiles Organics				(ppb)	(ppb)	(ppb)
Acenaphthene	50	9	18	2.70	2,300.00	504.00
Acenaphthylene	49	1	2	18.00	18.00	18.00
Anthracene	50	6	12	5.00	260.00	65.00
Benzo(a)anthracene	50	2	4	27.00	600.00	314.00
Benzo(a)pyrene	50	2	4	18.00	280.00	149.00
Benzo(b)fluoranthene	44	2	5	310.00	410.00	360.00
Benzo(g,h,i)perylene	44	1	2	560.00	560.00	560.00
Benzo(k)fluoranthene	44	2	5	340.00	410.00	375.00
Benzoic Acid	44	3	7	100.00	1,700.00	640.00
Chrysene	50	9	18	2.20	7,400.00	1,219.00
Di-n-butylphthalate	49	4	8	4.00	230.00	84.00
Di-n-octylphthalate	44	1	2	630.00	630.00	630.00
Dibenz(a,h)anthracene	44	0	0	N/A	N/A	N/A
Fluoranthene	50	10	20	2.30	1,300.00	466.00
Fluorene	52	17	33	2.00	8,100.00	1,315.00
Indeno(1,2,3-cd)pyrene	44	0	0	N/A	N/A	N/A
Naphthalene	52	23	44	3.30	52,000.00	8,567.00
Pentachlorophenol	44	0	0	N/A	N/A	N/A
Phenanthrene	51	25	49	5.70	44,000.00	6,195.00
Pyrene	51	12	24	3.20	2,900.00	860.00
bis(2-ethylhexyl)phthalate	40	13	33	3.60	2,100.00	354.00

3747E

TABLE 4-10

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN AREA 1

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	28	28	100	1.08	20.70	7.22
Cadmium	21	21	75	0.19	50.10	4.05
Chromium	28	28	100	4.63	44.10	22.16
Copper	28	28	100	4.14	507.00	41.33
Lead	28	28	100	2.56	75.60	10.59
Mercury	25	25	89	0.02	0.63	0.10
Selenium	21	21	75	0.18	0.52	0.26
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	80	27	34	3.00	100.00	26.10
Acetone	53	8	15	11.00	150.00	70.00
Benzene	64	0	0	N/A	N/A	N/A
Chloroform	64	5	8	1.00	3.00	1.60
Ethylbenzene	63	0	0	N/A	N/A	N/A
Methylene Chloride	59	15	25	2.00	13.00	7.90
Toluene	77	36	47	1.00	2300.00	112.90
Xylene (total)	64	1	2	24.00	24.00	24.00
● Pesticides and PCB's				(ppb)	(ppb)	(ppb)
4,4'-DDD	79	6	8	3.00	36.00	15.40
4,4'-DDE	79	6	8	0.80	13.00	6.50
4,4'-DDT	75	1	1	36.00	36.00	36.00
Aldrin	63	0	0	N/A	N/A	N/A
Aroclor-1016	63	0	0	N/A	N/A	N/A
Aroclor-1221	63	0	0	N/A	N/A	N/A
Aroclor-1232	63	0	0	N/A	N/A	N/A
Aroclor-1242	63	0	0	N/A	N/A	N/A
Aroclor-1248	63	0	0	N/A	N/A	N/A
Aroclor-1254	63	0	0	N/A	N/A	N/A
Aroclor-1260	63	0	0	N/A	N/A	N/A
Dieldrin	63	0	0	N/A	N/A	N/A
Heptachlor	63	2	3	2.00	3.00	2.50
Heptachlor epoxide	63	0	0	N/A	N/A	N/A
Toxaphene	63	0	0	N/A	N/A	N/A
alpha-BHC	63	0	0	N/A	N/A	N/A
alpha-Chlordane	63	1	2	300.00	300.00	300.00
beta-BHC	63	0	0	N/A	N/A	N/A
delta-BHC	63	0	0	N/A	N/A	N/A
gamma-BHC (Lindane)	63	2	3	7.00	15.00	11.00
gamma-Chlordane	79	6	8	1.00	450.00	77.00
● Semi-Volatiles Organics				(ppb)	(ppb)	(ppb)
Acenaphthene	64	0	0	N/A	N/A	N/A
Acenaphthylene	62	0	0	N/A	N/A	N/A
Anthracene	64	2	3	1,000.00	1,600.00	1,300.00
Benzo(a)anthracene	80	3	4	76.00	530.00	302.00
Benzo(a)pyrene	80	3	4	55.00	750.00	428.30
Benzo(b)fluoranthene	80	0	0	N/A	N/A	N/A
Benzo(g,h,i)perylene	64	1	2	51.00	51.00	51.00
Benzo(k)fluoranthene	64	0	0	N/A	N/A	N/A
Benzoic Acid	64	2	3	89.00	1,300.00	694.50
Chrysene	80	7	9	88.00	620.00	306.80
Di-n-butylphthalate	67	4	6	77.00	570.00	399.30
Di-n-octylphthalate	80	5	6	31.00	210.00	108.60
Dibenz(a,h)anthracene	64	2	3	16.00	42.00	29.00
Fluoranthene	80	2	3	96.00	260.00	178.00
Fluorene	64	4	6	190.00	260.00	235.00
Indeno(1,2,3-cd)pyrene	64	1	2	58.00	58.00	58.00
Naphthalene	64	3	5	240.00	440.00	333.30
Pentachlorophenol	64	1	2	220.00	220.00	220.00
Phenanthrene	64	4	6	810.00	1,700.00	1,117.50
Pyrene	80	4	5	59.00	260.00	154.80
bis(2-ethylhexyl)phthalate	66	8	12	68.00	5,800.00	917.30

