

00597



**GROUNDWATER MONITORING
VALIDATED ANALYTICAL RESULTS FOR THE SECOND QUARTER 1997
ASH LANDFILL, SENECA ARMY DEPOT**

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September 1997



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Table 1

**SENECA ARMY DEPOT ACTIVITY
1997 GROUNDWATER MONITORING PROGRAM
GROUNDWATER ELEVATION DATA
ASH LANDFILL**

Monitoring Well	Elevation at Top of Riser (MSL)	Third Quarter 1996			Fourth Quarter 1996			First Quarter 1997			Second Quarter 1997		
		Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)
Ash Landfill													
PT-10	681.52	09/23/96	6.62	674.9	01/06/97	5.31	676.21	03/18/97	5.3	676.22	06/17/97	9.03	672.49
PT-11	658.22	09/23/96	6.15	652.07	01/06/97	4.19	654.03	03/18/97	4.41	653.81	06/17/97	6.23	651.99
PT-12	652.15	09/23/96	7.31	644.84	01/06/97	4.25	647.9	03/18/97	5.85	646.3	06/17/97	7.53	644.62
PT-15	637.76	09/23/96	8.04	629.72	01/06/97	5.05	632.71	03/18/97	4.59	633.17	06/17/97	6.48	631.28
PT-16	637.51	09/23/96	3.62	633.89	01/06/97	3.02	634.49	03/18/97	2.93	634.58	06/17/97	4.05	633.46
PT-17	640.14	09/23/96	4.99	635.15	01/06/97	4.7	635.44	03/18/97	4.75	635.39	06/17/97	7.4	632.74
PT-18	656.68	09/23/96	7.44	649.24	01/06/97	4.97	651.71	03/18/97	5.55	651.13	06/17/97	7.09	649.59
PT-19	645.26	09/23/96	6.34	638.92	01/06/97	3.18	642.08	03/18/97	3.34	641.92	06/17/97	5.34	639.92
PT-20	647.28	09/23/96	5.92	641.36	01/06/97	5.74	641.54	03/18/97	5.72	641.56	06/17/97	7.21	640.07
PT-21	647.73	09/23/96	7.02	640.71	01/06/97	6.09	641.64	03/18/97	5.19	642.54	06/17/97	8.21	639.52
PT-22	648.61	09/23/96	Not Measured	Not Measured	01/06/97	6.5	642.11	03/18/97	6.63	641.98	06/17/97	7.61	641
PT-23	641.58	09/23/96	5.11	636.47	01/06/97	3.44	638.14	03/18/97	3.94	637.64	06/17/97	6.37	635.21
PT-24	636.40	09/23/96	4.8	631.6	01/06/97	4.64	631.76	03/18/97	4.69	631.71	06/17/97	5.04	631.36
PT-25	637.09	09/23/96	6.16	630.93	01/06/97	3.96	633.13	03/18/97	3.92	633.17	06/17/97	5.96	631.13
PT-26	614.64	09/23/96	Not Measured	Not Measured	01/06/97	Not Measured	Not Measured	03/18/97	Not Measured	Not Measured	06/17/97	Not Measured	Not Measured
MW-27	639.32	09/23/96	5.54	633.78	01/06/97	5.21	634.11	03/18/97	5.25	634.07	06/17/97	6.48	632.84
MW-28	637.21	09/23/96	5.35	631.86	01/06/97	5.22	631.99	03/18/97	5.18	632.03	06/17/97	5.61	631.6
MW-29	637.31	09/23/96	6.34	630.97	01/06/97	6.14	631.17	03/18/97	6.09	631.22	06/17/97	6.65	630.66
MW-30	640.32	09/23/96	7.17	633.15	01/06/97	4.2	636.12	03/18/97	4.33	635.99	06/17/97	8.35	631.97
MW-31	636.70	09/23/96	5.26	631.44	01/06/97	2.92	633.78	03/18/97	2.96	633.74	06/17/97	5.3	631.4
MW-32	641.68	09/23/96	7.42	634.26	01/06/97	4.53	637.15	03/18/97	4.95	636.73	06/17/97	7.93	633.75
MW-33	639.56	09/23/96	7.4	632.16	01/06/97	4.29	635.27	03/18/97	4.44	635.12	06/17/97	7.45	632.11
MW-34	632.89	09/23/96	4.99	627.9	01/06/97	3.07	629.82	03/18/97	3.22	629.67	06/17/97	4.63	628.26
MW-35D	631.82	09/23/96	Not Measured	Not Measured	01/06/97	Not Measured	Not Measured	03/18/97	Not Measured	Not Measured	06/17/97	Not Measured	Not Measured
MW-36	631.79	09/23/96	3.30	628.49	01/06/97	3.30	628.49	03/18/97	2.46	629.33	06/17/97	3.58	628.21
MW-37	632.89	09/23/96	4.34	628.55	01/06/97	2.48	630.41	03/18/97	2.59	630.3	06/17/97	Not Measured	Not Measured
MW-38D	637.90	09/23/96	4.26	633.64	01/06/97	3.7	634.2	03/18/97	3.61	634.29	06/17/97	Not Measured	Not Measured
MW-39	659.54	09/23/96	2.16	657.38	01/06/97	2.06	657.48	03/18/97	1.78	657.76	06/17/97	2.09	657.45
MW-40	659.30	09/23/96	4.78	654.52	01/06/97	3.64	655.66	03/18/97	3.64	655.66	06/17/97	5.78	653.52
MW-41D	694.02	09/23/96	7.82	686.2	01/06/97	6.1	687.92	03/18/97	6.45	687.57	06/17/97	Not Measured	Not Measured
MW-42D	683.04	09/23/96	4.79	678.25	01/06/97	4.79	678.25	03/18/97	2.61	680.43	06/17/97	4.73	678.31
MW-43	657.73	09/23/96	3.16	654.57	01/06/97	2.9	654.83	03/18/97	3.84	653.89	06/17/97	3.72	654.01
MW-44	653.85	09/23/96	9.66	644.19	01/06/97	3.74	650.11	03/18/97	4.7	649.15	06/17/97	6.9	646.95
MW-45	650.90	09/23/96	3.23	647.67	01/06/97	2.94	647.96	03/18/97	2.83	648.07	06/17/97	3.9	647
MW-46	650.41	09/23/96	5.94	644.47	01/06/97	3.72	646.69	03/18/97	4.51	645.9	06/17/97	6.06	644.35
MW-47	628.06	09/23/96	4.34	623.72	01/06/97	2.88	625.18	03/18/97	2.88	625.18	06/17/97	4.22	623.84
MW-48	648.32	09/23/96	3.72	644.6	01/06/97	3.26	645.06	03/18/97	3.31	645.01	06/17/97	5.3	643.02
MW-49D	650.50	09/23/96	5.9	644.6	01/06/97	3.6	646.9	03/18/97	4.32	646.18	06/17/97	5.91	644.59
MW-50D	649.88	09/23/96	5.71	644.17	01/06/97	3.6	646.28	03/18/97	4.09	645.79	06/17/97	5.88	644
MW-51D	628.24	09/23/96	4.42	623.82	01/06/97	2.99	625.25	03/18/97	3	625.24	06/17/97	4.35	623.89
MW-52D	626.35	09/23/96	4.03	622.32	01/06/97	2.38	623.97	03/18/97	2.6	623.75	06/17/97	3.62	622.73
MW-53	639.41	09/23/96	7.02	632.39	01/06/97	6.6	632.81	03/18/97	6.6	632.81	06/17/97	7.7	631.71
MW-54D	639.11	09/23/96	6.92	632.19	01/06/97	6.55	632.56	03/18/97	6.56	632.55	06/17/97	7.69	631.42
MW-55D	639.16	09/23/96	6.78	632.38	01/06/97	6.34	632.82	03/18/97	6.36	632.8	06/17/97	7.47	631.69
MW-56	630.51	09/23/96	3.2	627.31	01/06/97	3.09	627.42	03/18/97	3.05	627.46	06/17/97	3.48	627.03
MW-57D	629.82	09/23/96	2.29	627.53	01/06/97	1.82	628	03/18/97	1.95	627.87	06/17/97	2.76	627.06
MW-58D	629.69	09/23/96	2.06	627.63	01/06/97	1.51	628.18	03/18/97	1.73	627.96	06/17/97	2.56	627.13
MW-59	656.83	09/23/96	2.69	654.14	01/06/97	2.1	654.73	03/18/97	2.16	654.67	06/17/97	2.15	654.68
MW-60	660.15	09/23/96	2.46	657.69	01/06/97	1.97	658.18	03/18/97	2.14	658.01	06/17/97	2.98	657.17

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Table 2
Ash Landfill
1997 Second Quarter Groundwater Monitoring
Validated Volatile Organic Analyses Results (Method 524.2)

SAMPLE ID	AL108	AL110	AL109	AL106	AL105	AL112	AL111	
WELL ID	BNS	FHD	FHS	MW27	MW30	MW36(DU)	MW36	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
SAMPLE DATE	6/20/07	6/20/07	6/20/07	6/22/07	6/22/97	6/20/07	6/20/97	
SDG NO.	65491	65491	65491	65491	65491	65491	65491	
COMPOUND	UNITS							
Dichlorodifluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Vinyl Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Acetone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
trans-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
cis-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
2-Butanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Chloroform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Bromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Carbon Tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Trichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Dibromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
4-Methyl-2-Pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Toluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1,2-Trichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
2-Hexanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
1,3 - Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-Dibromoethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Xylene (total)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Isopropylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Bromobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
n-Propylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
2-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,3,5-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
4-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
tert-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2,4-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
sec-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
p-Isopropyltoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,4-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
n-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-Dibromo-3-Chloropropan	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Naphthalene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	

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Table 2
Ash Landfill
1997 Second Quarter Groundwater Monitoring
Validated Volatile Organic Analyses Results (Method 524.2)

SAMPLE ID	AL113	AL103	AL115	AL107	AL116	AL114	AL101
WELL ID	MW36(R)	MW40	MW45	MW47	MW48	MW56	MW59
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	6/20/97	6/22/97	6/23/97	6/20/97	6/23/97	6/21/97	6/21/97
SDG NO.	65491	65491	65491	65491	65491	65491	65491
COMPOUND	UNITS						
Dichlorodifluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	ug/L	3 U	5 U	8.4 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	1.6	0.5 U
2-Butanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
2,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorocyclohexane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-Pentanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,3 - Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropan	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U



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Table 2
Ash Landfill
1997 Second Quarter Groundwater Monitoring
Validated Volatile Organic Analyses Results (Method 524.2)

SAMPLE ID	AL102	AL100	AL104	
WELL ID	MW60	PT11	PT19	
MATRIX	WATER	WATER	WATER	
SAMPLE DATE	6/21/97	6/21/97	6/22/97	
SDG NO.	65491	65491	65491	
COMPOUND	UNITS			Data Qualifiers:
Dichlorodifluoromethane	ug/L	0.5 U	0.5 U	0.5 U
Chloromethane	ug/L	0.5 U	0.5 U	0.5 U
Vinyl Chloride	ug/L	0.5 U	0.5 U	0.5 U
Bromomethane	ug/L	0.5 U	0.5 U	0.5 U
Chloroethane	ug/L	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	ug/L	0.5 U	0.5 U	0.5 U
Acetone	ug/L	1.9 U	5 U	5 U
1,1-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U
Carbon Disulfide	ug/L	0.5 U	0.5 U	0.5 U
Methylene Chloride	ug/L	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U
2-Butanone	ug/L	5 U	5 U	5 U
2,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U
Chloroform	ug/L	0.5 U	0.5 U	0.5 U
Bromochloromethane	ug/L	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	ug/L	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U
Benzene	ug/L	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U
1,2-Dichlorooctopane	ug/L	0.5 U	0.5 U	0.5 U
Bromodichloromethane	ug/L	0.5 U	0.5 U	0.5 U
Dibromomethane	ug/L	0.5 U	0.5 U	0.5 U
4-Methyl-2-Pentanone	ug/L	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U
Toluene	ug/L	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U
2-Hexanone	ug/L	5 U	5 U	5 U
1,3 - Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U
Tetrachloroethene	ug/L	0.5 U	0.5 U	0.5 U
Dibromochloromethane	ug/L	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	ug/L	0.5 U	0.5 U	0.5 U
Chlorobenzene	ug/L	0.5 U	0.5 U	0.5 U
1,1,1,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U
Ethylbenzene	ug/L	0.5 U	0.5 U	0.5 U
Xylene (total)	ug/L	0.5 U	0.5 U	0.5 U
Styrene	ug/L	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	0.5 U	0.5 U	0.5 U
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	ug/L	0.5 U	0.5 U	0.5 U
Bromobenzene	ug/L	0.5 U	0.5 U	0.5 U
n-Propylbenzene	ug/L	0.5 U	0.5 U	0.5 U
2-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U
4-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	ug/L	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U
n-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropan	ug/L	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	ug/L	0.5 U	0.5 U	0.5 U
Naphthalene	ug/L	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U

Data Qualifiers:
U Compound Not Detected At Instrument
Detection Limit
J Concentration Estimated
R Data Rejected Because of QA/QC exceedences
or Sample Contamination



1975

1975	1976	1977	1978	1979
100	100	100	100	100

Approved by the Board of Directors
 on this 10th day of December, 1975
 J. Edgar Hoover

Table 3
Ash Landfill
1997 Second Quarter Groundwater Monitoring
Validated TCL Volatile Organic Analysis Results

	WELL ID	PT-12A	MW-29	MW-29	MW-44A	MW-46	PT-18	PT-21A	PT-24	PT-24 (R)
	SAMPLE ID	AL123	AL119	AL120	AL125	AL117	AL124	AL118	AL122	AL121
	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	SAMPLE DATE	6/24/97	6/24/97	6/24/97	6/24/97	6/23/97	6/24/97	6/23/97	6/24/97	6/24/97
	LAB ID	334446	334448	334450	334452	334459	334444	334458	334454	334456
	SDG NUMBER	65533	65533	65533	65533	65533	65533	65533	65533	65533
		Duplicate								
COMPOUND	UNITS									
Chloromethane	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Bromomethane	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	70 J	10 U	10 U	170	10 U	280 U	10 U	10 U	10 U
Chloroethane	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Methylene Chloride	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Acetone	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Carbon Disulfide	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
1,1-Dichloroethene	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
1,1-Dichloroethane	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	ug/L	2100	150	140	610	100	69 J	13	140	10 U
Chloroform	ug/L	170 U	10 U	10 U	56 U	10 U	45 J	10 U	10 U	10 U
1,2-Dichloroethane	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
2-Butanone	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	170 U	2 J	2 J	130	10 U	280 U	10 U	10 U	10 U
Carbon Tetrachloride	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
1,2-Dichloropropane	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Trichloroethene	ug/L	1400	5 J	5 J	20 J	26	2900	4 J	7 J	10 U
Dibromochloromethane	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
1,1,2-Trichloroethane	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Benzene	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Bromoform	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
2-Hexanone	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Toluene	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Chlorobenzene	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Ethylbenzene	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Styrene	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U
Xylene (total)	ug/L	170 U	10 U	10 U	56 U	10 U	280 U	10 U	10 U	10 U

U - Compound not detected at instrument detection limit

J - Concentration estimated

2-27-11

11/2/11

11/2/11 11:20 AM

11/2/11 11:20 AM

Table 4
Ash Landfill
1997 Second Quarter Groundwater Monitoring
Validated Metals Analytical Results

WELL ID	MW-29	MW-29 (DUP)	MW-44	MW-45	PT-18	
ES ID	AL119	AL120	AL125	AL115	AL124	
MATRIX	WATER	WATER	WATER	WATER	WATER	
SAMPLE DATE	6/24/97	6/24/97	6/24/97	06/23/97	6/24/97	
LAB ID	334448	334450	334452	334208	334444	
SDG NO.	65533	65533	65533	65491	65533	
COMPOUND	UNITS	Duplicate				
Aluminum	ug/l	NR	NR	NR	NR	NR
Antimony	ug/l	NR	NR	NR	NR	NR
Arsenic	ug/l	NR	NR	NR	NR	NR
Barium	ug/l	NR	NR	NR	NR	NR
Beryllium	ug/l	NR	NR	NR	NR	NR
Cadmium	ug/l	.4 U	.4 U	0.4 U	0.4 U	0.4 U
Calcium	ug/l	NR	NR	NR	NR	NR
Chromium	ug/l	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Cobalt	ug/l	NR	NR	NR	NR	NR
Copper	ug/l	NR	NR	NR	NR	NR
Iron	ug/l	NR	NR	NR	NR	NR
Lead	ug/l	2 U	2 U	2 U	2 U	2 U
Magnesium	ug/l	NR	NR	NR	NR	NR
Manganese	ug/l	4.9	4.2	1130	25	473
Mercury	ug/l	NR	NR	NR	NR	NR
Nickel	ug/l	1.6 U	1.6 U	1.9	1.6 U	3.6
Potassium	ug/l	NR	NR	NR	NR	NR
Selenium	ug/l	NR	NR	NR	NR	NR
Silver	ug/l	NR	NR	NR	NR	NR
Sodium	ug/l	NR	NR	NR	NR	NR
Thallium	ug/l	NR	NR	NR	NR	NR
Vanadium	ug/l	NR	NR	NR	NR	NR
Zinc	ug/l	NR	NR	NR	NR	NR
Cyanide	ug/l	NR	NR	NR	NR	NR

NR - Not Requested
U - Not Detected at Instrument Detection Limit
J - Estimated Value

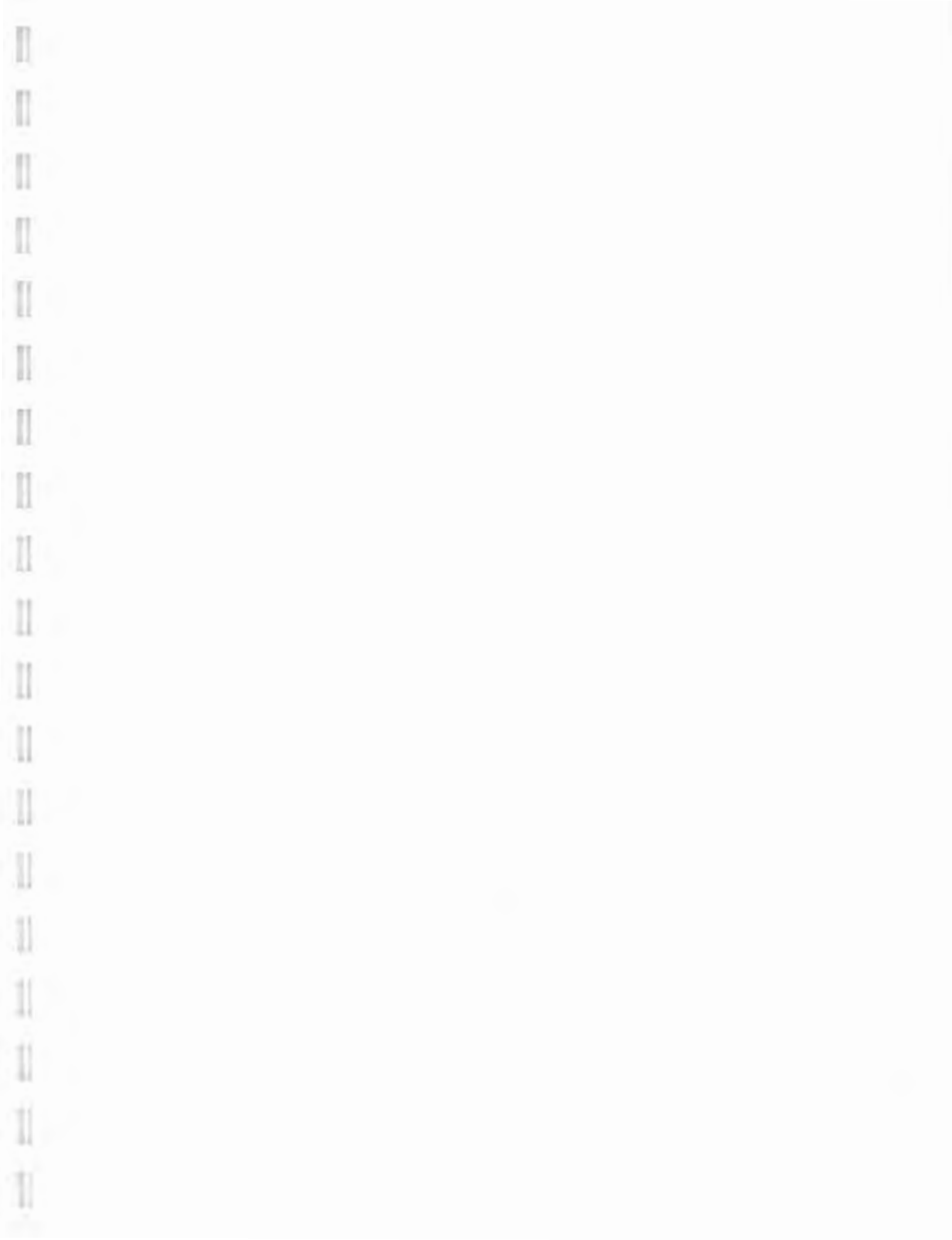


Table 5
Ash Landfill
1997 Second Quarter Groundwater Monitoring
Indicator Parameters

Well ID	Ethene (mg/l)	Ethane (mg/l)	Methane (mg/l)	Chloride (mg/l)	Spec. Cond. (umhos/cm)	Fe+2 (mg/l)	DOC (mg/l)
MW-27	<0.0013	<0.0021	<0.0012	24.6	825	0.72	2.3
MW-29	<0.0013	<0.0021	<0.0012	65.3	1028	0.22	2.1
MW-30	<0.0013	<0.0021	<0.0012	33.1	711	0.23	2.5
MW-36	<0.0013	<0.0021	<0.0012	30.6	723	0.2	1.5
MW-40	<0.0013	<0.0021	<0.0012	8.6	566	0.26	1.8
MW-44A	0.0031	<0.0021	0.055	514	2790	2.13	10.1
MW-45	<0.0013	<0.0021	0.0027	12	617	0.27	2.2
MW-46	<0.0013	<0.0021	0.045	22.1	720	0.3	2.6
MW-47	<0.0013	<0.0021	<0.0012	19	649	0.3	1.8
MW-48	<0.0012	<0.0021	0.0066	11	539	0.39	3.4
MW-56	<0.0013	<0.0021	0.0015	32	816	0.43	2.1
MW-59	<0.0013	<0.0021	0.061	25.2	1325	0.03	5.8
MW-60	<0.0013	<0.0021	0.0012	22.6	762	0.24	3.2
PT-11	<0.0013	<0.0021	0.0017	27.2	963	0.28	4.2
PT-12A	<0.0013	<0.0021	0.027	169	1650	0.52	2.9
PT-18	<0.0013	<0.0021	0.17	23.2	1173	0.15	5.5
PT-19	<0.0013	<0.0021	0.006	47.1	818	0.95	3.1
PT-21A	<0.0013	<0.0021	0.0022	134	1121	0.1	2.0
PT-24	<0.0013	<0.0021	<0.0012	27.8	801	0.15	2.0
PT-24 (DUP)	<0.0013	<0.0021	<0.0012	27.9	na	na	na

na - not analyzed

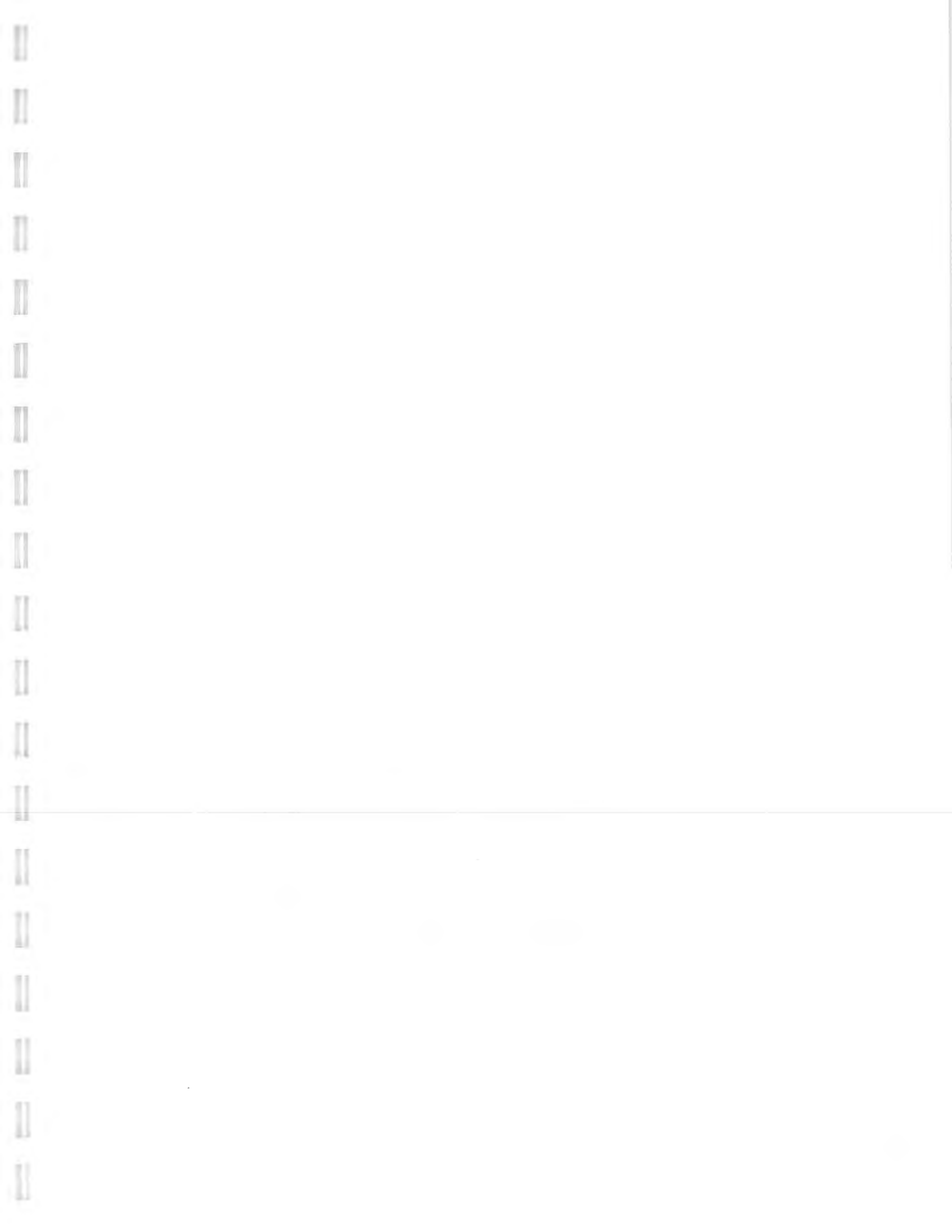
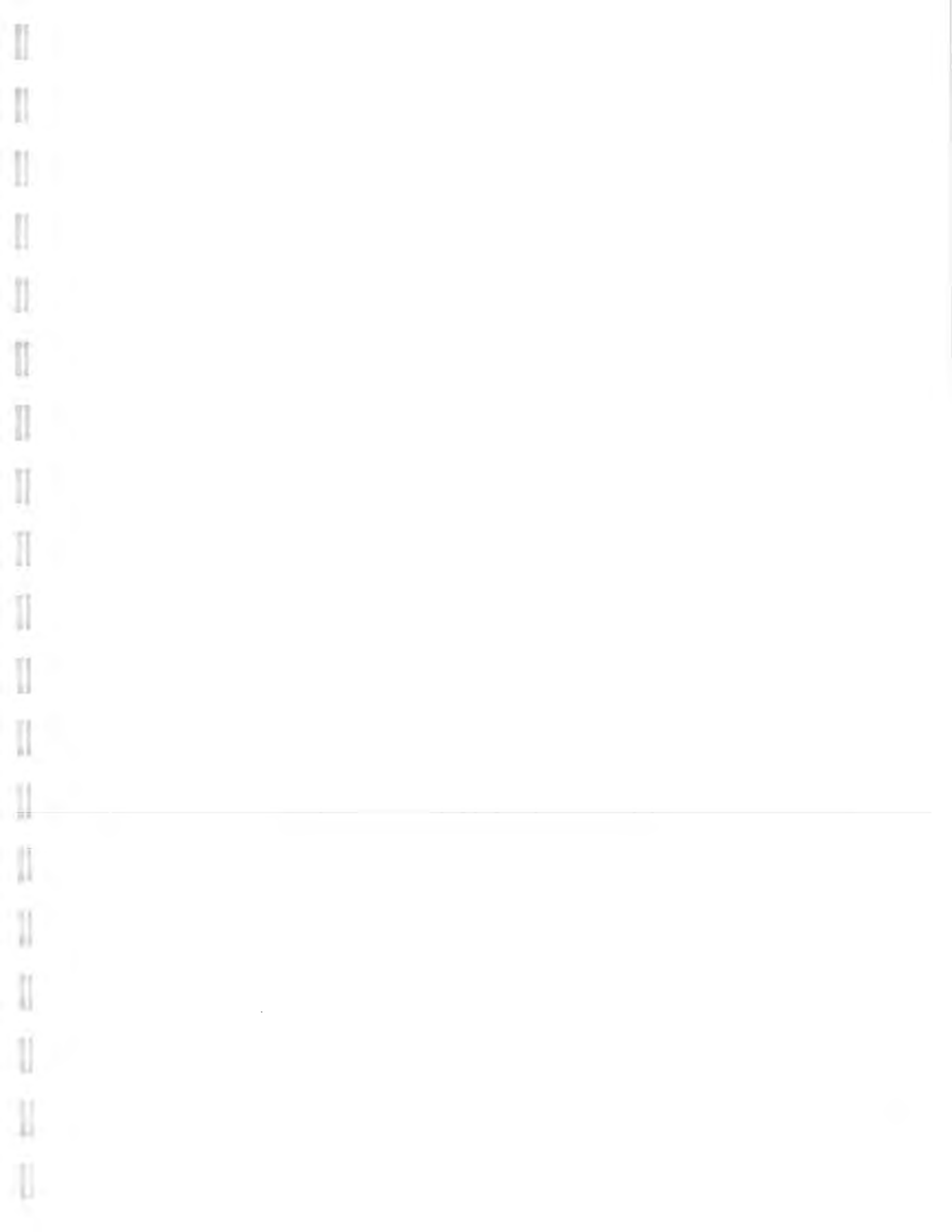


Table 5
Ash Landfill
1997 Second Quarter Groundwater Monitoring
Indicator Parameters

Well ID	Sulfate (mg/l)	Nitrate/Nitrite-N (mg/l)	Redox. Pot. (mV)	pH	DO (mg/l)	Tot. Alkalinity (mg/l CaCO ₃)
MW-27	67.8	0.07	289	6.91	0.11	300
MW-29	204	1.5	337	6.61	1.41	308
MW-30	46.1	0.16	314	6.8	0.5	300
MW-36	62.8	1.2	279	6.96	0.18	308
MW-40	59.7	0.06	317	7	0.51	240
MW-44A	943	0.02	169	7.11	0.27	160
MW-45	28.1	0.03	240	6.94	0.28	336
MW-46	66.8	0.02	228	6.79	0.16	332
MW-47	54.2	0.57	303	6.86	0.1	288
MW-48	24.1	0.05	265	6.92	0.22	336
MW-56	107	0.45	232	6.72	0.1	316
MW-59	131	0.01	270	6.47	0.21	640
MW-60	37.3	0.01	239	6.64	0.25	356
PT-11	144	0.4	315	6.84	4.94	380
PT-12A	456	0.05	323	6.63	0.89	344
PT-18	196	0.05	283	6.48	0.25	516
PT-19	45.1	0.02	112	6.53	0.12	348
PT-21A	198	0.23	297	7.18	0.28	244
PT-24	116	0.66	329	6.65	0.19	324
PT-24 (DUP)	118	0.64	na	na	na	332



FIGURES

Figure 1

Ash Landfill Groundwater Elevation Plan

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APPENDIX A

FIELD DATA

**Ash Landfill First Quarter 1997 Groundwater
Monitoring Program**

- 1. Groundwater Sampling Field Notes**
- 2. Chain-of-Custody Forms**



1. Groundwater Sampling Field Notes

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SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC. CLIENT: USACOE WELL #: FARMHOUSE

PROJECT: 2nd Qtr. Monitor, RI FIELD INVESTIGATION DATE: 6/20/97
 SWMU # (AREA): Ash Landfill SEAD- INSPECTORS: AMW, MCB
 SOP NO.: 17 PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)

WELL DIAMETER FACTORS											STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN		
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		

HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN		WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND	
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME	

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (mm)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/20/97	1045	Sampled BN-S open well. The water level was 5.41' from the concrete pad cover. Water was sampled with a deconned bailer. Samples taken were VOC 524.2 only.							
6/20/97	1120	Sampled FH-S from hose off the back of the house. Took VOC 524.2 samples.							
6/20/97	1125	Sampled FH-D from the Slate's kitchen sink. Strong sulfur smell. Took VOC 524.2 samples and the water effervesced.							

METALWORKS RECORD - COLUMBIAN	
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SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC. CLIENT: USACOE WELL #: MW-47

PROJECT: 2nd Qtr. Monitor. RI FIELD INVESTIGATION DATE: 6/20/97
 SWMU # (AREA): ASH LANDFILL SEAD- INSPECTORS: MCB, AMU
 SOP NO.: 17 PUMP #: Marschawek

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM	instrument units (not reading - too humid)

DIAMETER (INCHES): GALLONS / FOOT:	1	1.5	2	3	4	5	6	7	8	9	10	STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN
		0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	

HISTORIC DATA	DEPTH POW (TOC) 8.56	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL) N/A	STATIC WATER LEVEL 4.35	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft) 7.0	PUMPING START TIME 1324
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps) ✓		PUMP AFTER SAMPLING (cps) —		

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/20/97	1406	0.170	2.3	14.02	649	6.86	303	0.13	24.2
	1410	Sampled	well.						

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SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.		CLIENT: USACOE	WELL #: MW-36								
PROJECT: 2 nd Qtr. Monitor. RI FIELD INVESTIGATION											
SWMU # (AREA): ASH LANDFILL			SEAD-								
DATE: 6/20/97											
SOP NO.: 17											
INSPECTORS: AMW, MCB											
PUMP #: Maschault											
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)						MONITORING					
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)			
							OVM	instrument units			
								(not reading - too humid)			
WELL DIAMETER FACTORS						STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN					
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87
HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN		WELL DEV. TURBIDITY		WELL DEV. pH	WELL DEV. SPEC. COND			
	16.58										
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME			
	N/A		3.76					1459			
RADIATION SCREENING DATA		PUMP PRIOR TO SAMPLING (cpd)				PUMP AFTER SAMPLING (cpd)					

MONITORING DATA COLLECTED DURING PURGING OPERATIONS									
DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	EH	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/20/97	1519	0.320	1.1	11.72	723	6.96	279	0.18	3.8
	1525	Sampled	well.						

NAME	ADDRESS	CITY	STATE	ZIP	PHONE	FAX
J. Edgar Hoover	2455 Reservoir Road	Washington	DC	20535	202-452-5000	202-452-5001
John F. Kennedy	1000 Massachusetts Ave	Cambridge	MA	02138	617-452-1234	617-452-1235
George Washington	1700 Mount Vernon	Washington	DC	20006	202-336-1234	202-336-1235

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.			CLIENT: <u>USACOE</u>		WELL #: <u>MW-56</u>
PROJECT: <u>2nd Qtr. Monitor.</u>	RI FIELD INVESTIGATION				DATE: <u>6/24/97</u>
SWMU # (AREA): <u>ASH LANDFILL</u>	SEAD-				INSPECTORS: <u>AMW, MCB</u>
SOP NO.: <u>17</u>					PUMP #: <u>Marschauck</u>

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							<u>OUM</u>	<u>instrument units</u>
								<u>(not reading - too humid)</u>

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10	STANDING WATER VOLUME = WELL DIAMETER FACTOR • WATER COLUMN
GALLONS / FOOT:	0.041	0.092	<u>0.163</u>	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	<u>6.88</u>				
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
	<u>N/A</u>	<u>3.56</u>		<u>5.0</u>	<u>1027</u>
RADIATION SCREENING DATA		PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)		
		<u>✓</u>			<u>—</u>

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
<u>6/21/97</u>	<u>1134</u>	<u>0.110</u>	<u>4.3</u>	<u>16.41</u>	<u>816</u>	<u>6.72</u>	<u>232</u>	<u>0.16</u>	<u>26.0</u>
	<u>1136</u>	<u>Sampled</u>	<u>well.</u>						

STATE OF TEXAS
COUNTY OF DALLAS

BEFORE ME, the undersigned authority, on this day personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this _____ day of _____, 20__.

Notary Public in and for the State of Texas

My commission expires _____, 20__.

STATE OF TEXAS
COUNTY OF DALLAS

BEFORE ME, the undersigned authority, on this day personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this _____ day of _____, 20__.

Notary Public in and for the State of Texas

My commission expires _____, 20__.

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.		CLIENT: USACOE	WELL #: MW-60
PROJECT: RI FIELD INVESTIGATION		DATE: 6-21-97	INSPECTORS: Ann MCR
SWMU # (AREA):	SEAD- ASH	PUMP #:	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6-21-97	1430	890	P. Cloudy	80%	220	Dry		

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		

HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN		WELL DEV TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND	
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL			CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME
			3.24					8.0		1451
RADIATION SCREENING DATA		PUMP PRIOR TO SAMPLING (cpe)			PUMP AFTER SAMPLING (cpe)					

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-21-97	1529	.140	1.2	16.99	762	6.64	239	0.25	3.8
	1530	Sampled MW-60							
	1543	Filled by RACH Roads 0.24 mg/l							

2000 1000 500 100 50 20 10 5 2 1	1000 500 100 50 20 10 5 2 1	1000 500 100 50 20 10 5 2 1	1000 500 100 50 20 10 5 2 1	1000 500 100 50 20 10 5 2 1	1000 500 100 50 20 10 5 2 1
2000 RECORDS - CIVIL RIGHTS					

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: <u>MW-59</u>
PROJECT: <u>RI FIELD INVESTIGATION</u>	DATE: <u>6-21-97</u>	INSPECTORS: <u>Amw/mcs</u>
SWMU # (AREA): <u>SEAD-ASH</u>	PUMP #: <u>N</u>	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6-21-97	1430	89°	Partly	80%	220	DRY		

WELD DIAMETER FACTORS DIAMETER (INCHES): 1 1.5 <u>2</u> 3 4 5 6 7 8 9 10 GALLONS / FOOT: 0.041 0.092 0.165 0.367 0.654 1.02 1.47 2.00 2.61 3.30 5.87	STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN
--	--

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
		2.50		8.0	1611

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)
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MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-21-97	1645	.170	1.2	16.04	1325	6.47	270	0.21	5.0
	Sampled MW-59		1648	(AL101)					
	1654	Fe (II) =	0.03	by HACH					

NAME ADDRESS CITY STATE ZIP	PHONE NUMBER	DATE OF BIRTH	SEX (M/F)	HEIGHT (IN)	WEIGHT (LB)	HAIR COLOR	EYE COLOR	BUILD (S/M/L)	SPECIAL FEATURES
CONSTITUTIONAL RECORD - CROPHOTOGRAPHS									

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: PT-11
PROJECT: RI FIELD INVESTIGATION		DATE: 6-21-97
SWMU # (AREA): SEAD-ASH		INSPECTORS: AMU-MCB
SOP NO.:		PUMP #: <input checked="" type="checkbox"/>

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6-21-97	1700	86°	P. Cloudy	75	220	Open		

WELL DIAMETER FACTORS DIAMETER (INCHES): 1 1.5 2 3 4 5 6 7 8 9 10 GALLONS / FOOT: 0.041 0.092 0.163 0.367 0.654 1.02 1.47 2.00 2.61 3.30 5.87	STANDING WATER VOLUME = WELL DIAMETER FACTOR • WATER COLUMN
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HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
		6.04'		17.5	
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (mm)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-21-97	1742	.110	0.45	13.94	963	6.84	315	4.94	16.1
	1745	Sampled	PT-11	(AL400)					
	1758	Fe II =	0.28 mg/l	by HPLC					

<p>1. <i>[Faint text]</i></p> <p>2. <i>[Faint text]</i></p> <p>3. <i>[Faint text]</i></p> <p>4. <i>[Faint text]</i></p> <p>5. <i>[Faint text]</i></p>	<p>6. <i>[Faint text]</i></p> <p>7. <i>[Faint text]</i></p> <p>8. <i>[Faint text]</i></p> <p>9. <i>[Faint text]</i></p> <p>10. <i>[Faint text]</i></p>	<p>11. <i>[Faint text]</i></p> <p>12. <i>[Faint text]</i></p> <p>13. <i>[Faint text]</i></p> <p>14. <i>[Faint text]</i></p> <p>15. <i>[Faint text]</i></p>	<p>16. <i>[Faint text]</i></p> <p>17. <i>[Faint text]</i></p> <p>18. <i>[Faint text]</i></p> <p>19. <i>[Faint text]</i></p> <p>20. <i>[Faint text]</i></p>
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[Faint text]

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-27
PROJECT: RI FIELD INVESTIGATION		DATE: 6-22-97
SWMU # (AREA): SEAD-		INSPECTORS: Ann MCS
SOP NO.:		PUMP #:

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6-22-97	1000	80	cloudy	80%	270	moist		

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.165	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		
HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN		WELL DEV TURBIDITY			WELL DEV pH		WELL DEV. SPEC COND			
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL			CALCULATED STANDING WATER VOL. (GAL)			DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME		
			6.59'						9.0		1028		
RADIATION SCREENING DATA		PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)								

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-22-97	1104	.070	0.49	16.41	717	6.91	352	4.90	27.8
	1700	Sampled mw-27 (A106)							
	1724	Ec(1) = 0.72 mg/L							



SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: <i>Mw -40</i>
PROJECT: <u>RI FIELD INVESTIGATION</u>		DATE: <u>6-22-97</u>
SWMU # (AREA): <u>SEAD-</u>		INSPECTORS: <u>Amw/MCB</u>
SOP NO.:		PUMP #:

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6-22-97	1000	80°	Cloudy	80%	270	Mo. ST		

DIAMETER (INCHES): GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	<u>2</u>	3	4	5	6	7	8	9		10
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (FOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
			5.96'		11.0

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/22/97	1208	0.075	0.3	15.34	566	7.00	317	0.51	3.2
	1210	Sampled Mw-40 (AL103)							
	1226	Fe(II) = 0.260 mg/L by HACH							



1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

2. The second part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

3. The third part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

4. The fourth part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

5. The fifth part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

6. The sixth part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

7. The seventh part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

8. The eighth part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

9. The ninth part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

10. The tenth part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: PT-19
PROJECT: RI FIELD INVESTIGATION		DATE: 6-22-97
SWMU # (AREA): SEAD-		INSPECTORS: Ann/mcs
SOP NO.:		PUMP #:

WEATHER / FIELD CONDITIONS CHECKLIST							(RECORD MAJOR CHANGES)		MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)		

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10	STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH FOW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
		5.71'		9'	1452

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)
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MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/22/97	1518	0.240	1.6	12.68	818	6.33	112	0.12	2.5
	1520	Sampled PT-19 (AL 10Y)							
	1532	rel(11) =	0.95 mg/l						

DATE: _____
BY: _____
FOR: _____

TO: _____
FROM: _____
SUBJECT: _____

RECEIVED
DATE: _____
BY: _____

STATE OF CALIFORNIA - COUNTY OF _____

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.		CLIENT: USACOE	WELL #: PT-21A
PROJECT: RI FIELD INVESTIGATION			DATE: 6-23-97
SWMU # (AREA): SEAD-454			INSPECTORS: Amw/mcb
SOP NO.:			

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPROX)	WEATHER (APPROX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6-23-97	1000	85°	P. Cloudy	75%	360	Dry		

	WELL DIAMETER FACTORS	STANDING WATER VOLUME = WELL DIAMETER FACTOR • WATER COLUMN
DIAMETER (INCHES):	1 1.5 2 3 4 5 6 7 8 9 10	
GALLONS / FOOT:	0.041 0.092 0.163 0.367 0.654 1.02 1.47 2.00 2.61 3.30 5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
		15.0'			

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
		7.61		18'	10:15

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-23-97	1030	100	0.4	11.83	1122	7.18	297	0.35	7.8
	1033	Sampled	PT-21A	(A118)					

STATEMENT OF WORK
PROJECT: [illegible]
DATE: [illegible]
BY: [illegible]



SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: <u>MW-45</u>
PROJECT: <u>RI FIELD INVESTIGATION</u>	DATE: <u>6/23/97</u>	INSPECTORS: <u>AMW/MCB</u>
SWMU # (AREA): <u>SEAD-ASH</u>	PUMP #:	
SOP NO.:		

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)

DIAMETER (INCHES):	1	1.5	<u>2</u>	3	4	5	6	7	8	9	10	STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN
	GALLONS/FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC COND
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH IOS + 2 B)	PUMPING START TIME
		<u>4.38'</u>		<u>6.5'</u>	<u>1134</u>
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
<u>6-23-97</u>	<u>1204</u>	<u>100</u>	<u>0.65</u>	<u>16.70</u>	<u>617</u>	<u>6.94</u>	<u>240</u>	<u>0.28</u>	<u>16.1</u>
	<u>1207</u>	<u>Sampled MW-45 (A115)</u>							
	<u>1230</u>	<u>Fe(II) = 0.27 mg/L</u>							

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DATE: _____
BY: _____

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC. CLIENT: USACOE WELL #: MW-46

PROJECT: RI FIELD INVESTIGATION DATE: 6-23-97
 SWMU # (AREA): SEAD-ASH INSPECTORS: Amw-mcs
 SOP NO.: PUMP #:

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)

	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN		
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
		6.34'		10.0'	1453

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (gpm)	PUMP AFTER SAMPLING (gpm)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (l/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-23-97	1512	280	1.7	13.34	720	6.79	228	0.16	18.4
	1516	sampled	MW-46	(12.17)					
	1527	FE(11) =	0.30 mg/L						

27/11/1960 RECORD - SWOT/DWYLER	
1. NAME OF THE PARTY 2. ADDRESS 3. OCCUPATION 4. DATE OF BIRTH 5. DATE OF DEPARTURE	6. NAME OF THE PARTY 7. ADDRESS 8. OCCUPATION 9. DATE OF BIRTH 10. DATE OF DEPARTURE

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-48
PROJECT: RI FIELD INVESTIGATION	DATE: 6-23-97	INSPECTORS: AMW/MCB
SWMU # (AREA): SEAD-AS4		PUMP #:
SOP NO.:		

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)						MONITORING		
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)

DIAMETER (INCHES): GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN		
	1	1.5	2	3	4	5	6	7	8	9	10		
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		
HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN			WELL DEV. TURBIDITY			WELL DEV. pH		WELL DEV. SPEC. COND		
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL			CALCULATED STANDING WATER VOL. (GAL)			DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME		
			5.44'						8.0'		1550		
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)									

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-23-97	1612	300	1.1	13.85	593	6.92	265	0.22	5.2
	1614	Samples	sent	MW-48	(Analy)				
	1627	Fe (II) =	0.39 mg/L						

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SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-12A

PROJECT: RI FIELD INVESTIGATION

DATE

SWMU # (AREA) SEAD-

INSPECTORS

SOP NO.:

PUMP #:

WEATHER / FIELD CONDITIONS CHECKLIST

(RECORD MAJOR CHANGES)

MONITORING

DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6-24-97	1020	78°	CT LAJ	100%	280	Wet		

WELL DIAMETER FACTORS

STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV TURBIDITY	WELL DEV pH	WELL DEV SPEC COND
	DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)
		7.83'		10.0'	1052

RADIATION SCREENING DATA

PUMP PRIOR TO SAMPLING (cpi)

PUMP AFTER SAMPLING (cpi)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-24-97	1113	0.050	0.4	16.79	1650	6.43	323	0.89	11.8
	1115	Sampled	MW-12A						
	1138	Fe(II) =	0.52 mg/L						

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SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: <u>MW 44A</u>
PROJECT: <u>RI FIELD INVESTIGATION</u>		DATE: <u>6-24-97</u>
SWMU # (AREA) _____	SEAD- _____	INSPECTORS: <u>Amw/mca</u>
SOP NO.: _____		PUMP #: _____

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)

DIAMETER (INCHES): GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	2	3	4	5	6	7	8	9	10	
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV pH	WELL DEV SPEC COND

DATA COLLECTED AT WELL SITE	FID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKES (DEPTH TOS + 2 ft)	PUMPING START TIME
			<u>7.28</u>		<u>10.0'</u>

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS									
DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
<u>6-24-97</u>	<u>1620</u>	<u>.100</u>	<u>1.1</u>	<u>15.84</u>	<u>2790</u>	<u>7.11</u>	<u>119</u>	<u>0.27</u>	<u>0.0</u>
	<u>1622</u>	<u>Sampled mw 44A (AL125)</u>							
	<u>1650</u>	<u>Fe(II) = 2.13 mg/L</u>							

Имя	Фамилия	Дата рождения	Место рождения	Профессия
Иванов	Петров	15.05.1980	Москва	Инженер
Сидоров	Александров	22.12.1975	Самара	Учитель
Куликов	Смирнов	08.03.1985	Новосибирск	Медицинский работник
Васильев	Михайлов	10.01.1982	Казань	Работник сельского хозяйства
Петухов	Попов	18.07.1978	Владивосток	Транспортный работник
Рыжов	Иванов	03.09.1988	Иркутск	Работник сферы услуг
Морозов	Соловьев	25.11.1972	Хабаровск	Работник промышленности
Новиков	Антонов	12.04.1983	Омск	Работник культуры
Полухин	Козлов	20.06.1977	Тюмень	Работник строительства
Романов	Леонов	05.02.1981	Ярославль	Работник транспорта
Савин	Мельников	14.08.1979	Томск	Работник науки
Смирнов	Петров	28.10.1986	Брянск	Работник сельского хозяйства
Соколов	Сидоров	01.03.1974	Магнитогорск	Работник промышленности
Тарасов	Тихонов	17.05.1984	Челябинск	Работник сферы услуг
Терехин	Федотов	09.07.1976	Ханты-Мансийск	Работник промышленности
Тимофеев	Харьков	23.09.1987	Воронеж	Работник культуры
Толкачев	Цыганков	11.01.1980	Иваново	Работник транспорта
Труфанов	Чайковский	26.04.1973	Киров	Работник культуры
Туркин	Шаронов	07.06.1982	Сургут	Работник промышленности
Тютчев	Щеголов	19.08.1975	Курган	Работник культуры
Ульянов	Юрков	04.10.1985	Тюмень	Работник культуры
Федосеев	Яковлев	16.12.1978	Тюмень	Работник культуры

РАЙОНАЛЬНЫЙ ЦЕНТР СПОРТА - СВОБОДА И СЛАВА

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-29
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PROJECT: RI FIELD INVESTIGATION	DATE: 6-24-97
SWMU # (AREA): SEAD- Ash	INSPECTORS: AMW - mcs
SOP NO.:	PUMP #:

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)

WELL DIAMETER FACTORS DIAMETER (INCHES): 1 1.5 2 3 4 5 6 7 8 9 10 GALLONS / FOOT: 0.041 0.092 0.165 0.367 0.654 1.02 1.47 2.00 2.61 3.30 5.87	STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN
---	--

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
		6.89		8.5	1730

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-24-97	1809	0.130	1.5	M.11	1028	661	337	1.41	21.2
	1810	Sampled mw-29		(AL119)					
	1900	Fe (II) = 0.22 mg/L							

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SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: PT-24
PROJECT: RI FIELD INVESTIGATION		DATE: 6-24-97
SWMU # (AREA): SEAD-		INSPECTORS: Ann / MCS
SOP NO.:		PUMP #:

WEATHER / FIELD CONDITIONS CHECKLIST				(RECORD MAJOR CHANGES)			MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10	STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN
GALLONS / FOOT:	0.041	0.092	0.143	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV pH	WELL DEV SPEC COND

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
		5.18'		10	1924

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-24-97	1944	420	2.3	12.68	801	665	329	.19	20
	1945	Sampled PT-24 (AL122)							
	2000	Re(ii) = 0.15 mg/L							

ΣΥΝΕΤΗΡΗΣ: Β.Σ.Γ.Π.Β. - ΟΒΟΙΣ ΑΘΗΝΩΝ

SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: PT-18
PROJECT: RI FIELD INVESTIGATION		DATE: 6-24-97
SWMU # (AREA) SEAD- ASIR		INSPECTORS: Amw/mc3
SOP NO.:		PUMP #:

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6-24-97	1100	82°F	Cloudy	90%	280	cut		

DIAMETER (INCHES). GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME - WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	2	3	4	5	6	7	8	9	10	
	0.041	0.092	0.168	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC COND

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
			7.40		9.0

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6-24-97	1303	100	1.3	12.41	1173	6.48	283	0.25	0.1
	1305	sampled PT-18 (AL124)							
	1320	Fe (II) = 0.15mg/L							

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	INITIALS
1/15/20	DEPOSIT	100.00			
1/20/20	PAYROLL	50.00	101		
1/25/20	RENT	200.00	102		
2/1/20	SALES	150.00			
2/10/20	UTILITIES	75.00	103		
2/15/20	DEPOSIT	250.00			
2/20/20	PAYROLL	50.00	104		
2/25/20	RENT	200.00	105		
3/1/20	SALES	180.00			
3/10/20	UTILITIES	75.00	106		
3/15/20	DEPOSIT	300.00			
3/20/20	PAYROLL	50.00	107		
3/25/20	RENT	200.00	108		
4/1/20	SALES	200.00			
4/10/20	UTILITIES	75.00	109		
4/15/20	DEPOSIT	350.00			
4/20/20	PAYROLL	50.00	110		
4/25/20	RENT	200.00	111		
5/1/20	SALES	220.00			
5/10/20	UTILITIES	75.00	112		
5/15/20	DEPOSIT	400.00			
5/20/20	PAYROLL	50.00	113		
5/25/20	RENT	200.00	114		
6/1/20	SALES	250.00			
6/10/20	UTILITIES	75.00	115		
6/15/20	DEPOSIT	450.00			
6/20/20	PAYROLL	50.00	116		
6/25/20	RENT	200.00	117		
7/1/20	SALES	280.00			
7/10/20	UTILITIES	75.00	118		
7/15/20	DEPOSIT	500.00			
7/20/20	PAYROLL	50.00	119		
7/25/20	RENT	200.00	120		
7/31/20	SALES	300.00			

STATE OF TEXAS - COUNTY OF DALLAS

(30)

6-17-97 June 97 Quarterly Monitoring

0800 AMW, MCB on-site. Unload ice and supplies. Check HACT DR/700 Colorimeter. Visit Randy. \bar{z} @ MW45-2 = 10.00' TOC

10:14 Two hornet nests inside MW45-3

1020 No cap on MW45-1. It fell down into the riser case. \bar{z} = 7.96' TOC

1120 MW45-3 \bar{z} = 7.48' TOC. N. of MW-8

1139 5.08' TOC MW-19 - lots of bees.

1143 5.16' TOC MW-8 - no cap or lock!
OB/OD water levels:

1154 7.18' TOC MW-36

1155 6.95' TOC MW-37

1202 4.57' TOC MW-10 (s. of-36, -37)

1218 4.35' TOC MW-32

1221 4.87' TOC MW-28

1222 5.10 TOC MW-29

1229 3.00' TOC MW-17 gopher hole @ casing

1233 3.26' TOC MW-18 crumbled concrete

1240 5.16' TOC MW-14 no cap heaved

1245 3.32' TOC MW-13

1254 4.12' TOC MW-9 p. cap broken

1301 6.25' TOC MW-39

(37)

6-17-97 ASH / OB-OD water levels

1305 5.17' TOC MW-38 .. SB/OD.

1309 3.84' TOC MW-15 .. OB/OD.

1316 4.61' TOC MW-16 .. OB/OD.

1324 6.32 TOC MW-20 .. OB/OD

1325 7.65 TOC MW-25 .. OB/OD

Locks rusted shut at MW-22 & MW-7. Unable to get those water levels. See Green can "Box 2 of 2" for other data.

1429 3.58' TOC MW-36 outside of ash.

1458 3.48' TOC MW-56 outside of ash

1507 4.35' TOC MW-51D ash

1508 4.22' TOC MW-47 ash

1507 3.62' TOC MW-52D ash

1552 9.03' TOC PT-10 ash

1602 2.98' TOC MW-60 ash

1614 2.09' TOC MW-39 ash

1625 7.53' TOC PT-12A ash

1628 6.96' TOC MW-44A ash

1634 3.90' TOC MW-45 ash

1637 5.88' TOC MW-50D ash

1641 5.91' TOC MW-49D ash

1644 6.06' TOC MW-46 ash

Two drums staged at ash land fill - one full.



(38)

6-17-97 Ash water levels

One down is ~ 1/5 full. Will use second for bad purge water containment.

Both not yet labeled.

1654 5.34' TOC PT-19 oak
This well is infested with ants, including the well column

1659 7.93' TOC MW-32 bailer oak

1704 5.30' TOC MW-31 bailer oak

1708 5.96' TOC ~~PT-25~~ bailer oak

1713 8.35' TOC MW-30 bailer oak

1720 6.65' TOC MW-29 oak

1723 5.04' TOC ~~PT-24~~ oak Fence corner

1726 5.61' TOC MW-28 oak

1729 6.48' TOC MW-27 oak

1740 Done with ash landfill water levels.

See Post 2 of 2 for other water level data.

1830 Rock at base - end of dug

~~Added 6/17/97~~

(39)

6-15-97

0800 Annul & MCB on-site. MCB decimo pumps. Annul calibrates equipment.

HF Scientific, inc. DRT-15CE Turbidimeter (Hango SN 12330):

0.02 NTU ref. STD = 0.03 reading (no adjustment) - 10 scale setting

107.4 NTU STD = 109 reading (no adjustment) - 1000 scale setting

Reading Param set to after setting

6.87 PH 7.06 6.99

3.89 PH 4.00 3.99

1125 μ S 5.00 1021

431 μ S 5.00 419 418

4.5 NTU Turb. 0.0 0.0

97.8 NTU Turb. 103.4 107

0.0 NTU Turb 12.2 ^{N/A} Standard 5 wings

282 mV/21.3°C Eh 293 mV 293

469 mV/21.1°C Eh 468 mV OX/RY not set

9.14 mg/L/20.8°C DO 9.14 okay! not set

Above calibration table is a calibration of

the Hydrolab H20 water Quality Multiprobe. Read

from a Scout 2. data display.

(12)

Carroll's 1948

1948

Carroll's 1948

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6-18-97

0935 TEL, Inc. Model 5808 OVM set to zero air. No calibration. 100 ppm std. gas in trailer. Checked with Sharpie. Registered >100 ppm. Put together bottle sets, loaded car and got ice at the transportation building.

1102 At 0810 gate.

1106 At MW45-3. POW = 14.09'

1112 Water level = 7.58'

1120 Pump intake = 12.0 Pump Y
At MW45-2. POW = 12.42'

1136 Water level = 10.11'

1140 Pump intake = 11.5 Pump N
At MW45-4. POW = 9.75'

1142 Water level = 7.26'

1200 Pump intake = 8.5' Pump no name
Take lunch at NCO Club.

1300 Pack from lunch.

1340 Setup at MW45-4. No water level recorded since P is past pump. Rate at 300 ml/min.

1347 Begin pumping MW45-4. Rate = 300 ml/min.
See next pg for data.

6-18-97

MW45-4

Purge Summary:

Time	Rate ml/min	Vol. Gall.	T _e °C	Cond. µS/cm	DO %	pH	Redox mV	Turb NTU
1358	300	1.0	11.01	707	.35	6.91	296	21.6
1402	300	1.3	11.57	702	.27	6.93	296	14.3
1405	300	1.8	11.43	697	.22	6.95	295	7.7
1408	300	2.0	11.48	695	.20	6.95	295	4.3
1411	300	2.2	11.46	693	.18	6.96	295	3.1
1414	300	2.5	11.39	691	.17	6.96	296	2.3
1415								
Sampled MW45-4. Set of:								
1 bottle of TAL Metals (08108)								
4 Tox bottles (08109, 08110, 08111, 08112)								
4 pH bottles								
4 Sp. Cond bottles								
8 Toc bottles (4 sets)								
1442	Clean up & pack van. Move to MW45-2							
1454	No water level measurable at MW45-2							
1458	Begin pumping MW45-2. Flow rate = 260 ml/min							
Purge Summary:								
Time	Rate	Vol	T _e	Cond.	DO	pH	En	Turb
1508	240	0.5	10.46	1361	5.96	6.79	300	0.2
Compressor battery dies. 1514: resume pumping.								
1514	240	0.7	11.16	Well dry.				
1520	Discontinue pumping at MW45-2.							
Set-up at MW45-3.								



4-18-97 08/00 Quarterly Sampling.

$\Sigma = 7.04$ at MW45-3. Begin pumping.

Time	Rate	Vol.	T°	Cond.	pH	Redox	DO	Turb.
1546	220	0.2	13.38	1139	7.02	286	4.20	0.2
1650	220	0.5	12.31	1210	6.99	291	3.79	0.0
1553	220	0.7	12.10	1249	6.99	293	3.83	0.0
1556	220	1.0	12.07	1241	6.99	295	3.86	0.0
1558	220	1.1	12.05	1250	6.99	294	3.80	0.0

- 11600 Sampled MW45-3. Sample set 5:
 - 1 TAL metals bottle (08103)
 - 4 Spec. Cond. bottles (08104, 08105, 08106, 08107)
 - 4 pH bottles
 - 4 TOX bottles
 - 8 TOC bottles (4 sets)

1622 Pump ran dry. Stopped pumping to allow exchange for 3 minutes. Adjust pump rate to ~70 ml/min. Dried up.

1747 Re-start sampling at MW45-3.

1801 Done sampling MW45-3. AMUJ at tricer making bottle sets for tomorrow. Thunder and heavy rains for past hour.

1920 MCB & AMUJ off-site.

Arrived 6-18-97

6-19-97 2nd Qtr. Monitoring 08/00

Time	Reading	Param.	Std. Set to	After Setting
0800	AMUJ MCB on-site.			
0830	MCB pours 0810D rinse set: (No-name pump)			
	0855 0857 0859			
	each set has:			
	1 TAL metals bottle			
	1 TOX bottle			
	1 pH bottle			
	1 Sp. Cond. bottle			
	2 TOC bottles (2 per set)			
0820-0850	AMUJ Calibrates instruments:			
0824	HF Scientific DET-15CE (not used yet):			
	0.02 STD NTUS, set to 0.02 NTUS			
	45 STD NTUS, reads 45.5 NTUS-OK!			
0859	7.14	pH	7.00	6.99
0902	3.90	pH	4.00	3.99
0905	0.0	Turb.	0.0	0.0 NTUS
0906	110	Turb.	107.4	106 NTUS
0909	39.3	Turb.	NOT set to	45 NTUS STD.
0911	981	S. Cond.	1021	1021 μ S
0913	441	S. Cond.	399	441 μ S out of range
0917	287 mV - 19.9°C	EH	295	295 mV



6-19-97 SEDR 0810D Quarterly June 1997

Time Reading Param SH set to Affn Setting

0921 4774 MW-19.9°C Eh 4770 - not set, okay

0925 9.65 mg/l/20°C DO 9.17 9.14

0935 Stop by Transportation building to get Potable water and ice. BLDG: #122.

1008 Key #2508 opens 0810D gate

1020 Set-up at MW45-2. Water level past the pump intake.

1025 Begin pumping MW45-2 at 100ml/min.

MW45-2 Purge Data:

Time Rate Vol. T°C Cond DO pH Eh Turb

1036 110 0.3 12.32 1418 6.09 6.74 327 1.6

1039 110 0.4 11.40 1472 6.86 6.73 329 2.2

1042 110 0.5 11.28 1432 7.06 6.75 331 2.4

1045 110 0.55 11.31 1438 6.84 6.75 333 2.9

1048 Sampled MW45-2. Sample set 15:

only sample taken TAL Metals bottle (08098)

4 pH bottles (08099, 08099, 08101, 08102)

4 S. Cond bottles

4 TOX bottles

8 TOC bottles

1100 Dried up MW45-2. Will sample later today

1114 MW-13 2 = 3.28'. Pump N set to 8.0'

1130 MW-14 2 = 5.11'. Pump does not accept

6-19-97

1140 Pump - PVC bent at ground surface. Totally obstructed. Go back to MW-13.

1202 Set up pumping at MW-13. Pre-pump water level is 3.28'. Begin pumping.

2 = 3.52', Rate = 210 ml/min at MW-13:

Time Rate Vol Temp S. Cond DO pH Eh Turb

1204 210 0.4 14.38 884 0.21 6.66 214 2.7

1208 210 1.0 13.99 882 0.17 6.65 211 2.9

1211 210 1.3 13.96 878 0.14 6.65 210 2.3

1214 210 1.5 14.01 878 0.13 6.65 211 2.4

1217 210 1.8 13.80 875 0.12 6.64 210 2.3

1300 Sampled MW-13.

1304 Done sampling MW-13. Sample set 15:

1 TAL Metals bottle (08078)

4 pH bottles (08079, 08080, 08081, 08082)

4 S. Cond bottles

4 TOX bottles

8 TOC bottles (4 sets)

1301 Pulled up pump from MW-4.

1304 Set up small marine battery to be changed at 0810D trailer outside the gate.

1318 leave post 2 for lunch.

1400 Arrive at State house. Phone # 585-62376



46

6-19-97 ASST/OB/OD Quarterly Monitoring

Will return to the State's house tomorrow.
at about 10 AM to sample...

1430 Stop by BLDG 103 to see Debbie Karlson
at Security. After hours/weekend.
clearance is set.

1440 Back at trailer. MCB calls Bob Kane
letting him know we can't get a
Marshall pump into MW-14. Will
perform OB/OD QA/QC on MW-12.

1510 Enter post 5 (Ammo area). 76°F,
RH = 80%, P. Cloudy, 5-10 mph. NW wind.

1530 \bar{z} = 3.12' at MW-12. SET intake
at 7.0 feet.

1542 Begin pumping MW-12.

1557 MW-12 Rate = 300 mL/min

	RATE	VOL	Temp	Scnd	DO	pH	EH	Turb
1552	300	0.3	14.08	817	0.33	6.96	274	8.5

1555	300	0.6	13.52	822	0.22	6.95	271	5.4
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1558	300	0.9	13.21	825	0.17	6.95	274	3.3
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1601	300	1.1	13.21	824	0.16	6.95	274	2.3
------	-----	-----	-------	-----	------	------	-----	-----

1604	300	1.3	13.11	826	0.16	6.95	274	2.1
------	-----	-----	-------	-----	------	------	-----	-----

1605 Sampled MW 12

1610 \bar{z} at MW-27 = 4.45'. Pump set to 13.0 ft.

47

6-19-97

Samples taken at MW-12: duplicate

3 TAL Metals. (OBØ73, ^{OB113}~~OBØ~~, OBØ73 MRD)

5 pH bottles (OBØ74, OBØ75, OBØ76, OBØ77, ^{OBØ73}MRD)

5 S.Cnd bottles

5 TOX bottles

10 TOC bottles (5 sets) ↓

Rinsate taken on this pump (OB114, OB114 MRD)

1648 \bar{z} = 4.48 at MW-27. Begin pumping.

MW-27 Purge Summary:

Rate = 280 ml/min, \bar{z} = 4.78'

Time	Vol	Rate	T°	S.Cnd	DO	pH	EH	Turb
1654	0.3	280	11.81	805	0.40	6.81	298	1.6
1657	0.5	280	11.40	817	0.20	6.83	295	0.8
1700	0.8	280	11.26	822	0.14	6.81	293	0.4
1703	1.1	280	11.22	823	0.12	6.89	291	0.4
1706	1.3	280	11.12	825	0.12	6.90	290	0.5
1709	1.6	280	11.21	825	0.11	6.91	289	0.5

1710 Sampled MW-27. Sample set is:

1 tal metals (OBØ88) bottle

4 pH bottles (OBØ89, OBØ90, OBØ91, OBØ92)

4 S.Cnd bottles

4 TOX bottles

8 TOC bottles (4 sets) ↓



(148)

6-19-97 0910 Quarterly Sampling

1848 Finish sampling MW45-2 indicator sets. See page (141).

1900 Leave post 5 for trailer. Impact. Ice coolers & Separate MRD samples into coolers.

1930 Arrive MCB off-base.

Arrive
6-19-97

(149)

6-20-97 ASH Landfill Sampling

Time	Reading	Param	Std. Set to	Reading
0740	Arrive & MCB at site. MCB builds bottle sets. Arrive calibrates H ₂ O ₂ .			
0804	6.90	pH	7.00	6.99
0808	4.14	pH	4.00	4.00
0810	1025	S. Cond.	1021	1021
0813	433	S. Cond.	397	Not Set
0814	0.5	Turb	0.0	0.0
0822	98.0	Turb	107.4	107
0825	41.7	Turb	45	N/A: Not set
0827	291 mV	Eh	290	290
0830	474 mV	Eh	470	N/A: Not set
0833	8.94 mg/L	DO	9.11	9.11
0900	Arrive packs van & cleaned pumps. Pour rinsate for MW-36 (3 VOC 524.2 bottles (A1113))			
0938	Leave post 1 for the Fairhouse. At Fairhouse - no one home. MCB drives back to SEM for hauler.			
1000	Phone communication with Cab. Home this morning: do not sample MW-14 at 08/10. Arrive 5:41 5:41 Sample volume			

Handwritten notes on lined paper, including the words "plant", "water", "light", "soil", "nutrients", "photosynthesis", "chlorophyll", "stomata", "transpiration", "respiration", "growth", "reproduction", "adaptation", "survival", "evolution", "genetics", "biology", "ecology", "environment", "ecosystem", "community", "population", "individual", "organism", "cell", "tissue", "organ", "system", "organism", "population", "community", "ecosystem", "environment", "ecology", "biology", "genetics", "evolution", "adaptation", "survival", "growth", "reproduction", "photosynthesis", "transpiration", "respiration", "stomata", "chlorophyll", "nutrients", "water", "light", "plant".

6-30-97 ASH Quarterly

Slates return home. Tall with Mr. Slate.

1130 Sample # FH-S (circled) from hose off the back of the house.

Sample # AL169 (3 Wc 524.2 bottles).

1125 Sample FH-D from sink inside of house (top water has sulfur smell and effervesces).

1150 Sample # AL110 (3 Wc 524.2 bottles).

at MW-47 = 4:35. No OVM reading because RH = 85%. Set pump to F.O. intake.

1200 Forgot control box battery. MCB goes to Depot to get it.

1230 Σ at MW-56 = 3.53 ft. trace. Pump set to 5.0' intake.

1255 Σ at MW-36 = 3.70 ft (hsc) set to 10'. MCB goes to get lunch.

1324 AMUD begins pumping MW-47. Stable at 170 ml/min. Σ = 4.90.

1340 Well Turbidity high > 100 we will let the water clear.

Some before taking readings.

6-20-97 ASH Quarterly

7:55 Starting Readings

Time Wt 1 RATE TO SOUND DO pH Eh TMS

1357 1.8 170 1427 649 .15 68333 27.9

1400 2.0 170 1441 649 .14 626305 25.1

1403 2.1 170 1416 649 .13 62530 21.1

1406 2.3 170 1402 649 .13 626303 24.2

1410 Sampled MW-47

Sample set is: (AL107)

3 meth/e bottles

2 DOC bottles filled in trailer (after)

1 Nitrate/Nitrite bottle

3 Wc 524.2 bottles / 1 Alk, Sulf, Cl. bottle

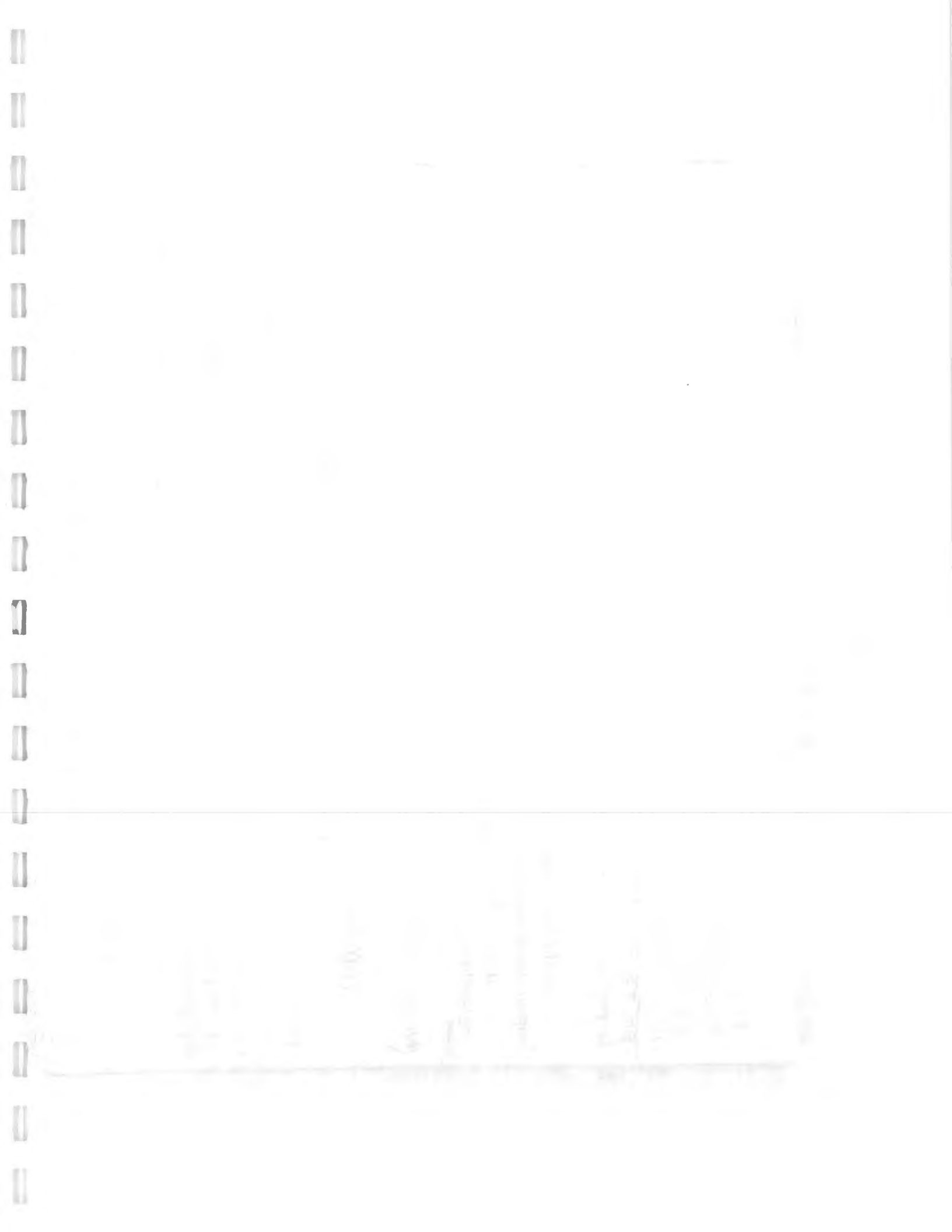
Fe 2+ = 0.23 mg/L per HACH colorimeter. HACH seized before reading.

Done sampling. Move equipment to MW-36.

1426 Done sampling. Move equipment to MW-36.

1459 I at MW-36 3.76 No OVM heard, no

Time	Wt 1	RATE	TO SOUND	DO	pH	Eh	TMS
1510	0.5	320	1144	722	.18	643	24 16.1
1513	0.5	320	1144	722	.17	644	273 8.5
1514	0.8	320	1146	722	.17	644	273 6.3
1519	1.1	320	1172	723	.18	646	24 7.8
1525	Sample taken w/ MW-36						



52

6-20-97 ASH Quarterly Sampling

1525 ~~PT~~ = 20 N₂/L

1554 Leave MW-36. Secured MW-57.

1608 Left the quick & easy food mart with 8 ~~lb~~ - 25 lb. bags of ice.

1630 Back at trailers unloading van.

1920 Leave site with 6 packed coolers to ship at Syracuse.

2030 Arrive at Fed-ex. They close now at 8:30pm!! They took the 5 coolers anyway.

2200 Back at hotel.

~~MW~~
6/20/97

53

6-21-97 ASH Quarterly

0800 AMW/MCB arrive on depot.

Build bottle sets & decom pumps and load van.

Time	Reading	Param	Std Set ID	Reading				
0917	7.11	pH	7.00	6.99				
0919	4.01	pH	4.00 Std	not set				
0922	0.0	Turb.	0.0	0.0				
0925	12.1	Turb std	107	107				
0927	43.3	Turb	N/A	45 NTU std.				
0929	281mV	24.5°C Eh	286	286				
0932	473mV	24.4°C Eh	N/A	46.3 std.				
0935	8.47mg/L	24.2°C DO	8.50	8.50				
1000	Set up at MW-56. $\Sigma = 3.56$ TOC.							
1027	Begin purging MW-56. Intake @ 5.0'							
1030	Rate = 170 ml/min. $\Sigma = 3.68$ TOC							
Water very turbid (>100 NTUs).								
Let it purge.								
1045	$\Sigma = 3.94$	turb = 198 NTUs	MW-56:					
Time	%I	Rate	IR	Speed	Do	pH	Eh	TOC
1125	3.9	110	16.10	813	0.11	6.72	288	34.8
1128	4.0	110	16.03	815	0.11	6.72	286	32.9
1131	4.1	110	15.83	815	0.11	6.72	282	30.2
1134	4.3	110	16.41	816	0.10	6.72	232	26.0



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4/11/97 ASH Quarterly

- 113ie Sampled MW-56.
3 voc 524.2 (AL114)
3 m/e bottles
1 soaf, clean, All bottle
1 DOC transfer bottle
1 Nitrate/nitrite bottle
2nd = 0.43 mg/L
- 1200 Pack up.
- 1220 At torri's for lunch
- 1315 Back at depot. Decen pump, ice samples
- 1400 At ash landfill incinerator bldg.
Dump 5 gallons of MW-56 purge
water into drum. ASH-5W.
Labeled ASH-5W and ASH-4W
with parent pom.
- 1416: MW-59 \bar{x} = 2.49' TOC
Pump N set to: 8.0' intake.
- 1425 MW-60 \bar{x} = 3.24' TOC
Pump set to 8.0' intake.
- 1438 PG-11 = 604' Doc
Pump set to 17.5'
- 1450 \bar{x} = 3.23' TOC at MW-60
- HS1 Begin purging MW-60

6/21/97 ASH Quarterly

(55)

Time	Vol	Rate	Temp	S. Cond	DO	pH	EH	MW-60 Turb.
1454								
1458	0.7	140	16.57	730	1.20	6.62	207	4.7
1503	0.3	140	17.08	728	0.93	6.64	203	4.8
1506	0.5	140	16.45	740	0.61	6.64	205	4.3
1507								
1509	0.6	140	17.01	748	0.49	6.64	214	3.2
1513	0.7	140	16.55	754	0.37	6.64	258	3.7
1514								
1517	0.8	140	16.42	756	0.33	6.63	252	3.8
1520	0.9	140	16.71	760	0.29	6.63	248	3.5
1523	1.0	140	16.41	762	0.26	6.63	245	3.6
1525								
1526	1.1	140	16.40	762	0.27	6.63	242	3.8
1529	1.2	140	16.99	762	0.25	6.64	239	3.8
1530								
1543								

Rate = 230 ml/min \bar{x} = 3.86' at MW-60.
Decrease the rate. Weather is 89°F, >80% RH, 5-10 mph SW wind, partly cloudy.
 \bar{x} = 3.89', Rate = 140 ml/min.
 \bar{x} = 3.70' TOC with rate = 140 ml/min

Fe (II) by HACH reads 0.24 mg/L.
AL102 set - 3 m/e bottles, 3 voc 524.2,
1 Nitrate/nitrite, 1 soaf, clean, All, 1 DOC transfer



6/21/97 ASH Quarterly

1609 Σ Peaks = 2.50

1611 Started Purging

1630 Classy leave in mess

Time	Vol/Eg	Temp	Sec	Do	PH	EL	TR
1633	0.6	170	14.98	1325	.27	6.96	271 5.2
1636	0.8	170	15.42	1321	.24	6.96	272 4.8
1639	1.0	170	15.33	1319	.21	6.96	271 4.9
1642	1.1	170	15.31	1325	.22	6.96	271 4.9
1645	1.2	170	16.04	1325	.21	6.96	270 5.0

1648 Sampled raw-59 (AL1011)

1624 Fe 12 = 0.03

1721 Σ = 5.660 at PT-11.

1733 Begin purge at PT-11.

1733 Rate = 120 ml/min Σ = 6.98.

1736 ans

Time	Volume	Rate	T _o	S _{cond}	En	DO	PH	Temp
1736	0.3	120	13.82	961	310	5.09	6.85	16.1
1739	0.4	110	13.68	963	312	5.12	6.85	14.8
1742	0.45	110	13.94	963	315	4.94	6.84	16.1
1745	Sample PT-11 (AL1000)							
1758	Fe II = 0.28 mg/L at PT-11.							

Sample set = 3 voc 524.2, 3 mcl/c, 1 Nitrate / Nitrite, 1 Sulf, Cd/Cr, Alk, 1 DOC transfer

1830 Pack up and drive to Post 5.
1840 Guards unlock Post 5 gate.
1930 AMU/MCB off-site

ans
6/21/97



6/30/97 Ash Quarterly

0800 AMU/MCB on-site. Label bottle sets, load car with equipment. Hsp:

TIME	Reading	PARAM	Std. Set To	Reading
0831	6.99	PH	7.00	7.00
0834	4.01	PH	4.00	4.00
0838	988	S Cond	1000	1000
0840	438	S Cond	447	447
0843	0.6-1.1	Turb	0.0	0.0
0847	105	Turb	107	107
0849	43.9	Turb	~45mg/L	Not Set.
0852	248mV	24.8°C	205	285
0855	484mV	24.8°C	EH	~462mV - Not Set.
0858	8.18mg/L	25°C	DO	8.38
1004			at MW-27 = 6.59	TOC.

Weather: Cloudy 2-5 mph West wind, 80% RH, 80°F.

ASH Quarterly 4/22/97

MW-27 (cm³)

Time	Vol	Rate	T°	Secnd	DO	EH	PH	Turb
1043	0.3	80	16.71	672	5.94	348	6.85	N/A
Cleared out flow-through cell.								
1052	0.4	80	16.03	682	5.60	339	6.95	43.0
1055	0.45	80	16.25	682	5.44	340	6.96	39.7
1058	0.47	80	16.40	683	5.56	345	6.93	33.8
1101	0.48	70	16.74	688	5.34	345	6.95	29.3
1104	0.49	70	16.41	717	4.90	352	6.91	27.8

Well stabilized at 1106, then next day. Will return to fill bottles. Bottle set.

AL-106: 3 VOC 524.2
 3 Methane/Ethane/Ethene
 1 Nitrate/Nitrite
 1 Sulf, Chlor, Alk
 1 DBC transfer Bottle.

1026 Pump set to 9.0 feet at MW-27.
 1027 Σ at MW-27 = 6.16.
 1028 Begin pumping MW-27.
 1035 Rate = 80 ml/min. Σ past top of pump.

1036 0.1 80 16.43 687 5.40 6.91 345
 1040 0.2 80 16.86 682 5.97 6.85 347

Fact van and move to MW-40.
 1125 Set up at MW-40. Σ = 5.96.
 Dumped 10 gallons of purge water in drum. ASH-SW. Pump set to 11.0.
 1136 Σ at MW-40 = 5.44.
 1139 Begin pumping MW-40.
 1144 Rate at MW-40 = 75ml/min Σ = 6.70



(10)

10/22/97

MW-40 Purge Data:

Time	Rate	Vol	Temp	Speed	DO	pH	En	Tube
1155	75	0.1	15.67	564	0.50	7.01	321	40
1808	75	0.2	15.95	566	0.53	7.01	319	44
1205	75	0.25	15.43	565	0.50	7.01	317	44
1208	75	0.3	15.34	566	0.51	7.00	317	32
1210	Sampled MW-40. ALL95 Set 15:							

3 VOC 524.2 bottles

3 M/E/C bottles

1 Sulf, Chlor, All bottle

1 Nitrate/Nitrite bottle

1 DOC transfer bottle.

1220 Fe II = 0.36 mg/L

1231 Fe II (dup) = 0.27 mg/L.

1240 Done sampling. Load van and more

cast to incineration building.

1495 1 PT-19 S. 7' pump set to 9'

Note: Airt and Airt tanks were

lumped during water leak

and were sprayed with soap

given well. Sample to ALL94

1452 Start Pumping on PT-19

water level 702' with Pts

1453 242 ml/min

1454 1454: Unkollet # 0310213

ASH Quarterly

10/23/97

(10)

Time	Rate	Vol	Temp	Speed	DO	pH	En	Tube
1503	240	0.3	13.32	771	0.25	6.82	198	39
1506	240	6.6	13.00	798	0.20	6.57	198	40
1509	240	0.8	12.71	807	0.17	6.55	192	33
1512	240	1.1	12.79	812	0.14	6.54	192	32
1515	240	1.3	12.53	806	0.13	6.54	192	35
1518	240	1.6	12.68	818	0.12	6.53	192	35
1520	Sampled well PT-19 - R 107							
1532	Fe(II) = 0.95 mg/L.							
1553	Set at MW-30 = 8.74'. Pump set to 9.0'.							
1601	Begin pumping MW-30.							
1611	Rate = 165 ml/min. Water level unmeasurable (into pump).							
1614	Start taking readings at MW-30:							
1615	165	0.1	14.27	708	0.17	6.79	316	6.2
1618	165	0.3	13.50	711	0.19	6.79	316	6.3
1622	165	1.0	13.78	709	0.19	6.80	315	6.7
1625	165	1.3	13.68	709	0.19	6.80	315	6.2
1628	165	1.5	13.82	711	0.19	6.80	314	6.1
1630	Sampled MW-30 (ALL95)							
1641	Fe(II) = 0.23 mg/L.							
1642	Stopped pumping.							



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6/22/97 Ash Quarterly

1700 AT MW-27. Sampling well (CALIDA).
 1724 Fe (II) at MW-27 = 0.72 mg/L.
 1820 Back at trailer - decommissioning pump.
 1900 MCB / AMU off-site.

~~6/22/97~~
~~6/22/97~~

(63)

6/23/97 Ash Quarterly

Time	Reading	Parameter	Set to	Reading				
0720	AMU, MCB on-site. Build bottle sets. AMU calibration H2O.							
0747	6.80	pH	7.00	6.99				
0750	3.99	pH	4.00	4.00				
0752	1011	Cond	1000	1000				
0754	441 uS	20.7°C Cond	411	411				
0756	0.0	Turb	0.0	0.0				
0759	107	Turb	107	N/A				
0802	42.4	Turb	N/A - not set					
0805	278 mV	21.1°C Eh	293	293				
0810	508 mV	20.9°C Eh	468	468				
0933	9.12 mg/L	21.3°C DO	8.95	8.94				
0935		Van packed						
0955		Sign in at Post 5.						
1009		Sign at PT-21A = 8.43'. ϕ headspace						
1015		Pump set to 18.0'. $\Sigma = 7.61'$. Top of screens = 15.0'.						
Time	Vol	Rate	Temp	Stand	DO	pH	Eh	Turb
1021	0.8	100	12.05	1132	0.41	7.15	300	7.4
1024	0.3	100	12.08	1130	0.36	7.17	299	7.4
1027	0.35	100	11.74	1127	0.35	7.17	296	7.8

Begin purging PT-21. $\Sigma = 8.43'$, 100 ml/min



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6/23/97 Ash Quarterly
PT-21A Purge Data:

Time	Vol	Rate	Temp	Secnd	DO	pH	Eh	Turb
1030	0.4	100	11.83	11.22	0.35	7.18	297	7.8
1033	Sample PT-21A (AL118)							
	3	VOC cup bottles						
	1	Nitrate/Nitrite bottle						
	3	Meqe bottles						
	1	Sulf, Chlor, Alk bottle						
	1	DOC transfer bottle						

1103 Done pumping. Pack and move to MW-45. (6/23/97 Note - Iron not written down)

1123 $\bar{y} = 4.46$ at MW-45. $\sigma \cdot \phi$ headspace

1134 Pump set to 6.5'. $\bar{y} = 4.38$

1135 Begin pumping MW-45. Water level into pump. Pumping rate = 1.20 ml/min

Time	Vol	Rate	Temp	Secnd	DO	pH	Eh	Turb
1140	0.1	120	14.11	5.04	4.28	7.27	297	19.6
1143	0.2	100	18.88	5.72	3.09	7.22	296	19.8
1146	0.3	100	17.74	5.52	1.20	7.13	300	19.0
1149	0.35	100	16.81	5.91	0.60	7.01	297	19.7
1152	0.4	100	16.84	6.03	0.49	6.97	284	19.0
1155	0.5	100	16.74	6.09	0.32	6.96	271	18.8
1158	0.55	100	16.40	6.14	0.31	6.94	249	17.3
1201	0.6	100	16.24	6.16	0.28	6.94	242	17.0

6/23/97

Ash Quarterly

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MW-45 Purge Summary:

Time	Vol	Rate	Temp	Secnd	DO	pH	Eh	Turb
1204	0.65	100	16.70	6.17	0.28	6.94	240	16.1
1207	Sample MW-45 (AL115). Set 15:							
	3	VOC 524.2 bottles						
	3	Meqe bottles						
	1	Nitrate/Nitrite bottle						
	1	Sulf, Chlor, Alk bottle						
	1	Select Metals bottle						

1230 Fe (II) = 0.27 mg/L at MW-45.

1251 Drive to ASH-5W. Dump 1.0 gallon from PT-21A into drum.

1316 Leave depot for Tori's lunch.

1345 Leave Tori's for depot. Take to JWA. Call from Rob Kawa. Clean pumps.

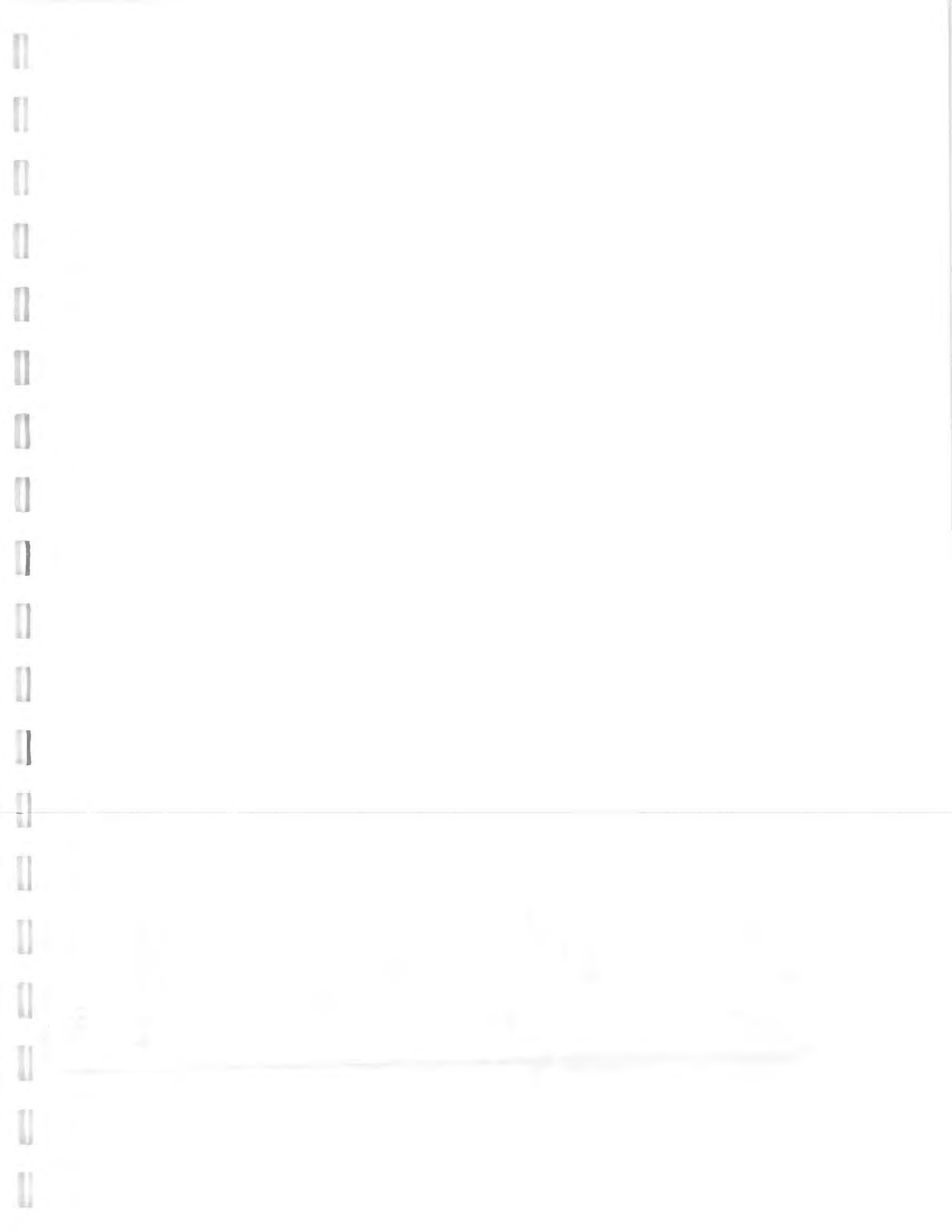
1410 Fast post 5. Drive to MW-46.