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TABLE 4-11

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN AREA 2

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	65	65	100	1.17	68.70	8.96
Cadmium	65	42	65	0.21	3.30	1.00
Chromium	65	65	100	5.20	75.70	24.22
Copper	65	64	98	3.44	243.00	35.08
Lead	65	65	100	1.60	1,140.00	95.93
Mercury	65	49	75	0.02	2.00	0.18
Selenium	61	30	49	0.18	1.10	0.36
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	79	20	25	2.00	11,000.00	585.00
Acetone	61	16	26	3.00	780.00	178.20
Benzene	93	8	9	0.20	4,200.00	1,152.90
Chloroform	74	0	0	N/A	N/A	N/A
Ethylbenzene	91	15	16	2.00	240,000.00	4,673.70
Methylene Chloride	58	16	28	1.00	430.00	73.00
Toluene	87	54	62	0.30	39,000.00	1,721.20
Xylene (total)	92	11	12	2.00	140,000.00	25,285.00
● Pesticides and PCB's				(ppb)	(ppb)	(ppb)
4,4'-DDD	83	2	2	62.00	90.00	76.00
4,4'-DDE	88	2	2	31.00	73.00	52.00
4,4'-DDT	80	6	8	4.00	160.00	44.30
Aldrin	88	1	1	23.00	23.00	23.00
Aroclor-1016	73	0	0	N/A	N/A	N/A
Aroclor-1221	73	0	0	N/A	N/A	N/A
Aroclor-1232	73	0	0	N/A	N/A	N/A
Aroclor-1242	73	0	0	N/A	N/A	N/A
Aroclor-1248	77	3	4	72.00	23,000.00	14,024.00
Aroclor-1254	73	3	4	31.00	140.00	97.00
Aroclor-1260	76	2	3	140.00	530.00	335.00
Dieldrin	74	0	0	N/A	N/A	N/A
Heptachlor	74	0	0	N/A	N/A	N/A
Heptachlor epoxide	74	0	0	N/A	N/A	N/A
Toxaphene	76	0	0	N/A	N/A	N/A
alpha-BHC	74	0	0	N/A	N/A	N/A
alpha-Chlordane	74	3	4	1.30	11.00	5.90
beta-BHC	74	0	0	N/A	N/A	N/A
delta-BHC	74	0	0	N/A	N/A	N/A
gamma-BHC (Lindane)	74	0	0	N/A	N/A	N/A
gamma-Chlordane	75	2	3	0.10	6.00	3.10
● Semi-Volatiles Organics				(ppb)	(ppb)	(ppb)
Acenaphthene	78	1	1	83.00	83.00	83.00
Acenaphthylene	77	2	3	20.00	84.00	52.00
Anthracene	86	2	2	53.00	1,100.00	576.50
Benzo(a)anthracene	92	4	4	360.00	1,100.00	590.00
Benzo(a)pyrene	92	3	3	290.00	1,500.00	756.70
Benzo(b)fluoranthene	89	3	3	350.00	2,200.00	1,040.00
Benzo(g,h,i)perylene	83	3	4	110.00	660.00	333.30
Benzo(k)fluoranthene	75	0	0	N/A	N/A	N/A
Benzoic Acid	75	3	4	83.00	230.00	137.70
Chrysene	92	8	9	2.30	2,600.00	718.50
Di-n-butylphthalate	79	12	15	44.00	8,600.00	1,278.70
Di-n-octylphthalate	76	1	1	36.00	36.00	36.00
Dibenz(a,h)anthracene	75	0	0	N/A	N/A	N/A
Fluoranthene	95	5	5	2.10	1,500.00	578.40
Fluorene	86	9	10	2.60	13,000.00	2,732.00
Indeno(1,2,3-cd)pyrene	83	2	2	200.00	450.00	325.00
Naphthalene	94	20	21	7.90	42,000.00	5,798.60
Pentachlorophenol	75	3	4	180.00	320.00	263.30
Phenanthrene	94	23	24	5.00	25,000.00	3,230.10
Pyrene	95	9	9	2.50	4,300.00	1,105.20
bis(2-ethylhexyl)phthalate	79	7	9	91.00	1,600.00	533.00