1435 OVM at MW-46 = 0.0 to 1.0 ppm.

1441 $\bar{y} = 6.34$ TOC. Pump intake set to 10.0' west

Time	Vol	Rate	Temp	Secnd	DO	pH	Eh	Turb
1453	$\bar{y} = 6.34$	Begin pumping						
1500	Rate = 250 ml/min, $\bar{y} = 6.48$							
1503	0.5	280	13.64	7.20	0.22	6.79	244	22.8

MW-46 Purge Summary:



(66) ASH Quarterly

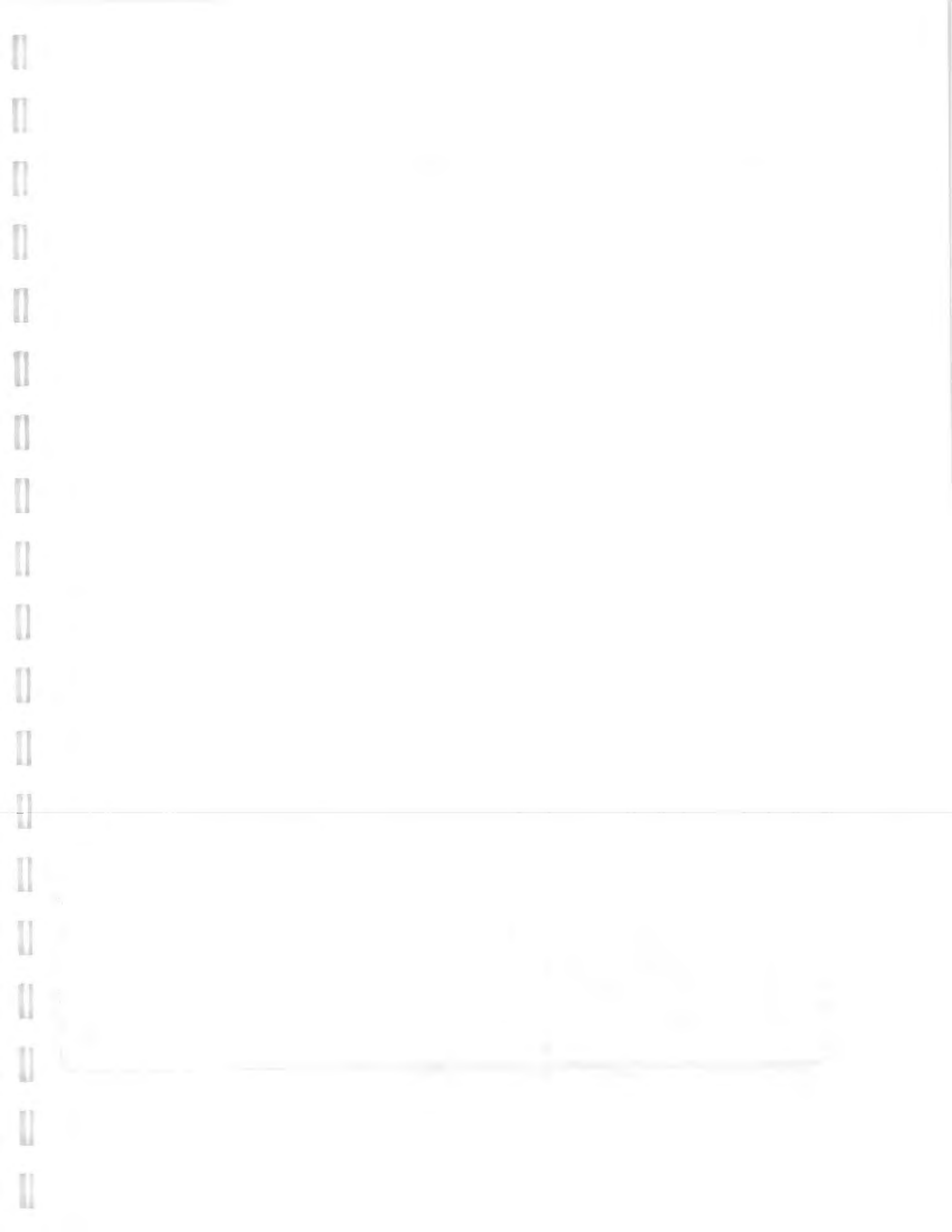
6/23/97

Time	Wt	Rate	Temp	Secnd	DO	pH	Ek	Trub	
1506	0.9	380	13.47	793	0.20	6.79	237	23.2	
1509	1.1	380	13.34	791	0.17	6.79	232	23.2	
1512	1.4	280	13.30	791	0.17	6.79	236	19.9	
water level = 6.52'									
1515	1.7	280	13.34	790	0.16	6.79	235	18.4	
1516	Sampled MW-46 (AL117).								
1527	Fe ²⁺ AT MW-46 = 0.30 mg/l								
1545	MW-48 \bar{x} = 5.44', 1.0 ppm ca. OVM - : maybe moisture. Pump set to 8.0'.								
1556	MW-48 set up. Start pumping. Starting water level = 5.47'. Rate = 300 ml/min, \bar{x} = 5.57' at MW-48:								
	Time	Wt	Rate	Temp	Secnd	DO	pH	Ek	Trub
	1600	0.2	300	15.57	886	.44	6.84	287	6.8
	1603	0.3	300	14.29	592	.30	6.93	281	5.9
	1606	0.7	300	14.08	594	.23	6.92	274	5.1
	1609	0.9	300	13.73	593	.23	6.92	268	6.2
	1612	1.1	300	13.85	573	.22	6.92	265	5.2
	1614	Sample MW-48 (AL116)							
	1627	Fe ²⁺ = 0.39 mg/l							
	1640	Sample total of 5 gal of nitrogen							
	1648	At post 5, signing out for the day.							

(67) ASH Quarterly

6/23/97

Sample set for MW-46 (AL117) =	3 VOC CLP bottles
	1 Nitrate/Nitrite bottle
	1 Sulf/Chlor/Alk
	1 DOC transfer bottle
	3 M/E bottles
Sample set for (AL116)	3 VOC 524, 2 bottles
	1 urbate/nh ₃ -te
	1 DOC Transfer
	1 Sulf/Chlor/Alk
	3 M/E bottles
	Back at trailer. MCB filters DOC samples. Unload van. Put pumps in decon trailer. Pack samples. Left depot for Syracuse Fed-ex.
	3 Coolers: 1 to Evergreen Analytical (Airbill # 3234705176)
	2 coolers # 734, 2 coolers to ITS (Coolers 34M & ODG-116) under airbill # 3234705143.
	Arrive at Fed-Ex. Drop off coolers.
	Arrive 6/23/97



4/24/97 Ash Landfill Quarterly

0800 MCB & ARMU at base. MCB builds bottle sets. Clarity sample 10 #s with Rob Kane. ARMU calibrates H₂O: (Thunderstorms).

Time	Reading	Param	Std	Reading
0840	7.14	pH	7.00	6.99
0842	3.95	pH	4.00	3.99
0844	9.21	COND	1000	1000
0847	444 (20°C)	COND	402	401
0849	5.0	Turb	0.0	0.0
0852	91.7	Turb	107.4	107
0854	45	Turb		56.8
0859	237mV/20.4°C	EH	294	294
0902	516mV/20.4°C	EH	469	469
0905	9.17mg/L-20°C	DO	9.17	9.17

1020 Sign-in at Post 5, light rain. $\Sigma = 7.83'$ at MW-12A. Pump set to 100.

Time	Vol Rate	Temp	COND	DO	pH	EH	ML
1105	$\Sigma = 8.02$	Rate = 80 mL/min.					MW-12A
1107	0.1	16.50	14.70	0.92	6.62	322	114
1110	0.2	50	16.24	16.70	0.83	6.63	328

4/24/97 Ash Landfill

1113 0.4 50 16.79 0.89 1650 6.63 323 118
 1115 Sampled PT-12A (AL133). Set is:
 3 VOC CLP
 3 Methane/Ethane/Ethane
 1 Sulf/Chlor/Alk
 1 Nitrate/Nitrite
 1 DOC transfer bottle
 Fe (II) = 0.52 mg/L.

Time	Rate	Vol	Temp	COND	DO	pH	EH	Turb
1205			$\Sigma = 7.40$					
1218			Begin pumping					
1225	110	0.1	16.87	1207	0.75	6.54	306	152
1228	110	0.15	14.82	1214	0.62	6.51	297	94
1231	110	0.2	14.18	1204	0.51	6.50	291	5.0
1238	100	0.4	15.03	1198	.30	6.50	279	2.5
1241	100	0.45	14.96	1187	.40	6.50	272	1.6
1244	100	0.5	15.40	1192	0.46	6.51	272	1.4
1247	100	0.6	15.72	1211	0.43	6.51	273	0.9

1252 Pump compression stops. Restart it.



(76)

ASH QUARTERLY

71

10/24/97 ASH Quarterly

Purge Summary of PT-18:

Time	Vol.	Rate	Temp	Sound	DO	pH	Et	Turb
------	------	------	------	-------	----	----	----	------

1254	0.8	100	13.42	1181	0.32	6.50	250	2.8
1257	1.0	100	13.75	1171	0.25	6.49	283	0.1
1300	1.1	100	12.80	1171	0.23	6.48	284	0.0
1303	1.3	100	12.41	1173	0.25	6.48	283	0.1

Set is: 3 VOC 8360A bottles and 3 Methane/Ethane/Ethane bottles

Well 15 MW-29.

at MW-44A = 7.28' Pump

Sample PT-18 (AL124):

3 VOC 6LP bottles

1 Nitrate/Nitrite bottle

3 m/e/e bottles

1 Sulf/Chlor/Alk bottle

1 Select Metals bottle

1 DOC transfer bottle

1320 Fe(II) = 0.15 mg/L

1338 Done sampling, Packed Van

1400 Leave depot for lunch. Dumped

S.O galletter into ASH-5W from

PT-18 and PT-12A.

1440 Return from lunch. Recn

pump

1500 POU rinsate set AL121.

for PT-24 pump. Set IS

3 VOC C/P and 3 m/e/e

bottles. 1 Nitrite

1510 POU Rinse set AD13MBD.

Alk, Chlor, Sulf bottle, 1 DOC bottle.

3 VOC C/P bottles, 3 m/e/e bottles, 1 Nitrate

Nitrite bottle, 1 Select metals bottle, 1

Alk, Chlor, Sulf bottle, 1 DOC bottle.

3 VOC C/P bottles, 3 m/e/e bottles, 1 Nitrate

Nitrite bottle, 1 Select metals bottle, 1

Alk, Chlor, Sulf bottle, 1 DOC bottle.

10/10/10

10/10/10

10/10/10

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10/10/10

10/10/10

10/10/10

10/10/10

10/10/10

10/10/10

(72)

U. 24-97 ASB Landfill

Time	Vol	Rate	T°	COND	DO	pH	Eh	Turb
1730								
Begin pumping MW-29								
1738		Rate = 140 ml/min @ MW-29.						
1739	0.1	140	1511	1018	1.45	6.65	323	186
1742	0.15	130	1414	1020	1.48	6.68	327	114
1745	0.2	130	1431	1022	1.46	6.61	329	91.2
1750	0.3	130	1374	1024	1.45	6.60	332	65.2
1755	0.4	130	1406	1028	1.43	6.60	334	47.5
1800	1.0	130	1429	1029	1.41	6.60	333	37.0
1803	1.2	130	1405	1027	1.41	6.61	335	28.0
1806	1.35	130	1381	1030	1.45	6.60	336	23.6
1809	1.5	130	1411	1038	1.41	6.61	337	21.8
1810	Sample MW-29.							
1900	Fe ²⁺ AT MW-29 = 0.22							
1916	Σ = 5.18 at PT-24. Pump intake							
at 10.0 feet TOC.								
1924	Start Pumping PT-24							
1929	Rate = 420 ml/min, Σ = 5.24.							
Time	Vol	Rate	Temp	COND	DO	pH	Eh	Turb
1929	0.2	420	13.43	799	0.65	6.71	325	11.4
1932	0.8	420	13.11	799	0.35	6.68	327	5.0
1935	1.2	420	12.92	799	0.26	6.66	328	0.5
1938	1.5	420	12.87	801	0.20	6.66	328	0.2

U/24/97

(73)

PT-24 Purge Summary

Time	Vol	Rate	Temp	COND	DO	pH	Eh	Turbidity
1941	2.0	420	12.73	801	.19	6.65	329	0.0
1944	2.3	420	12.68	801	.19	6.65	329	0.0
1945	Sampled PT-24. (AL122)							
2000	Fe (II) = 0.15 mg/L. Done sampling.							
2014	PVT 8 cells for purge rate							
from wells AT-24 + MW-29								
to do down ASB-5W								
2020	At Post 5 waiting for accuracy							
to unlock gate.								
2045	Left SIDA.							

~~ASB 6/24/97~~

6/25/97 ASH/O&G 00 Quarterly

0800 Arrive at trailer. Clean up equipment.

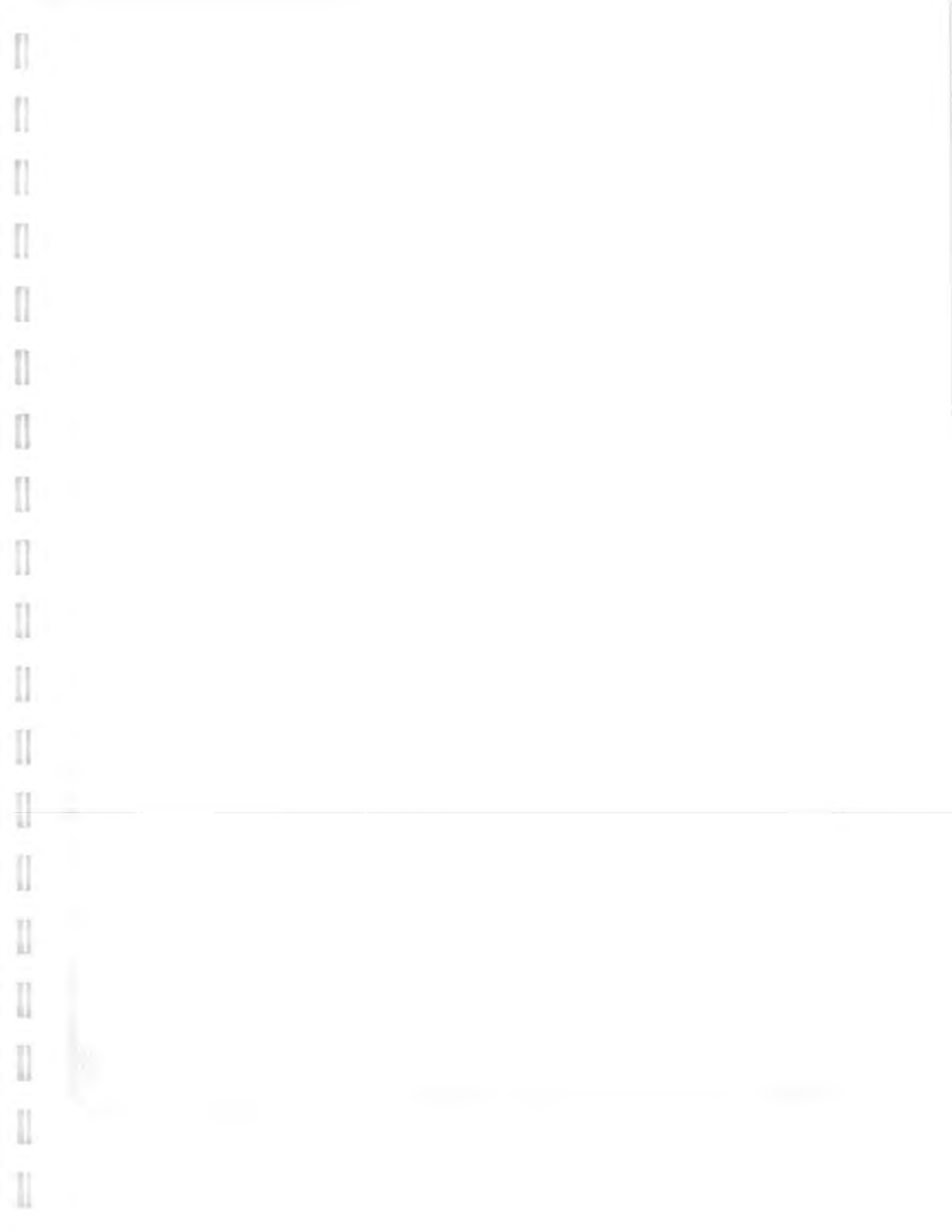
1040 Dump 2 1/2 gallons of decon waste water (potable, alkalox, di. water) into ASH-5W.

Picked up ice at transportation building.

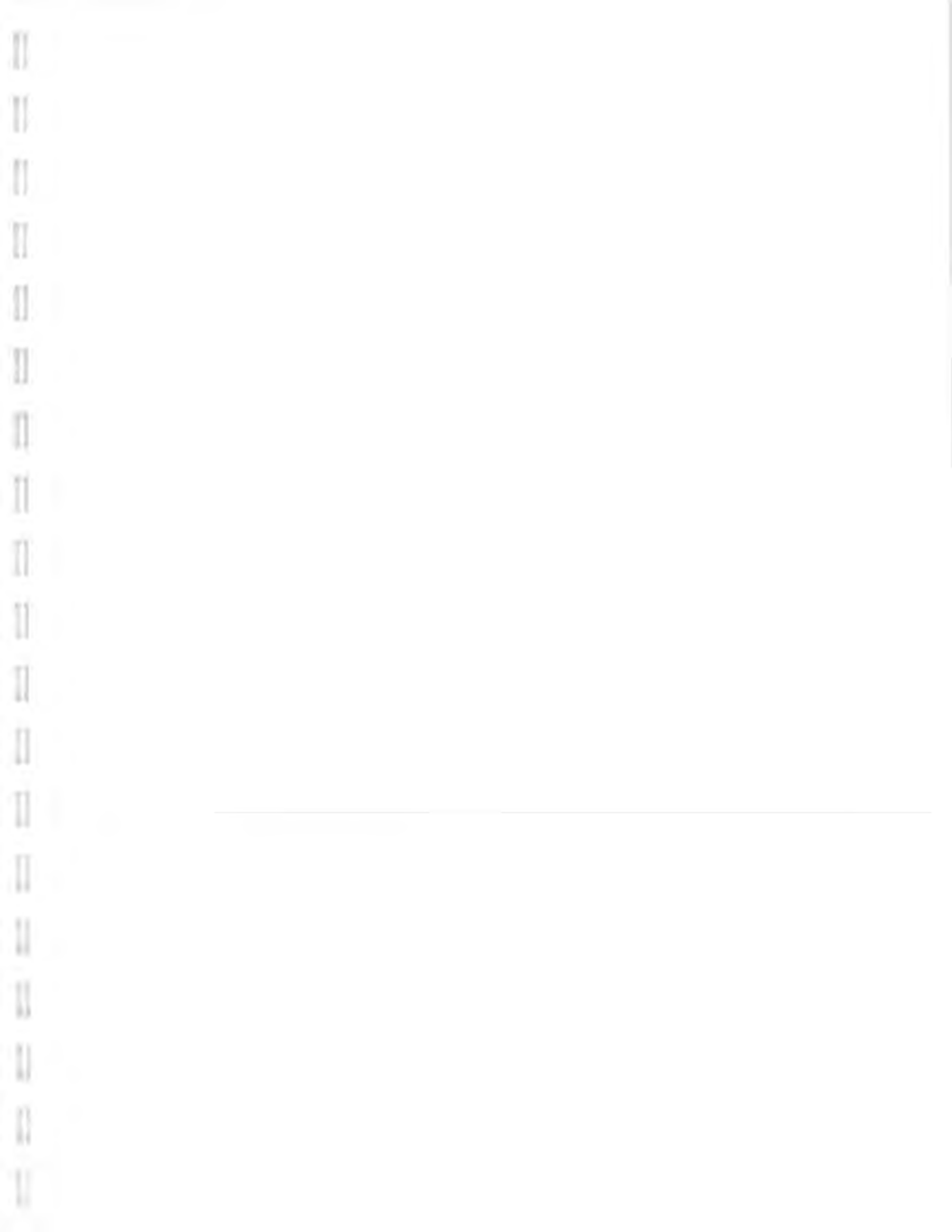
1340 Drop samples and shipped equipment off at BUDS-3B3 Red-ex.

1540 Pack van and clean up MCB & MMU off-site for days, drive back to Boston.

~~AMU
6/25/97~~



2. Chain-of-Custody Forms



CHAIN-OF-CUSTODY RECORD

Prudential Center
Boston, MA 02199 Phone: 617-859-2000
Fax: 617-859-2043

JOB NO. 730769-01003
PROJECT ASH Quarterly Prog. - SEDA
CONTACT Mike Duchesneau

LABORATORY ITS
ADDRESS 55 So. Park Dr. Colechester VT
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES											NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	PEST/POB	CN	HERB	DOC	Alkalinity	Sulfide	Chloride	Nitrate/Nitrite			
AL111		6-20-97	1525	11.0	water	✓									✓	✓	✓	7	MW-36
AL107		6-20-97	1410	7.0	water	✓									✓	✓	✓	7	MW-47
AL108		6-20-97	1045	5.4	water	✓												3	BRN-S
AL109		6-20-97	1120		water	✓												3	FH-S
AL110		6-20-97	1125		water	✓												3	FH-D
AL113		6-20-97	0900	11.0	water	✓												3	rinsate set (MW-36)
AL111MSD		6-20-97	1525	11.0	water	✓												3	Matrix spike dup. (MW-36)
AL111MS		6-20-97	1525	11.0	water	✓												3	matrix spike (MW-36)
AL112		6-20-97	1525	11.0	water	✓												3	duplicate of MW-36
AL126		6-20-97	0800	N/A	water	✓												2	trip blank

Sampled and Relinquished by
Sign Annika Willis
Print Annika Willis
Firm PAUSCH ES
Date 6/20/97 Time 1950

Received by
Sign
Print
Firm
Date Time

VOA Vial	X										X						
Glass Bottle																	
Plastic Bottle																X	X
Preservative	A										F	A			A		E
Container Volume	40										40	ML			1		500

REMARKS: (Sample storage, nonstandard sample bottles)

Relinquished by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic
A - Ice D - Acidified with HNO₃ G - Other
B - Filtered E - Acidified with H₂SO₄

Evidence Samples tampered with? No Yes
If Yes, explain in remarks.

Cooler #: 72

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CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01003
PROJECT 2nd Quarter 97 Monitoring - ASH
CONTACT M. Dache Sneau

LABORATORY ITS
ADDRESS 55 So. Park Drive Colchester VT
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES											COMMENTS (Special Instructions, cautions, etc.)		
		DATE	TIME			VOA	SVOC	METALS	PEST/PCB	CN	HERB	DOC	Salt, Chlor, Phos	Nitrate/Nitrite	NO. OF CONTAINERS				
AL100		6/21/97	1745	17.5	water										✓	✓	✓	4	PT-11
AL102		6/21/97	1530	8.0	water										✓	✓	✓	4	MW-60
AL101		6/21/97	1648	8.0	water										✓	✓	✓	4	MW-59
AL114		6/21/97	1136	5.0	water										✓	✓	✓	4	MW-56
AL105		6/22/97	1630	9.0	water										✓	✓	✓	4	MW-30
AL103		6/22/97	1210	11.0	water										✓	✓	✓	4	MW-40
AL106		6/22/97	1700	9.0	water										✓	✓	✓	4	MW-27
AL104		6/22/97	1520	9.0	water										✓	✓	✓	4	PT-19

Sampled and Relinquished by
Sign Annika Willis
Print Annika Willis
Firm PARSONS ES
Date 6/23/97 Time 1950

Received by
Sign
Print
Firm
Date Time

VOA Vial X
Glass Bottle
Plastic Bottle Y X
Preservative A E A E

Relinquished by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

Container Volume 40 ML 1 L 500 ML
PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic
A - Ice D - Acidified with HNO₃ G - Other
B - Filtered E - Acidified with H₂SO₄

REMARKS: (Sample storage, nonstandard sample bottles)

Cooler #: 34M

Evidence Samples tampered with? No Yes
If Yes, explain in remarks.

10/10/20

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CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01003
PROJECT SEDA - 2nd Quarter Monit. - Ash Landfill
CONTACT Mike Duchesneau

LABORATORY ITS
ADDRESS 55 So Park Dr Colchester VT
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH (ft, TDC)	SAMPLE MATRIX	ANALYSES												NO. OF CONTAINERS	COMMENTS <small>(Special instructions, cautions, etc.)</small>
		DATE	TIME			VOA 524.2	SVOC	METALS*	PEST/PCB	CN	HERB	TPH	Sulf. Carb. ABL	Nitrate/Nitrite	TDC				
AL116		6/23/97	1614	8.0	water	✓									✓	✓	✓	3	MW-48
AL117		6/23/97	1516	10.0	water										✓	✓	✓	3	MW-46
AL115		6/23/97	1207	6.5	water	✓		✓							✓	✓	✓	3	MW-45
AL118		6/23/97	1033	18.0	water										✓	✓	✓	4	PT-21
AL127		6/21/97	0800	N/A	water	✓												2	Trip Blank
AL102		6/21/97	1530	8.0	water	✓												3	MW-60
AL114		6/21/97	1136	5.0		✓												3	MW-56
AL104		6/22/97	1520	9.0		✓												3	PT-19
AL100		6/21/97	1745	17.5		✓												3	PT-11
AL106		6/22/97	1700	9.0		✓												3	MW-27
AL101		6/21/97	1648	8.0		✓												3	MW-59
AL103		6/22/97	1210	11.0		✓												3	MW-40
Sampled and Relinquished by Sign <u>Annika Willis</u> Print <u>Annika Willis</u> Firm <u>PARSONS ES</u> Date <u>6/23/97</u> Time <u>1955</u>		Received by Sign _____ Print _____ Firm _____ Date _____ Time _____			VOA Vial <u>X</u> Glass Bottle _____ Plastic Bottle _____ Preservative <u>A</u> <u>C</u> <u>D</u> Container Volume <u>40 ML</u> <u>1 L</u> PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic A - Ice D - Acidified with HNO ₃ G - Other B - Filtered E - Acidified with H ₂ SO ₄												REMARKS: (Sample storage, nonstandard sample bottles) <u>* Select Metals analysis (Pb, Mg, Cr, Cd, Ni) only.</u>		
Relinquished by Sign _____ Print _____ Firm _____ Date _____ Time _____		Received by Sign _____ Print _____ Firm _____ Date _____ Time _____															Cooler #: <u>ODG-16</u>		
Evidence Samples tampered with? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, explain in remarks.																			

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CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01003
PROJECT SEDA - 2nd Quarter Monit. - Ash Landfill
CONTACT Mike Duchesneau

LABORATORY ITS
ADDRESS 55 So. Park Drive Colchester VT
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	VOA	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME				SVOC	METALS	PEST/PCB	CN	HERB	TPH						
AL105		6/22/97	1630	9.0	water	✓											3	MW-30

Sampled and Relinquished by Sign <u>Annika Willis</u> Print <u>Annika Willis</u> Firm <u>PARSONS ES</u> Date <u>6/23/97</u> Time <u>1955</u>	Received by Sign Print Firm Date Time	VOA Vial	X	REMARKS: (Sample storage, nonstandard sample bottles)
		Glass Bottle		
		Plastic Bottle		
		Preservative	AC	
Relinquished by Sign Print Firm Date Time	Received by Sign Print Firm Date Time	Container Volume	40 mL	PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic G - Other A - Ice D - Acidified with HNO ₃ B - Filtered E - Acidified with H ₂ SO ₄
		Evidence Samples tampered with? <input type="checkbox"/> No <input type="checkbox"/> Yes		
		If Yes, explain in remarks.		
		Cooler #: <u>ODG-16</u>		

6/12

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CHAIN-OF-CUSTODY RECORD

PARSONS
ENGINEERING-SCIENCE, INC.

Prudential Center
Boston, MA 02199
Phone: 617-859-2000
Fax: 617-859-2043

JOB NO. 730769-01003
PROJECT SEDA - 2nd quarter monitor - ASH
CONTACT Mike Duchesneau

LABORATORY ITS
ADDRESS 55 So. Park Drive Colchester VT
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		(ft TOX) SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES													NO. OF CONTAINERS	COMMENTS <small>(Special instructions, cautions, etc.)</small>
		DATE	TIME			VOA	SVOC	Select METALS*	PEST/PCB	CN	HERB	TPH	Alkyl Sulfide	Nitrate/Nitrite	DOC					
AL124		6/24/97	1305	9.0	water	✓		✓							✓	✓	✓	8	PT-18	
AL123		6/24/97	1115	10.0	↓	✓									✓	✓	✓	7	PT-12A	
AL119		6/24/97	1810	8.5 10.0		✓		✓							✓	✓	✓	8	MW-29	
AL120		6/24/97	1810	8.5 10.0		✓		✓							✓	✓	✓	8	MW-29 dup	
AL125		6/24/97	1622	10.0		✓		✓							✓	✓	✓	8	MW-44A	
AL122		6/24/97	1945	10.0		✓									✓	✓	✓	7	PT-24	
AL122MS		6/24/97	1945	10.0		✓												3	Matrix Spike	
AL122MSD		6/24/97	1945	10.0		✓												3	Matrix Spike Dup	
AL121		6/24/97	1500	N/A		✓												3	rinsate PT-24	
AL127		6/23/97	0800	N/A		✓												2	trip blank	
AL118		6/23/97	1033	18.0		✓												3	PT-21A	
AL117		6/23/97	1516	10.0	✓												3	MW-46		

Sampled and Relinquished by
Sign Annika Willis
Print Annika Willis
Firm Parsons ES
Date 6/25/97 Time 1400

Received by
Sign
Print
Firm
Date _____ Time _____

VOA Vial	X																X
Glass Bottle																	
Plastic Bottle							X						X	X			
Preservative	A	C												A	A	A	
Container Volume	40	ML												1	50	40	

REMARKS: (Sample storage, nonstandard sample bottles)
Select Metals analysis only (Pb, Mn, Cr, Cd, Ni)

PRESERVATION KEY:
C - Acidified with HCl
F - NaOH + Ascorbic
A - Ice
D - Acidified with HNO₃
B - Filtered
E - Acidified with H₂SO₄
G - Other

Were samples tampered with? No Yes
If Yes, explain in remarks.

Cooler #: 19

111
Principles of Mathematics

Chapter 1

Section 1.1

Introduction to Algebra

Linear Equations

Systems of Equations

Quadratic Equations

CHAIN-OF-CUSTODY RECORD

PARSONS
ENGINEERING-SCIENCE, INC.
 Prudential Center Boston, MA 02199 Phone: 617-859-2000 Fax: 617-859-2043

JOB NO. 730769-01003
 PROJECT SEDA - 2nd quarter monitor - ASIT
 CONTACT Mike Duchesneau

LABORATORY MRD
 ADDRESS Omaha, NB
 CONTACT Laura Percifield

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH (ft) TOL	SAMPLE MATRIX	ANALYSES											NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME			VOA 82604	SVOC	METALS	PEST/PCB	CN	HERB	TPH	Methanol Ethanol E. thiolone					
AL120MRD		6/24/97	1510	8.5	water	✓											6	Rinsate
AL119MRD		6/24/97	1810	10.0	water	✓											6	
AL126MRD		6/24/97	0500	N/A	water	✓											2	trip blank

Sampled and Relinquished by
 Sign [Signature]
 Print Mark C. BURNS
 Firm PARSONS ES
 Date 6/25/97 Time 1400

Received by
 Sign
 Print
 Firm
 Date Time

VOA Vial

Glass Bottle

Plastic Bottle

Preservative A C

Container Volume 40 mL

REMARKS: (Sample storage, nonstandard sample bottles)
[Signature]

Relinquished by
 Sign
 Print
 Firm
 Date Time

Received by
 Sign
 Print
 Firm
 Date Time

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic
 A - Ice D - Acidified with HNO₃ G - Other
 B - Filtered E - Acidified with H₂SO₄

Evidence Samples tampered with? No Yes
 If Yes, explain in remarks.

Cooler #: 41

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CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01003
PROJECT SEDA - 2nd quarter monitoring - Ash Landfill
CONTACT Mike Duchesneau

LABORATORY Evergreen Analytical
ADDRESS 4636 Youngfield Street, Wheat Ridge, CO
CONTACT Mark Mensik

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH (ft TOC)	SAMPLE MATRIX	ANALYSES											NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME			VOA Methane/Ethane	SVOC	METALS	PEST/PCB	CN	HERB	TPH	VEG					
AL126 EV		6/20/97	0800	N/A	Water											2	TRIP BLANK	
AL102		6/21/97	1530	8.0	water	✓											WO# 97-2357 BOF# 637 BY JD	
AL101		6/21/97	1648	8.0	water	✓											C/S(O) 734 / VEG C/S(I) 734 / CO	
AL118		6/23/97	1033	18.0	water	✓											Temp °C 6 Seals Intact Y/N/NA	
AL116		6/23/97	1614	8.0	water	✓											Pres Y/N/NA Hd Sp Y/N/NA	
AL100		6/21/97	1745	17.5	water	✓										3	Loc 1, 2 Cont 40VHCL	
AL117		6/23/97	1516	10.0	water	✓										3		
AL107		6/20/97	1410	7.0	water	✓										3		
AL115		6/23/97	1207	6.5	water	✓										3		
AL106		6/22/97	1700	9.0	water	✓										3		
AL114		6/21/97	1136	5.0	water	✓										3		
AL105		6/23/97	1630	9.0	water	✓										3		

Sampled and Relinquished by
Sign Annika Willis
Print Annika Willis
Firm Parsons ES
Date 6/23/97 Time 1940

Received by
Sign Courier
Print
Firm
Date Time

VOA Vial	K																X
Glass Bottle																	
Plastic Bottle																	
Preservative	A FC																A C
Container Volume	40 mL																40 mL

REMARKS: (Sample storage, nonstandard sample bottles)
* All samples except trip blanks get analyzed for:
Methane
Ethene
Ethane

Relinquished by
Sign Courier
Print
Firm
Date Time

Received by
Sign J DeChau
Print
Firm EAL
Date 6/24/97 Time 1100

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic
A - Ice D - Acidified with HNO₃ G - Other
B - Filtered E - Acidified with H₂SO₄

Evidence Samples tampered with? No Yes
If Yes, explain in remarks.

Cooler #: 734





ENGINEERING-SCIENCE, INC.

Prudential Center Boston, MA 02199 Phone: 617-859-2000 Fax: 617-859-2043

CHAIN-OF-CUSTODY RECORD

PAGE 2 OF 2

JOB NO. 730769-01003
PROJECT SEDA - 2nd Quarter Monitoring - Ash Landfill
CONTACT Mike Duchesneau

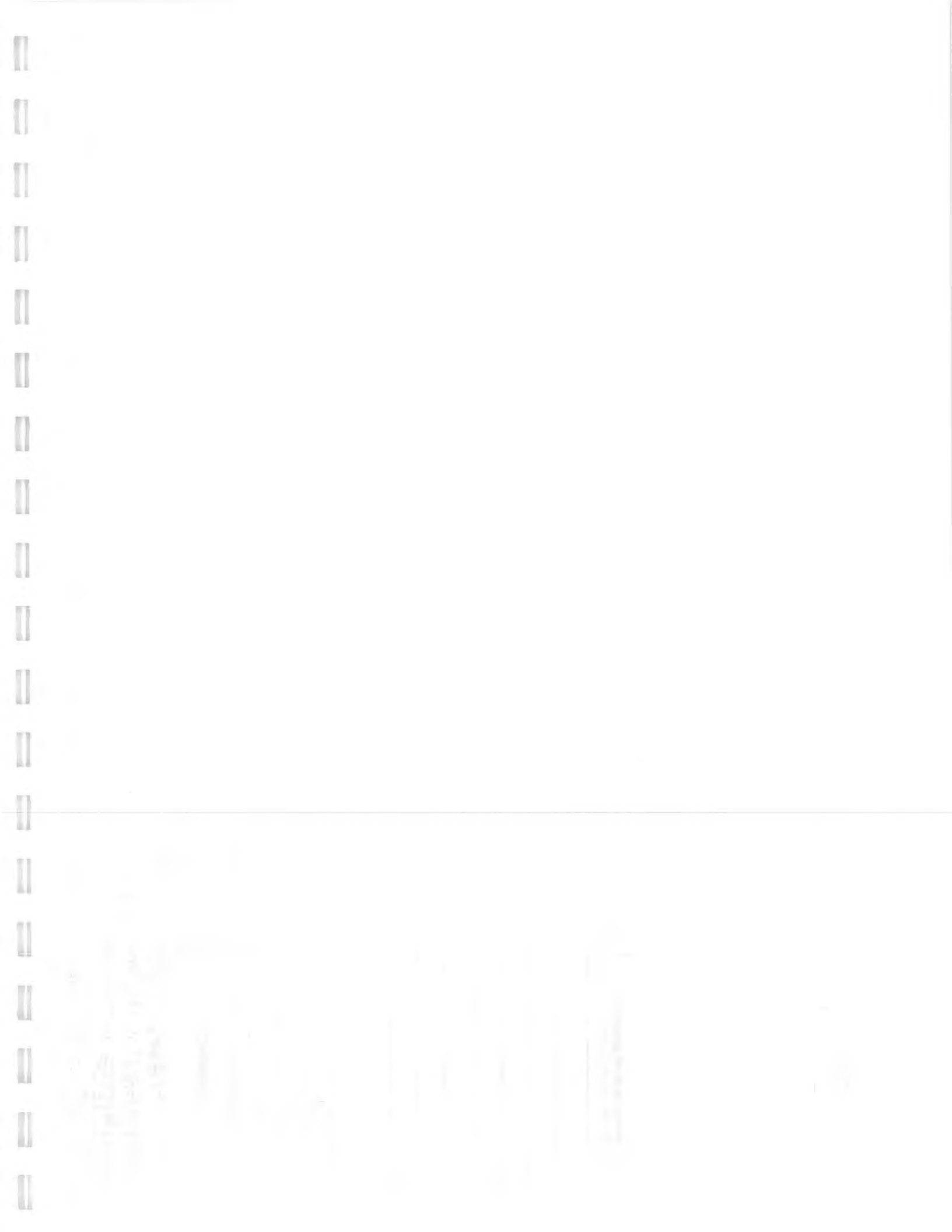
LABORATORY Evergreen Analytical
ADDRESS 4036 Youngfield St., Wheat Ridge, CO
CONTACT Mark Mensik

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH (ft TOC)	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	Methane/Ethane/Ethane					
AL104		6/22/97	1520	9.0	water												3	-13
AL111		6/20/97	1525	11.0	water												3	-14
AL103		6/22/97	1210	11.0	water												3	-15

Sampled and Relinquished by Sign Annika Willis Print Annika Willis Firm Parsons ES Date 6/23/97 Time 1940	Received by Sign Print Courier Firm Date Time	VOA Vial																REMARKS: (Sample storage, nonstandard sample bottles)	
		Glass Bottle																	
		Plastic Bottle																	
		Preservative																	
Relinquished by Sign Print Courier Firm Date Time	Received by Sign J DeChart Print Firm EAL Date 6/24/97 Time 1106	Container Volume																PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic A - Ice D - Acidified with HNO ₃ G - Other B - Filtered E - Acidified with H ₂ SO ₄	

Evidence Samples tampered with? No Yes
 If Yes, explain in remarks.

Cooler #: 734



CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01003
PROJECT SEDA - 2nd quarter monitor - ash
CONTACT Mike Duchesneau

LABORATORY Evergreen Analytical, Inc
ADDRESS 4036 Youngfield St, Wheat Ridge, CO
CONTACT Ethone

WO# 97-2410 BOF# N/A BY JD
C/S(O) N/A / N/A C/S(I) 777 / Co
Temp °C 9 Seals Intact Y/N/NA
Pres Y/N/NA Hd Sp Y/O/NA
Loc 2 Cont 40VCL

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH (ft; TOC)	SAMPLE MATRIX	ANALYSES											
		DATE	TIME			VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	Methane	Ethane			
AL123		6/24/97	1115	10.0	water											✓	3
AL119		6/24/97	1810	8.5	water											✓	3
AL124		6/24/97	1305	9.0	water											✓	3
AL121		6/24/97	1500	N/A	water											✓	3
AL122		6/24/97	1945	10.0	water											✓	3
AL125		6/24/97	1622	10.0	water											✓	3
AL120		6/24/97	1810	8.5	water											✓	3

-01 A
-02
-03
Rinsate -04
-05
-06
-07 ↓

Sampled and Relinquished by
Sign Annika Willis
Print Annika Willis
Firm PARSONSES
Date 6/25/97 Time 1400

Received by
Sign Courier
Print
Firm
Date _____ Time _____

Relinquished by
Sign Courier
Print
Firm
Date _____ Time _____

Received by
Sign J Dechant
Print J Dechant
Firm EAL
Date 6/26/97 Time 1000

VOA Vial																	X	
Glass Bottle																		
Plastic Bottle																		
Preservative																	A	C
Container Volume																	40	ML

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic
A - Ice D - Acidified with HNO₃ G - Other
B - Filtered E - Acidified with H₂SO₄

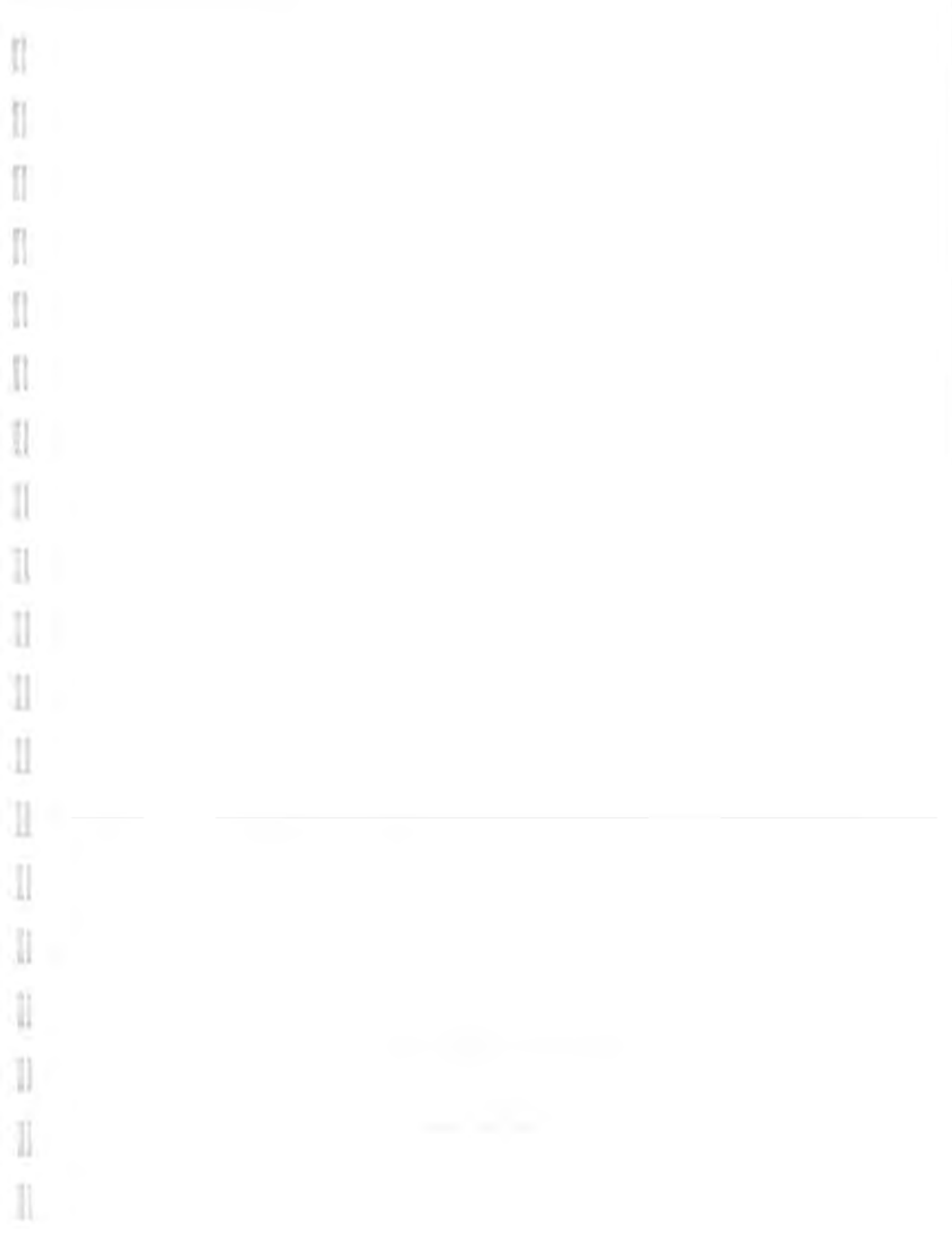
REMARKS: (Sample storage, nonstandard sample bottles)
All analyses are for Methane, Ethane and Ethane
Cooler #: 777

Evidence Samples tampered with? No Yes
If Yes, explain in remarks.



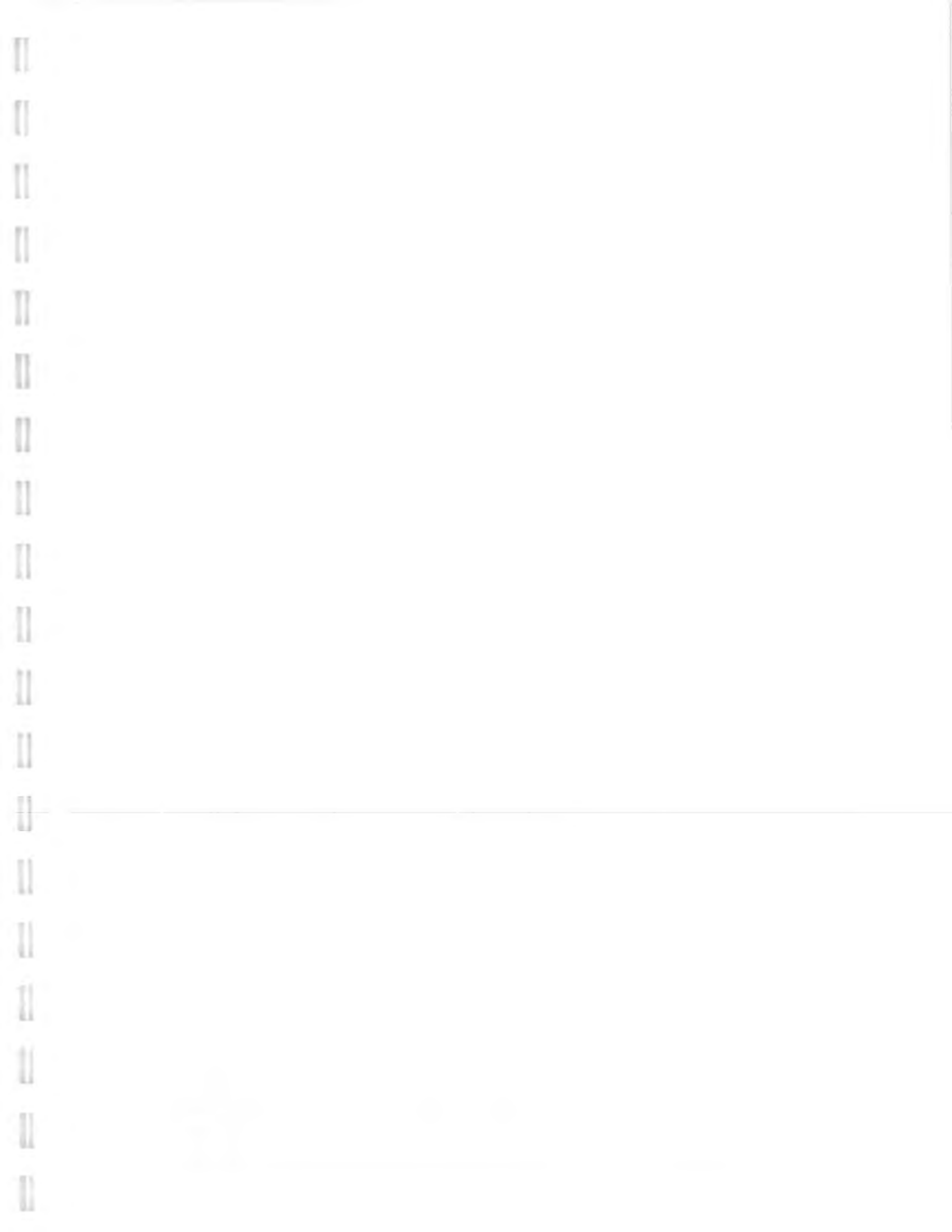
APPENDIX B

1. Historical Data Summary Tables



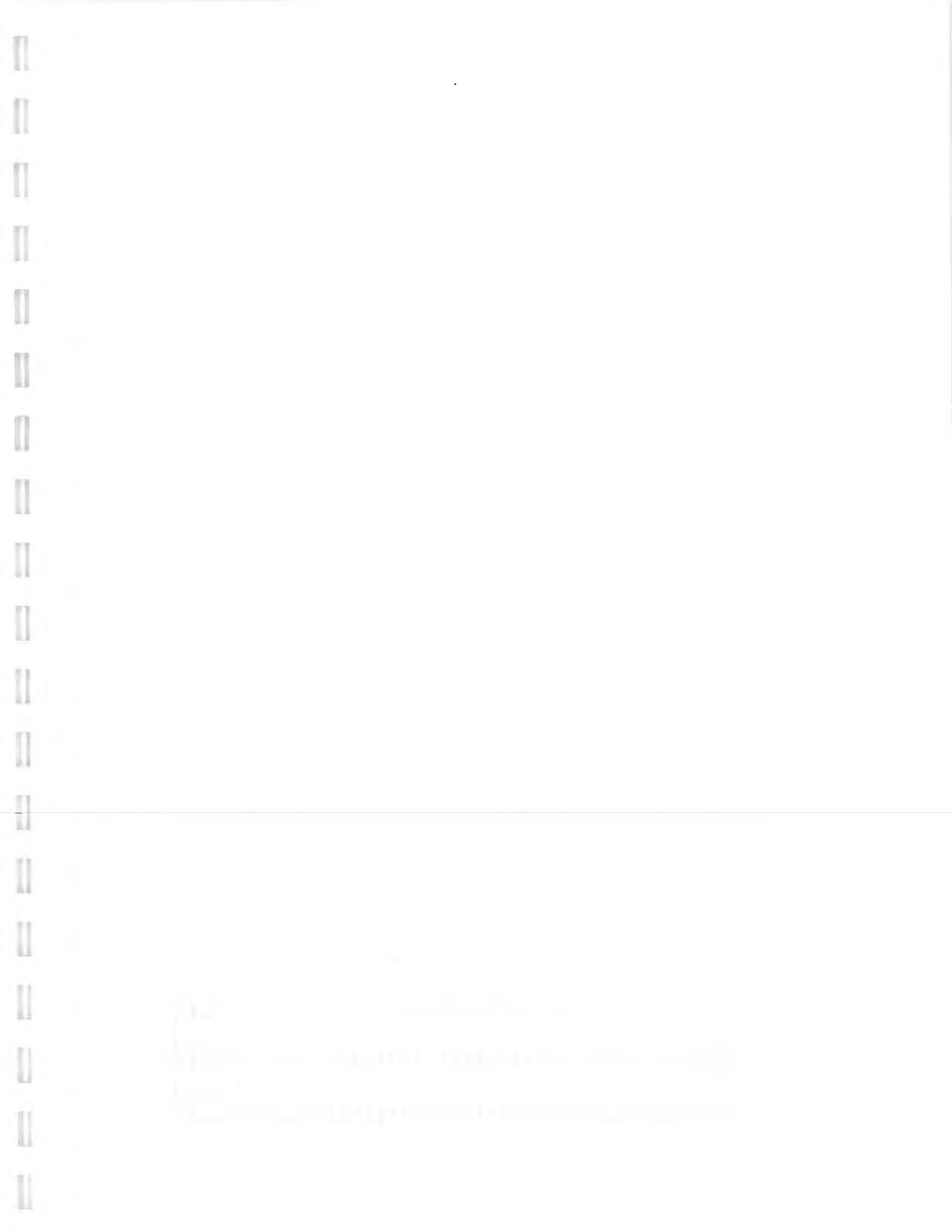
PT-11
Ash Landfill

Parameters	Source: Units	Galsion	Galsion	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	PES	PES	PES
		Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		624	624	624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
VOLATILE ORGANICS																		
Chloromethane	µg/L	ND	-	ND	ND	ND	270	ND	17	ND	3.19	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND
1,1-Dichloroethene	µg/L	ND	-	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	-	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	-	ND	ND	ND	ND	ND	1	ND	2.66	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	-	ND	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Xylene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Total Volatile Organics	µg/L	0	0	1.5	0	0	270	2	24	0	5.85	0	0	0	0	0	2	0



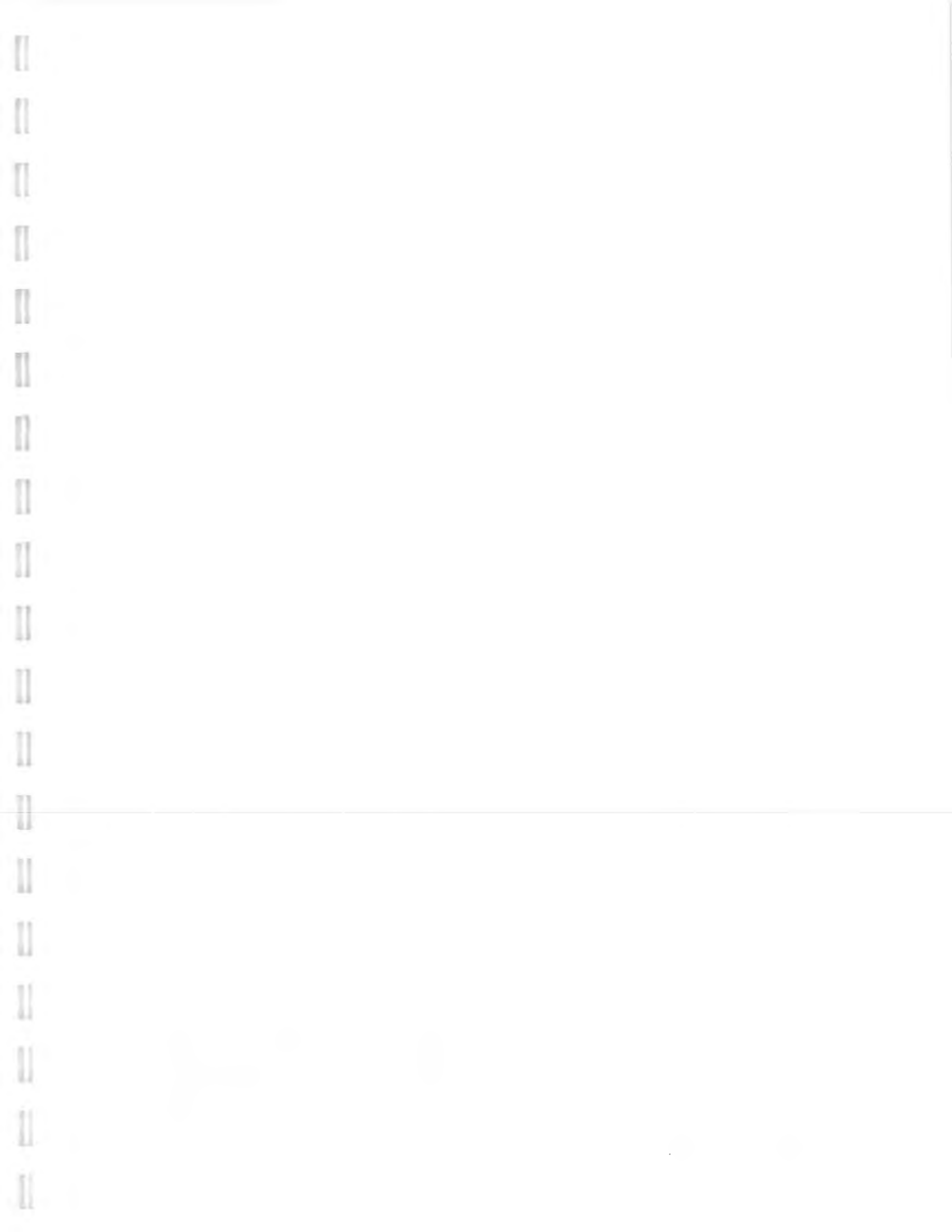
PT-11
Ash Landfill

Parameters	Source:	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
	Units	Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	
VOLATILE ORGANICS		NYSCLP	NYSCLP	NYSCLP				524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	
Chloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	7	5	ND
Carbon Disulfide	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	7	5	0	0



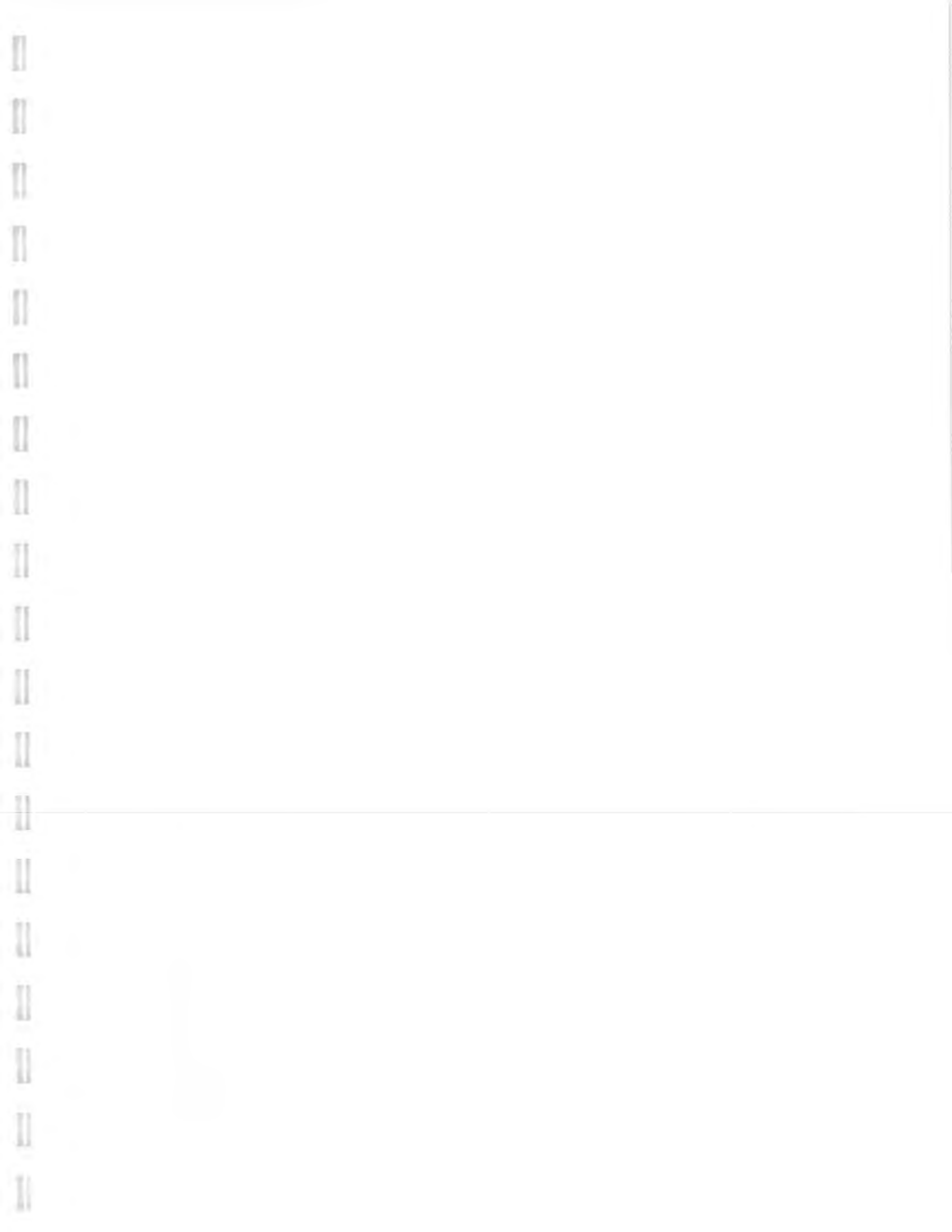
PT-11
Ash Landfill

Parameters	Source: Units	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	PES	PES	PES
		Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
				1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
METALS																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.7	-	4090.00
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	ND	ND	-	ND	-	0.04	-	ND	-	ND	-	ND	-	-	0.0024	-	1.20
Barium	mg/L	0.08	0.095	-	2.1	-	3	-	0.083	-	0.23	-	0.271	-	-	0.333	-	155.00
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0013	-	0.43
Cadmium	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	334	-	135000.00
Chromium	mg/L	ND	ND	-	0.016	-	0.25	-	ND	-	ND	-	ND	-	-	0.0161	-	5.00
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0372	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0403	-	6.20
Iron	mg/L	ND	ND	-	140	-	270	-	1.68	-	12.8	-	15.8	-	-	17.8	-	4860.000
Lead	mg/L	ND	ND	-	0.05	-	0.06	-	ND	-	ND	-	ND	-	-	0.0177	-	3.00
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69.2	-	37500.00
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.18	-	181.000
Mercury	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.00015	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0355	-	ND
Potassium	mg/L	2.63	2.1	-	20	-	26	-	2.48	-	4.47	-	4.7	-	-	5.27	-	3590.00
Selenium	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Silver	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Sodium	mg/L	59	46	-	54	-	30	-	38	-	39.8	-	37.1	-	-	46.6	-	35000.00
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0156	-	8.20
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.136	-	32.30
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
MISCELLANEOUS																		
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	33	0.01	-	10.3	-	-	0.028	0.011	-	0.032	-	ND	-	-	ND	ND	0.05
Chloride	mg/L	49	46	-	40	-	48.2	-	41.4	-	42	-	35.4	-	-	40	43	48.0
Conductivity (field)	µmhos/cm	1200	770	490	740	1200	720	840	710	1112	1000	1110	1000	1010	-	700	-	800
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	870	-	-	-	918	-	-	1090	1100	900.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.1	0.12	-	0.34	-	0.27	-	0.22	-	0.5	-	ND	-	-	0.4	ND	0.19
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-
pH (Lab)	std. units	7.2	7.8	-	7.4	-	7.4	-	7.2	-	7.6	-	7.3	-	-	7.4	7.31	7.29
pH (field)	std. units	8.1	-	6.5	7.22	7.22	7.4	6.4	8.63	6.34	6.3	7.4	6.96	7.18	-	7.38	-	7.17
Sulfate	mg/L	160	190	-	170	-	68	-	204	-	143.4	-	169	-	-	281	170	100.0
Total Organic Carbon (TOC)	mg/L	2.7	4.4	-	52	-	17	-	16.1	-	9.4	-	7	-	-	3.2	3	ND
Temperature (field)	Celsius	-	-	9	8	14	14	8	7	11	13	7	8	10	-	6.8	-	12.6
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>200	-	-

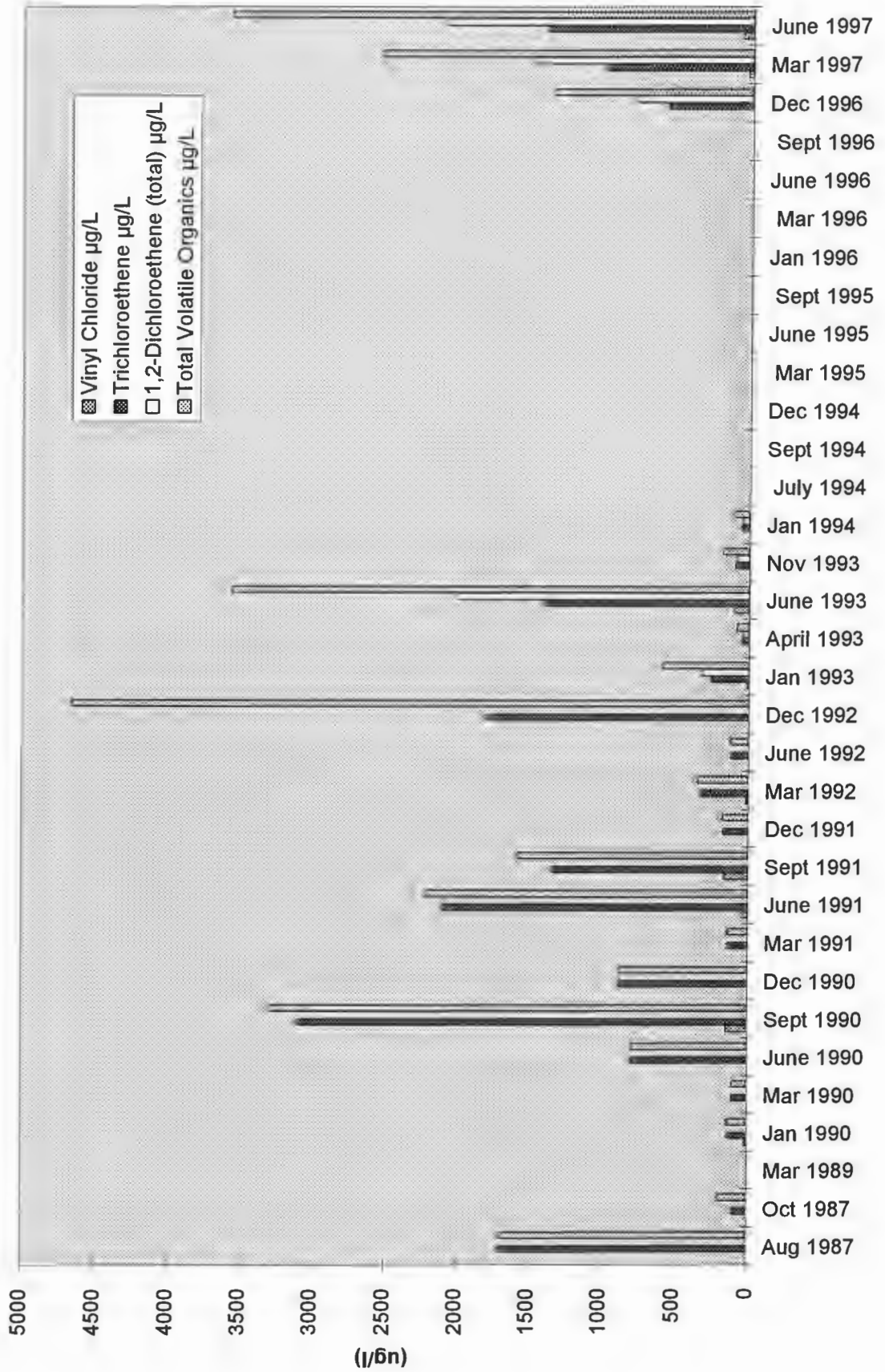


PT-11
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	
METALS																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISCELLANEOUS																	
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0025	0.0012	0.0017
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0.28
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	2.8	4.2
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	315	318	315
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	380	380	380
Total Organic Halogens/Halides (TOX)	mg/L	0.05	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	47	33	-	-	-	-	-	-	-	-	-	-	-	23.3	22.5	27.2
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	840	910	-	-	-	-	-	-	-	-	-	-	-	1000	898	963
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.39	0.27	-	-	-	-	-	-	-	-	-	-	-	0.09	0.05	0.4
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.34	7.36	-	-	-	-	-	-	-	-	-	-	-	7.06	7.06	6.84
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	47	170	-	-	-	-	-	-	-	-	-	-	-	153	-	-
Total Organic Carbon (TOC)	mg/L	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



PT-12

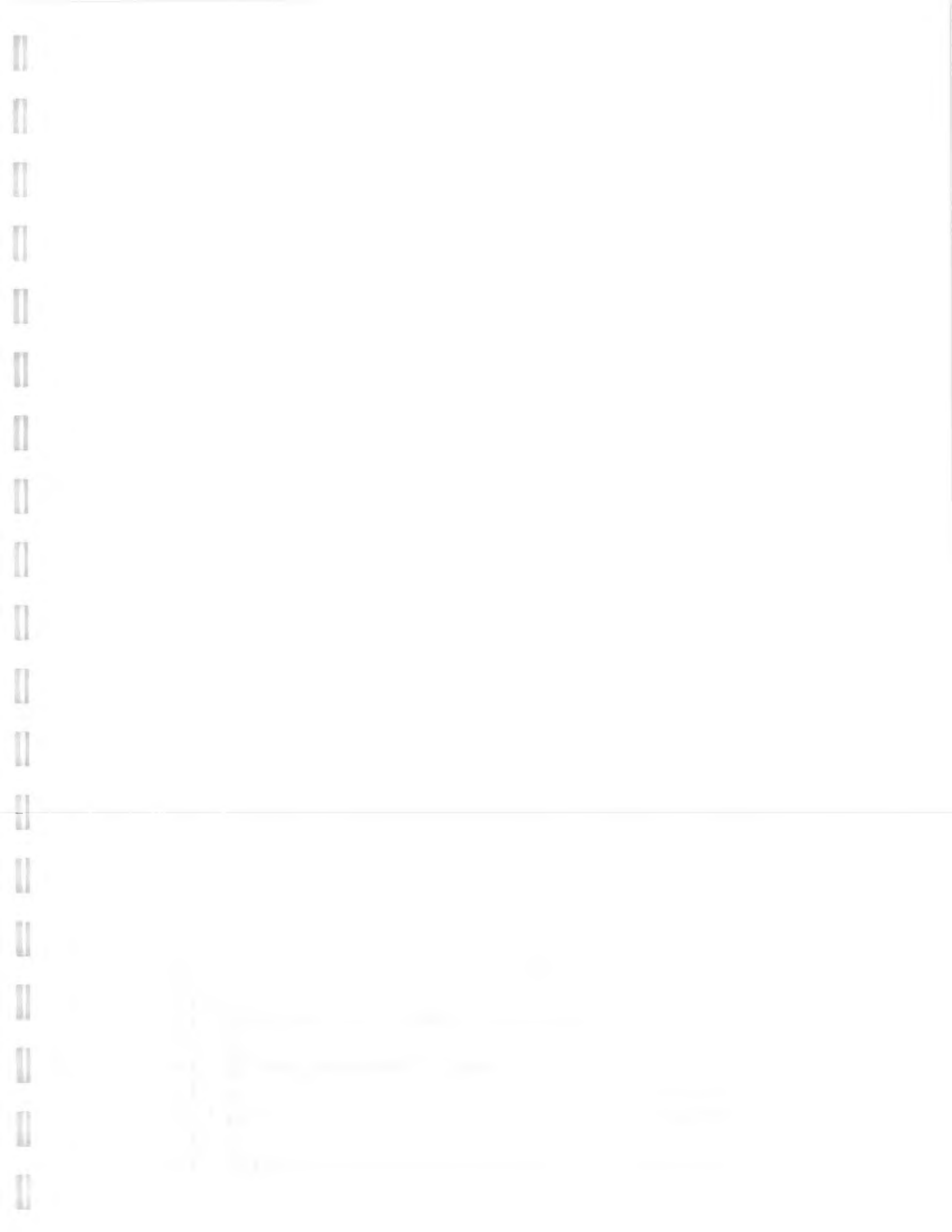


Note: Well was not sampled Mar 1989 and July 1994-Sept 1996.



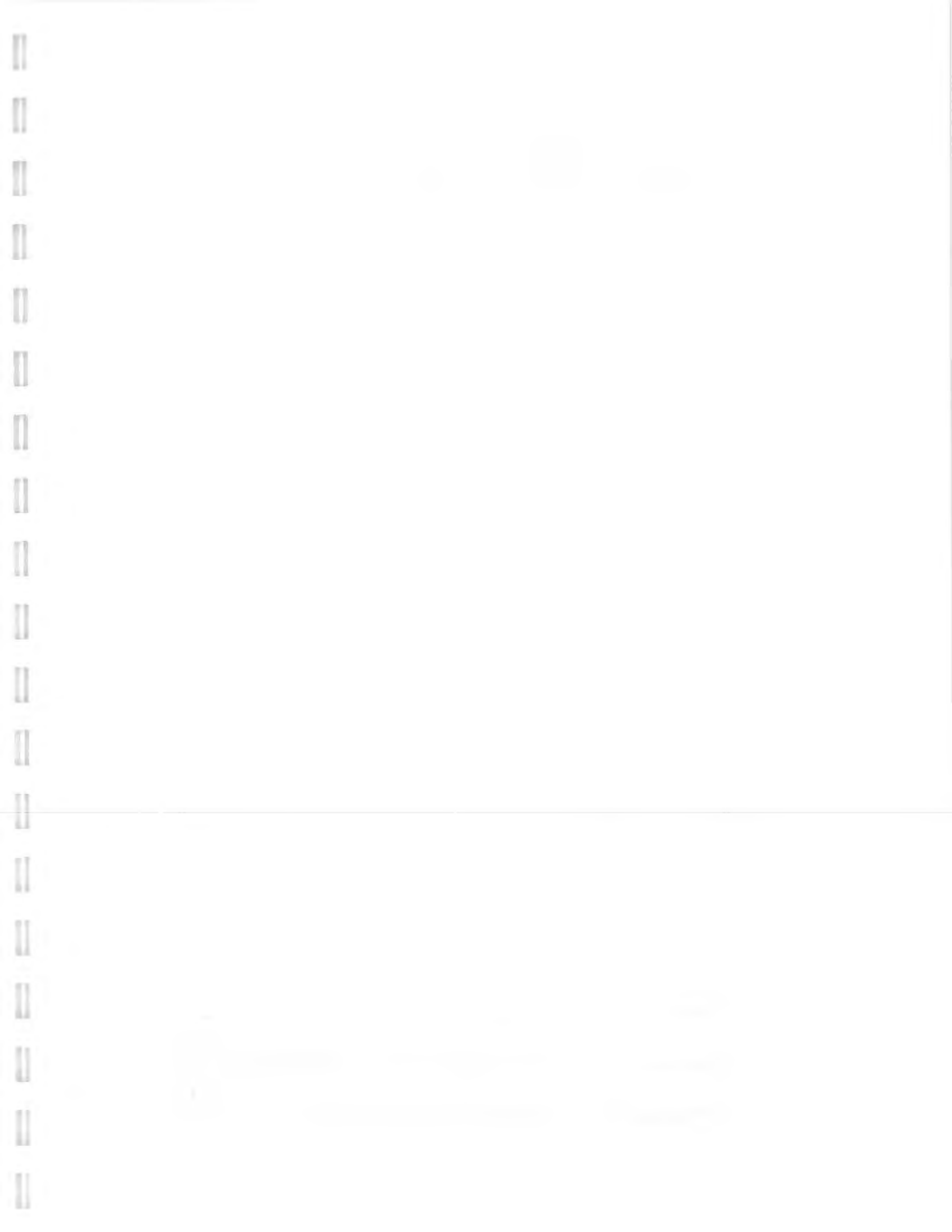
PT-12
Ash Landfill

Parameters	Source: Units	Galson	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Aug 1987	Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
					1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
VOLATILE ORGANICS					624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	-	ND	ND	ND	51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	7	ND	ND	140	ND	ND	35	160	1.5	14	ND	ND	9	ND	100
Chloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	63
1,1-Dichloroethene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	7.15	ND	ND	ND	ND	6	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	1700	94	-	129	100	790	3100	870	130	2100	1350	170	323	119	1800	260	45	1400
Dibromochloromethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	320	36	2000
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2800	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	95	-	ND	ND	ND	ND	ND	1	51	63	2.7	5.8	ND	54	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	1700	189	0	136	100	790	3291	870	133	2216	1580.15	174.2	342.8	119	4660	589	81	3563



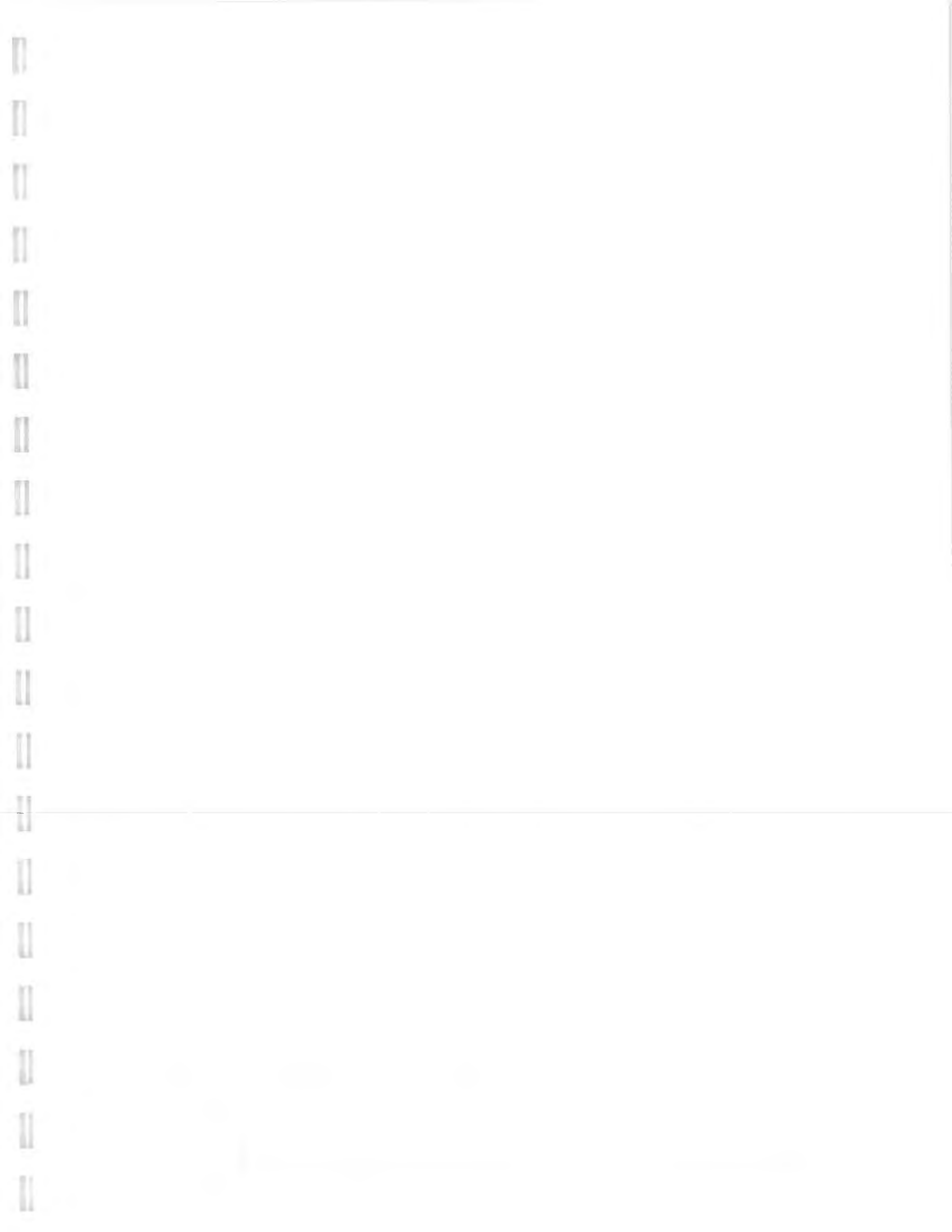
PT-12
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2
VOLATILE ORGANICS		NYSCLP	NYSCLP													
Chloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromomethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	32	70
Chloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroform	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Trichloroethene	µg/L	95	58	-	-	-	-	-	-	-	-	-	-	570	1000	1400
Dibromochloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Benzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromoform	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Toluene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	81	44	-	-	-	-	-	-	-	-	-	-	790	1500	2100
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylene (total)	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	176	102	0	0	0	0	0	0	0	0	0	0	1360	2532	3570



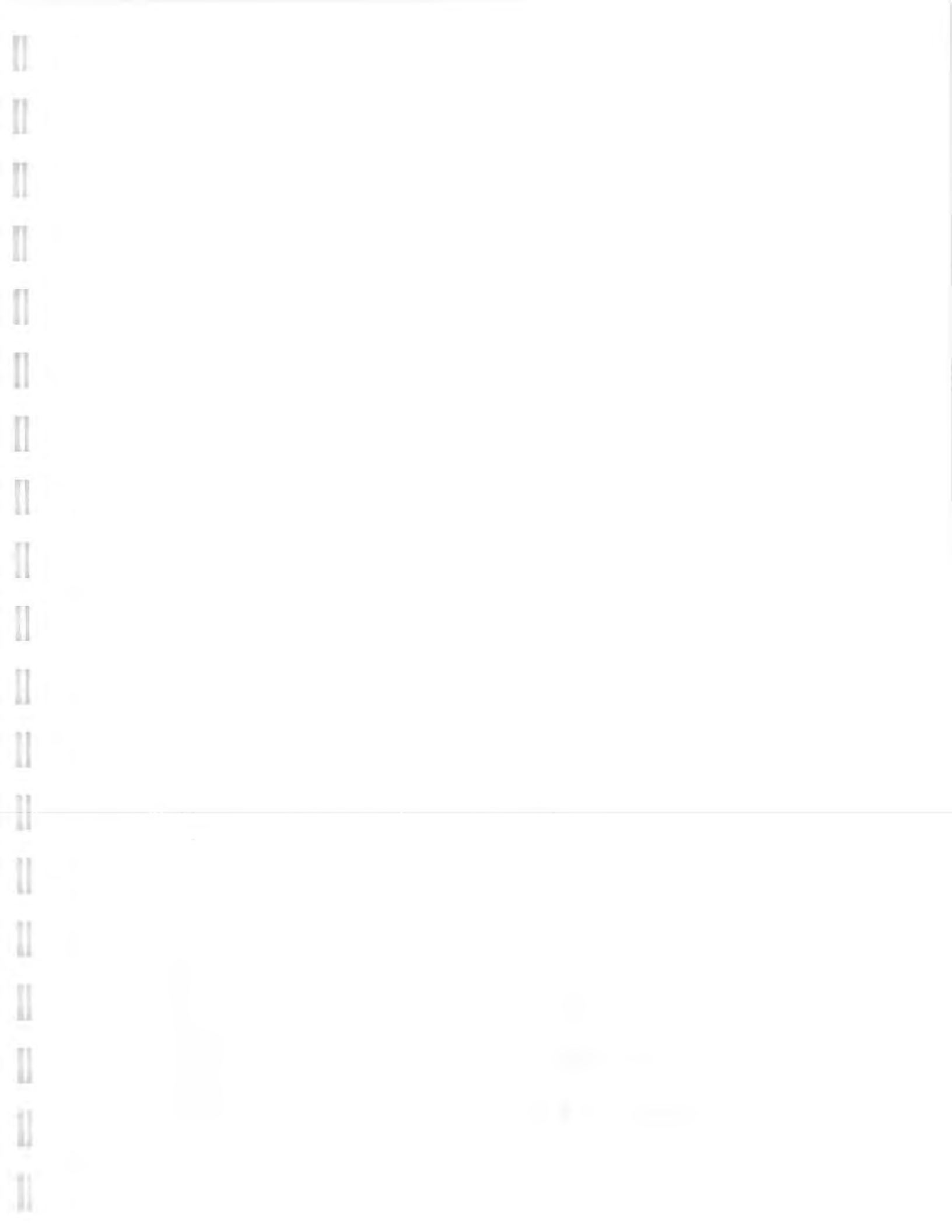
PT-12
Ash Landfill

Parameters	Source: Units	Galson	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Aug 1987	Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
					1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
METALS																			
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.15	-	5550
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	1.8
Barium	mg/L	-	0.05	0.031	-	ND	-	ND	-	0.04	-	0.073	-	0.142	-	-	0.1	-	68.2
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00064	-	0.4
Cadmium	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	264	-	267000
Chromium	mg/L	-	ND	ND	-	0.01	-	ND	-	ND	-	ND	-	ND	-	-	0.0067	-	7.8
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0088	-	4.6
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0127	-	5.8
Iron	mg/L	-	ND	ND	-	4.5	-	7.8	-	2.03	-	3.76	-	20.3	-	-	8.57	-	6550
Lead	mg/L	-	ND	0.12	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.0094	-	4.1
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-	35700
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.08	-	288
Mercury	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0148	-	ND
Potassium	mg/L	-	2.58	1.8	-	ND	-	5.9	-	2.39	-	3.26	-	4.83	-	-	2.18	-	4160
Selenium	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Silver	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	100	45	-	37	-	160	-	15.8	-	129	-	47.4	-	-	24.2	-	137000
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0065	-	8.3
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.133	-	38.1
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
MISCELLANEOUS																			
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	2.08	180	0.085	-	0.15	-	-	0.87	0.6	-	1.722	-	0.27	-	-	0.31	0.05	2.1
Chloride	mg/L	-	158	40	-	36	-	202	-	13.8	-	264	-	19.1	-	-	13.9	5	170
Conductivity (field)	µmhos/cm	-	1300	1400	520	460	2700	2500	860	630	2220	2210	1080	1635	970	-	925	-	1580
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	2250	-	1025	-	-	938	770	1700
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.008	ND	-
Nitrate/Nitrite Nitrogen	mg/L	-	0.33	1.4	-	0.44	-	0.21	-	0.32	-	0.24	-	0.52	-	-	0.01	ND	ND
Nitrate as N - Calculated	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
pH (Lab)	std. units	-	7	7.8	-	7.1	-	7	-	7	-	7	-	7.2	-	-	7.16	6.89	6.98
pH (field)	std. units	-	7	-	6.75	6.75	6.84	7.05	6.25	7.44	6.32	6.3	7.01	6.66	7.06	-	6.87	-	7.16
Sulfate	mg/L	-	289	300	-	250	-	388	-	159.5	-	337.5	-	263	-	-	210	110	340
Total Organic Carbon (TOC)	mg/L	-	2.9	2.4	-	33	-	7	-	9.8	-	8.1	-	2	-	-	3	2	4
Temperature (field)	Celcius	-	-	-	8	5	15	14	8	7	12	15	10	6	12	-	7	-	13.3
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	-	-

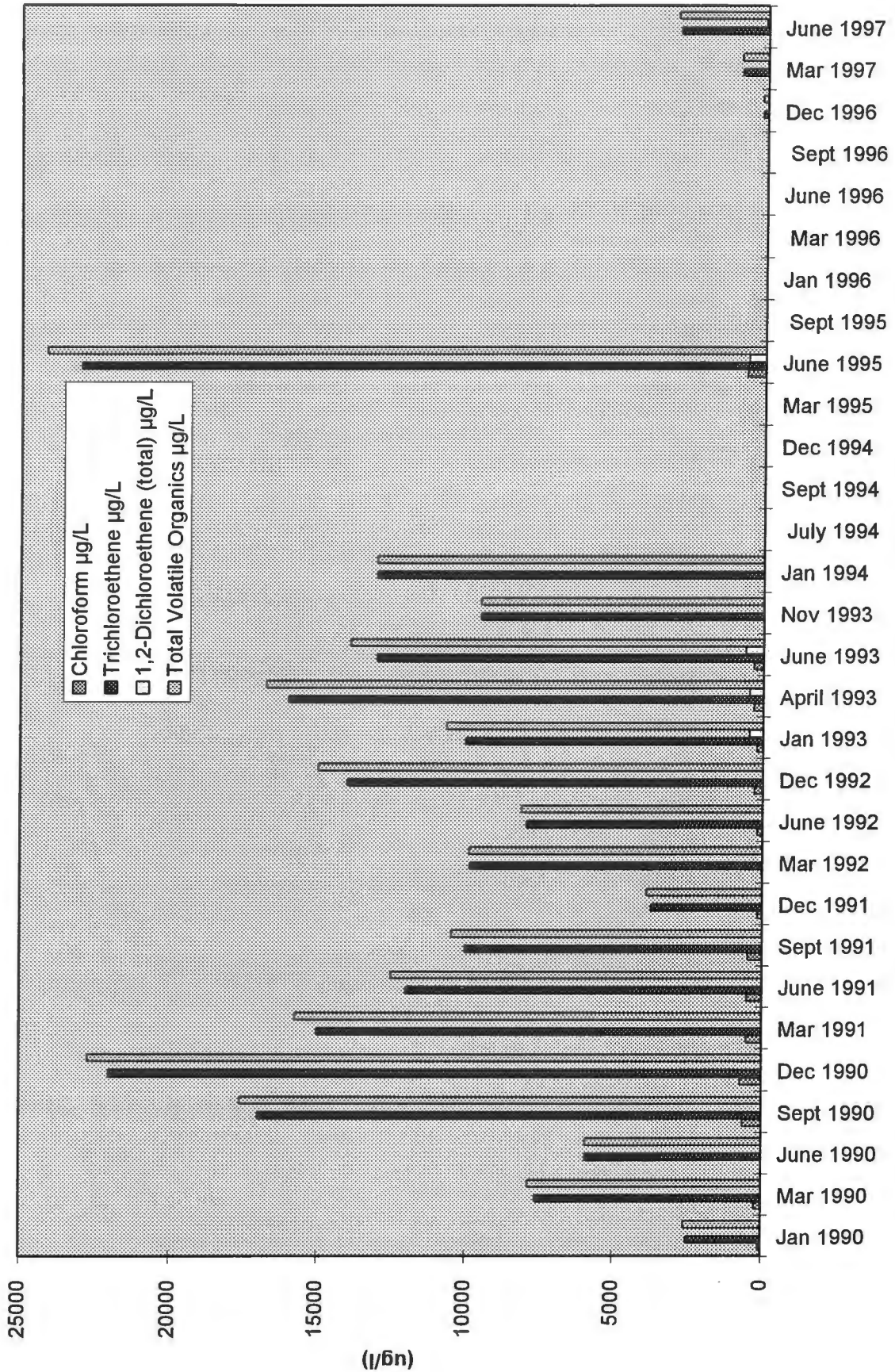


PT-12
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997
		4	1	2	3		1	2	3	4	1	2	3	4	1	2
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	<0.0005	<0.0005	<0.0013
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	<0.0005	<0.0005	<0.0021
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0072	0.0051	0.027
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.14	0.07	0.52
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	2.4	2.2	2.9
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	401	409	323
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	396	370	344
Total Organic Halogens/Halides (TOX)	mg/L	0.06	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	ND	7	-	-	-	-	-	-	-	-	-	-	116	134	169
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	1630	1670	1650
Conductivity (lab)	µmhos/cm	960	860	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	1.1	1.1	-	-	-	-	-	-	-	-	-	-	0.12	0.1	0.05
Nitrate as N - Calculated	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.06	7.08	-	-	-	-	-	-	-	-	-	-	6.51	6.68	6.63
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	170	140	-	-	-	-	-	-	-	-	-	-	427	430	456
Total Organic Carbon (TOC)	mg/L	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