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TABLE 4-12

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN AREA 3

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	4	4	100	1.89	2.89	2.34
Cadmium	4	4	100	0.25	0.83	0.45
Chromium	4	4	100	6.42	17.70	13.28
Copper	4	4	100	5.82	17.00	11.54
Lead	4	4	100	2.34	15.60	7.15
Mercury	4	4	100	0.02	0.06	0.04
Selenium	4	4	100	0.21	0.24	0.23
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	7	6	86	9.00	100.00	54.00
Acetone	7	3	43	33.00	240.00	105.30
Benzene	7	0	0	N/A	N/A	N/A
Chloroform	3	1	33	2.00	2.00	2.00
Ethylbenzene	7	0	0	N/A	N/A	N/A
Methylene Chloride	5	0	0	N/A	N/A	N/A
Toluene	7	3	43	62.00	150.00	114.00
Xylene (total)	7	0	0	N/A	N/A	N/A
● Pesticides and PCB's				(ppb)	(ppb)	(ppb)
4,4'-DDD	3	0	0	N/A	N/A	N/A
4,4'-DDE	7	0	0	N/A	N/A	N/A
4,4'-DDT	7	0	0	N/A	N/A	N/A
Aldrin	3	0	0	N/A	N/A	N/A
Aroclor-1016	3	0	0	N/A	N/A	N/A
Aroclor-1221	3	0	0	N/A	N/A	N/A
Aroclor-1232	3	0	0	N/A	N/A	N/A
Aroclor-1242	3	0	0	N/A	N/A	N/A
Aroclor-1248	3	0	0	N/A	N/A	N/A
Aroclor-1254	3	0	0	N/A	N/A	N/A
Aroclor-1260	3	0	0	N/A	N/A	N/A
Dieldrin	3	0	0	N/A	N/A	N/A
Heptachlor	3	0	0	N/A	N/A	N/A
Heptachlor epoxide	3	0	0	N/A	N/A	N/A
Toxaphene	3	0	0	N/A	N/A	N/A
alpha-BHC	3	0	0	N/A	N/A	N/A
alpha-Chlordane	3	0	0	N/A	N/A	N/A
beta-BHC	3	0	0	N/A	N/A	N/A
delta-BHC	3	0	0	N/A	N/A	N/A
gamma-BHC (Lindane)	3	0	0	N/A	N/A	N/A
gamma-Chlordane	3	0	0	N/A	N/A	N/A
● Semi-Volatiles Organics				(ppb)	(ppb)	(ppb)
Acenaphthene	3	0	0	N/A	N/A	N/A
Acenaphthylene	3	0	0	N/A	N/A	N/A
Anthracene	3	0	0	N/A	N/A	N/A
Benzo(a)anthracene	7	1	14	180.00	180.00	180.00
Benzo(a)pyrene	7	1	14	210.00	210.00	210.00
Benzo(b)fluoranthene	7	1	14	340.00	340.00	340.00
Benzo(g,h,i)perylene	3	0	0	N/A	N/A	N/A
Benzo(k)fluoranthene	3	0	0	N/A	N/A	N/A
Benzoic Acid	3	0	0	N/A	N/A	N/A
Chrysene	7	1	14	200.00	200.00	200.00
Di-n-butylphthalate	6	4	67	98.00	200.00	162.00
Di-n-octylphthalate	3	0	0	N/A	N/A	N/A
Dibenz(a,h)anthracene	3	0	0	N/A	N/A	N/A
Fluoranthene	7	1	14	170.00	170.00	170.00
Fluorene	7	0	0	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	3	0	0	N/A	N/A	N/A
Naphthalene	7	0	0	N/A	N/A	N/A
Pentachlorophenol	3	0	0	N/A	N/A	N/A
Phenanthrene	7	0	0	N/A	N/A	N/A
Pyrene	7	1	14	280.00	280.00	280.00
bis(2-ethylhexyl)phthalate	7	2	29	36.00	66.00	51.00

TABLE 4-13

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN AREA 4

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	14	14	100	1.62	12.80	5.23
Cadmium	14	9	64	0.24	1.70	0.56
Chromium	14	14	100	6.59	35.40	22.78
Copper	14	14	100	6.26	48.00	28.45
Lead	14	14	100	3.14	26.80	11.30
Mercury	14	13	93	0.03	0.35	0.15
Selenium	14	6	43	0.24	0.61	0.33
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	26	3	12	1.00	12.00	6.00
Acetone	11	6	55	12.00	300.00	143.70
Benzene	26	4	15	130.00	6,700.00	3,497.50
Chloroform	24	0	0	N/A	N/A	N/A
Ethylbenzene	26	7	27	4.00	14,000.00	4,760.60
Methylene Chloride	9	7	78	6.00	2,400.00	578.00
Toluene	26	10	38	2.00	11,000.00	1,391.30
Xylene (total)	26	4	15	2.00	42,000.00	11,001.00
● Pesticides and PCB's				(ppb)	(ppb)	(ppb)
4,4'-DDD	27	0	0	N/A	N/A	N/A
4,4'-DDE	27	0	0	N/A	N/A	N/A
4,4'-DDT	27	0	0	N/A	N/A	N/A
Aldrin	27	0	0	N/A	N/A	N/A
Aroclor-1016	27	0	0	N/A	N/A	N/A
Aroclor-1221	27	0	0	N/A	N/A	N/A
Aroclor-1232	27	0	0	N/A	N/A	N/A
Aroclor-1242	27	0	0	N/A	N/A	N/A
Aroclor-1248	27	0	0	N/A	N/A	N/A
Aroclor-1254	27	0	0	N/A	N/A	N/A
Aroclor-1260	27	0	0	N/A	N/A	N/A
Dieldrin	27	1	4	35.00	35.00	35.00
Heptachlor	27	1	4	87.00	87.00	87.00
Heptachlor epoxide	27	0	0	N/A	N/A	N/A
Toxaphene	27	0	0	N/A	N/A	N/A
alpha-BHC	27	0	0	N/A	N/A	N/A
alpha-Chlordane	27	0	0	N/A	N/A	N/A
beta-BHC	27	0	0	N/A	N/A	N/A
delta-BHC	27	0	0	N/A	N/A	N/A
gamma-BHC (Lindane)	27	0	0	N/A	N/A	N/A
gamma-Chlordane	27	0	0	N/A	N/A	N/A
● Semi-Volatiles Organics				(ppb)	(ppb)	(ppb)
Acenaphthene	27	3	11	140.00	2,300.00	1,546.70
Acenaphthylene	27	0	0	N/A	N/A	N/A
Anthracene	27	1	4	16,000.00	16,000.00	16,000.00
Benzo(a)anthracene	27	1	4	1,500.00	1,500.00	1,500.00
Benzo(a)pyrene	27	1	4	110.00	110.00	110.00
Benzo(b)fluoranthene	27	1	4	170.00	170.00	170.00
Benzo(g,h,i)perylene	27	1	4	77.00	77.00	77.00
Benzo(k)fluoranthene	27	1	4	91.00	91.00	91.00
Benzoic Acid	27	2	7	76.00	87.00	81.50
Chrysene	27	5	19	97.00	8,000.00	2,201.40
Di-n-butylphthalate	23	1	4	470.00	470.00	470.00
Di-n-octylphthalate	27	2	7	110.00	120.00	115.00
Dibenz(a,h)anthracene	27	0	0	N/A	N/A	N/A
Fluoranthene	27	1	4	68.00	68.00	68.00
Fluorene	27	5	19	1,100.00	18,000.00	7,840.00
Indeno(1,2,3-cd)pyrene	27	1	4	74.00	74.00	74.00
Naphthalene	27	5	19	660.00	24,000.00	13,032.00
Pentachlorophenol	27	0	0	N/A	N/A	N/A
Phenanthrene	27	4	15	430.00	29,000.00	10,632.50
Pyrene	27	4	15	47.00	1,500.00	425.30
bis(2-ethylhexyl)phthalate	18	3	17	65.00	190.00	107.00

TABLE 4-14

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN AREA 5

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	5	5	100	7.50	17.00	11.70
Cadmium	6	4	67	0.27	1.40	0.85
Chromium	6	6	100	6.70	43.20	30.57
Copper	6	6	100	22.50	103.00	62.93
Lead	6	6	100	1.70	19.50	9.30
Mercury	6	5	83	0.04	0.32	0.15
Selenium	5	4	80	0.26	4.80	1.47
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	10	2	20	12.00	15.00	13.50
Acetone	5	2	40	7.00	28.00	17.50
Benzene	10	0	0	N/A	N/A	N/A
Chloroform	10	1	10	5.00	5.00	5.00
Ethylbenzene	10	0	0	N/A	N/A	N/A
Methylene Chloride	2	0	0	N/A	N/A	N/A
Toluene	10	4	40	1.00	420.00	123.00
Xylene (total)	10	0	0	N/A	N/A	N/A
● Pesticides and PCB's				(ppb)	(ppb)	(ppb)
4,4'-DDD	10	0	0	N/A	N/A	N/A
4,4'-DDE	10	0	0	N/A	N/A	N/A
4,4'-DDT	10	1	10	22.00	22.00	22.00
Aldrin	10	0	0	N/A	N/A	N/A
Aroclor-1016	10	0	0	N/A	N/A	N/A
Aroclor-1221	10	0	0	N/A	N/A	N/A
Aroclor-1232	10	0	0	N/A	N/A	N/A
Aroclor-1242	10	0	0	N/A	N/A	N/A
Aroclor-1248	10	0	0	N/A	N/A	N/A
Aroclor-1254	10	0	0	N/A	N/A	N/A
Aroclor-1260	10	0	0	N/A	N/A	N/A
Dieldrin	10	0	0	N/A	N/A	N/A
Heptachlor	10	0	0	N/A	N/A	N/A
Heptachlor epoxide	10	0	0	N/A	N/A	N/A
Toxaphene	10	0	0	N/A	N/A	N/A
alpha-BHC	10	0	0	N/A	N/A	N/A
alpha-Chlordane	10	0	0	N/A	N/A	N/A
beta-BHC	10	0	0	N/A	N/A	N/A
delta-BHC	10	0	0	N/A	N/A	N/A
gamma-BHC (Lindane)	10	0	0	N/A	N/A	N/A
gamma-Chlordane	10	0	0	N/A	N/A	N/A
● Semi-Volatiles Organics				(ppb)	(ppb)	(ppb)
Acenaphthene	10	0	0	N/A	N/A	N/A
Acenaphthylene	10	0	0	N/A	N/A	N/A
Anthracene	10	0	0	N/A	N/A	N/A
Benzo(a)anthracene	10	0	0	N/A	N/A	N/A
Benzo(a)pyrene	10	0	0	N/A	N/A	N/A
Benzo(b)fluoranthene	10	0	0	N/A	N/A	N/A
Benzo(g,h,i)perylene	10	0	0	N/A	N/A	N/A
Benzo(k)fluoranthene	10	0	0	N/A	N/A	N/A
Benzoic Acid	10	0	0	N/A	N/A	N/A
Chrysene	10	0	0	N/A	N/A	N/A
Di-n-butylphthalate	23	3	30	90.00	860.00	513.30
Di-n-octylphthalate	10	0	0	N/A	N/A	N/A
Dibenz(a,h)anthracene	10	0	0	N/A	N/A	N/A
Fluoranthene	10	0	0	N/A	N/A	N/A
Fluorene	10	0	0	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	10	0	0	N/A	N/A	N/A
Naphthalene	10	0	0	N/A	N/A	N/A
Pentachlorophenol	10	0	0	N/A	N/A	N/A
Phenanthrene	10	0	0	N/A	N/A	N/A
Pyrene	10	1	10	87.00	87.00	87.00
bis(2-ethylhexyl)phthalate	10	2	20	140.00	150.000	145.00