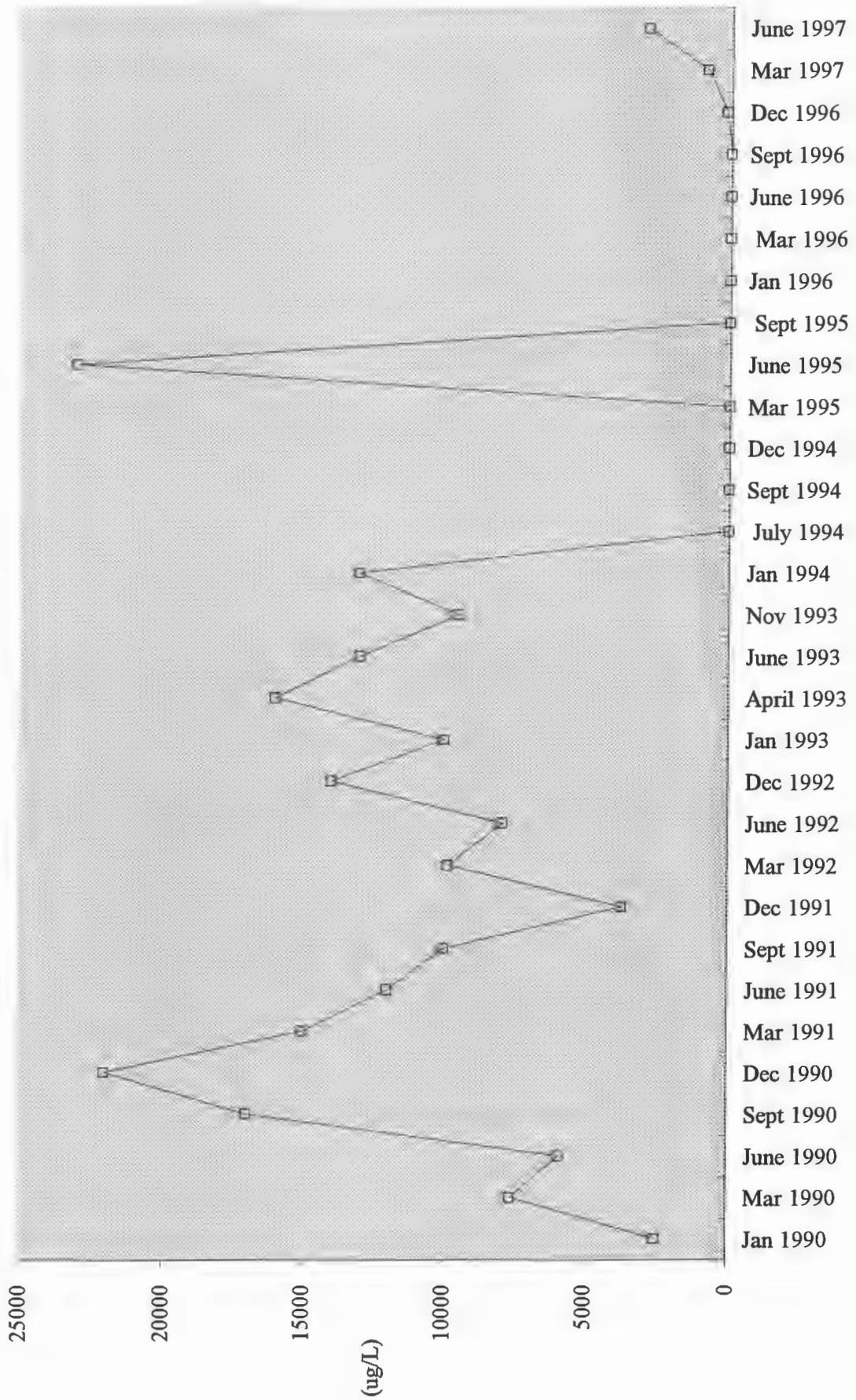
PT-18



Note: Well was not sampled July 1994-Mar 1995 and Sept 1995-Sept 1996



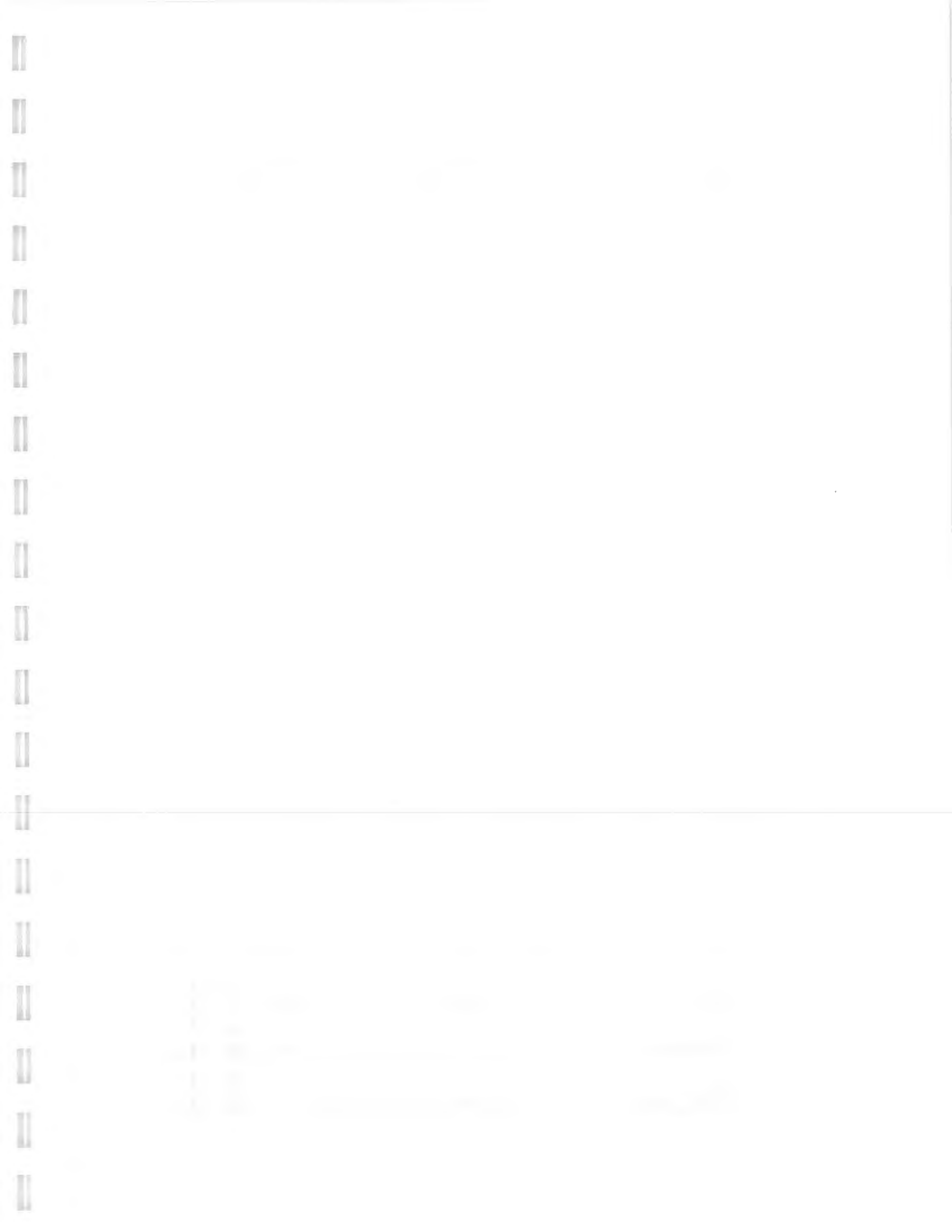
Trichloroethylene in Well PT-18





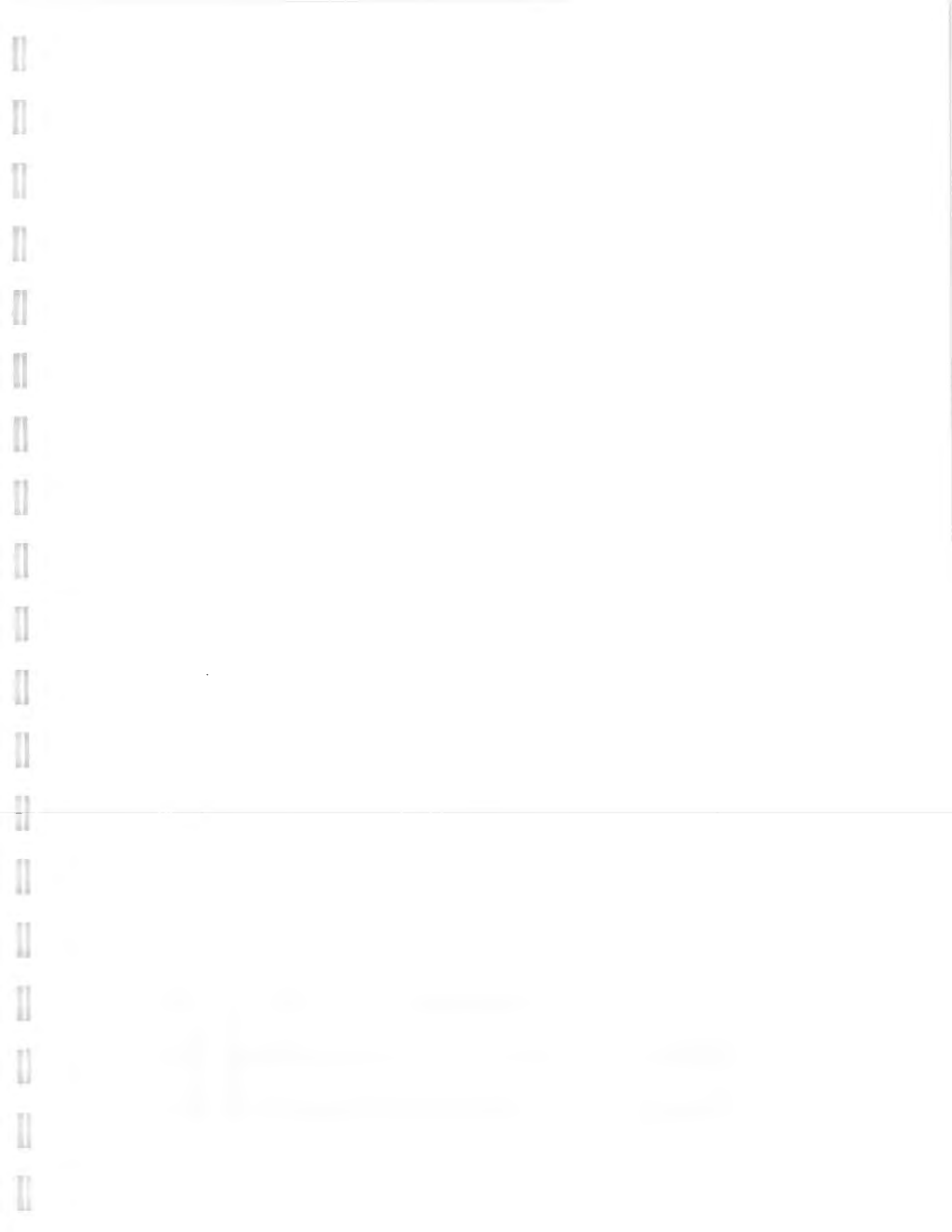
PT-18
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
VOLATILE ORGANICS		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	86	230	ND	610	700	490	490	457	157	11.7	175	270	200	300	300
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	2500	7600	5900	17000	22000	15000	12000	10000	3710	9840	7920	14000	10000	16000	13000
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	2.58	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	250	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	440	450	590
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	700	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	2586.00	7830.00	5900.00	17610.00	22700.00	15740.00	12490.00	10459.58	3871.70	9851.70	8095.00	14980.00	10640.00	16750	13890



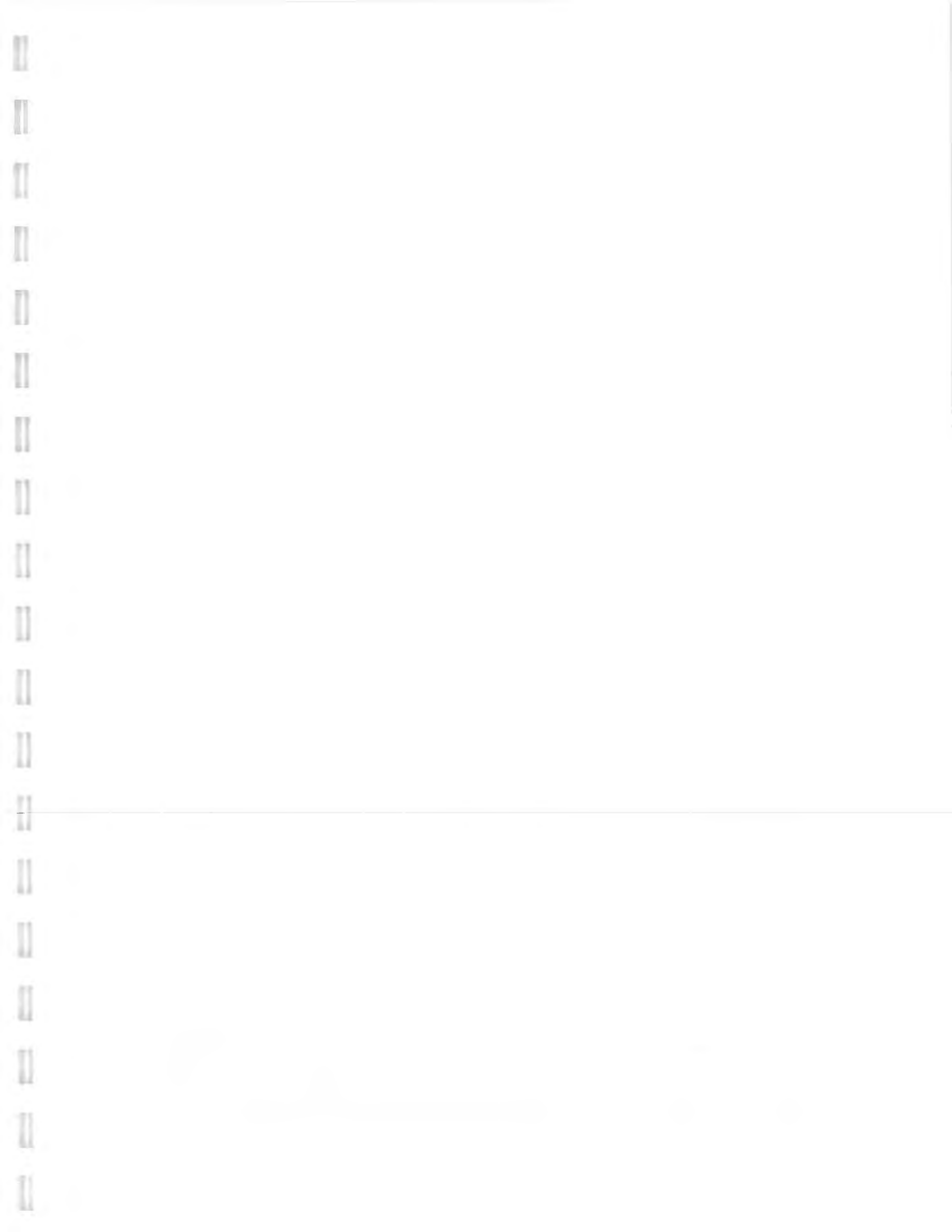
PT-18
Ash Landfill

Parameters	Source:	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
	Units	Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	
VOLATILE ORGANICS		NYSCLP		NYSCLP		NYSCLP		NYSCLP		NYSCLP		NYSCLP		NYSCLP		NYSCLP	
Chloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Bromomethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Vinyl Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Chloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Methylene Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
1,1-Dichloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Chloroform	µg/L	ND	ND	-	-	-	-	600	-	-	-	-	-	ND	ND	ND	
1,2-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
1,1,1-Trichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Carbon Tetrachloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Bromodichloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
1,2-Dichloropropane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
cis-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Trichloroethene	µg/L	9500	13000	-	-	-	-	23000	-	-	-	-	-	160.00	840	2900	
Dibromochloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
1,1,2-Trichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Benzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
trans-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Bromoform	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Tetrachloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Toluene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Chlorobenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Ethylbenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichloroethene (total)	µg/L	ND	ND	-	-	-	-	550	-	-	-	-	-	ND	22	69	
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acetone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Carbon Disulfide	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
4-Methyl-2-Pentanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
2-Hexanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Styrene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Xylenes (total)	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	
Total Volatile Organics	µg/L	9500	13000	0	0	0	0	24150	0	0	0	0	0	160.00	862	2969	



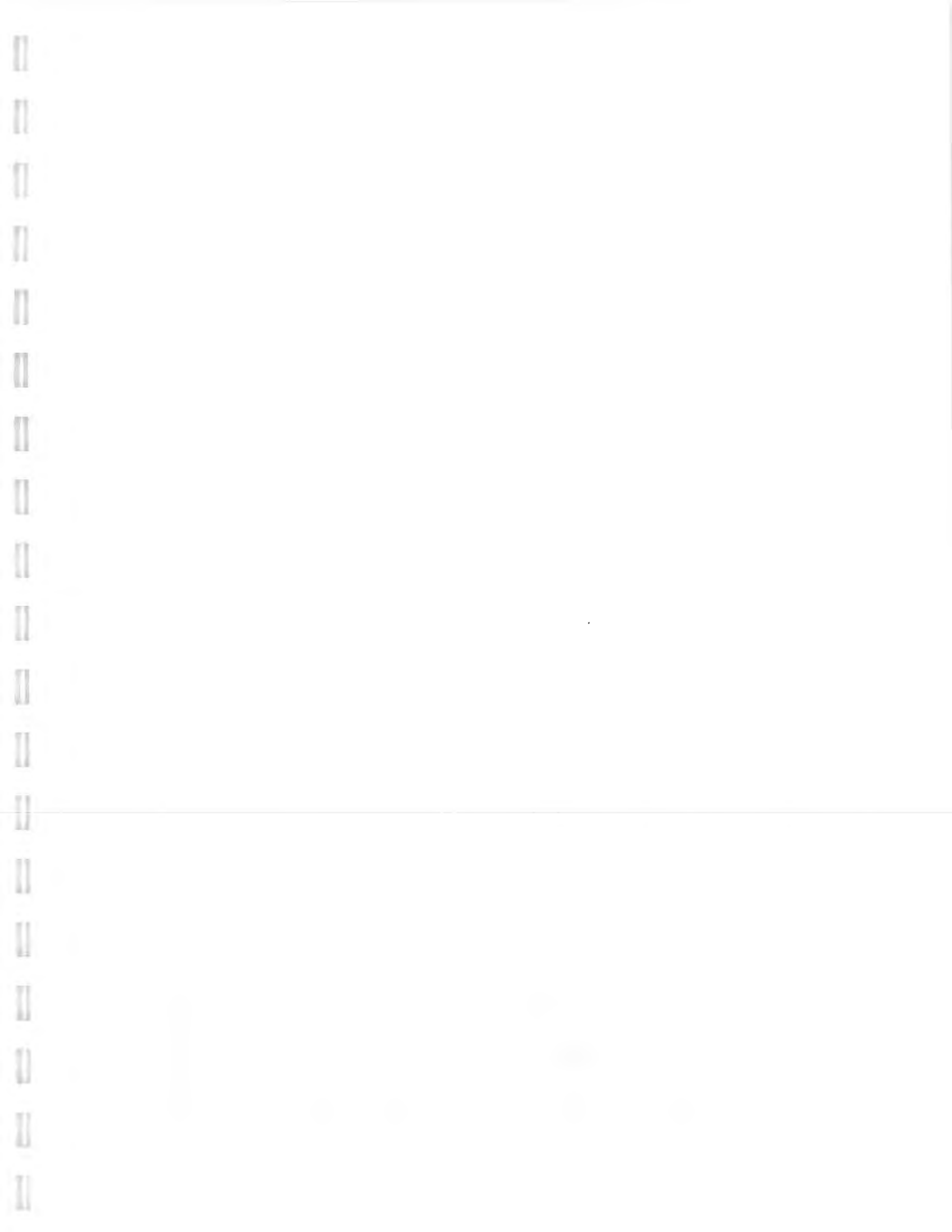
PT-18
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	11.3	-	588
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	1.3
Barium	mg/L	-	ND	-	ND	-	0.054	-	0.043	-	0.07	-	-	0.123	-	42.2
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00079	-	0.49
Cadmium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	223	-	216000
Chromium	mg/L	-	0.003	-	ND	-	ND	-	ND	-	ND	-	-	0.0127	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0246	-	3.7
Iron	mg/L	-	2	-	8.5	-	3.89	-	1.38	-	8.14	-	-	14	-	825
Lead	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.0166	-	2.2
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	30.3	-	26500
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.02	-	812
Mercury	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.00036	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0185	-	ND
Potassium	mg/L	-	ND	-	5.1	-	2.77	-	2.31	-	2.79	-	-	3.54	-	2200
Selenium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Silver	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	86	-	99	-	102	-	107	-	95.5	-	-	100	-	101000
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.013	-	ND
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.511	-	47.9
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
MISCELLANEOUS COMPOUNDS																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	0.333	-	-	1.88	1.7	-	4.422	-	4.52	-	-	4.5	12	6.2
Chloride	mg/L	-	72	-	75.2	-	76.8	-	66.8	-	52.6	-	-	57	59	65
Conductivity (field)	µmhos/cm	670	680	1800	1600	1400	1300	1650	1710	2100	1788	1370	-	975	900	1100
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	1548	-	-	1440	1300	1400
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate as N	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.01	ND	ND
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-
pH (Lab)	std. units	-	6.9	-	6.9	-	6.9	-	7.5	-	7	-	-	7.08	7.11	6.89
pH (field)	std. units	6.7	6.8	6.89	7	6.5	7.32	6.54	6.69	6.86	6.38	6.88	-	6.89	6.89	7.05
Sulfate	mg/L	-	340	-	245	-	287.5	-	230	-	351	-	-	280	200	220
Total Organic Carbon (TOC)	mg/L	-	32	-	12	-	14.6	-	11.4	-	4	-	-	4	5	5
Temperature (field)	Celcius	8	5	15	14	10	8	13	15	9	6	11	-	7.25	5	12.7
Nephelometric Turbidity Units	NTUs	8	5	15	14	10	8	13	15	9	-	-	-	>200	46.9	-

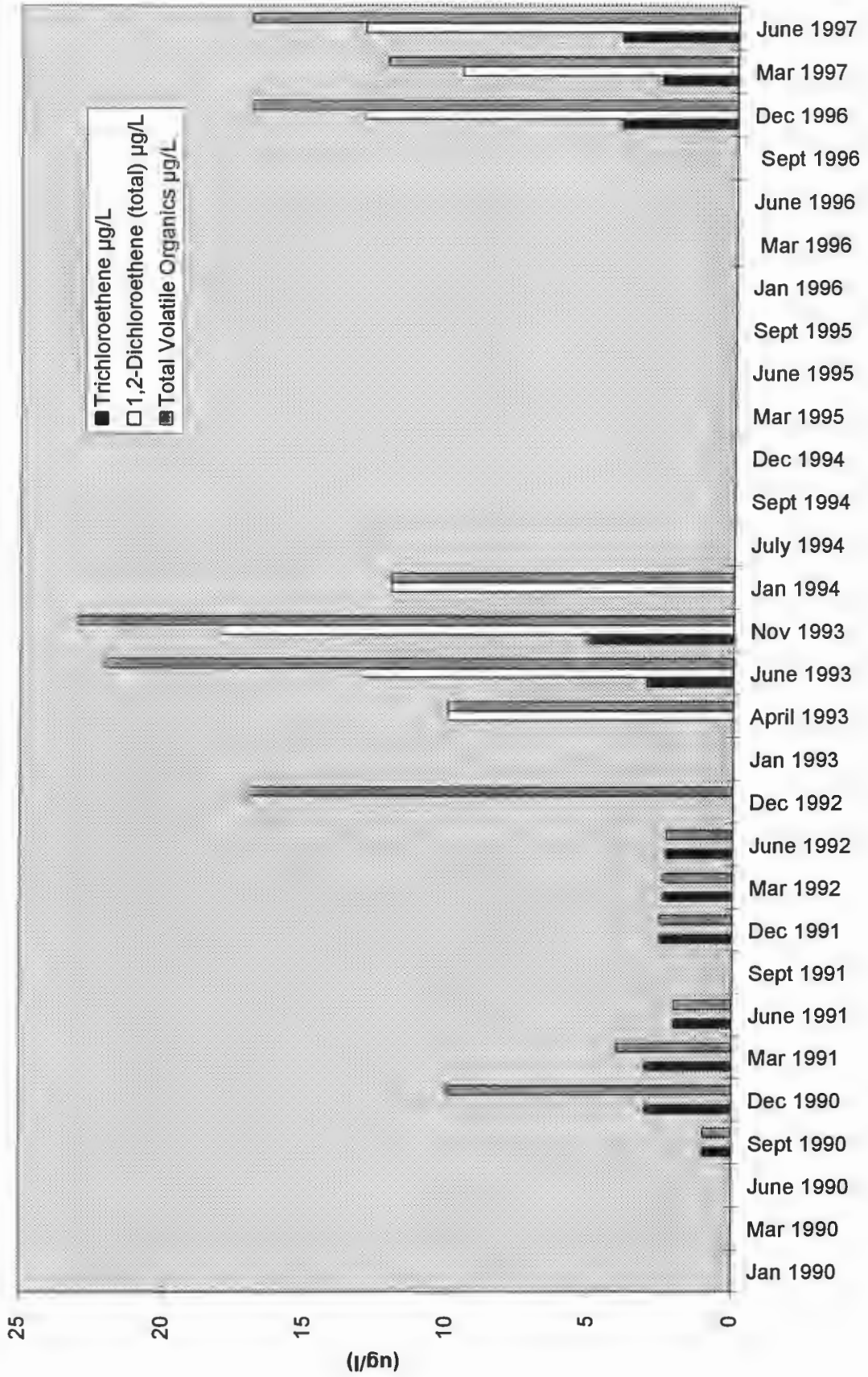


PT-18
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	347.00	112	473	
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	6.20	4.2	3.6	
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS COMPOUNDS																
Ethene	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.424	-	-	-	-	-	0.31	0.02	0.17
CO2	mg/L	-	-	-	-	-	-	629	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.01	-	-	-	-	-	0.00	0.01	0.15
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	6.1	-	-	-	-	-	5.40	4.5	5.5
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	315.00	353	283
Alkalinity (total)	mg CaCO3/	1.5	6	-	-	-	-	548	-	-	-	-	-	532.00	504	516
Total Organic Halogens/Halides (TOX)	mg/L	36	64	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	57.7	-	-	-	-	-	25.90	22.6	23.2
Conductivity (field)	µmhos/cm	1400	1300	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	1450	-	-	-	-	-	1175.00	1081	1173
Nitrite Nitrogen	mg/L	0.1	nd	-	-	-	-	ND	-	-	-	-	-	-	-	-
Nitrate as N	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
Nitrate as N - Calculation	mg/L	6.91	6.93	-	-	-	-	-	-	-	-	-	-	0.01	0.07	0.05
pH (Lab)	std. units	-	-	-	-	-	-	6.87	-	-	-	-	-	-	-	-
pH (field)	std. units	240	250	-	-	-	-	-	-	-	-	-	-	6.41	6.42	6.48
Sulfate	mg/L	6	4	-	-	-	-	231	-	-	-	-	-	191.00	154	196
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



PT-21



Note: Well was not sampled Jan 1993 and July 1994-Sept 1996



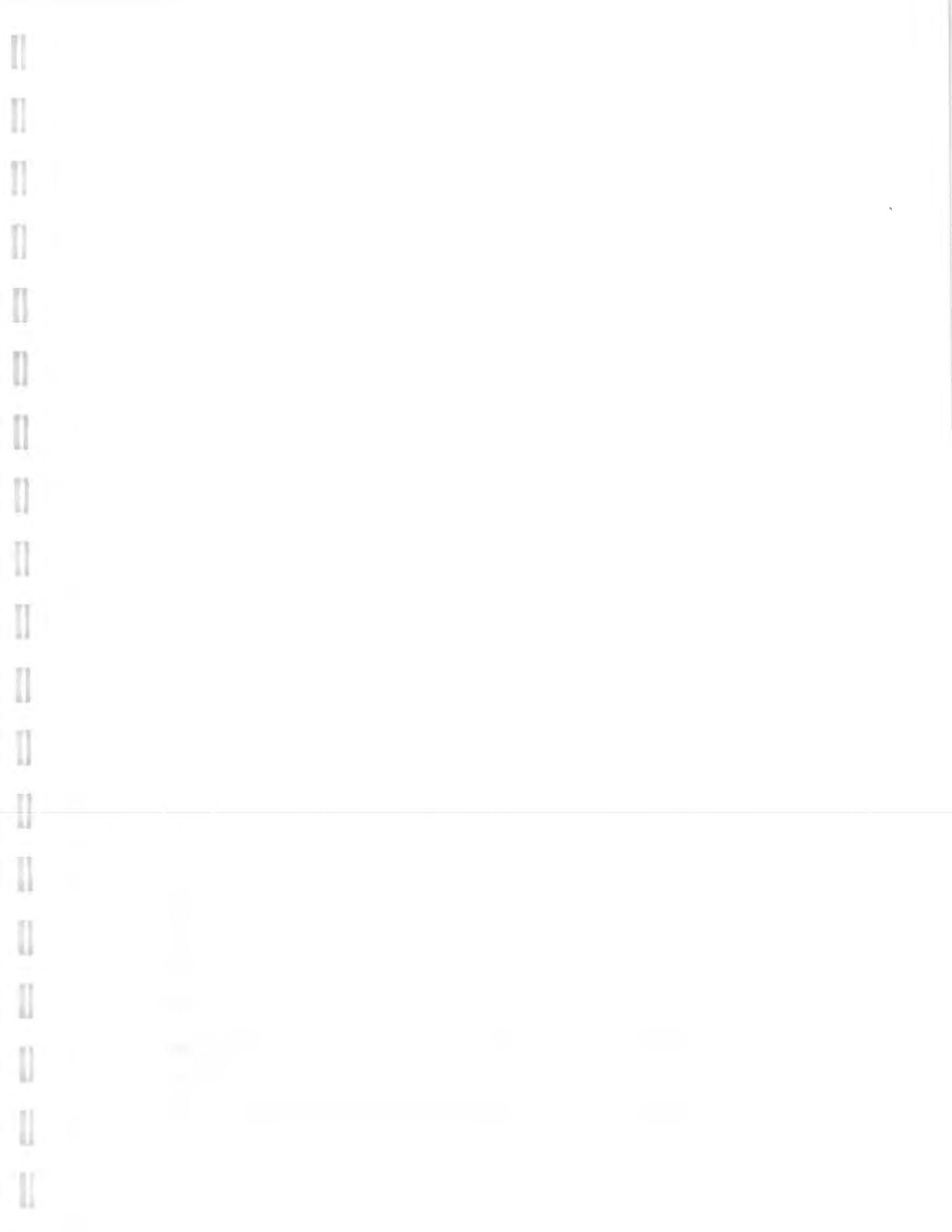
PT-21
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	Jan 1993 1	April 1993 2	June 1993 3	
VOLATILE ORGANICS		624	624	624	624	624	624	624	624	624	624	624	624	624		NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Trichloroethene	µg/L	ND	ND	ND	1	3	3	2	ND	2.5	2.4	2.3	ND	-	ND	3	
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	6	
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	
Tetrachloroethene	µg/L	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	13
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Total Volatile Organics	µg/L	0	0	0	1	10	4	2	0	2.5	2.4	2.3	17	0	10	22	



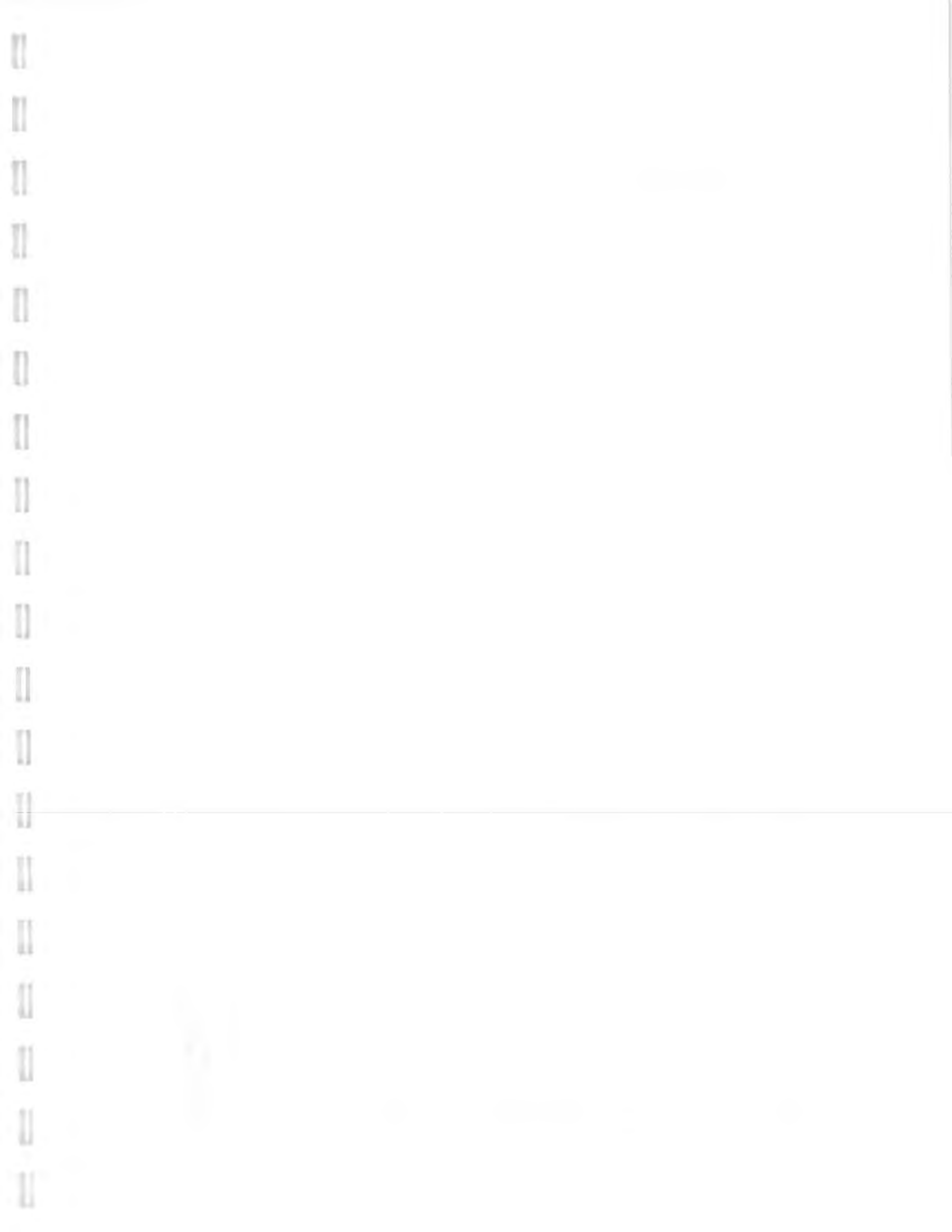
PT-21
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	
VOLATILE ORGANICS		NYSCLP		NYSCLP													
Chloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromomethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroform	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Trichloroethene	µg/L	5	ND	-	-	-	-	-	-	-	-	-	-	-	4	2.6	4
Dibromochloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Benzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromoform	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Toluene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	18	12	-	-	-	-	-	-	-	-	-	-	-	13	9.6	13
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	23	12	0	0	0	0	0	0	0	0	0	0	0	17	12.2	17



PT-21
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	Jan 1993 1	April 1993 2	June 1993 3	
METALS																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	1.1	-	0.144	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	0.08	-	ND	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	85	-	0.842	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	0.027	-	ND	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	9.5	-	45.6	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	32	-	45.6	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS																	
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (T	mg/L	-	-	-	-	0.031	0.02	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	74.2	-	63	-	-	-	-	-	-	-	-	-	-
Conductivity (field)	µmhos/cm	460	400	670	750	900	410	980	1100	1130	1130	970	-	-	-	600	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	0.6	-	0.26	-	-	-	-	-	-	-	-	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	7.7	-	8	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	6.95	7.37	7.4	7.45	6.85	8.39	6.86	7.06	7.24	7.02	7.36	-	-	-	7.04	-
Sulfate	mg/L	-	-	-	136	-	170	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	6.6	-	5.5	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	10	8	13	14	8	8	11	12	10	8	10	-	-	-	9	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

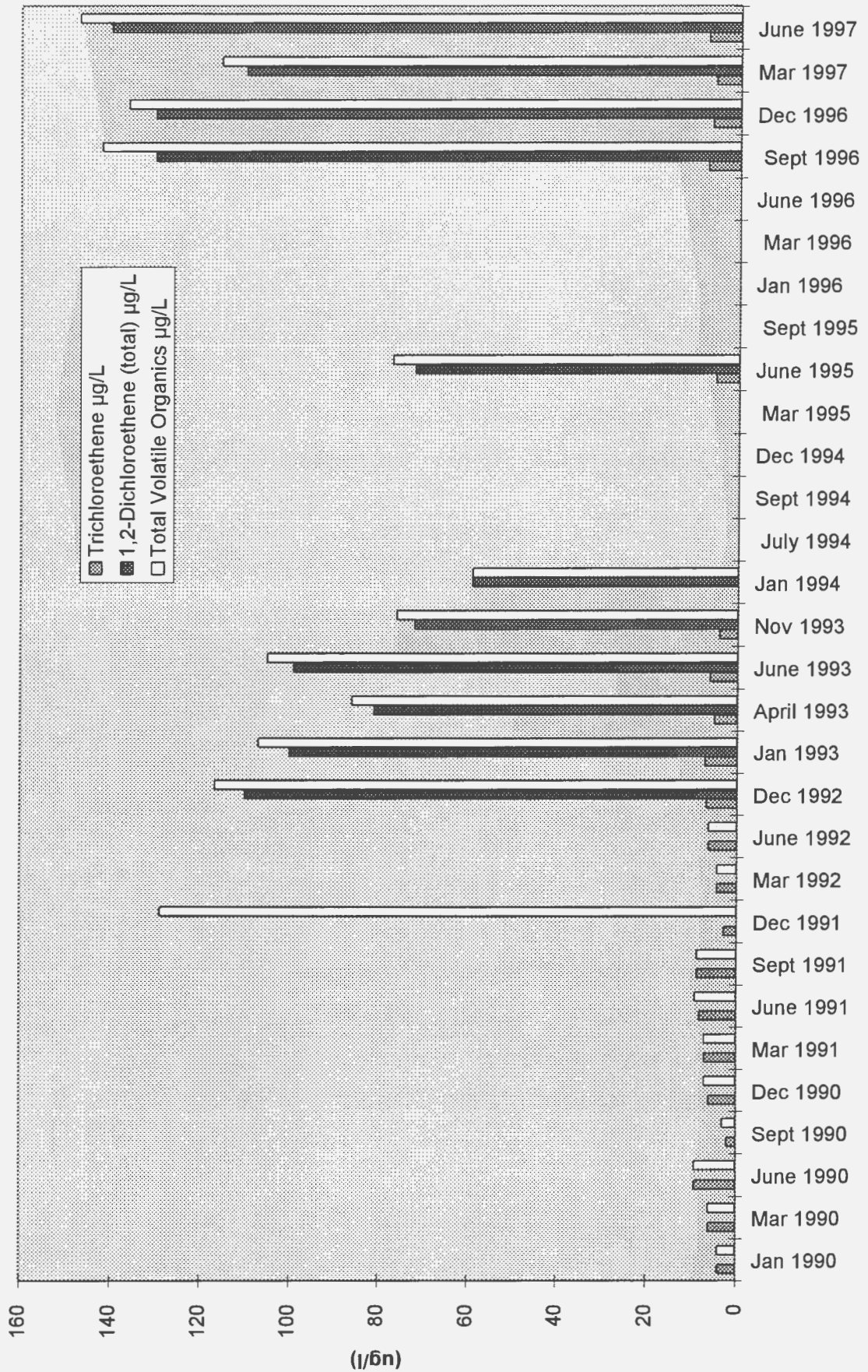


PT-21
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	
METALS																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISCELLANEOUS																	
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0123	0.011	0.0022	
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.01	0.1	0.1	
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	1.9	1.9	2	
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	330	212	297	
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	314	272	244	
Total Organic Halogens/Halides (T)	mg/L	0.05	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloride	mg/L	84	67	-	-	-	-	-	-	-	-	-	-	119	138	134	
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Conductivity (lab)	µmhos/cm	990	890	-	-	-	-	-	-	-	-	-	-	1171	1151	1121	
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrate/Nitrite Nitrogen	mg/L	0.41	0.31	-	-	-	-	-	-	-	-	-	-	0.61	0.44	0.23	
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH (Lab)	std. units	7.49	7.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.75	6.91	7.18	
Sulfate	mg/L	140	120	-	-	-	-	-	-	-	-	-	-	203	203	198	
Total Organic Carbon (TOC)	mg/L	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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PT-24



Note: Well was not sampled July 1994-Mar 1995 and Sept 1995-June 1996.

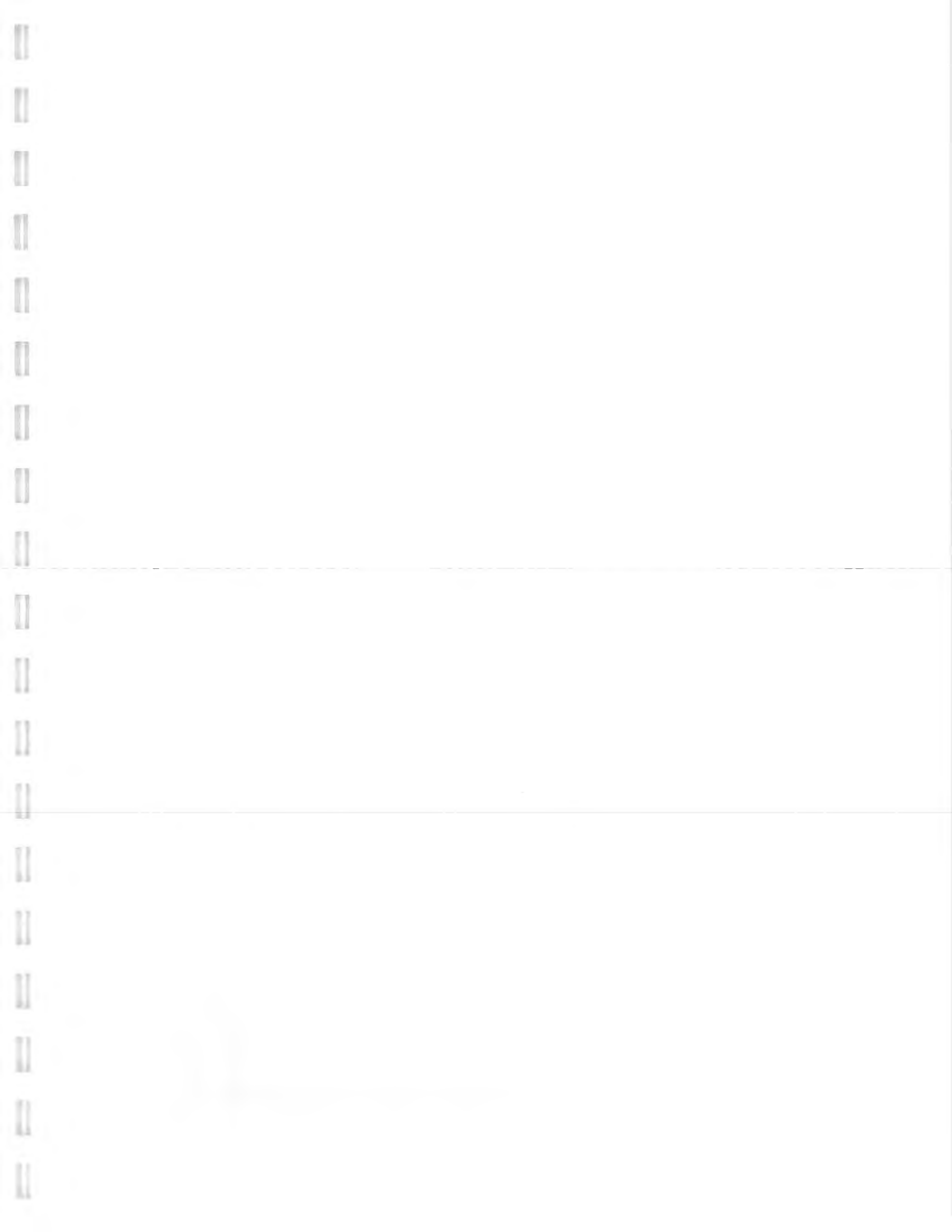
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Table with multiple rows and columns, containing faint text and numbers. The text is illegible due to low contrast and blurring.