TABLE 4-15

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN AREA 6

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	5	5	100	3.50	9.55	6.05
Cadmium	6	6	100	0.30	2.30	1.40
Chromium	6	5	83	7.40	30.00	17.48
Copper	6	6	100	6.00	39.20	17.06
Lead	6	6	100	1.50	13.50	6.27
Mercury	6	3	50	0.03	0.11	0.08
Selenium	6	2	33	0.25	0.26	0.26
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	17	2	12	20.00	92.00	56.00
Acetone	5	5	100	29.00	73.00	42.40
Benzene	17	2	12	1.00	6.00	3.50
Chloroform	14	0	0	N/A	N/A	N/A
Ethylbenzene	17	3	18	5.00	11.00	8.70
Methylene Chloride	4	4	100	6.00	8.00	7.25
Toluene	17	4	24	2.00	24.00	13.50
Xylene (total)	17	3	18	16.00	31.00	24.30
● Pesticides and PCB's				(ppb)	(ppb)	(ppb)
4,4'-DDD	17	0	0	N/A	N/A	N/A
4,4'-DDE	17	0	0	N/A	N/A	N/A
4,4'-DDT	17	0	0	N/A	N/A	N/A
Aldrin	17	0	0	N/A	N/A	N/A
Aroclor-1016	17	0	0	N/A	N/A	N/A
Aroclor-1221	17	0	0	N/A	N/A	N/A
Aroclor-1232	17	0	0	N/A	N/A	N/A
Aroclor-1242	17	0	0	N/A	N/A	N/A
Aroclor-1248	17	1	6	1,700.00	1,700.000	1,700.00
Aroclor-1254	17	0	0	N/A	N/A	N/A
Aroclor-1260	17	0	0	N/A	N/A	N/A
Dieldrin	17	0	0	N/A	N/A	N/A
Heptachlor	17	0	0	N/A	N/A	N/A
Heptachlor epoxide	17	0	0	N/A	N/A	N/A
Toxaphene	17	0	0	N/A	N/A	N/A
alpha-BHC	17	0	0	N/A	N/A	N/A
alpha-Chlordane	17	0	0	N/A	N/A	N/A
beta-BHC	17	0	0	N/A	N/A	N/A
delta-BHC	17	0	0	N/A	N/A	N/A
gamma-BHC (Lindane)	17	0	0	N/A	N/A	N/A
gamma-Chlordane	17	0	0	N/A	N/A	N/A
● Semi-Volatiles Organics				(ppb)	(ppb)	(ppb)
Acenaphthene	17	0	0	N/A	N/A	N/A
Acenaphthylene	17	1	6	71.00	71.00	71.00
Anthracene	17	0	0	N/A	N/A	N/A
Benzo(a)anthracene	17	0	0	N/A	N/A	N/A
Benzo(a)pyrene	17	0	0	N/A	N/A	N/A
Benzo(b)fluoranthene	17	1				
Benzo(g,h,i)perylene	17	0	0	N/A	N/A	N/A
Benzo(k)fluoranthene	17	0	0	N/A	N/A	N/A
Benzoic Acid	17	2	12	69.00	220.00	144.50
Chrysene	17	0	0	N/A	N/A	N/A
Di-n-butylphthalate	17	1	6	1,800.00	1,800.00	1,800.00
Di-n-octylphthalate	17	1	6	88,000.00	88,000.00	88,000.00
Dibenz(a,h)anthracene	17	0	0	N/A	N/A	N/A
Fluoranthene	17	1	6	150.00	150.00	150.00
Fluorene	17	0	0	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	17	0	0	N/A	N/A	N/A
Naphthalene	17	0	0	N/A	N/A	N/A
Pentachlorophenol	17	0	0	N/A	N/A	N/A
Phenanthrene	17	0	0	N/A	N/A	N/A
Pyrene	17	1	6	220.00	220.00	220.00
bis(2-ethylhexyl)phthalate	14	4	29	38.00	830,000.00	209,584.00

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TABLE 4-16

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN AREA 7

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	3	3	100	3.00	12.10	6.50
Cadmium	4	3	75	1.64	5.70	3.21
Chromium	4	4	100	20.20	55.80	35.58
Copper	4	4	100	19.80	79.70	49.30
Lead	4	4	100	10.00	63.00	29.25
Mercury	4	1	25	0.02	0.02	0.02
Selenium	2	1	50	0.25	0.25	0.25
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	5	0	0	N/A	N/A	N/A
Acetone	2	1	50	16.00	16.00	16.00
Benzene	4	0	0	N/A	N/A	N/A
Chloroform	4	0	0	N/A	N/A	N/A
Ethylbenzene	4	1	25	3.00	3.00	3.00
Methylene Chloride	3	2	67	4.00	810.00	407.00
Toluene	3	0	0	N/A	N/A	N/A
Xylene (total)	3	0	0	N/A	N/A	N/A
● Pesticides and PCB's				(ppb)	(ppb)	(ppb)
4,4'-DDD	6	0	0	N/A	N/A	N/A
4,4'-DDE	6	0	0	N/A	N/A	N/A
4,4'-DDT	6	0	0	N/A	N/A	N/A
Aldrin	6	0	0	N/A	N/A	N/A
Aroclor-1016	6	0	0	N/A	N/A	N/A
Aroclor-1221	6	0	0	N/A	N/A	N/A
Aroclor-1232	6	0	0	N/A	N/A	N/A
Aroclor-1242	6	0	0	N/A	N/A	N/A
Aroclor-1248	6	0	0	N/A	N/A	N/A
Aroclor-1254	6	0	0	N/A	N/A	N/A
Aroclor-1260	6	0	0	N/A	N/A	N/A
Dieldrin	6	0	0	N/A	N/A	N/A
Heptachlor	6	0	0	N/A	N/A	N/A
Heptachlor epoxide	6	0	0	N/A	N/A	N/A
Toxaphene	6	0	0	N/A	N/A	N/A
alpha-BHC	6	0	0	N/A	N/A	N/A
alpha-Chlordane	6	0	0	N/A	N/A	N/A
beta-BHC	6	0	0	N/A	N/A	N/A
delta-BHC	6	0	0	N/A	N/A	N/A
gamma-BHC (Lindane)	6	0	0	N/A	N/A	N/A
gamma-Chlordane	6	0	0	N/A	N/A	N/A
● Semi-Volatiles Organics				(ppb)	(ppb)	(ppb)
Acenaphthene	6	0	0	N/A	N/A	N/A
Acenaphthylene	6	0	0	N/A	N/A	N/A
Anthracene	6	0	0	N/A	N/A	N/A
Benzo(a)anthracene	6	0	0	N/A	N/A	N/A
Benzo(a)pyrene	6	1	17	960.00	960.00	960.00
Benzo(b)fluoranthene	6	0	0	N/A	N/A	N/A
Benzo(g,h,i)perylene	6	0	0	N/A	N/A	N/A
Benzo(k)fluoranthene	6	0	0	N/A	N/A	N/A
Benzoic Acid	5	0	0	N/A	N/A	N/A
Chrysene	6	1	17	300.00	300.00	300.00
Di-n-butylphthalate	4	0	0	N/A	N/A	N/A
Di-n-octylphthalate	6	0	0	N/A	N/A	N/A
Dibenz(a,h)anthracene	6	0	0	N/A	N/A	N/A
Fluoranthene	6	0	0	N/A	N/A	N/A
Fluorene	6	0	0	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	6	0	0	N/A	N/A	N/A
Naphthalene	6	0	0	N/A	N/A	N/A
Pentachlorophenol	6	0	0	N/A	N/A	N/A
Phenanthrene	6	0	0	N/A	N/A	N/A
Pyrene	6	1	17	36.00	36.00	36.00
bis(2-ethylhexyl)phthalate	4	1	25	25.00	350.00	350.00