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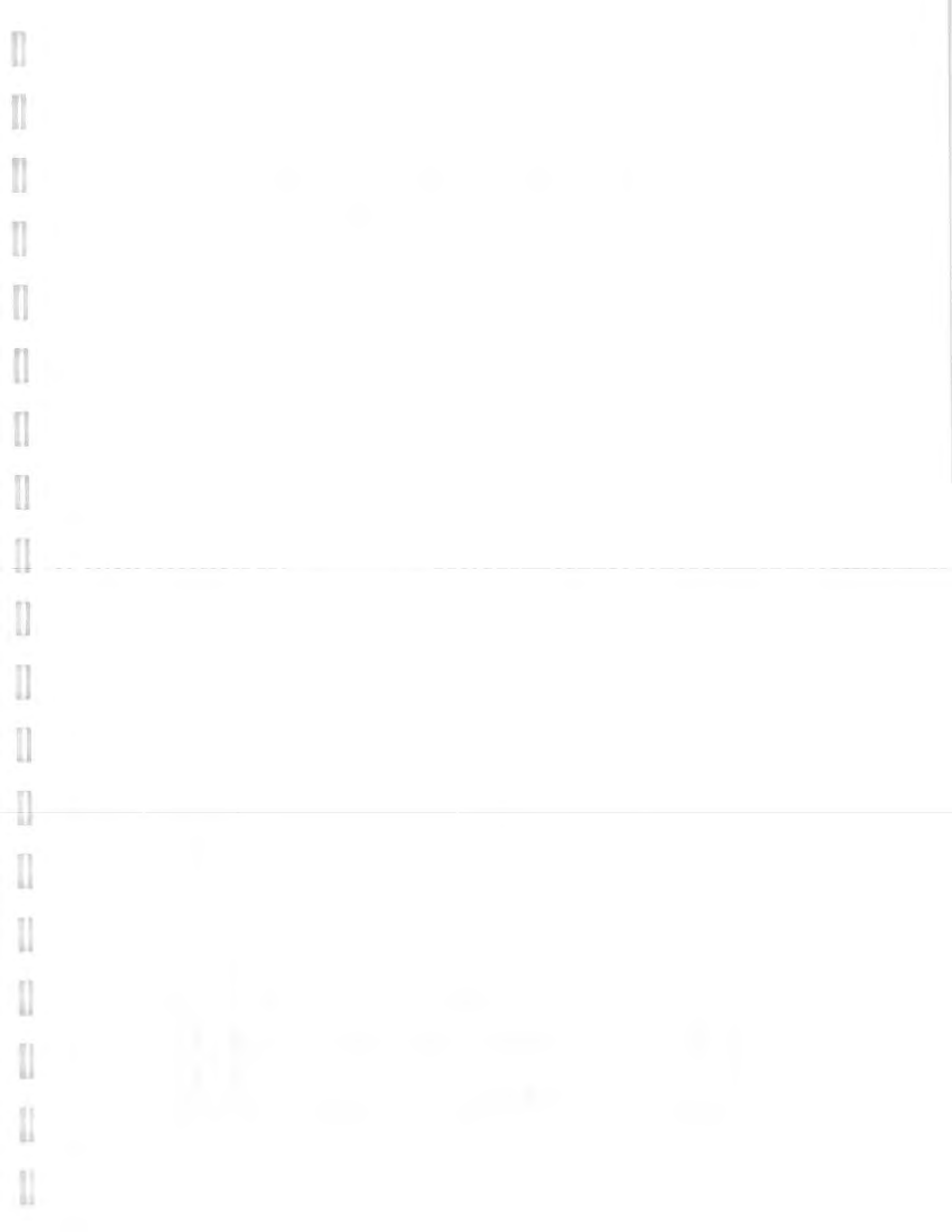
PT-24
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
VOLATILE ORGANICS		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	1	1	ND	1	ND	126	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	4	6	9	2	6	7	8	8.61	2.8	4.4	6.2	6.7	7	5	6
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	110	100	81	99
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	ND	ND	-	ND	ND	ND
Total Volatile Organics	µg/L	4	6	9	3	7	7	9	8.61	128.8	4.4	6.2	116.7	107	86	105



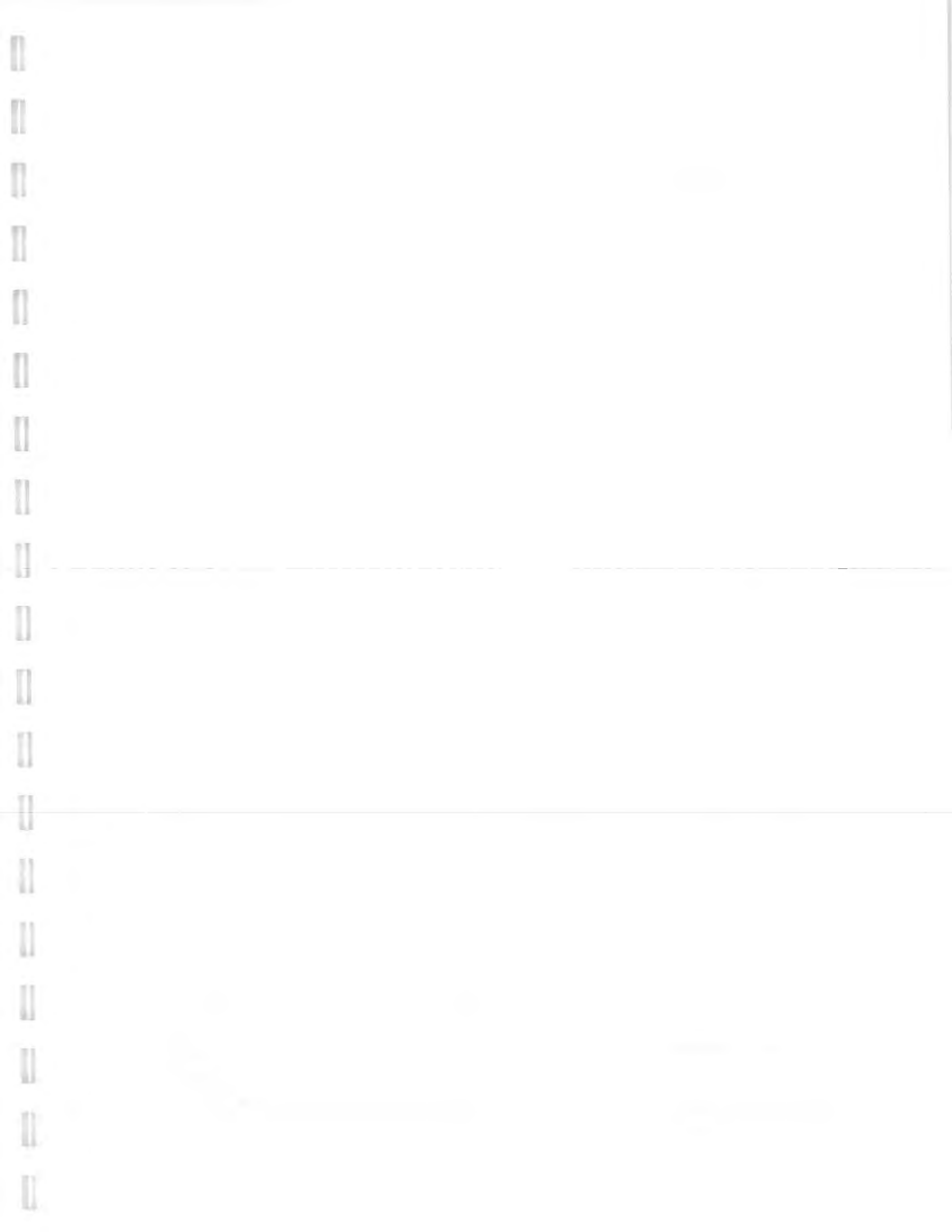
PT-24
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES			
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997			
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2			
VOLATILE ORGANICS		NYSCLP	NYSCLP													524.2	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Bromomethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Vinyl Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Chloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Methylene Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,1-Dichloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Chloroform	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,2-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,1,1-Trichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Carbon Tetrachloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Bromodichloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,2-Dichloropropane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
cis-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Trichloroethene	µg/L	4	ND	-	-	-	-	5	-	-	-	-	7	6	5.4	7			
Dibromochloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,1,2-Trichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Benzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
trans-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Bromoform	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Tetrachloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Toluene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Chlorobenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Ethylbenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-			
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-			
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-			
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-			
1,2-Dichloroethene (total)	µg/L	72	59	-	-	-	-	72	-	-	-	-	130	130	110	140			
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-			
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-			
Acetone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	5	ND	ND	ND			
Carbon Disulfide	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
4-Methyl-2-Pentanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
2-Hexanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Styrene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Xylenes (total)	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Total Volatile Organics	µg/L	76	59	0	0	0	0	77	0	0	0	0	142	136	115.4	147			



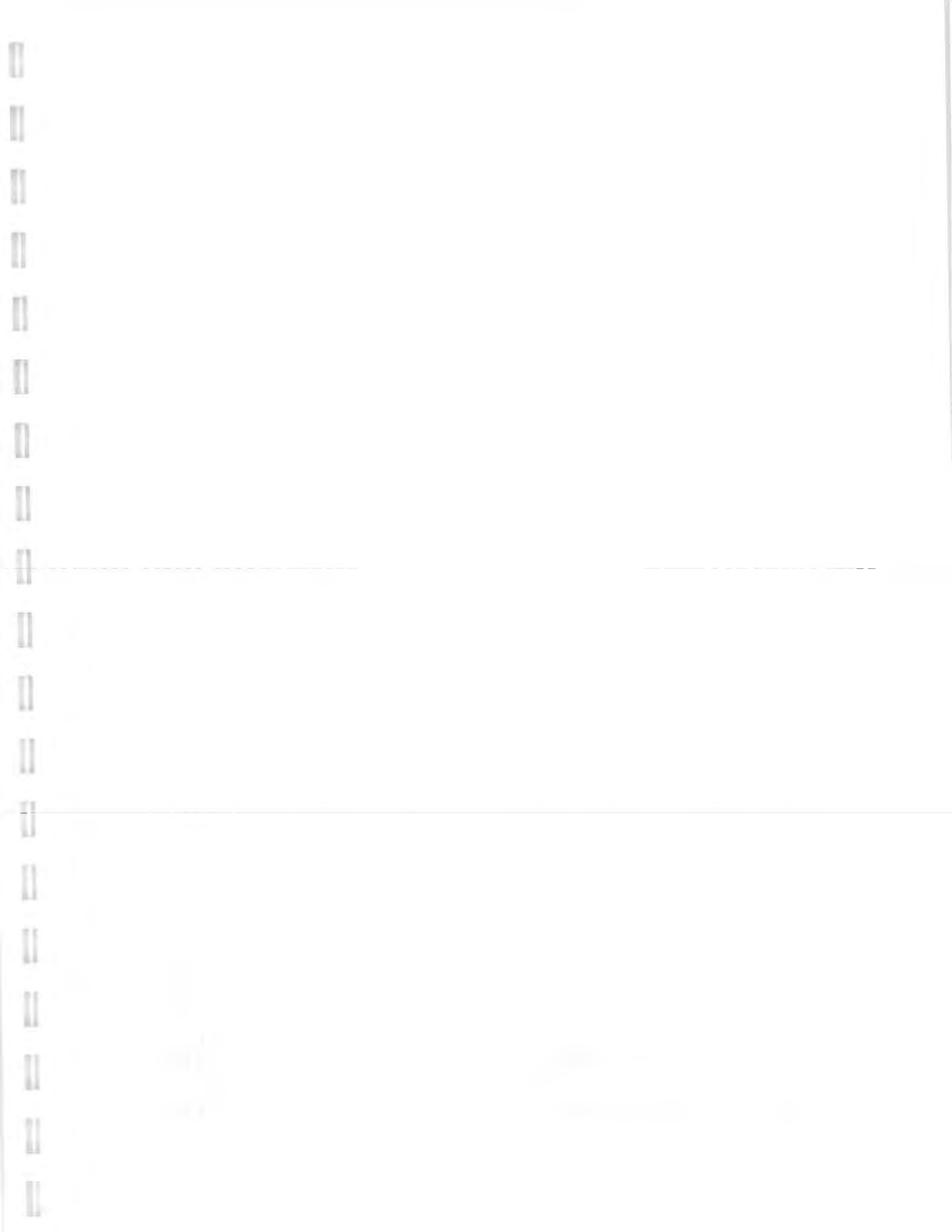
PT-24
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	13.5	-	1180
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.0016	-	ND
Barium	mg/L	-	ND	-	ND	-	0.065	-	0.13	-	0.054	-	-	0.116	-	49.8
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	0.32
Cadmium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	125	-	1113000
Chromium	mg/L	-	0.041	-	ND	-	ND	-	0.037	-	ND	-	-	0.0176	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0088	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0111	-	2.6
Iron	mg/L	-	34	-	1.2	-	8.79	-	33.7	-	4.13	-	-	17.8	-	1460
Lead	mg/L	-	0.013	-	ND	-	ND	-	0.02	-	ND	-	-	0.0091	-	1.1
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	17.2	-	12500
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.375	-	51.1
Mercury	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0206	-	ND
Potassium	mg/L	-	ND	-	2.1	-	2.2	-	5.85	-	1.86	-	-	3.6	-	1890
Selenium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.0012	-	ND
Silver	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	15	-	14	-	13.4	-	16.2	-	14.1	-	-	16.7	-	15100
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0195	-	4
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0781	-	11.3
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	1.8
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TO)	mg/L	-	0.0138	-	-	0.054	0.07	-	0.029	-	0.06	-	-	0.05	0.05	0.09
Chloride	mg/L	-	30	-	17.4	-	19.7	-	16.2	-	21	-	-	17.6	16	16
Conductivity (field)	µmhos/cm	350	330	510	500	540	420	725	770	740	700	650	-	425	390	500
Conductivity (lab)	µmhos/cm	-	-	-	-	-	540	-	-	-	627	-	-	663	620	650
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	0.26	-	0.34	-	0.17	-	0.43	-	0.11	-	-	0.18	0.28	0.06
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.18	-	-
pH (Lab)	std. units	-	7.2	-	7	-	7.2	-	7.7	-	7.2	-	-	7.17	7.16	6.95
pH (field)	std. units	6.8	7.44	7.25	7.3	6.35	7.82	6.62	7.19	7.28	7.12	7.27	-	6.7	7.13	7.54
Sulfate	mg/L	-	120	-	125	-	80	-	93	-	75.7	-	-	55	44	37
Total Organic Carbon (TOC)	mg/L	-	16	-	4.4	-	16.7	-	9.2	-	4	-	-	2	2	ND
Temperature (field)	Celcius	7.5	7	15	16	9	7	13	15	8	6	11	-	6	5	13.7
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	>200	-	-



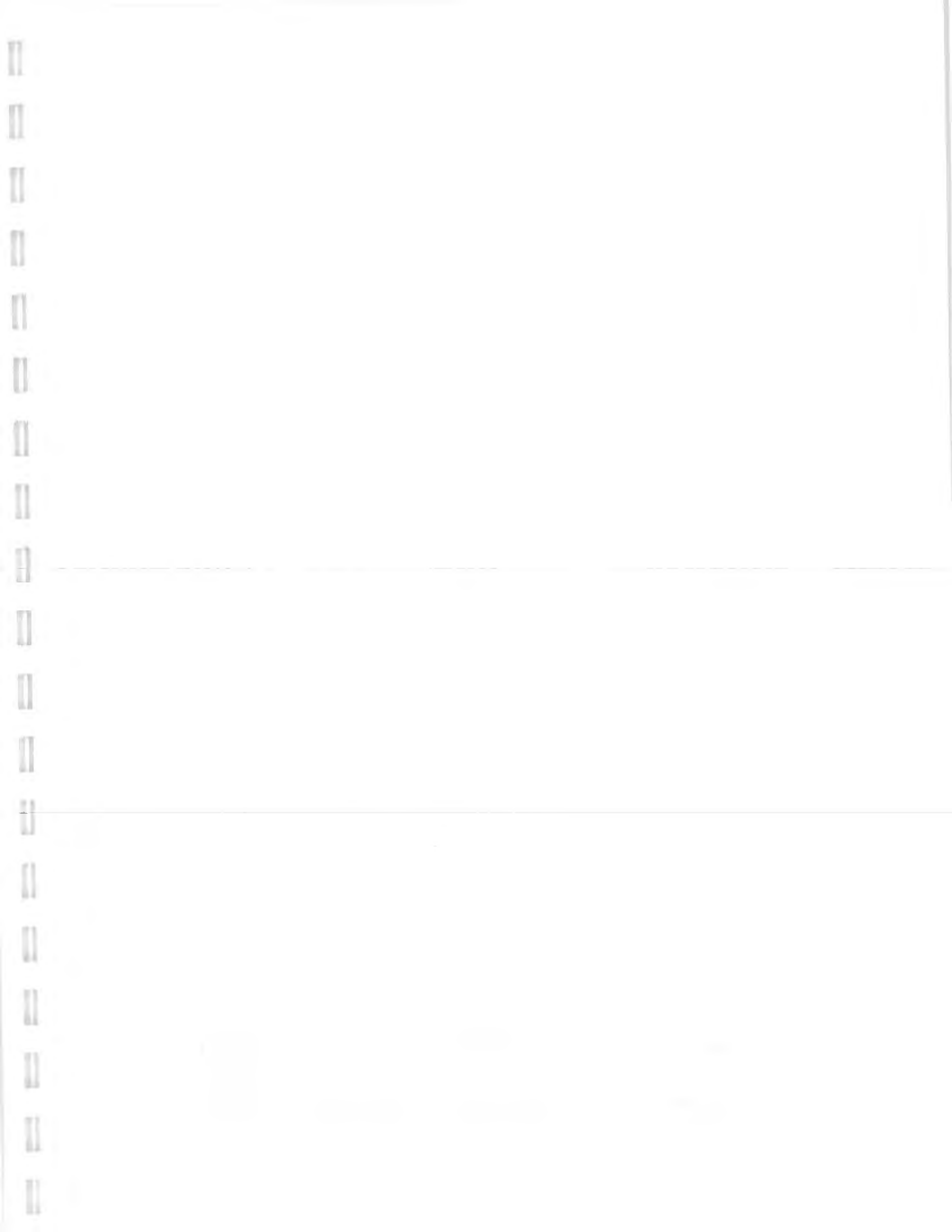
PT-24
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	
METALS																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISCELLANEOUS																	
Ethene	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	275	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	0.12	-	-	-	-	-	0	0.07	0.15
Sulfide	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	4.6	-	-	-	-	-	1.6	1.5	2
Redox Potential	mV	-	-	-	-	-	-	-	372.4	-	-	-	-	-	359	331	329
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	288	-	-	-	-	-	332	326	324
Total Organic Halogens/Halides (TO)	mg/L	ND	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	13	14	-	-	-	-	-	40.3	-	-	-	-	-	29.4	33.3	27.8
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	650	750	-	-	-	-	-	763	-	-	-	-	-	810	840	801
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.33	0.26	-	-	-	-	-	0.15	-	-	-	-	-	1.3	0.91	0.66
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.17	7.33	-	-	-	-	-	7.09	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	6.62	6.68	6.65
Sulfate	mg/L	47	49	-	-	-	-	-	79	-	-	-	-	-	118	126	116
Total Organic Carbon (TOC)	mg/L	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



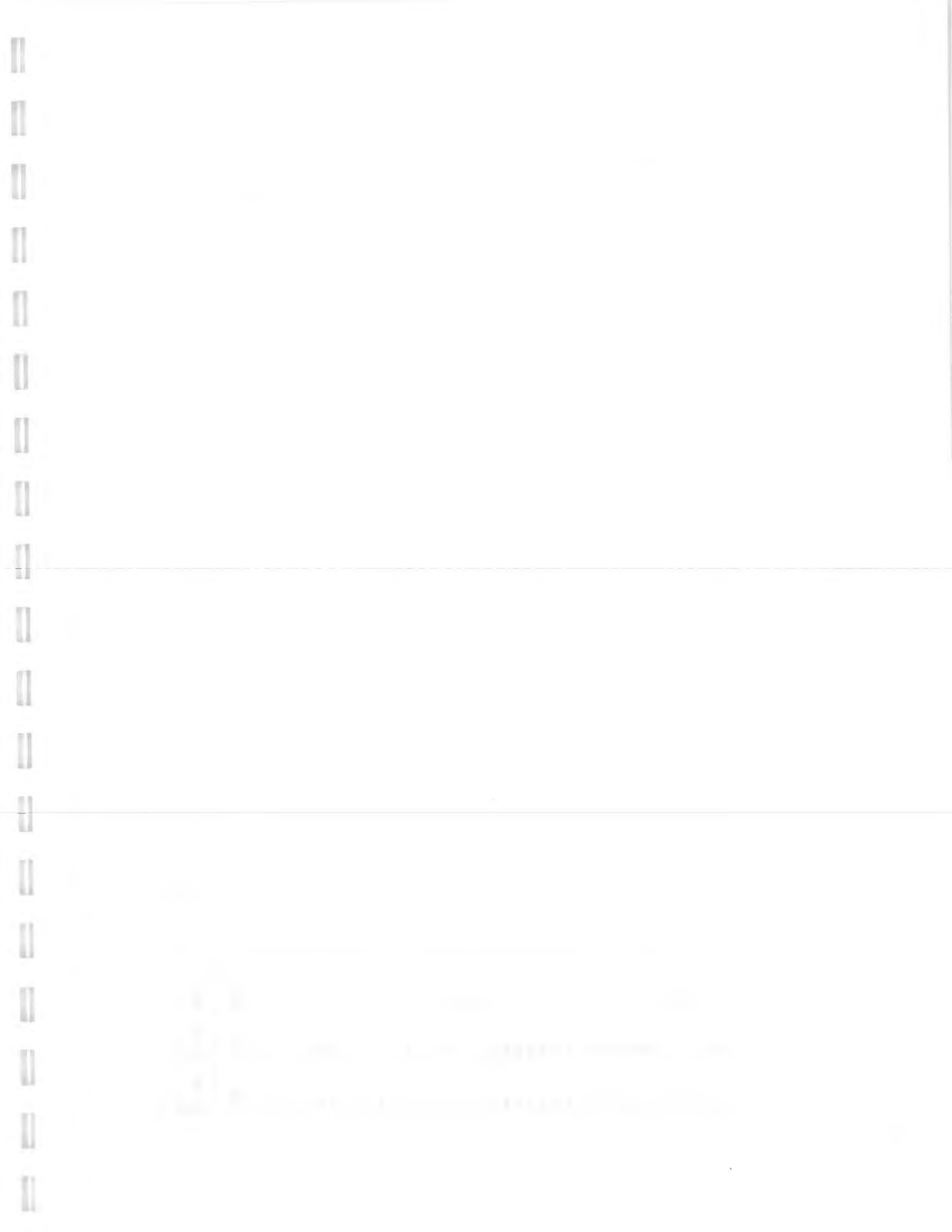
MW-27
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
VOLATILE ORGANICS		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0



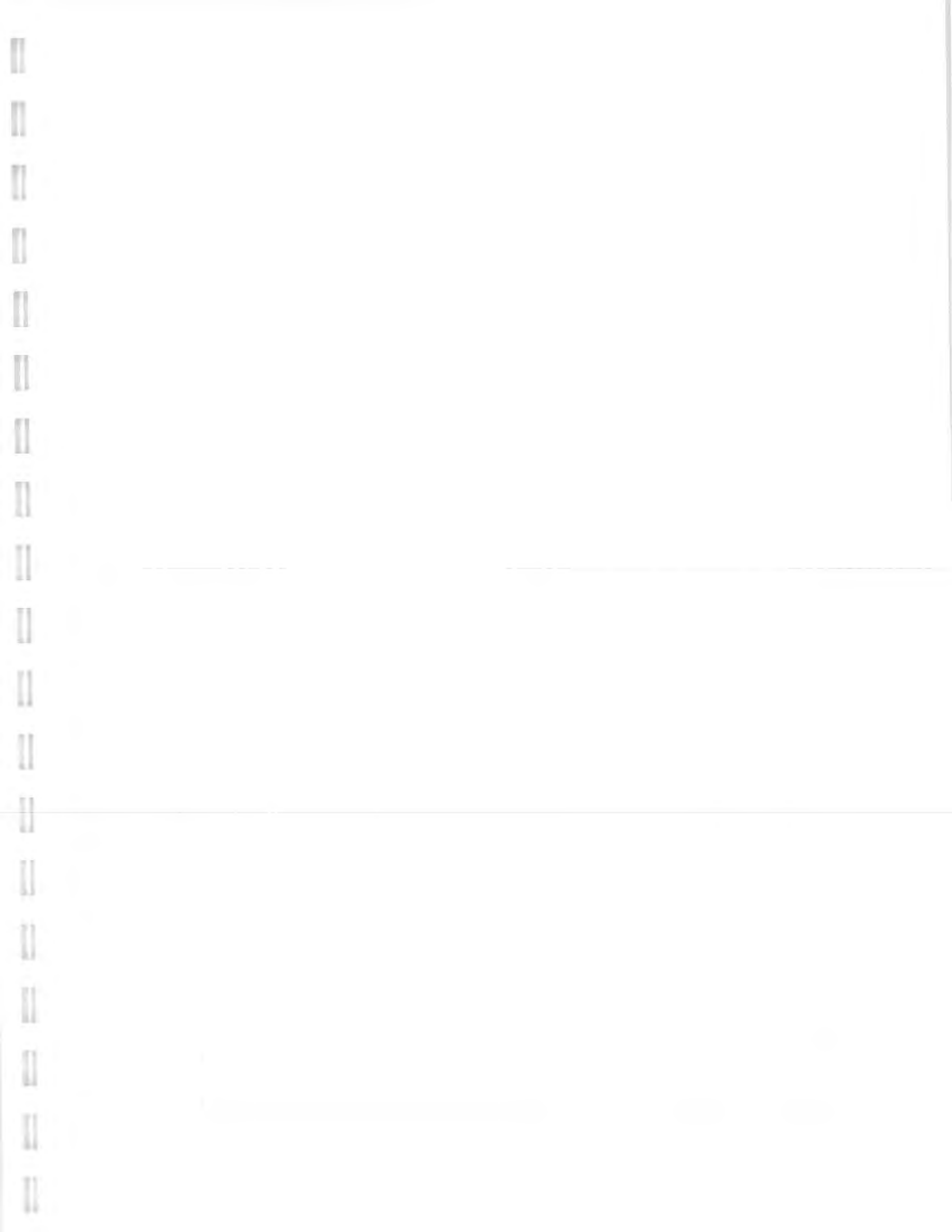
MW-27
Ash Landfill

Parameters	Source:	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES		
	Units	Nov 1993	Jan 1994	July 1994	Sept 1994	1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997			
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2			
VOLATILE ORGANICS		NYSCLP			NYSCLP			524.2			524.2			524.2			524.2		
Chloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Bromomethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Vinyl Chloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Methylene Chloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1-Dichloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1-Dichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chloroform	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-Dichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1,1-Trichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Carbon Tetrachloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Bromodichloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-Dichloropropane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Trichloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Dibromochloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1,2-Trichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Benzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Bromoform	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Tetrachloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Toluene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chlorobenzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Ethylbenzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Acetone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Carbon Disulfide	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
2-Hexanone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Styrene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Xylenes (total)	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		



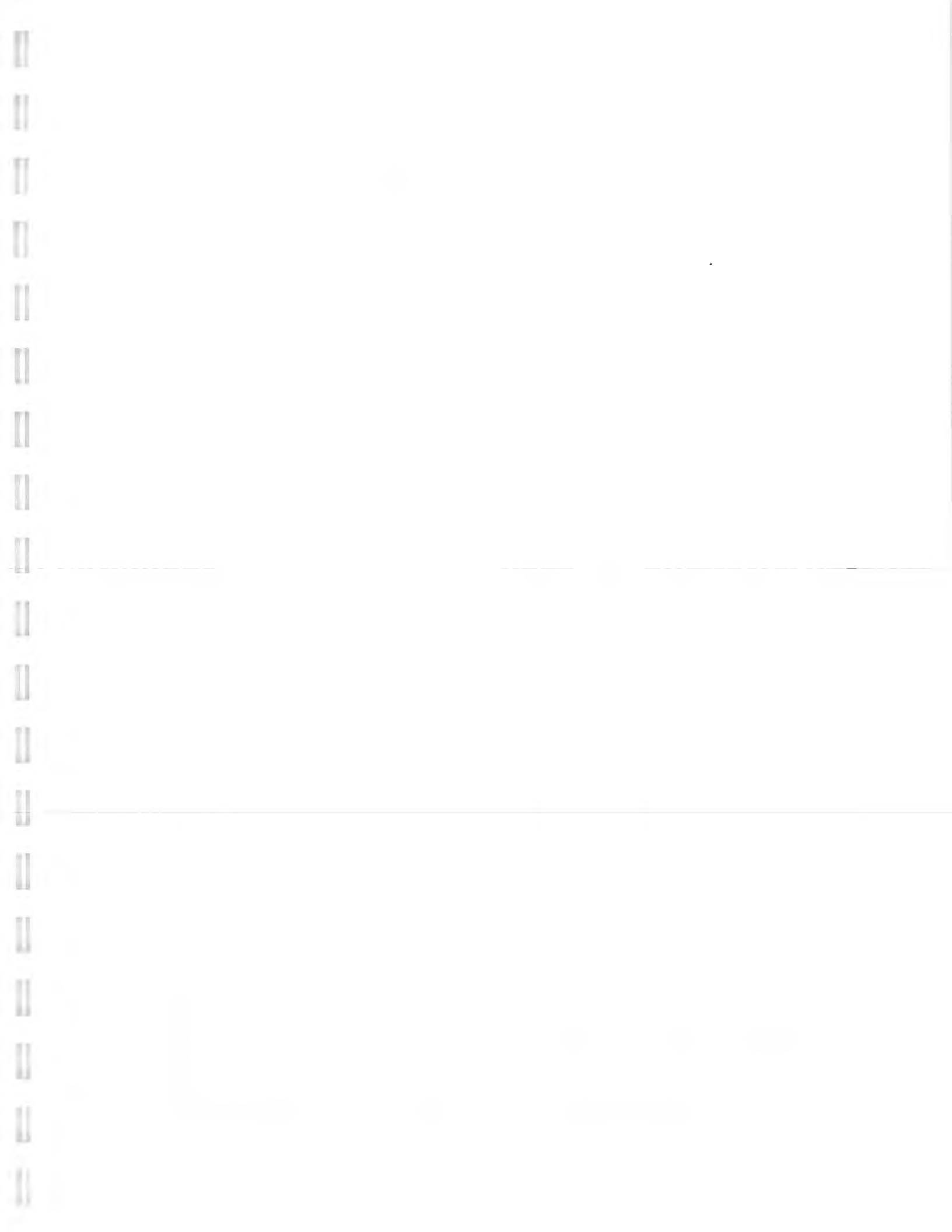
MW-27
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.4	-	1090.0
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	0.0029	-	1.5
Barium	mg/L	-	-	-	-	-	0.072	-	-	-	0.072	-	-	0.0996	-	113.0
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00043	-	ND
Cadmium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	153	-	123000.0
Chromium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0066	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0048	-	2.8
Iron	mg/L	-	-	-	-	-	10.2	-	-	-	8.13	-	-	2.49	-	3320.0
Lead	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	0.0032	-	ND
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	15.5	-	19000.0
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.759	-	818.0
Mercury	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0058	-	ND
Potassium	mg/L	-	-	-	-	-	4.67	-	-	-	3.2	-	-	3.51	-	6210.0
Selenium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	1.1
Silver	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	-	-	-	-	17.8	-	-	-	20.1	-	-	17.4	-	16500.0
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	3.5
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0171	-	12.9
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TO)	mg/L	-	-	-	-	-	0.023	-	-	-	0.01	-	-	ND	ND	ND
Chloride	mg/L	-	-	-	-	-	35.5	-	-	-	30.6	-	-	24	36	45
Conductivity (field)	µmhos/cm	480	470	650	560	560	490	855	860	870	660	690	-	427	445	600
Conductivity (lab)	µmhos/cm	-	-	-	-	-	630	-	-	-	615	-	-	661	700	760
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.04	-	-	-	ND	-	-	0.06	ND	ND
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.06	-	-
pH (Lab)	std. units	-	-	-	-	-	7.4	-	-	-	7.6	-	-	7.23	7.17	7.32
pH (field)	std. units	7.05	6.81	7.26	7.45	6.55	7.85	6.62	7.19	7.41	7.19	7.2	-	7.49	7.16	7.20
Sulfate	mg/L	-	-	-	-	-	90.4	-	-	-	80.8	-	-	41	47	53
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	18.9	-	-	-	8	-	-	1.4	2	ND
Temperature (field)	Celsius	7	6	15	16	8	7	14	19	7	6	12	-	6	7.5	13
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	>200	26.1	-

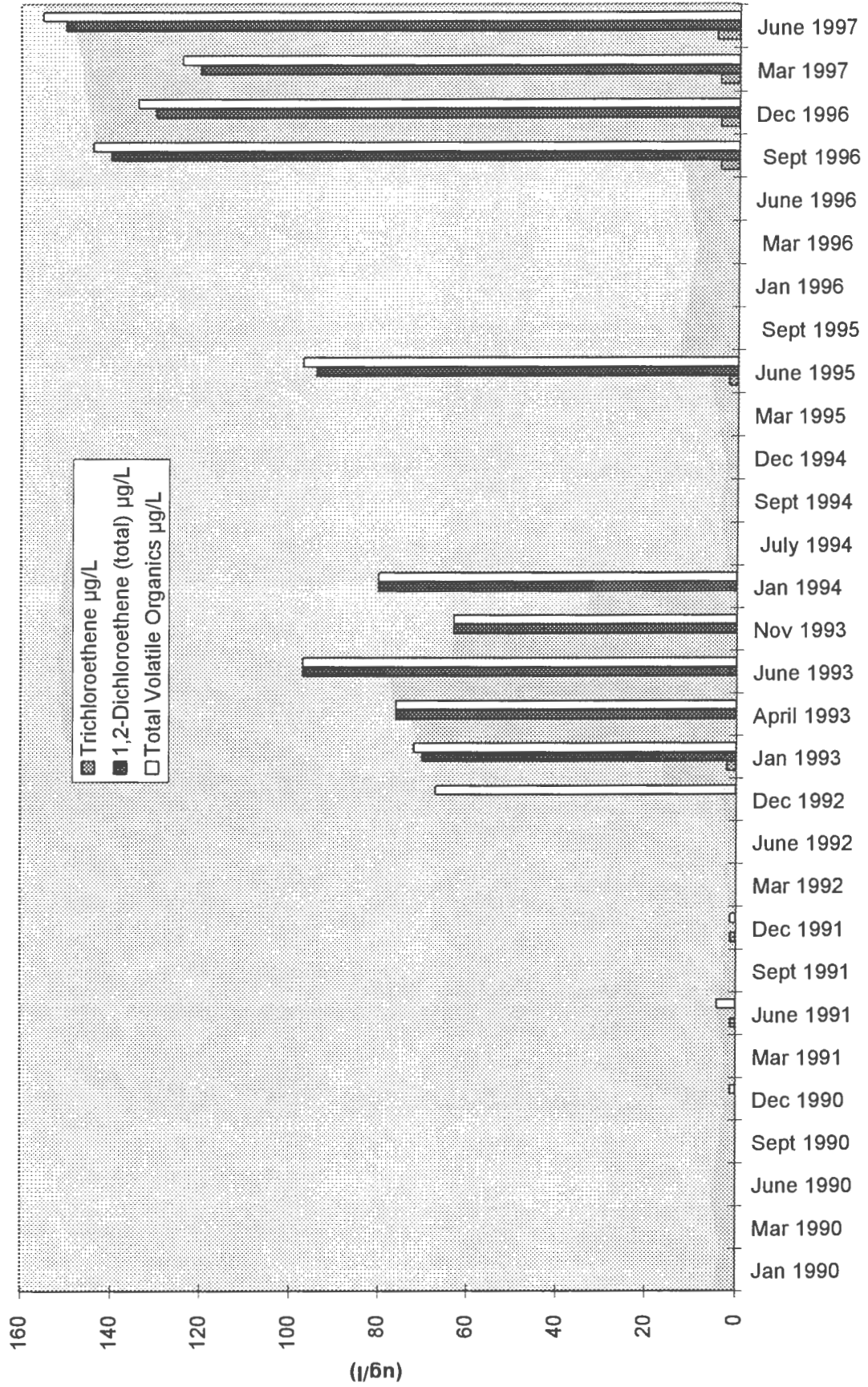


MW-27
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS																
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.184	-	-	-	-	-	0.002	ND	ND
CO2	mg/L	-	-	-	-	-	-	268	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.21	-	-	-	-	-	0.17	0.41	0.72
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	2.3	-	-	-	-	-	1.9	1.9	2.3
Redox Potential	mV	-	-	-	-	-	-	394.7	-	-	-	-	-	287	323	289
Alkalinity (total)	mg CaCO3/L	0.08	0.05	-	-	-	-	292	-	-	-	-	-	318	288	300
Total Organic Halogens/Halides (TO	mg/L	34	44	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	37.8	-	-	-	-	-	19.4	23.5	24.6
Conductivity (field)	µmhos/cm	600	770	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	633	-	-	-	-	-	672	657	825
Nitrite Nitrogen	mg/L	0.15	ND	-	-	-	-	ND	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	0.098	-	-	-	-	-	0.03	0.03	0.07
Nitrate as N - Calculation	mg/L	7.42	7.45	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	7.73	-	-	-	-	-	7.03	6.98	6.91
pH (field)	std. units	72	64	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	3	1	-	-	-	-	50.7	-	-	-	-	-	44.3	48.6	67.8
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



MW-29

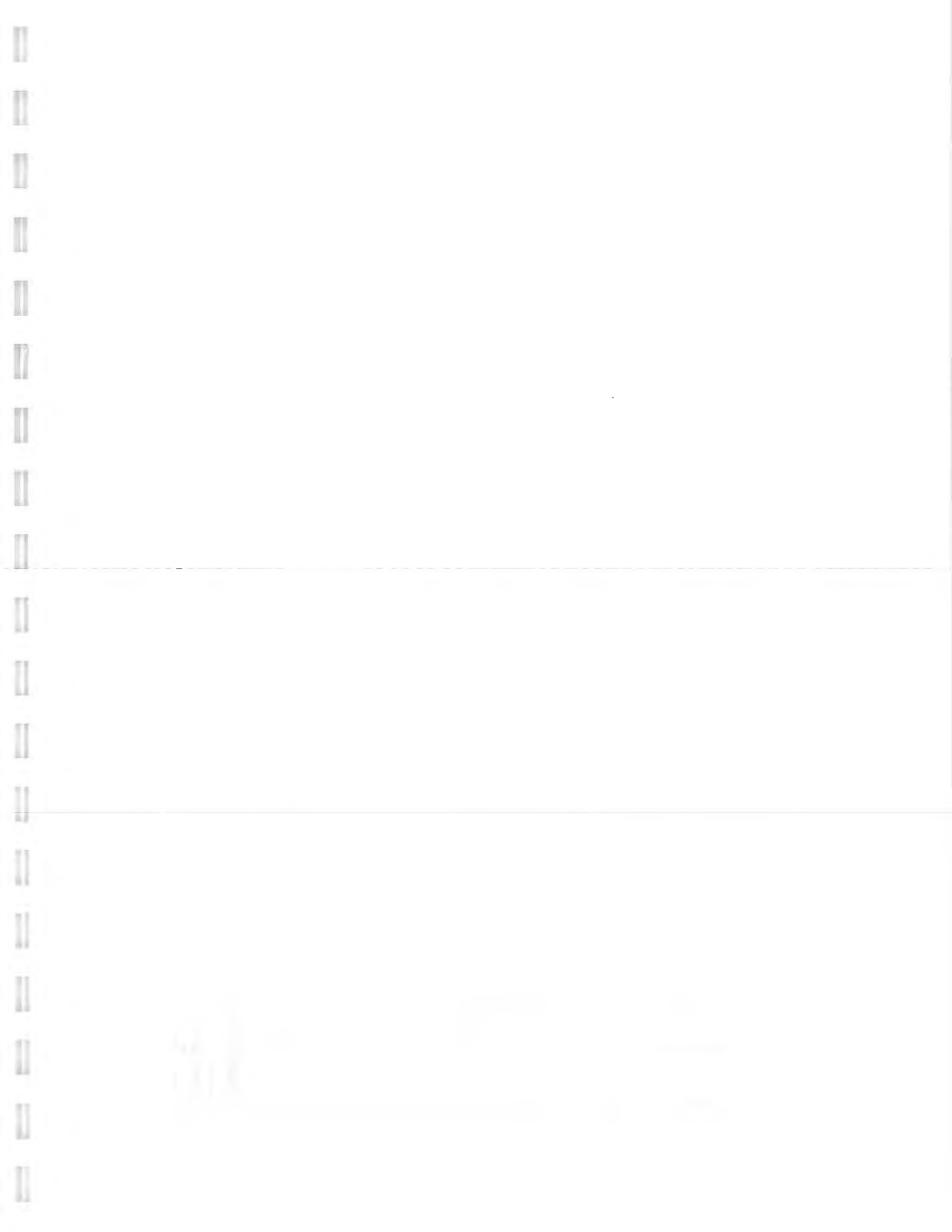


Note: Well was not sampled Sept 1990, Sept 1991, July 1994-Mar 1995 and Sept 1995-June 1996.



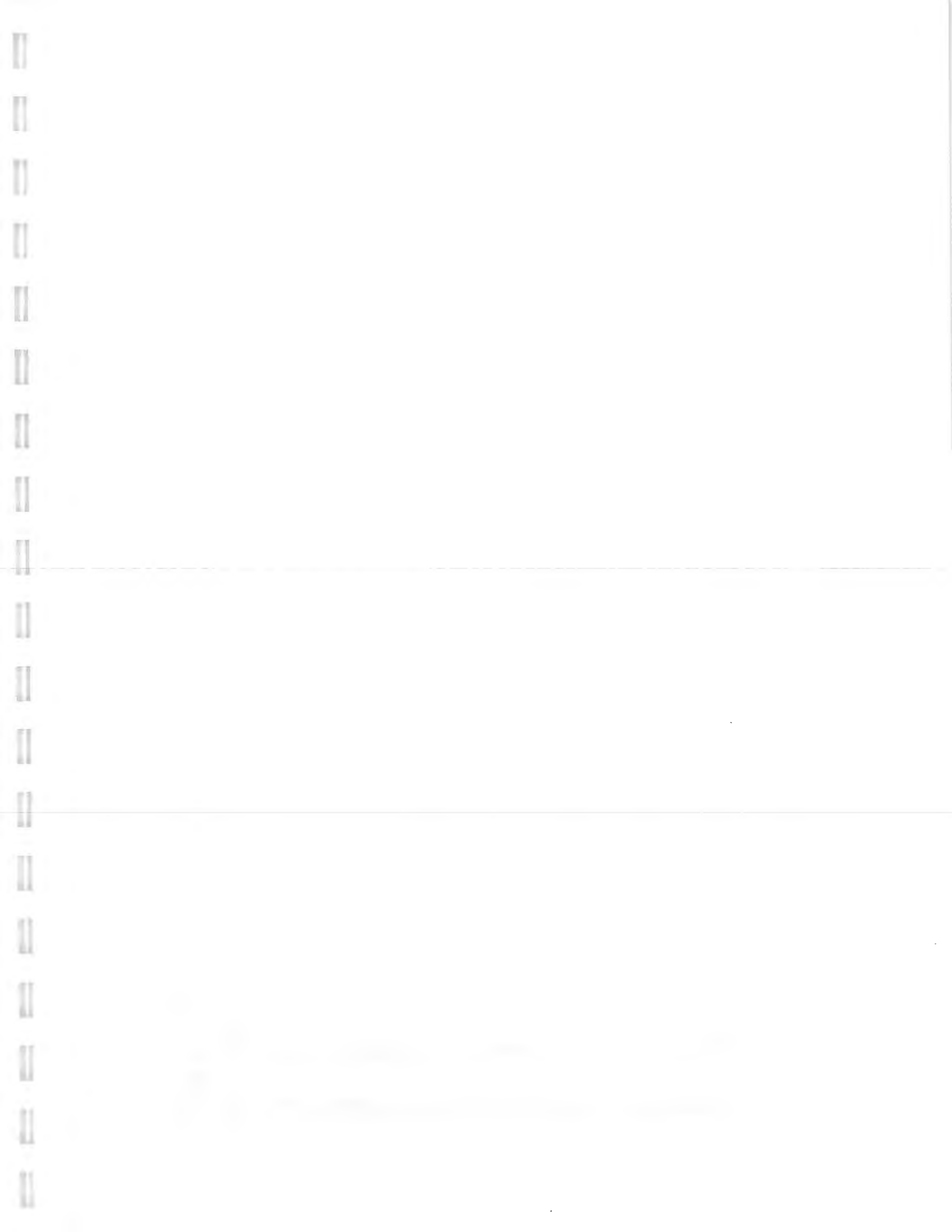
MW-29
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
		DRY				DRY										
VOLATILE ORGANICS		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	-	ND	ND	1	-	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	-	1	ND	2	-	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	-	ND	ND	1	-	1.2	ND	ND	ND	2	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	70	76	97
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	67	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	1	0	4	0	1.2	0	0	67	72	76	97



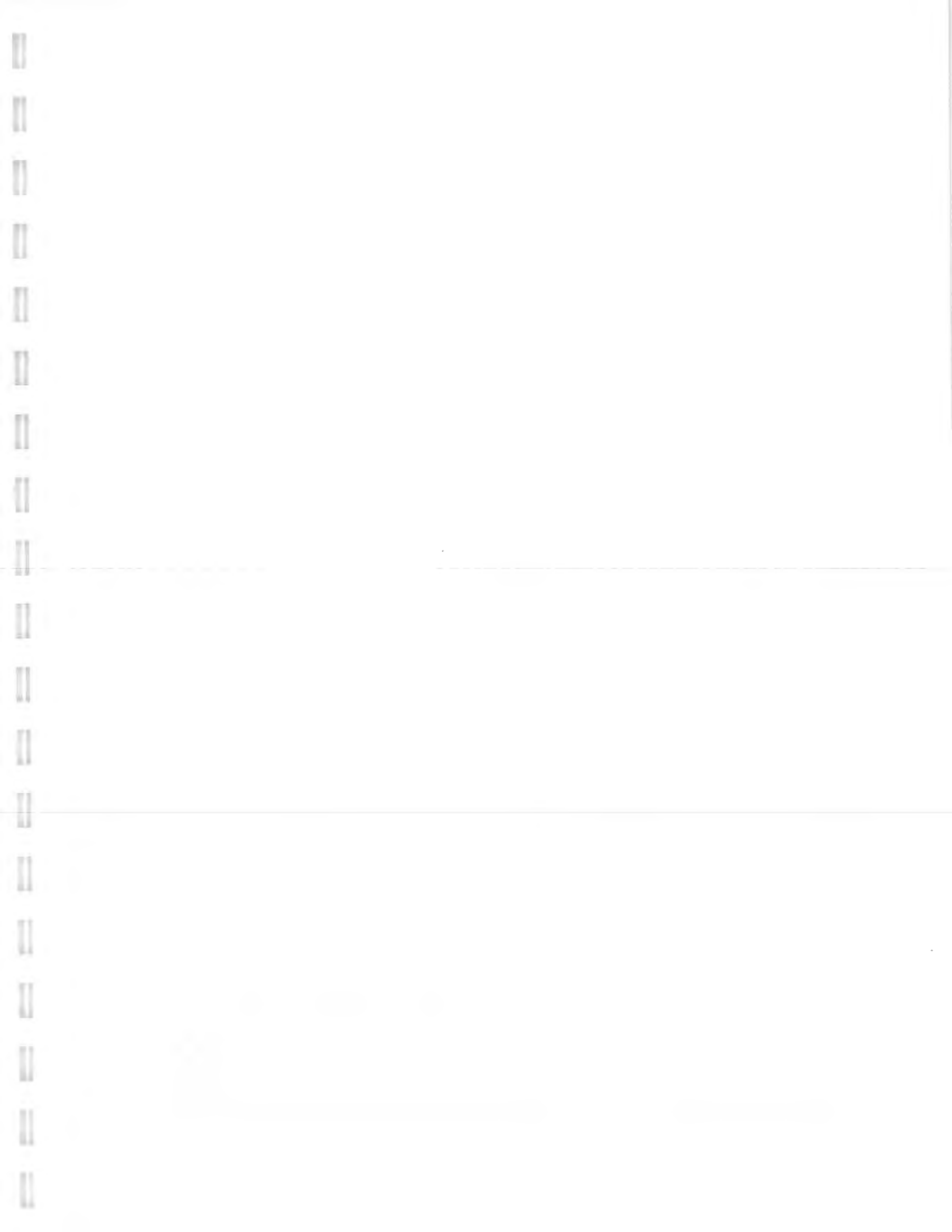
MW-29
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2
VOLATILE ORGANICS		NYSCLP	NYSCLP					NYSCLP					524.2	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	-	-	-	1	-	-	-	-	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	-	-	-	-	2	-	-	-	-	4	4	4.1	5
Dibromochloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Benzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Toluene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
1,2-Dichloroethene (total)	µg/L	63	80	-	-	-	-	94	-	-	-	-	140	130	120	150
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
Acetone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Styrene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND
Total Volatile Organics	µg/L	63	80	0	0	0	0	97	0	0	0	0	144	134	124.1	155



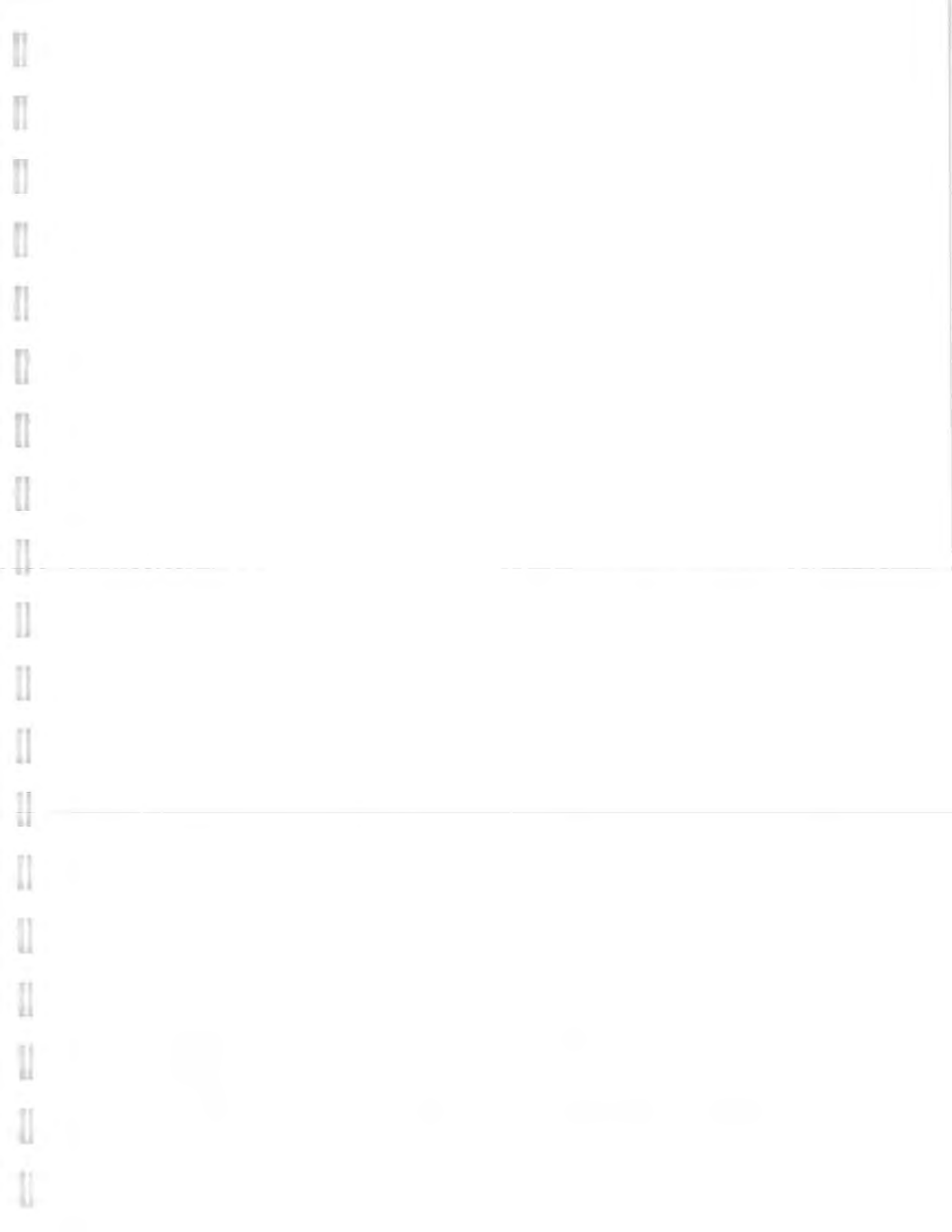
MW-29
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	59.6	-	76000.0
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	0.0015	-	3.1
Barium	mg/L	-	-	-	-	-	0.227	-	-	-	0.327	-	-	0.427	-	420.0
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0032	-	4.4
Cadmium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	2.4
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	278	-	274000.0
Chromium	mg/L	-	-	-	-	-	0.043	-	-	-	0.088	-	-	0.0809	-	116.0
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0636	-	82.4
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0851	-	172.0
Iron	mg/L	-	-	-	-	-	69.5	-	-	-	101	-	-	92.4	-	162000.0
Lead	mg/L	-	-	-	-	-	ND	-	-	-	0.028	-	-	0.0267	-	43.1
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	58	-	63700.0
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	3.7	-	4030.0
Mercury	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	0.00018	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.132	-	191.0
Potassium	mg/L	-	-	-	-	-	5	-	-	-	8.42	-	-	9.06	-	8740.0
Selenium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Silver	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	-	-	-	-	16.1	-	-	-	18.3	-	-	21.9	-	26900.0
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0753	-	102.0
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.325	-	498.0
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	3
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	0.037	-	-	-	0.03	-	-	0.04	0.06	0.10
Chloride	mg/L	-	-	-	-	-	18.7	-	-	-	21	-	-	15.2	14	23.0
Conductivity (field)	µmhos/cm	440	420	580	-	550	520	830	-	860	810	770	-	492	480	580
Conductivity (lab)	µmhos/cm	-	-	-	-	-	620	-	-	-	725	-	-	761	770	750.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.46	-	-	-	0.31	-	-	0.24	0.38	0.17
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.24	-	-
pH (Lab)	std. units	-	-	-	-	-	7.2	-	-	-	7.2	-	-	7.13	7.11	7.13
pH (field)	std. units	6.85	6.94	7.25	-	6.2	7.9	6.65	-	7.17	7.08	7	-	7.34	7.4	7.63
Sulfate	mg/L	-	-	-	-	-	65	-	-	-	93.6	-	-	87	71	66.0
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	75	-	-	-	5	-	-	2.1	ND	2.0
Temperature (field)	Celcius	8	7	15	-	9	7	13	-	10	5	10	-	6	5	13.5
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	>200	-	-



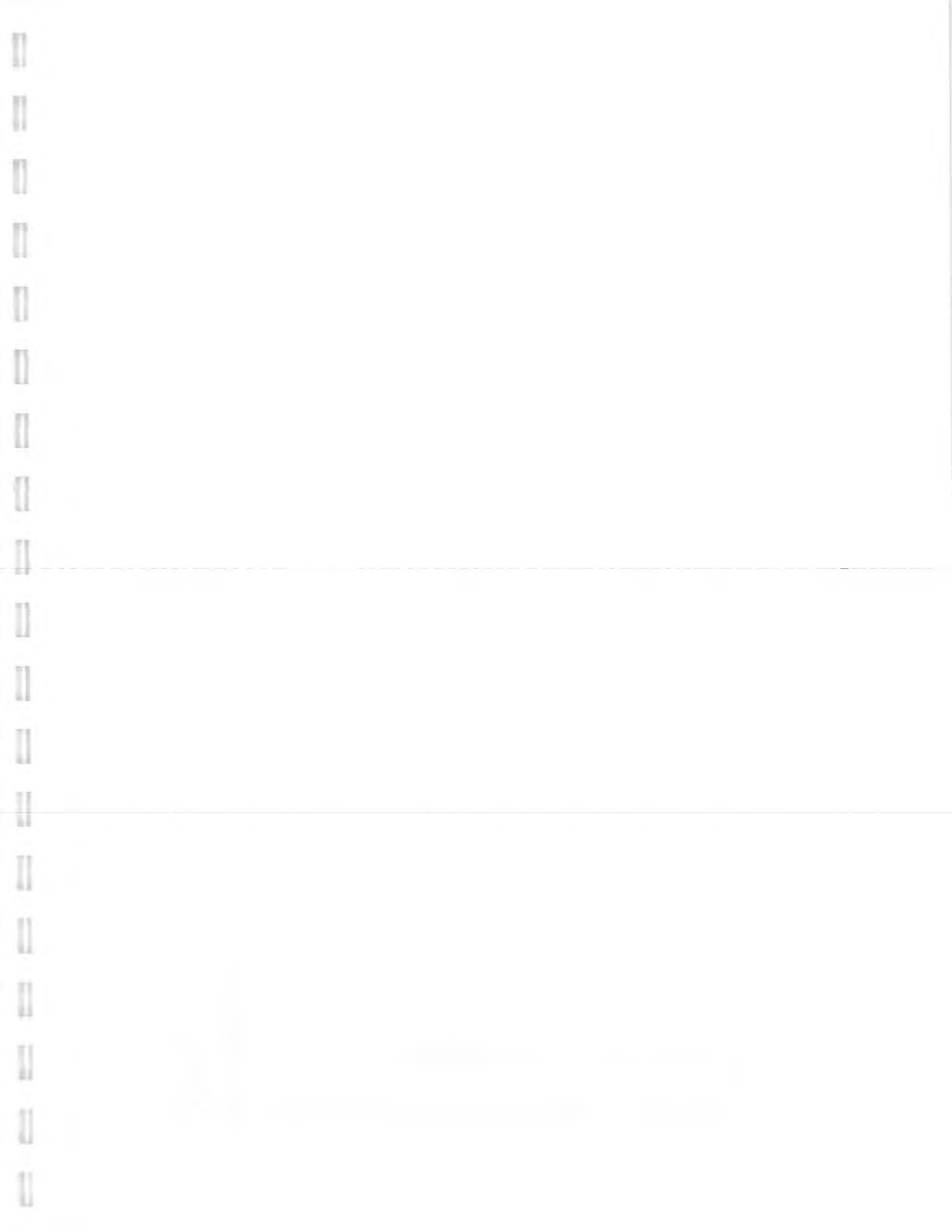
MW-29
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	16.7	ND
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	8.9	4.9
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	316	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.24	-	-	-	-	-	0.03	0.02	0.22
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	3.2	-	-	-	-	-	1.8	1.6	2.1
Redox Potential	mV	-	-	-	-	-	-	365.6	-	-	-	-	-	349	337	337
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	313	-	-	-	-	-	342	336	308
Total Organic Halogens/Halides (TOX)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	13	25	-	-	-	-	58.2	-	-	-	-	-	27.6	41.1	65.3
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	750	520	-	-	-	-	944	-	-	-	-	-	831	934	1028
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.51	0.37	-	-	-	-	-	-	-	-	-	-	1.7	1.4	1.5
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	0.21	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.2	7.2	-	-	-	-	7.06	-	-	-	-	-	6.64	6.64	6.61
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	6.1	79	-	-	-	-	126	-	-	-	-	-	117	151	204
Total Organic Carbon (TOC)	mg/L	2	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



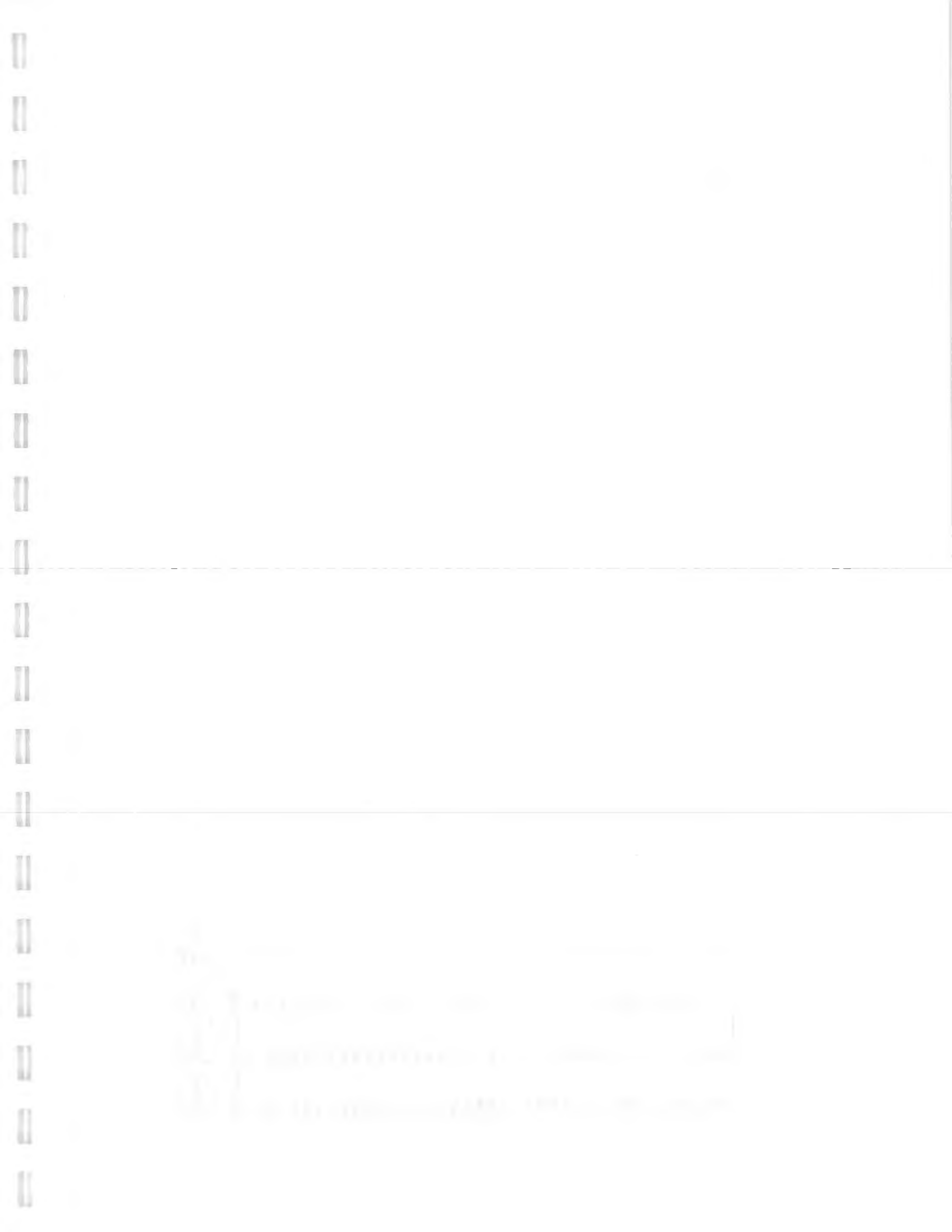
MW-30
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
VOLATILE ORGANICS		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	1	ND	ND	-	-	2.4	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	1	0	0	0	0	2.4	0	0	0	0	0	0



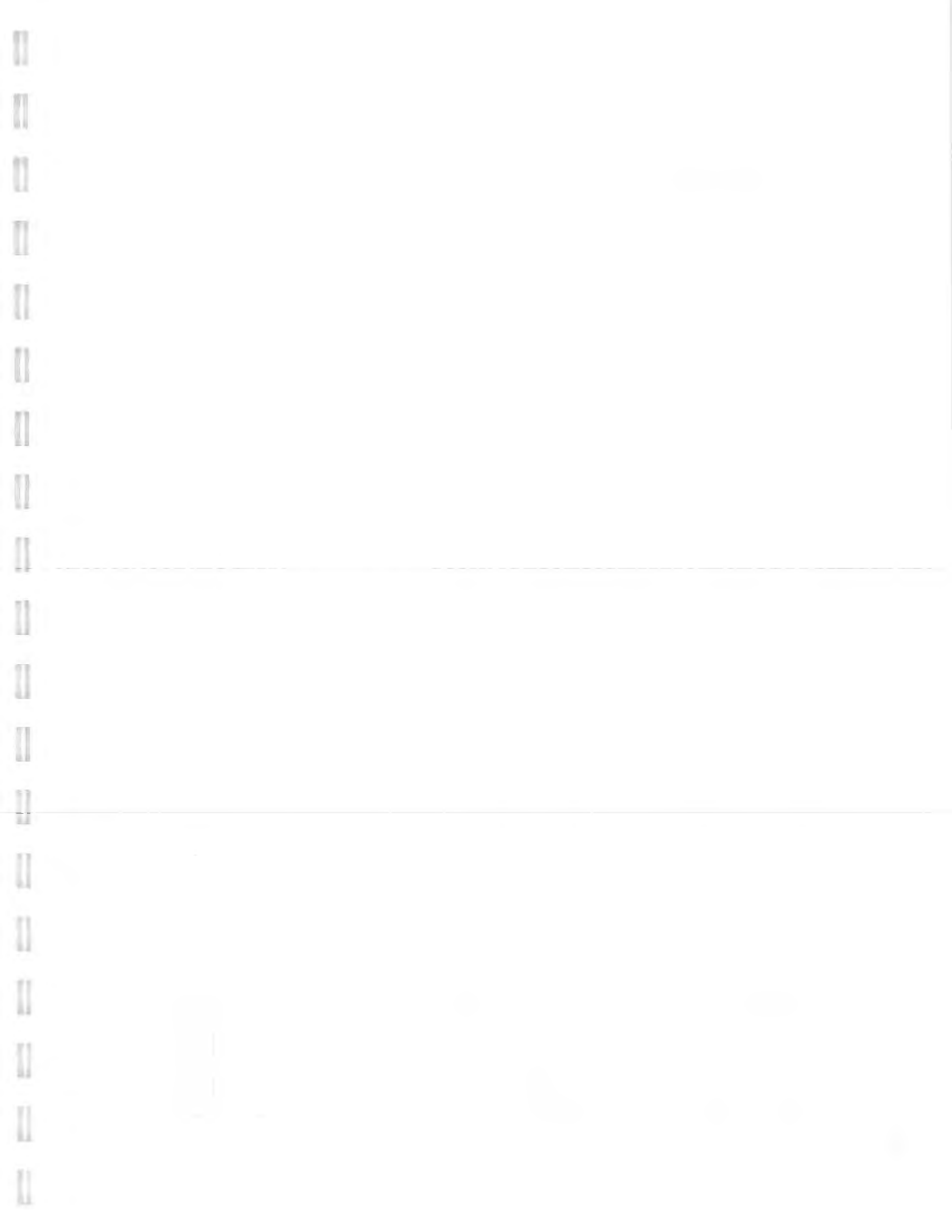
MW-30
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2
VOLATILE ORGANICS		NYSCLP	NYSCLP	NYSCLP				524.2		524.2	524.2	524.2	524.2	524.2	524.2	524.2
Chloromethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	0.3	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	0.8	-	-	0.6	-	-	0.7	1	1	1	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0.8	0	0	0.6	0	0	0.7	1	1	1.3	0	0	0



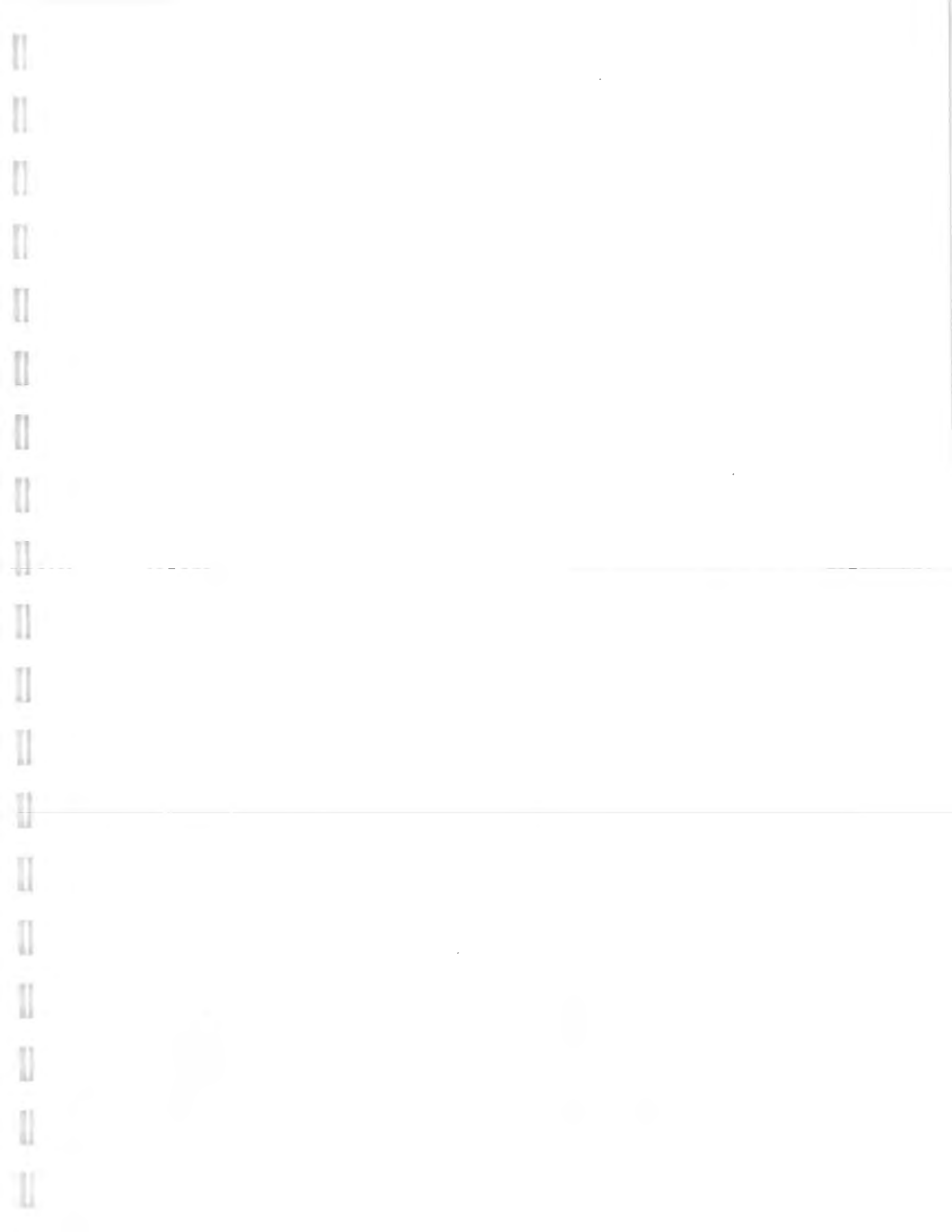
MW-30
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.06	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Arsenic	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	0.0019	-	-
Barium	mg/L	-	-	-	-	-	0.054	ND	-	-	0.049	-	-	0.0678	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00043	-	-
Cadmium	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	ND	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	119	-	-
Chromium	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	ND	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0041	-	-
Iron	mg/L	-	-	-	-	-	7.08	ND	-	-	3.92	-	-	0.682	-	-
Lead	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	0.0025	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.356	-	-
Mercury	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	0.00007	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Potassium	mg/L	-	-	-	-	-	2.38	ND	-	-	2.36	-	-	1.67	-	-
Selenium	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	ND	-	-
Silver	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	ND	-	-
Sodium	mg/L	-	-	-	-	-	15.8	ND	-	-	16.5	-	-	18.2	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0189	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	ND	-
Chloride	mg/L	-	-	-	-	-	26.6	-	-	-	32.5	-	-	28	28	-
Conductivity (field)	µmhos/cm	420	390	-	660	620	420	-	-	850	720	760	-	410	365	600
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	645	-	-	689	630	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	ND	-	-	0.13	0.35	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	0.05	-	-	-	-	-	-	0.13	-	-
pH (Lab)	std. units	-	-	-	-	-	7.3	-	-	-	7.4	-	-	7.29	7.24	-
pH (field)	std. units	6.9	7.11	7.27	7.3	7.15	8.03	-	-	7.25	7.14	7.12	-	7.14	7.4	7.81
Sulfate	mg/L	-	-	-	-	-	35.7	-	-	-	88.4	-	-	57	39	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	13.6	-	-	-	2	-	-	1.9	2	-
Temperature (field)	Celsius	6	4	16	15	6	5	-	-	10	5	12	-	4	5	14.4
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	>200	90	-



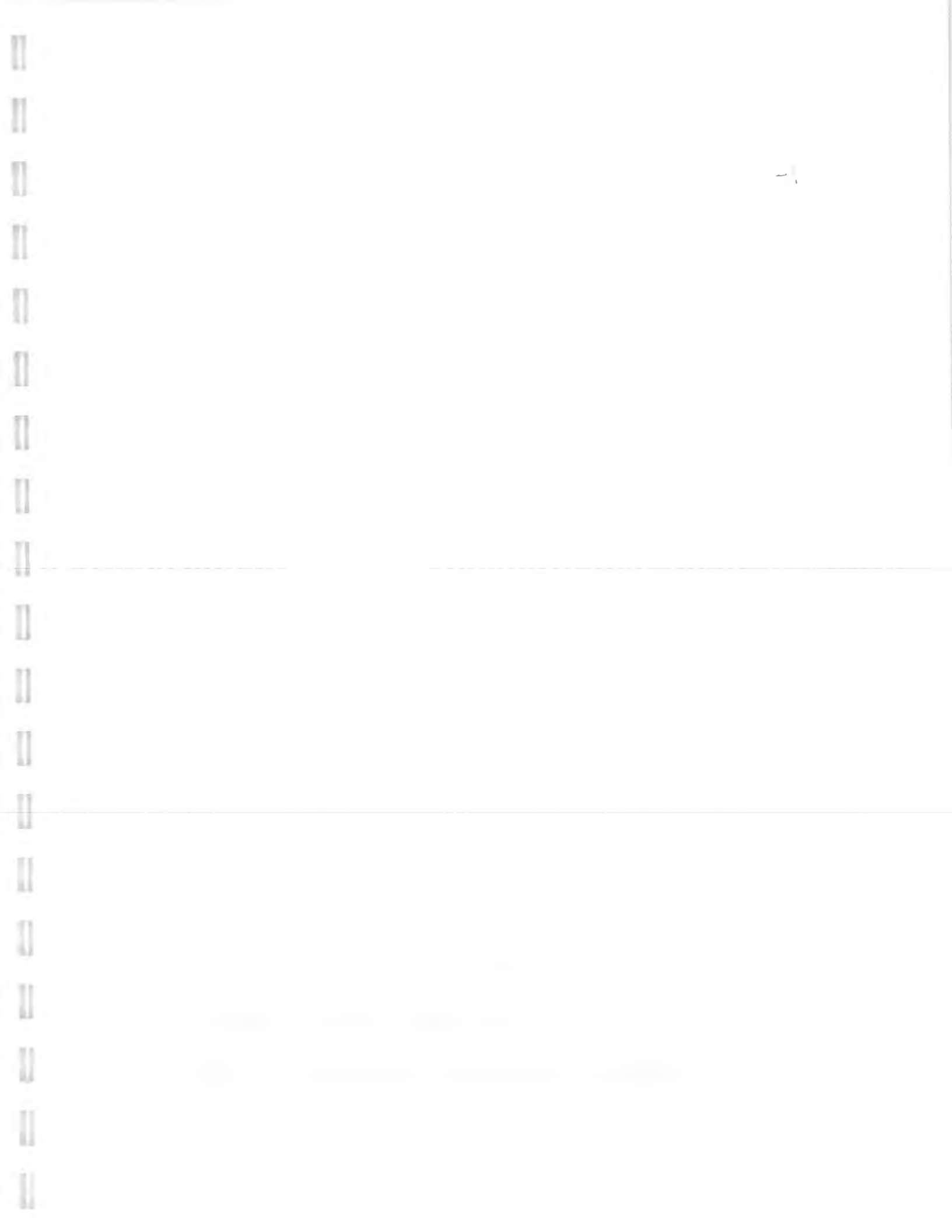
MW-30
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	
METALS																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISCELLANEOUS																	
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0008	<0.0012	<0.0012
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	0	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.8	2.5
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	345	305	305
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	266	264	300
Total Organic Halogens/Halides (TOX)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	28	29	-	-	-	-	-	-	-	-	-	-	-	32.4	26.4	33.1
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	760	600	-	-	-	-	-	-	-	-	-	-	-	586	599	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.26	0.19	-	-	-	-	-	-	-	-	-	-	-	0.07	0.12	0.16
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.25	7.27	-	-	-	-	-	-	-	-	-	-	-	6.82	6.97	6.97
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	57	32	-	-	-	-	-	-	-	-	-	-	-	47.7	42.2	46.1
Total Organic Carbon (TOC)	mg/L	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



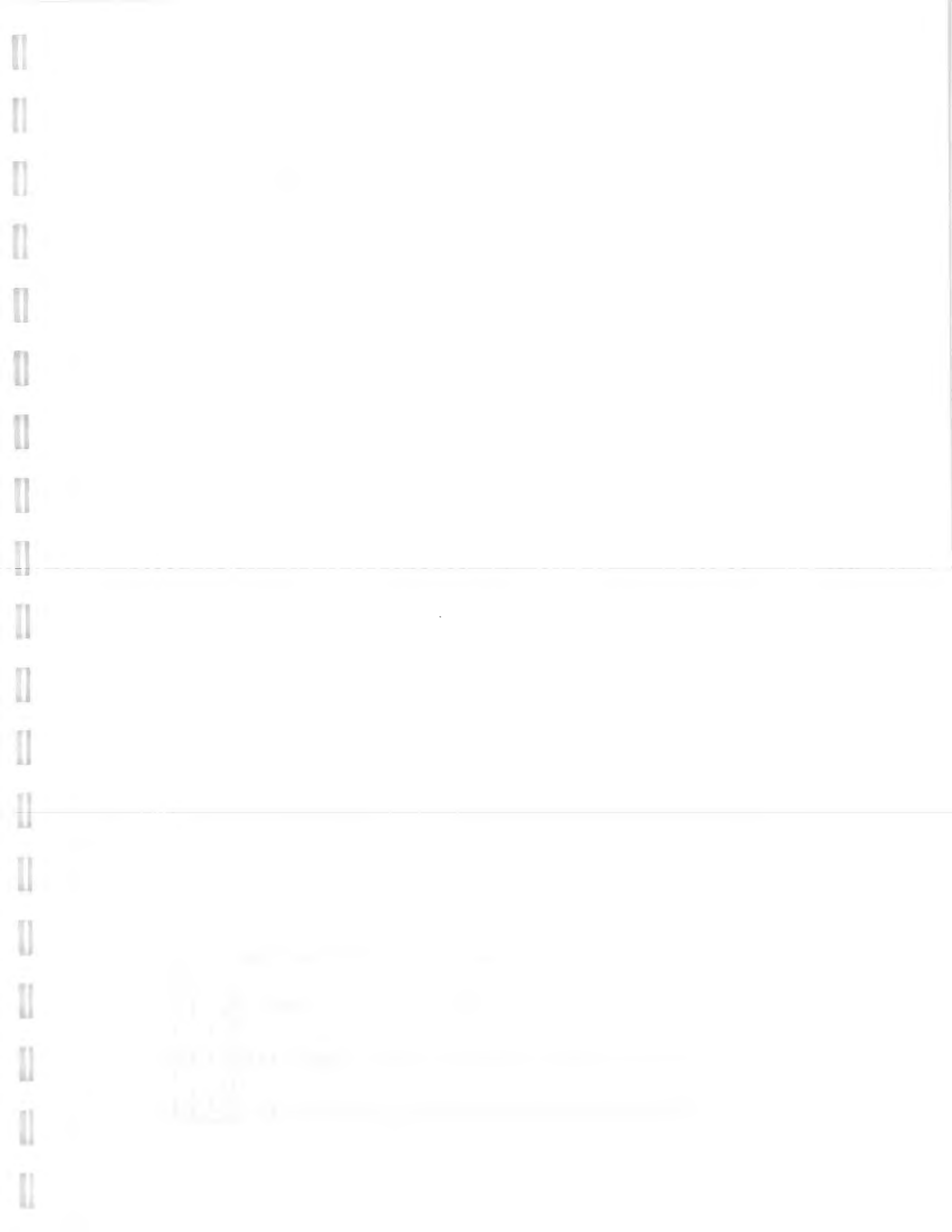
MW-36
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	Apr 1993	Jun 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
VOLATILE ORGANICS														NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromomethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Vinyl Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methylene Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,1-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Tetrachloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromodichloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloropropane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Trichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Dibromochloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Benzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromoform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Tetrachloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Toluene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



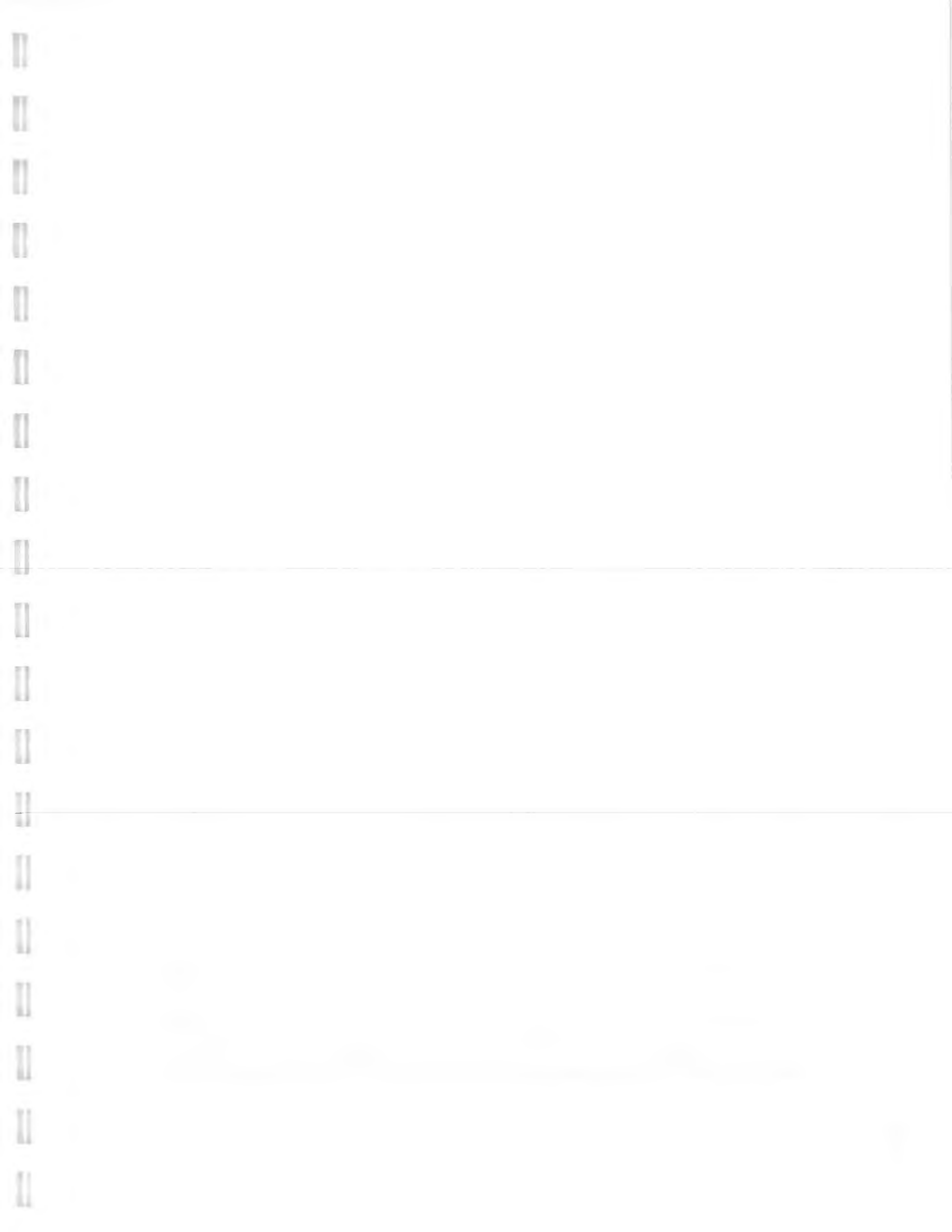
MW-36
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2
VOLATILE ORGANICS		NYSLCP	NYSLCP	NYSLCP	NYSLCP	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
Chloromethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0



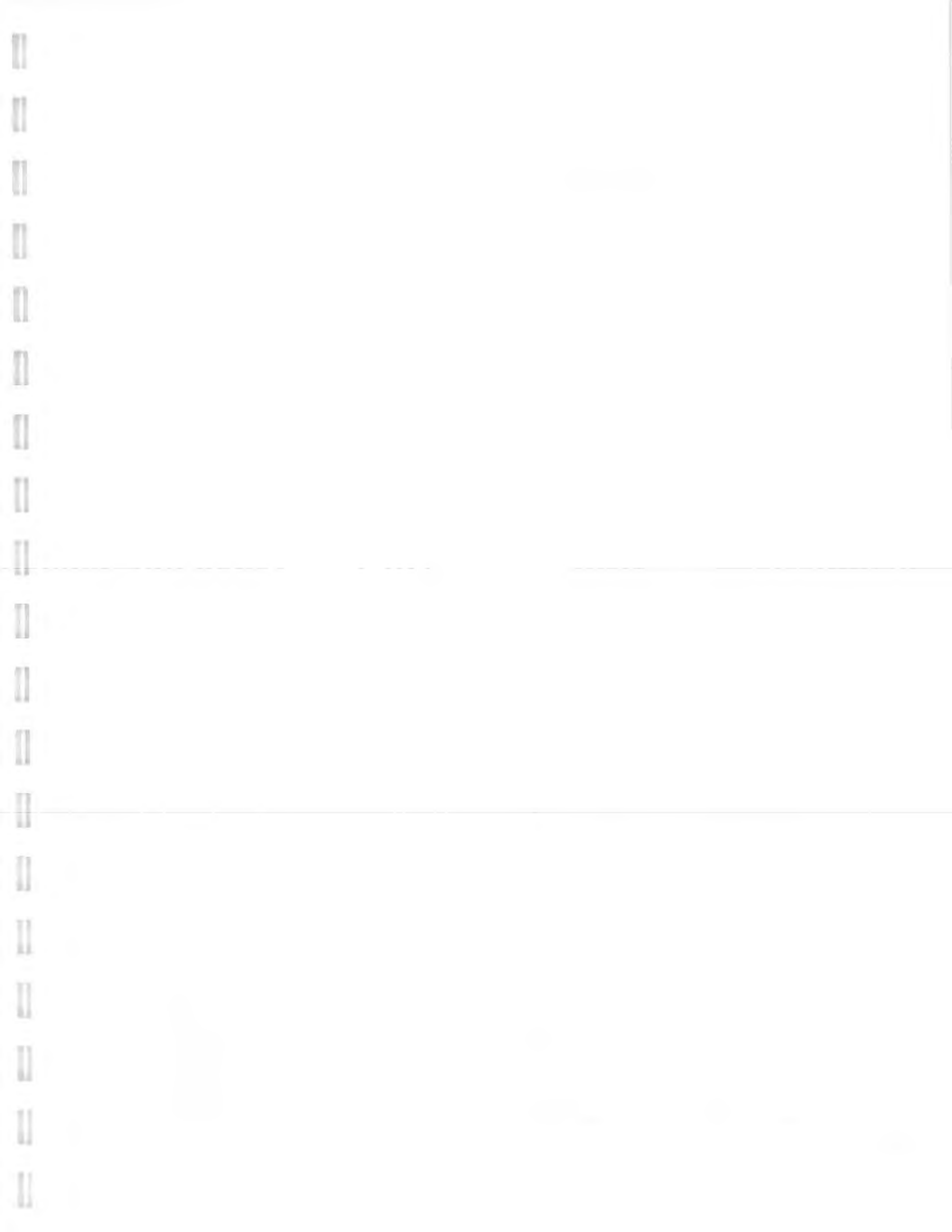
MW-36
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	Apr 1993	Jun 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.836	-	1250.00
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.107	-	78.30
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	0.32
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	163	-	133000.0
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0076	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0029	-	4.8
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.772	-	1690.0
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0019	-	1.6
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	23.5	-	18300.0
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.517	-	127.0
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.79	-	2110.0
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	3.3
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	21.3	-	22100.0
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	4.0
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0137	-	18.3
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	35	29	29.00
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	500	470	525.00
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	8070	760	750.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	3.4	2.5	1.70
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	7.3	7.7	7.07
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	7	7.30	7.45
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	63	78	68.00
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1.0	2.00
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	7	7.50	12.70
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	185	9.80	>100



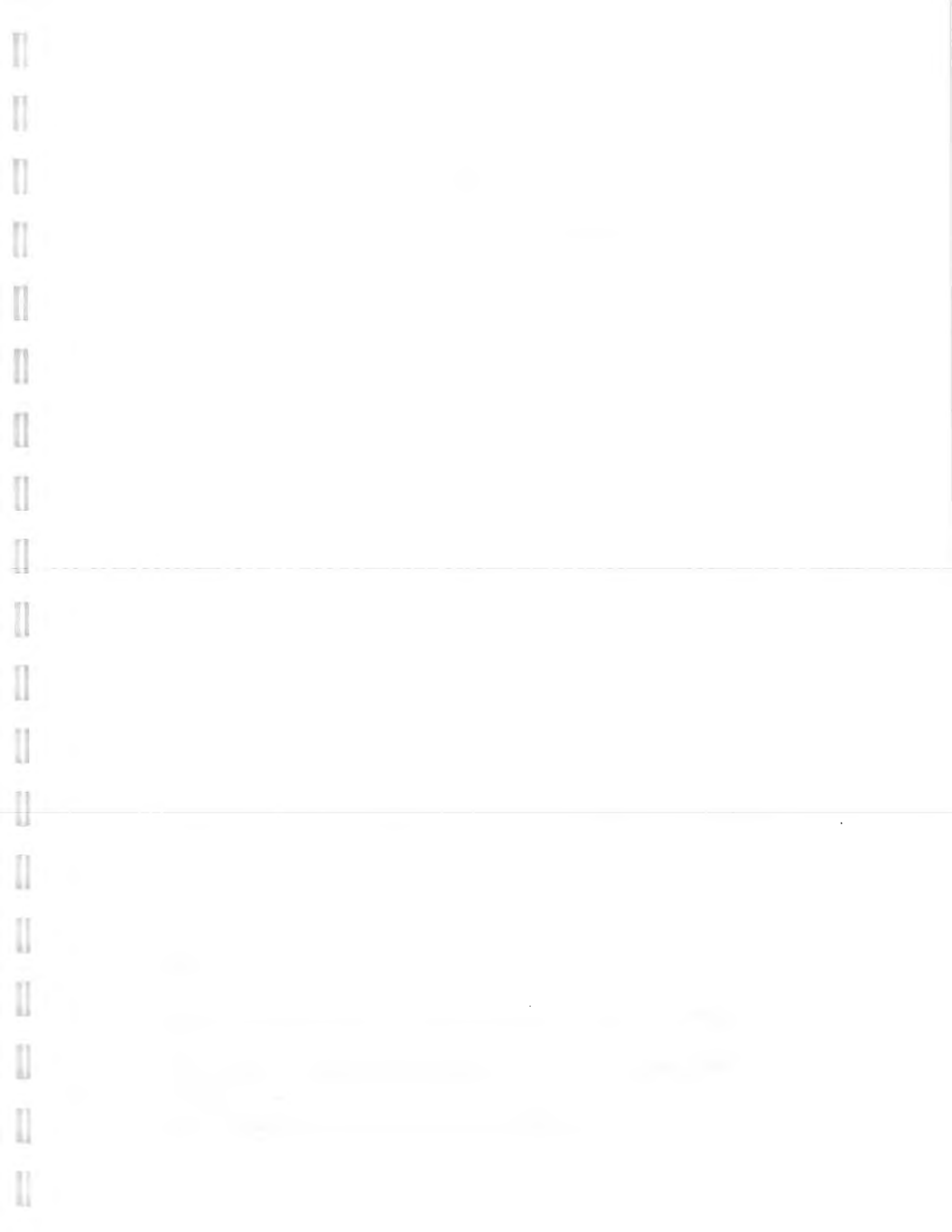
MW-36
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	
METALS																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISCELLANEOUS																	
Ethene	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	<0.0021	<0.0021	<0.0012	
CO2	mg/L	-	-	-	-	-	-	-	270	-	-	-	-	-	-	-	
Ferrous Iron	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	0	0.03	-	
Sulfide	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	
DOC	mg C/L	-	-	-	-	-	-	-	1.8	-	-	-	-	1.2	1.7	1.5	
Redox Potential	mV	-	-	-	-	-	-	-	379.3	-	-	-	-	330	296	305	
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	273	-	-	-	-	336	308	308	
Total Organic Halogens/Halides (Chloride)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloride	mg/L	27	37	-	-	-	-	-	48.8	-	-	-	-	28.9	29.9	30.6	
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Conductivity (lab)	µmhos/cm	550	990	-	-	-	-	-	706	-	-	-	-	772	735	723	
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	
Nitrate/Nitrite Nitrogen	mg/L	0.62	1.1	-	-	-	-	-	-	-	-	-	-	0.74	0.87	1.2	
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	
pH (Lab)	std. units	7.37	7.27	-	-	-	-	-	7.25	-	-	-	-	6.77	6.85	6.96	
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfate	mg/L	30	70	-	-	-	-	-	62.6	-	-	-	-	62.4	70.3	62.8	
Total Organic Carbon (TOC)	mg/L	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



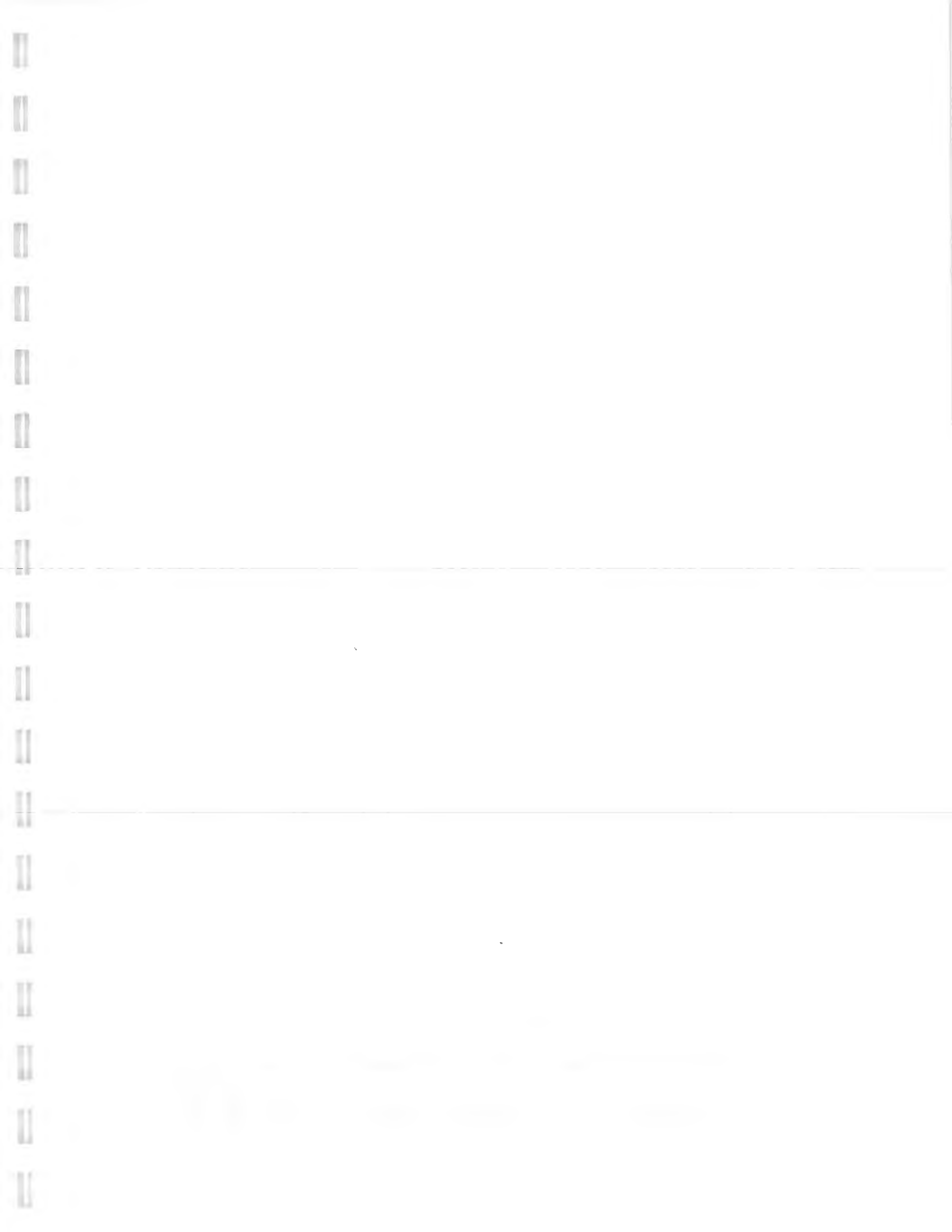
MW-40
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	Jan 1993 1	Apr 1993 2	Jun 1993 3
VOLATILE ORGANICS														NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromomethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Vinyl Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methylene Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	2	ND
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,1-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Tetrachloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromodichloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloropropane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Trichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Dibromochloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Benzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromoform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Tetrachloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Toluene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	2.00	0.00



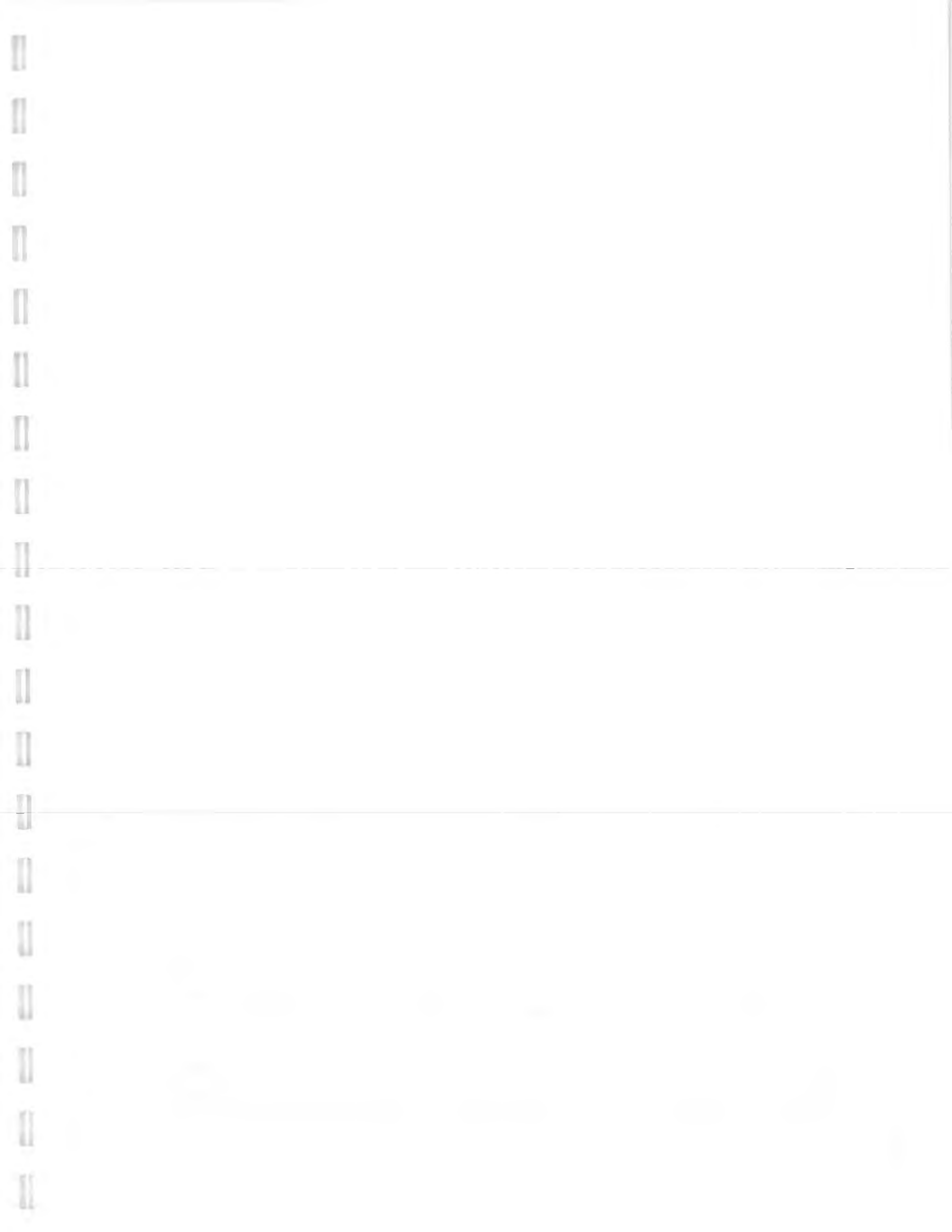
MW-40
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES		
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997		
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2		
VOLATILE ORGANICS		NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2		
Chloromethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromomethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