TABLE 4-17

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN AREA 8

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	52	52	100	1.00	18.00	6.04
Cadmium	52	20	38	0.33	1.87	0.98
Chromium	52	52	100	5.70	62.70	21.87
Copper	52	51	98	4.80	270.00	28.09
Lead	52	52	100	1.50	2,640.00	71.38
Mercury	52	30	58	0.02	0.62	0.16
Selenium	51	17	33	0.20	1.20	0.58
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	22	3	14	11.00	78.00	34.30
Acetone	20	3	15	8.00	63.00	29.00
Benzene	44	0	0	N/A	N/A	N/A
Chloroform	38	0	0	N/A	N/A	N/A
Ethylbenzene	45	8	18	10.00	11,000.00	3,122.90
Methylene Chloride	24	7	29	1.00	14.00	266.90
Toluene	42	30	71	6.00	12,000.00	735.40
Xylene (total)	44	6	14	360.00	2,800.00	1,865.00
● Pesticides and PCB's				(ppb)	(ppb)	(ppb)
4,4'-DDD	41	6	15	130.00	62,000.00	11,921.70
4,4'-DDE	41	5	12	66.00	30,000.00	6,261.20
4,4'-DDT	33	3	9	6.00	260,000.00	87,113.30
Aldrin	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1016	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1221	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1232	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1242	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1248	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1254	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1260	0	N/A	N/A	N/A	N/A	N/A
Dieldrin	0	N/A	N/A	N/A	N/A	N/A
Heptachlor	0	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	0	N/A	N/A	N/A	N/A	N/A
Toxaphene	0	N/A	N/A	N/A	N/A	N/A
alpha-BHC	0	N/A	N/A	N/A	N/A	N/A
alpha-Chlordane	0	N/A	N/A	N/A	N/A	N/A
beta-BHC	0	N/A	N/A	N/A	N/A	N/A
delta-BHC	36	2	6	230.00	980.00	605.00
gamma-BHC (Lindane)	0	N/A	N/A	N/A	N/A	N/A
gamma-Chlordane	36	5	14	36.00	12.00	483.20
● Semi-Volatiles Organics				(ppb)	(ppb)	(ppb)
Acenaphthene	33	0	0	N/A	N/A	N/A
Acenaphthylene	40	0	0	N/A	N/A	N/A
Anthracene	38	1	3	620.00	620.00	620.00
Benzo(a)anthracene	38	0	0	N/A	N/A	N/A
Benzo(a)pyrene	38	1	3	96.00	96.00	96.00
Benzo(b)fluoranthene	38	1	3	130.00	130.00	130.00
Benzo(g,h,i)perylene	36	1	3	91.00	91.00	91.00
Benzo(k)fluoranthene	33	0	0	N/A	N/A	N/A
Benzoic Acid	38	0	0	N/A	N/A	N/A
Chrysene	38	4	11	99.00	280.00	167.30
Di-n-butylphthalate	30	3	10	52.00	190.00	120.70
Di-n-octylphthalate	33	2	6	230.00	240.00	235.00
Dibenz(a,h)anthracene	31	0	0	N/A	N/A	N/A
Fluoranthene	39	0	0	N/A	N/A	N/A
Fluorene	34	5	15	92.00	2,000.00	590.40
Indeno(1,2,3-cd)pyrene	36	1	3	89.00	89.00	89.00
Naphthalene	46	6	13	78.00	1,900.00	804.70
Pentachlorophenol	33	0	0	N/A	N/A	N/A
Phenanthrene	39	6	15	76.00	4,500.00	1,191.00
Pyrene	38	1	3	770.00	770.00	770.00
bis(2-ethylhexyl)phthalate	23	4	17	84.00	490.00	251.00

TABLE 4-18

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN SCHOOL/FEDCO

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	12	12	100	1.63	15.90	5.56
Cadmium	12	3	25	0.26	0.36	0.29
Chromium	12	12	100	5.90	51.20	17.85
Copper	12	12	100	4.95	41.50	20.27
Lead	12	12	100	1.70	10.00	5.92
Mercury	12	6	50	0.02	0.19	0.12
Selenium	12	3	25	0.20	0.28	0.24
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	0	N/A	N/A	N/A	N/A	N/A
Acetone	6	3	50	11.00	32.00	24.30
Benzene	0	N/A	N/A	N/A	N/A	N/A
Chloroform	6	2	33	1.00	2.00	1.50
Ethylbenzene	0	N/A	N/A	N/A	N/A	N/A
Methylene Chloride	0	N/A	N/A	N/A	N/A	N/A
Toluene	0	N/A	N/A	N/A	N/A	N/A
Xylene (total)	0	N/A	N/A	N/A	N/A	N/A
● Pesticides and PCB's						
4,4'-DDD	0	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	0	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	0	N/A	N/A	N/A	N/A	N/A
Aldrin	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1016	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1221	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1232	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1242	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1248	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1254	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1260	0	N/A	N/A	N/A	N/A	N/A
Dieldrin	0	N/A	N/A	N/A	N/A	N/A
Heptachlor	0	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	0	N/A	N/A	N/A	N/A	N/A
Toxaphene	0	N/A	N/A	N/A	N/A	N/A
alpha-BHC	0	N/A	N/A	N/A	N/A	N/A
alpha-Chlordane	0	N/A	N/A	N/A	N/A	N/A
beta-BHC	0	N/A	N/A	N/A	N/A	N/A
delta-BHC	0	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	0	N/A	N/A	N/A	N/A	N/A
gamma-Chlordane	0	N/A	N/A	N/A	N/A	N/A
● Semi-Volatiles Organics						
Acenaphthene	0	N/A	N/A	N/A	N/A	N/A
Acenaphthylene	0	N/A	N/A	N/A	N/A	N/A
Anthracene	0	N/A	N/A	N/A	N/A	N/A
Benzo(a)anthracene	0	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	0	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	0	N/A	N/A	N/A	N/A	N/A
Benzo(g,h,i)perylene	0	N/A	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	0	N/A	N/A	N/A	N/A	N/A
Benzoic Acid	0	N/A	N/A	N/A	N/A	N/A
Chrysene	0	N/A	N/A	N/A	N/A	N/A
Di-n-butylphthalate	0	N/A	N/A	N/A	N/A	N/A
Di-n-octylphthalate	0	N/A	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	0	N/A	N/A	N/A	N/A	N/A
Fluoranthene	0	N/A	N/A	N/A	N/A	N/A
Fluorene	0	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	0	N/A	N/A	N/A	N/A	N/A
Naphthalene	0	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	0	N/A	N/A	N/A	N/A	N/A
Phenanthrene	0	N/A	N/A	N/A	N/A	N/A
Pyrene	0	N/A	N/A	N/A	N/A	N/A
bis(2-ethylhexyl)phthalate	0	N/A	N/A	N/A	N/A	N/A

TABLE 6-4

ORGANIC GASES DETECTED AT THE WDI RESERVOIR/WASTE-HANDLING AREAS

Compound	Reservoir	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
1,1,1-Trichloroethane		X	X				X	X	X
1,2-Dichloroethene									X
Benzene	X		X				X		X
Chloroform									X
Methane	X	X	X			X		X	X
Tetrachloroethene	X	x	X		X	X	X	X	X
Trichloroethene	X	x	X		X	X	X	X	X
Vinyl Chloride	X		X						X

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TABLE 4-18

CHEMICAL CONCENTRATIONS OF COMPOUNDS
OF CONCERN IN SCHOOL/FEDCO

Analyte	No. of Samples	No. of Detects	Frequency (%) of Detects	Min.	Max.	Average
● Metals				(ppm)	(ppm)	(ppm)
Arsenic	12	12	100	1.63	15.90	5.56
Cadmium	12	3	25	0.26	0.36	0.29
Chromium	12	12	100	5.90	51.20	17.85
Copper	12	12	100	4.95	41.50	20.27
Lead	12	12	100	1.70	10.00	5.92
Mercury	12	6	50	0.02	0.19	0.12
Selenium	12	3	25	0.20	0.28	0.24
● Volatile Organics				(ppb)	(ppb)	(ppb)
2-Butanone	0	N/A	N/A	N/A	N/A	N/A
Acetone	6	3	50	11.00	32.00	24.30
Benzene	0	N/A	N/A	N/A	N/A	N/A
Chloroform	6	2	33	1.00	2.00	1.50
Ethylbenzene	0	N/A	N/A	N/A	N/A	N/A
Methylene Chloride	0	N/A	N/A	N/A	N/A	N/A
Toluene	0	N/A	N/A	N/A	N/A	N/A
Xylene (total)	0	N/A	N/A	N/A	N/A	N/A
● Pesticides and PCB's						
4,4'-DDD	0	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	0	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	0	N/A	N/A	N/A	N/A	N/A
Aldrin	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1016	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1221	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1232	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1242	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1248	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1254	0	N/A	N/A	N/A	N/A	N/A
Aroclor-1260	0	N/A	N/A	N/A	N/A	N/A
Dieldrin	0	N/A	N/A	N/A	N/A	N/A
Heptachlor	0	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	0	N/A	N/A	N/A	N/A	N/A
Toxaphene	0	N/A	N/A	N/A	N/A	N/A
alpha-BHC	0	N/A	N/A	N/A	N/A	N/A
alpha-Chlordane	0	N/A	N/A	N/A	N/A	N/A
beta-BHC	0	N/A	N/A	N/A	N/A	N/A
delta-BHC	0	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	0	N/A	N/A	N/A	N/A	N/A
gamma-Chlordane	0	N/A	N/A	N/A	N/A	N/A
● Semi-Volatiles Organics						
Acenaphthene	0	N/A	N/A	N/A	N/A	N/A
Acenaphthylene	0	N/A	N/A	N/A	N/A	N/A
Anthracene	0	N/A	N/A	N/A	N/A	N/A
Benzo(a)anthracene	0	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	0	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	0	N/A	N/A	N/A	N/A	N/A
Benzo(g,h,i)perylene	0	N/A	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	0	N/A	N/A	N/A	N/A	N/A
Benzoic Acid	0	N/A	N/A	N/A	N/A	N/A
Chrysene	0	N/A	N/A	N/A	N/A	N/A
Di-n-butylphthalate	0	N/A	N/A	N/A	N/A	N/A
Di-n-octylphthalate	0	N/A	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	0	N/A	N/A	N/A	N/A	N/A
Fluoranthene	0	N/A	N/A	N/A	N/A	N/A
Fluorene	0	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	0	N/A	N/A	N/A	N/A	N/A
Naphthalene	0	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	0	N/A	N/A	N/A	N/A	N/A
Phenanthrene	0	N/A	N/A	N/A	N/A	N/A
Pyrene	0	N/A	N/A	N/A	N/A	N/A
bis(2-ethylhexyl)phthalate	0	N/A	N/A	N/A	N/A	N/A