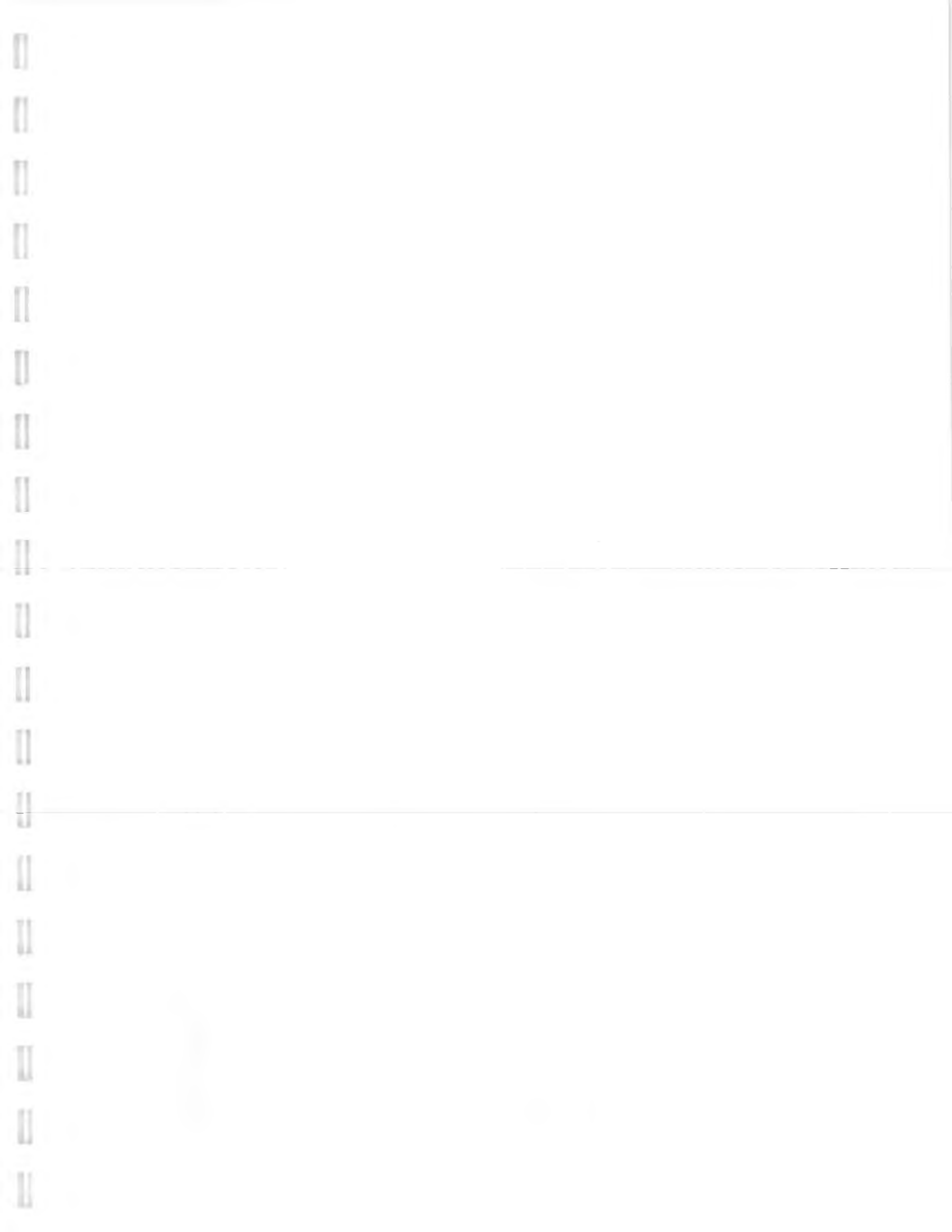
MW-40
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	Apr 1993	Jun 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	13.5	-	747.00
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0021	-	ND
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.153	-	58.20
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00077	-	ND
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	160	-	104000.00
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0347	-	4.40
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0099	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.009	-	ND
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	19.8	-	1140.00
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.005	-	1.00
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	19	-	11500.00
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.905	-	40.80
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00009	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0281	-	ND
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	4.54	-	1740.00
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	23	-	15100.00
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	1.20
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0184	-	5.00
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.309	-	10.90
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	0.02
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	5.9	4	6.00
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	435	390	450.00
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	643	610	570.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.004	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.11	ND	0.25
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.106	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	7.49	7.29	7.21
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.82	7.24	7.88
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	93	95	100.00
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.3	ND	2.00
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	7.3	6.00	11.80
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	150	6.20	>100



MW-40
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	0.0033	<0.0012	<0.0012
CO2	mg/L	-	-	-	-	-	-	221	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	0.01	0.14	0.26
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	1.4	-	-	-	-	-	0.9	1.1	1.8
Redox Potential	mV	-	-	-	-	-	-	362.3	-	-	-	-	-	309	304	317
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	217	-	-	-	-	-	249	236	240
Total Organic Halogens/Halides (TOX)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	6	5	-	-	-	-	12.5	-	-	-	-	-	7.7	7.6	8.6
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	560	590	-	-	-	-	486	-	-	-	-	-	566	525	566
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.13	0.15	-	-	-	-	0.13	-	-	-	-	-	0.05	0.05	0.06
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.43	7.41	-	-	-	-	7.41	-	-	-	-	-	7.12	7.16	7
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	59	75	-	-	-	-	56.7	-	-	-	-	-	56	57.2	59.7
Total Organic Carbon (TOC)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



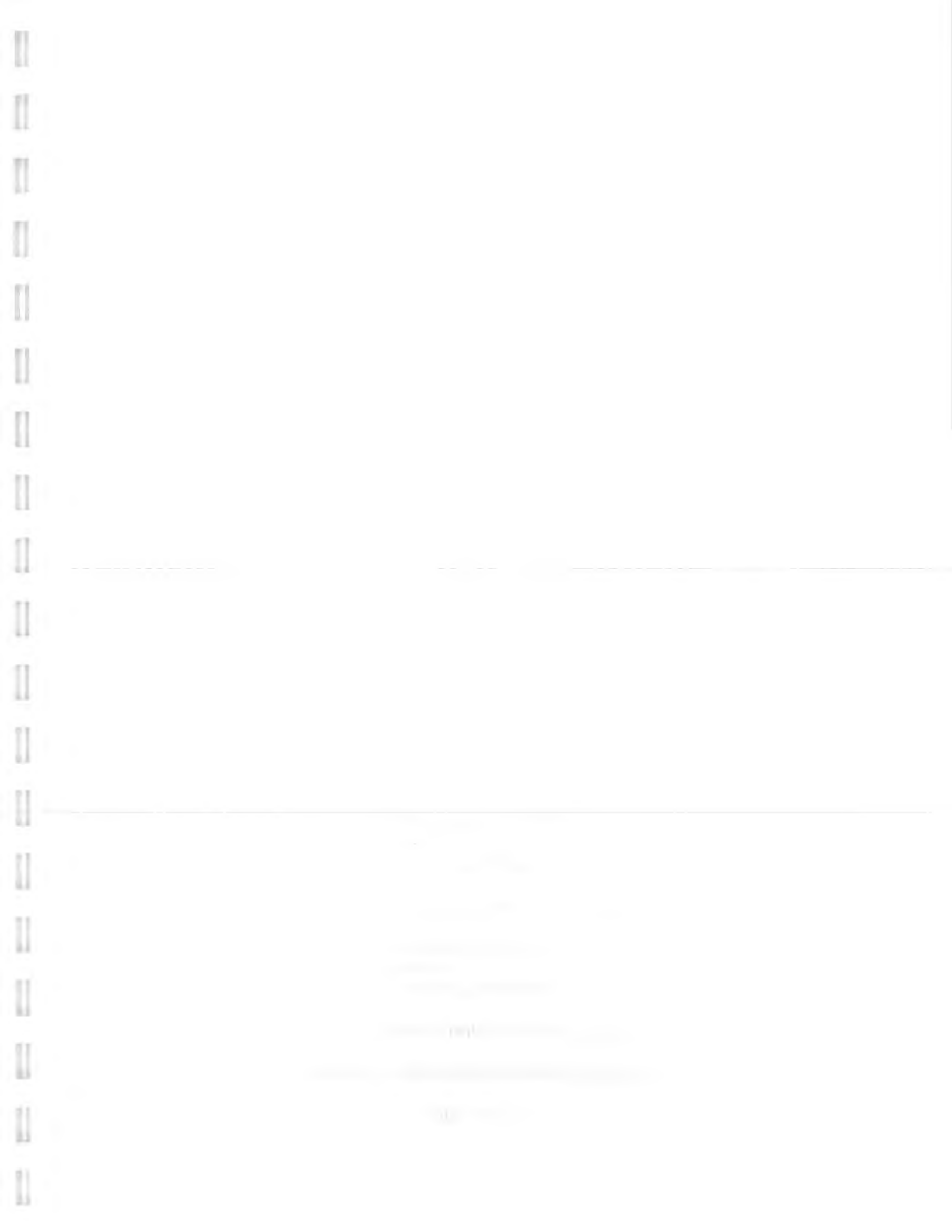
APPENDIX C

Laboratory Analytical Packages with QA/QC Data

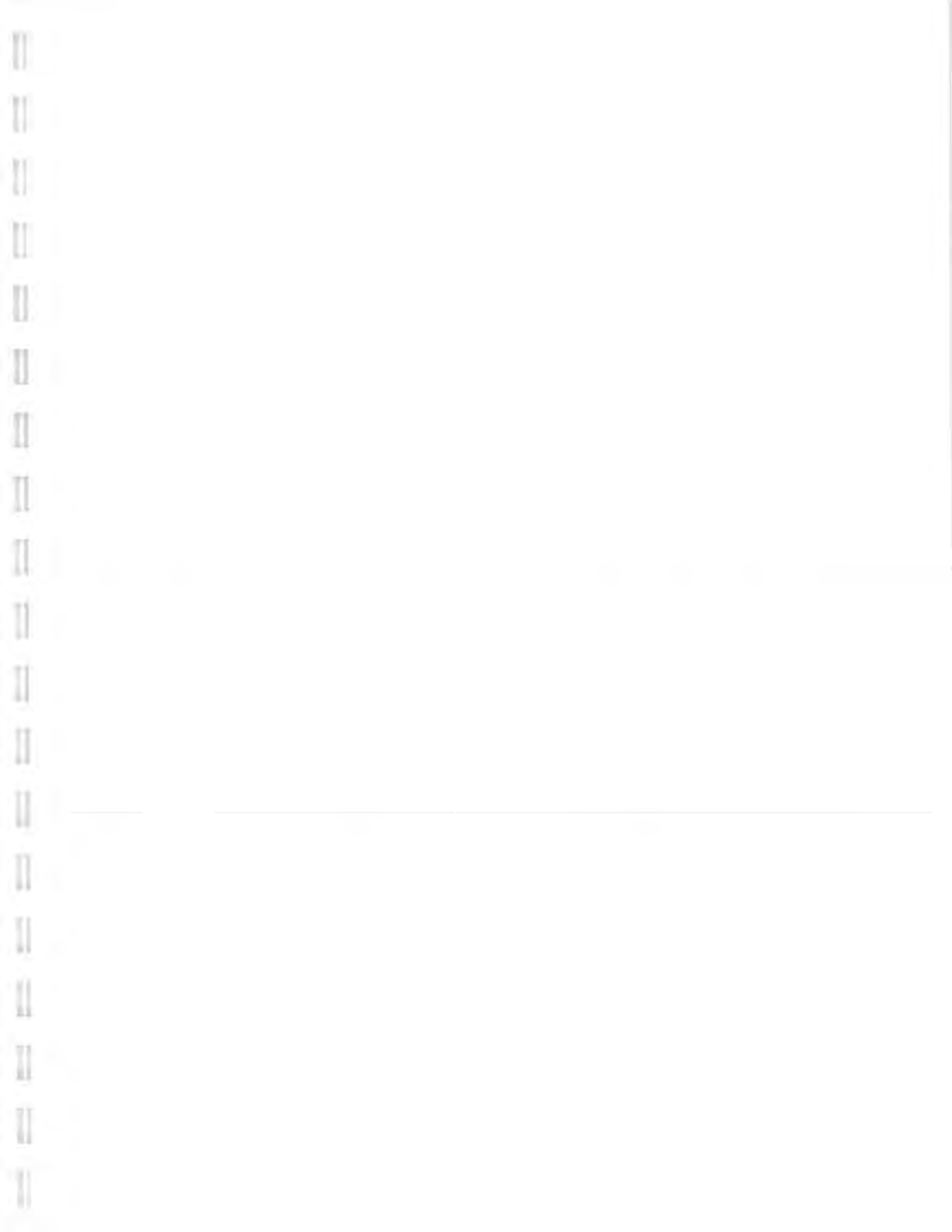
- 1. Sample Delivery Group No. 65533**
 - A. Indicator Parameters**
 - B. Metals**
 - C. TCLVolatile Organics**

- 2. Sample Delivery Group No. 65491**
 - A. Indicator Parameters**
 - B. Metals**
 - C. Volatile Organics (524.2)**

- 3. Evergreen Analytical**
 - A. Methane, Ethane, Ethene**



1. Sample Delivery Group No. 65533





Intertek Testing Services Environmental Laboratories

July 25, 1997

Mr. Mike Duchesneau
Parsons Engineering Science
Prudential Center
Boston, MA 02199

Re: Laboratory Project No. 93206
Case No. 93206; SDG 65533

Dear Mr. Duchesneau:

Enclosed are the analytical results of samples received intact by ITS Environmental Laboratories on June 26, 1997. Laboratory numbers and quality control samples have been assigned and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
	Received: 06/26/97	ETR No: 65533	
334444	AL124	06/24/97	Water
334445	AL124F	06/24/97	Filtrate
334445R1	AL124F	06/24/97	Filtrate
334445R2	AL124F	06/24/97	Filtrate
334445R3	AL124F	06/24/97	Filtrate
334446	AL123	06/24/97	Water
334447	AL123F	06/24/97	Filtrate
334447R1	AL123F	06/24/97	Filtrate
334447R2	AL123F	06/24/97	Filtrate
334447R3	AL123F	06/24/97	Filtrate
334448	AL119	06/24/97	Water
334449	AL119F	06/24/97	Filtrate
334449R1	AL119F	06/24/97	Filtrate
334449R2	AL119F	06/24/97	Filtrate
334449R3	AL119F	06/24/97	Filtrate
334450	AL120	06/24/97	Water
334451	AL120F	06/24/97	Filtrate
334451R1	AL120F	06/24/97	Filtrate
334451R2	AL120F	06/24/97	Filtrate
334451R3	AL120F	06/24/97	Filtrate
334452	AL125	06/24/97	Water
334453	AL125F	06/24/97	Filtrate

Intertek Testing Services NA Inc.
55 South Park Drive Colchester, VT 05446
Telephone (802) 655-1203 Fax (802) 655-1248

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3. *[Faint text]*

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ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ
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ԿԵՆՏՐՈՆ

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 06/26/97 ETR No: 65533 (Continued)			
334453R1	AL125F	06/24/97	Filtrate
334453R2	AL125F	06/24/97	Filtrate
334453R3	AL125F	06/24/97	Filtrate
334454	AL122	06/24/97	Water
334454MS	AL122MS	06/24/97	Water
334454MD	AL122MSD	06/24/97	Water
334454DP	AL122REP	06/24/97	Water
334455	AL122F	06/24/97	Filtrate
334455R1	AL122F	06/24/97	Filtrate
334455R2	AL122F	06/24/97	Filtrate
334455R3	AL122F	06/24/97	Filtrate
334456	AL121	06/24/97	Water
334457	AL129EV	06/23/97	Water
334458	AL118	06/23/97	Water
334459	AL117	06/23/97	Water
334460	HB	06/26/97	Water

A serial dilution was performed on sample AL124 during ICP metals analysis. All elements were within the recommended control limits.

Documentation of sample handling and preparation is included F or the benefit of interested parties at the end of the "Sample Data Package." Colored sheets of paper entitled "Sample Preparation" and "Sample Handling" have been used to explicitly mark the location of these documents.

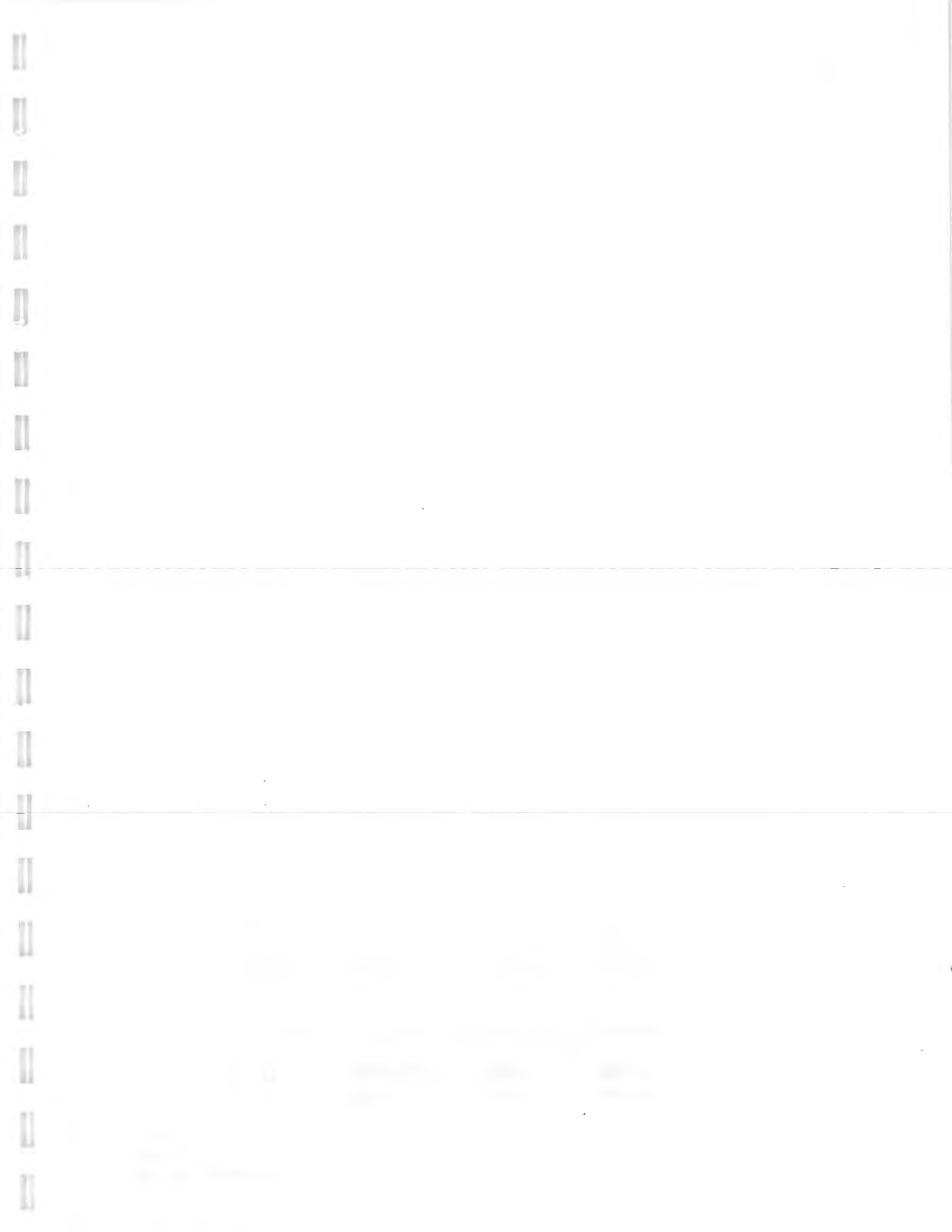
If there are any questions regarding this submittal, please contact Christopher A. Ouellette at (802) 655-1203.

Sincerely,



Deborah A. Loring
Laboratory Manager

DAL/cga
Enclosure





Intertek Testing Services Environmental Laboratories

Metals Qualifiers

- E (furnace)- Analytical cup spike recovery is less than 40%. An explanatory note is included on the specific form to which this applies.
- E (ICP)- The reported value is estimated because of the presence of interference.
- M- Duplicate injection precision is not met.
- N- Matrix spiked sample recovery not within control limits.
- S- The reported value was determined by the Method of Standard Additions.
- + Correlation coefficient for the MSA is less than 0.995.
- W- Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample concentration is less than 50% of spike concentration.
- *- Duplicate analysis not within control limits.

Concentration Qualifiers

- B- Entered if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).
- U- Entered if the analyte was analyzed for but not detected, less than IDL.

Method Qualifiers

- P- for ICP
- F- for Furnace AA
- CV- for Manual Cold Vapor AA
- AS- for Semi-automated Spectrophotometric
- NR- if the analyte is not required to be analyzed

Sample Calculations

Liquids

$$C_{(mg/L)} = \frac{ug}{L_{dig}} \cdot \frac{V_{dig}}{V_{samp}}$$

Solids

$$C_{(mg/kg)} = \frac{ug}{L_{dig}} \cdot \frac{V_{dig}}{g_{samp}} \cdot \frac{100}{\% \text{ solids}}$$

Where:

ug/L_{dig} = result including all dilution factors

V_{dig} = final distillate volume in Liters

g_{samp} = sample weight in grams

V_{samp} = sample volume in Liters



Intertek Testing Services

Environmental Laboratories

The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectrometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

- A= The reported Tentatively Identified Compound (TIC) is a suspected aldol-condensation product.
- B= The reported analyte was detected in the associated method blank as well as the sample.
- C= Compound identified in an analysis which occurred at a dilution.
- E= Compound quantitation is above the instrument's calibration range for this analysis.
- J= Indicated an estimated quantitation value below reporting limit.
- U= Compound was analyzed for but not detected.
- X= The reported compound is a suspected laboratory contaminant.
- Y= An additional qualifier which will be defined at the time of use by the data reviewer.
- Z= The reported result is based on the combined responses from coeluting compounds.

CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01003
PROJECT SEDA - 2nd quarter monitor - ASH
CONTACT Mike Duchesneau

LABORATORY ITS
ADDRESS 55 So. Park Drive Colchester VT
CONTACT Chris Ouellette

000005

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		(ft) TOC SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES											NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	Select METALS*	PEST/PCB	CN	HERB	TPH	Alk. Sulf. Color	Nitrate Nitrite	DOC				
AL124		6/24/97	1305	9.0	water	✓		✓							✓	✓	✓	8	
AL123		6/24/97	1115	10.0	↓	✓									✓	✓	✓	7	
AL119		6/24/97	1810	10.0 ^{8.5}		✓		✓							✓	✓	✓	8	
AL120		6/24/97	1810	10.0 ^{8.5}		✓		✓							✓	✓	✓	8	
AL125		6/24/97	1622	10.0		✓		✓							✓	✓	✓	8	
AL122		6/24/97	1945	10.0		✓									✓	✓	✓	7	
AL122MS		6/24/97	1945	10.0		✓												3	Matrix Spike
AL122MSD		6/24/97	1945	10.0		✓												3	Matrix Spike Dup
AL121		6/24/97	1500	N/A		✓												3	rinsate
AL127		6/23/97	0800	N/A		✓												2	trip blank
AL118		6/23/97	1033	18.0		✓												3	
AL117		6/23/97	1516	10.0	✓												3		

Sampled and Relinquished by
Sign Annika Willis
Print Annika Willis
Firm PARSONS ES
Date 6/25/97 Time 1400

Received by SICM
Sign Shannon Minor
Print Shannon Minor
Firm ITS
Date 6/26/97 Time 0930

VOA Vial	X																	X	
Glass Bottle																			
Plastic Bottle						X							X	X					
Preservative	A	C				A	D						A	A	E	A	E		
Container Volume	40	ML				1	L						1	520	40	ML	ML		

REMARKS: (Sample storage, nonstandard sample bottles)
Select Metals analysis only (Pb, Mn, Cr, Cd, Ni)

Relinquished by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic
A - Ice D - Acidified with HNO₃ G - Other
B - Filtered E - Acidified with H₂SO₄

Evidence Samples tampered with? No Yes
If Yes, explain in remarks.

Cooler #: 19

To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Lab Sample Code	Analytical Requirements*					
		*VOA GC/MS	BNA GC/MS	*VOA GC	*Pest PCB	*METALS	*OTHER
AL124	334444	✓				✓	✓
AL124F	334445						✓
AL123	334446	✓					✓
AL123F	334447						✓
AL119	334448	✓				✓	✓
AL119F	334449						✓
AL120	334450	✓				✓	✓
AL120F	334451						✓
AL125	334452	✓				✓	✓
AL125F	334453						✓
AL122	334454	✓					✓
AL122MS	334454MS	✓					
AL122MS	334454MS	✓					
AL122F	334455						✓
AL121	334456	✓					
AL129EV	334457	✓					
AL118	334458	✓					
AL117	334459	✓					

*Check Appropriate Boxes

*CLP, Non-CLP (Please indicate year of protocol)

*HSL, Priority Pollutant

c/mydoc/nys sample id

000006

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY

INORGANIC ANALYSES

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE ANALYZED
334444	water	Pb, Mn, Cr, Cd, Ni	6/26/97	7/21/97
334448	"	↓	↓	↓
334450	"	↓	↓	↓
334452	"	↓	↓	↓

c/mydoc/nys sample prep

000007

SAMPLE PREPARATION AND ANALYSIS SUMMARY

VOA ANALYSES

LAB SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	LOW LEVEL MED. LEVEL	DATE ANALYZED
334444	water	6/24/97	6/26/97	Low	6/30/97
334446	"			"	"
334448	"			"	"
334450	"			"	"
334452	"			"	"
334454	"			"	"
334454MS	"			"	"
334454MD	"			"	"
334456	"	✓		"	"
334457	"	6/23/97		"	"
334458	"	"		"	"
334459	"	"	✓	"	"

CMYDOC/VOA

000003

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS FORM

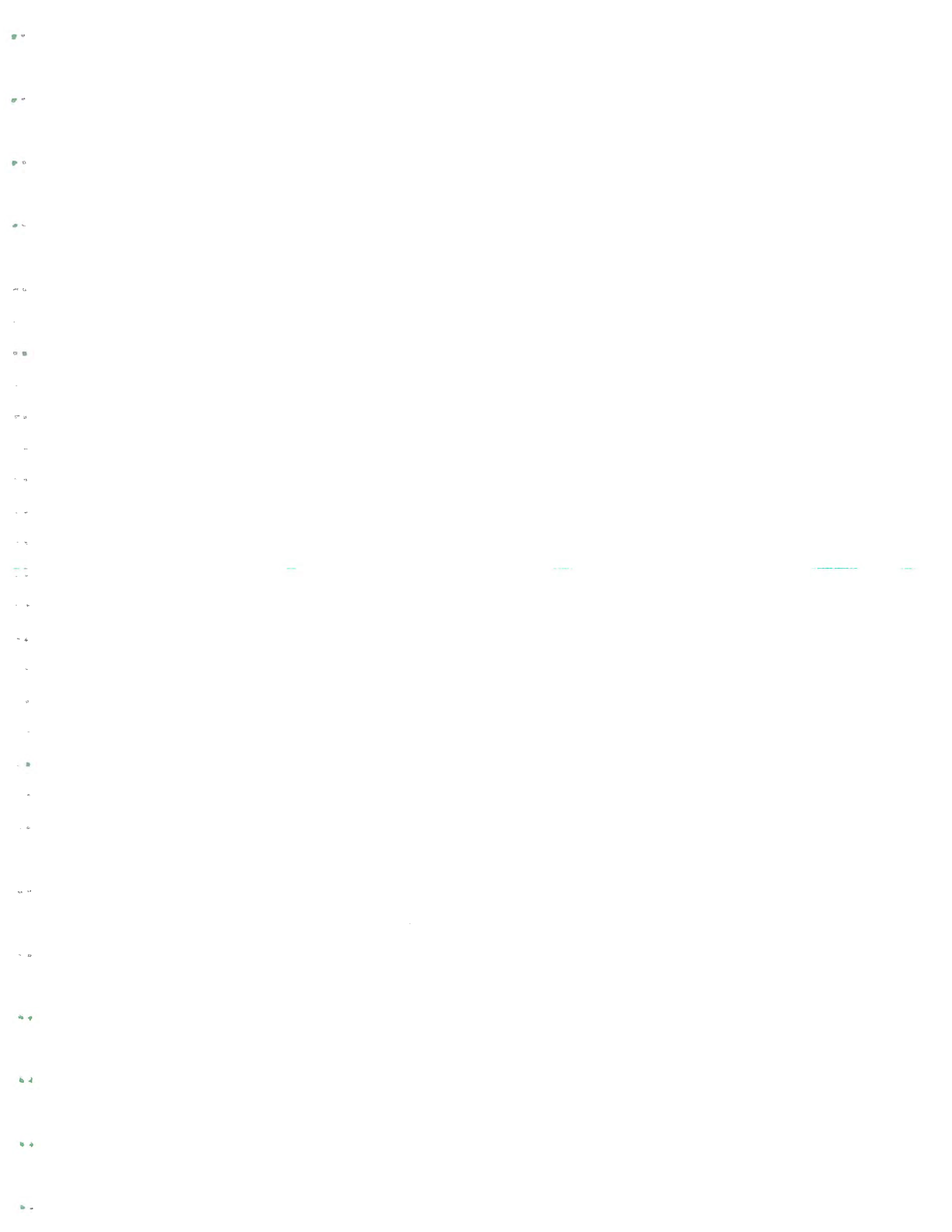
VOA ORGANIC ANALYSES

SAMPLE ID	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILARY CLEAN UP	DIL/CONC FACTOR
334404	water	OLMNY	n/a	n/a	28.1
334446					16.7
334449					1.0
334450					1.0
334452					5.6
334454					1.0
334454M					1.0
334454MD					1.0
334456					1.0
334457					1.0
334458					1.0
334459	✓	✓	✓	✓	1.0

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ANALYTICAL RESULTS





Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Date : 07/18/97
ETR Number : 65533
Project No.: 93206
No. Samples: 39
Arrived : 06/26/97
P.O. Number: 730769000003

Attention : Mike Duchesneau

Page 1

Case:93206 SDG:65533

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
334444	AL124:06/24/97 (Water)	
353.2	Nitrate/Nitrite Nitrogen	0.05
310.1	Alkalinity (as CaCO3)	516
300.0	Chloride	23.2
300.0	Sulfate	196
334445	AL124F:06/24/97 (Filtrate)	
9060	Total Organic Carbon	5.5
334445R1	AL124F:06/24/97 (Filtrate)	
9060	Total Organic Carbon	5.2
334445R2	AL124F:06/24/97 (Filtrate)	
9060	Total Organic Carbon	5.6
334445R3	AL124F:06/24/97 (Filtrate)	
9060	Total Organic Carbon	5.6
334446	AL123:06/24/97 (Water)	
353.2	Nitrate/Nitrite Nitrogen	0.04
310.1	Alkalinity (as CaCO3)	344
300.0	Chloride	169
300.0	Sulfate	456
334447	AL123F:06/24/97 (Filtrate)	
9060	Total Organic Carbon	2.9
334447R1	AL123F:06/24/97 (Filtrate)	
9060	Total Organic Carbon	2.9

< Cont. Next Page >

000010



Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Date : 07/18/97
ETR Number : 65533
Project No.: 93206
No. Samples: 39
Arrived : 06/26/97
P.O. Number: 730769000003

Attention : Mike Duchesneau

Page 2

Case:93206 SDG:65533

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
334447R2 AL123F:06/24/97 (Filtrate) 9060	Total Organic Carbon	2.9
334447R3 AL123F:06/24/97 (Filtrate) 9060	Total Organic Carbon	2.9
334448 AL119:06/24/97 (Water)		
353.2	Nitrate/Nitrite Nitrogen	1.5
310.1	Alkalinity (as CaCO3)	308
300.0	Chloride	65.3
300.0	Sulfate	204
334449 AL119F:06/24/97 (Filtrate) 9060	Total Organic Carbon	2.1
334449R1 AL119F:06/24/97 (Filtrate) 9060	Total Organic Carbon	2.1
334449R2 AL119F:06/24/97 (Filtrate) 9060	Total Organic Carbon	2.1
334449R3 AL119F:06/24/97 (Filtrate) 9060	Total Organic Carbon	2.0
334450 AL120:06/24/97 (Water)		
353.2	Nitrate/Nitrite Nitrogen	1.1
310.1	Alkalinity (as CaCO3)	332
300.0	Chloride	64.3
300.0	Sulfate	198

< Cont. Next Page >

000011



Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Date : 07/18/97
ETR Number : 65533
Project No.: 93206
No. Samples: 39
Arrived : 06/26/97
P.O. Number: 730769000003

Attention : Mike Duchesneau

Page 3

Case:93206 SDG:65533

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
334451	AL120F:06/24/97 (Filtrate) 9060 Total Organic Carbon	2.1
334451R1	AL120F:06/24/97 (Filtrate) 9060 Total Organic Carbon	2.1
334451R2	AL120F:06/24/97 (Filtrate) 9060 Total Organic Carbon	2.1
334451R3	AL120F:06/24/97 (Filtrate) 9060 Total Organic Carbon	2.1
334452	AL125:06/24/97 (Water) 353.2 Nitrate/Nitrite Nitrogen 310.1 Alkalinity (as CaCO3) 300.0 Chloride 300.0 Sulfate	0.02 160 514 943
334453	AL125F:06/24/97 (Filtrate) 9060 Total Organic Carbon	10.1
334453R1	AL125F:06/24/97 (Filtrate) 9060 Total Organic Carbon	10.2
334453R2	AL125F:06/24/97 (Filtrate) 9060 Total Organic Carbon	10.0
334453R3	AL125F:06/24/97 (Filtrate) 9060 Total Organic Carbon	10.1

< Cont. Next Page >

000012

Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Date : 07/18/97
ETR Number : 65533
Project No.: 93206
No. Samples: 39
Arrived : 06/26/97
P.O. Number: 730769000003

Attention : Mike Duchesneau

Page 4

Case:93206 SDG:65533

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
334454	AL122:06/24/97 (Water)	
353.2	Nitrate/Nitrite Nitrogen	0.66
310.1	Alkalinity (as CaCO3)	324
300.0	Chloride	27.8
300.0	Sulfate	116
334454MS	AL122MS:[MS]06/24/97 (Water)	
353.2	Nitrate/Nitrite Nitrogen	1.5
310.1	Alkalinity (as CaCO3)	676
300.0	Chloride	64.6
300.0	Sulfate	305
334454DP	AL122REP:[REP]06/24/97 (Water)	
353.2	Nitrate/Nitrite Nitrogen	0.64
310.1	Alkalinity (as CaCO3)	332
300.0	Chloride	27.9
300.0	Sulfate	118
334455	AL122F:06/24/97 (Filtrate)	
9060	Total Organic Carbon	2.0
334455R1	AL122F:06/24/97 (Filtrate)	
9060	Total Organic Carbon	2.0
334455R2	AL122F:06/24/97 (Filtrate)	
9060	Total Organic Carbon	2.0
334455R3	AL122F:06/24/97 (Filtrate)	
9060	Total Organic Carbon	2.0

< Last Page >

Submitted By :

Maitha Roy

Aquatec Inc.

000013

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ITS_ENVIRONMENTAL Contract: 93206
Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.:65533
SOW No.: ILM02.1

Table with 2 columns: EPA Sample No. and Lab Sample ID. Rows include AL119, AL120, AL124, AL125 with corresponding IDs 334448, 334450, 334444, 334452.

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Martha Roy
Date: 7/24/97

Name: Martha Roy
Title: Chemist

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL119

Lab Name: ITS_ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix (soil/water): WATER Lab Sample ID: 334448

Level (low/med): LOW Date Received: 06/26/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.3	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	4.9	B		P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.6	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL120

I b Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

I-b Code: INCHVT Case No.: 93206_ SAS No.: _____ SDG No.: 65533_

Matrix (soil/water): WATER Lab Sample ID: 334450

I vel (low/med): LOW__ Date Received: 06/26/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.3	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	4.2	B		P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.6	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR__ Texture: _____

Color After: COLORLESS Clarity After: CLEAR__ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL124

Lab Name: ITS_ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix (soil/water): WATER Lab Sample ID: 334444

Level (low/med): LOW Date Received: 06/26/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.3	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	473			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.6	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL125

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: 93206_ SAS No.: _____ SDG No.: 65533_

Matrix (soil/water): WATER Lab Sample ID: 334452

Level (low/med): LOW_ Date Received: 06/26/97

% Solids: ___0.0

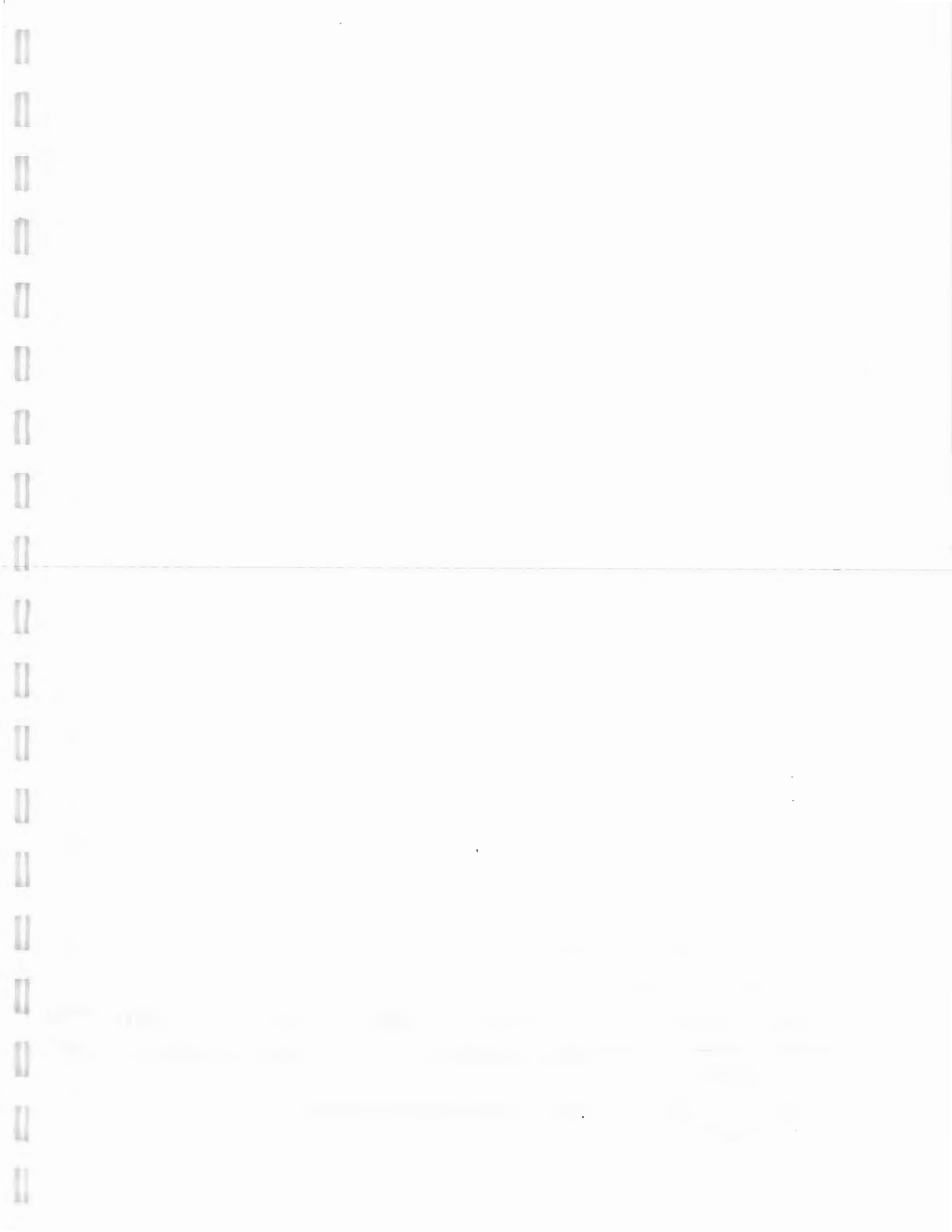
Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum		-		NR
7440-36-0	Antimony		-		NR
7440-38-2	Arsenic		-		NR
7440-39-3	Barium		-		NR
7440-41-7	Beryllium		-		NR
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium		-		NR
7440-47-3	Chromium	1.3	U		P
7440-48-4	Cobalt		-		NR
7440-50-8	Copper		-		NR
7439-89-6	Iron		-		NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium		-		NR
7439-96-5	Manganese	1130	-		P
7439-97-6	Mercury		-		NR
7440-02-0	Nickel	1.9	B		P
7440-09-7	Potassium		-		NR
7782-49-2	Selenium		-		NR
7440-22-4	Silver		-		NR
7440-23-5	Sodium		-		NR
7440-28-0	Thallium		-		NR
7440-62-2	Vanadium		-		NR
7440-66-6	Zinc		-		NR
	Cyanide		-		NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:



QC SUMMARY



Quality Control Summary

ETR No: 65533

Project No: 93206

SDG No: 65533

Units:

Parameter	Date Analyzed	Method Preparation Blank	Laboratory Control Sample		
			Reported Value	True Value	Percent Recovery
Alkalinity (as CaCO ₃)	6/27/97	< 1	172	163	105.5
Chloride	7/8/97	< 0.5	5.09	5	101.8
Sulfate	7/8/97	< 5	10.5	10	105.0
Total Organic Carbon	6/27/97	< 0.5	67.9	66.2	102.6

Reviewed By: KCR
Date: 7/22/97

Quality Control Summary

ETR No: 65533

Project No: 93206

SDG No: 65533

Sample No: 334454

Units:

Parameter	Date Analyzed	Sample Result	Duplicate Sample Result	Relative Percent Difference	Spiked Sample Result	Spike Added	Percent Spike Recovery
Alkalinity (as CaCO ₃)	7/8/97	324 ✓	332 ✓	2.4 ✓	676	326 ✓	108.0

Rev'd By: KEG

Date: 7/22/97

000020

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS_ENVIRONMENTAL _____ Contract: 93206 _____
 Lab Code: INCHVT Case No.: 93206_ SAS No.: _____ SDG No.: 65533_
 Initial Calibration Source: VENTURES _____
 Continuing Calibration Source: SPEX _____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium	500.0	483.80	96.8	100.0	91.03	91.0	92.29	92.3	P
Calcium									NR
Chromium	500.0	485.50	97.1	200.0	186.70	93.4	188.50	94.2	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	966.60	96.7	400.0	369.40	92.4	375.70	93.9	P
Magnesium									NR
Manganese	500.0	480.70	96.1	200.0	185.80	92.9	187.70	93.8	P
Mercury									NR
Nickel	500.0	487.00	97.4	200.0	183.90	92.0	183.60	91.8	P
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: 93206_ SAS No.: _____ SDG No.: 65533_

Initial Calibration Source: VENTURES_____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				100.0	92.19	92.2			P
Calcium									NR
Chromium				200.0	187.30	93.6			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				400.0	374.80	93.7			P
Magnesium									NR
Manganese				200.0	187.10	93.6			P
Mercury									NR
Nickel				200.0	183.70	91.8			P
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____
 Lab Code: INCHVT Case No.: 93206_ SAS No.: _____ SDG No.: 65533_
 CRDL Standard Source: VENTURES_____
 ICP CRDL Standard Source: VENTURES_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium				10.0	9.66	96.6	9.59	95.9
Calcium								
Chromium				20.0	25.76	128.8	25.57	127.8
Cobalt								
Copper								
Iron								
Lead				6.0	6.81	113.5	6.42	107.0
Magnesium								
Manganese				30.0	29.00	96.7	29.30	97.7
Mercury								
Nickel				80.0	79.06	98.8	79.52	99.4
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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3
BLANKS

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: 93206_ SAS No.: _____ SDG No.: 65533_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum										NR	
Antimony										NR	
Arsenic										NR	
Barium										NR	
Beryllium										NR	
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	0.400	U	P
Calcium											NR
Chromium	1.3	U	1.3	U	1.3	U	1.3	U	1.300	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Magnesium											NR
Manganese	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Mercury											NR
Nickel	1.6	U	1.6	U	1.6	U	1.6	U	1.600	U	P
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____
 ab Code: INCHVT Case No.: 93206_ SAS No: _____ SDG No.: 65533_
 ICP ID Number: ICP4 TJA 61E ICS Source: VENTURES_____

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	0	938	-4	764.5	81.5	-4	776.3	82.8
Calcium								
Chromium	0	478	4	396.5	82.9	4	400.9	83.9
Cobalt								
Copper								
Iron								
Lead	0	51	3	43.2	84.7	5	42.6	83.5
Magnesium								
Manganese	0	477	-1	389.6	81.7	-1	393.7	82.5
Mercury								
Nickel	0	938	1	771.9	82.3	2	779.4	83.1
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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7

LABORATORY CONTROL SAMPLE

Lab Name: ITS_ENVIRONMENTAL_____

Contract: 93206_____

Lab Code: INCHVT

Case No.: 93206_

SAS No.: _____

SDG No.: 65533_

Solid LCS Source: _____

Aqueous LCS Source: VENTURES_____

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	525.0	464.50	88.5					
Calcium								
Chromium	500.0	447.50	89.5					
Cobalt								
Copper								
Iron								
Lead	1015.0	900.30	88.7					
Magnesium								
Manganese	500.0	441.40	88.3					
Mercury								
Nickel	500.0	447.20	89.4					
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								

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8
STANDARD ADDITION RESULTS

Lab Name: ITS_ENVIRONMENTAL_____

Contract:93206_____

Lab Code: INCHVT

Case No.: 93206_

SAS No.:_____

SDG No.:65533_

Concentration Units: ug/L

EPA Sample No.	An	0 ADD		1 ADD		2 ADD		3 ADD		Final Conc.	r	Q
		CON	ABS	CON	ABS	CON	ABS	CON	ABS			

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9
ICP SERIAL DILUTION

EPA SAMPLE NO.

AL124L

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample		Serial Dilution		% Difference	Q	M
	Result (I)	C	Result (S)	C			
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium	0.40	U	2.00	U			P
Calcium							NR
Chromium	1.30	U	6.50	U			P
Cobalt							NR
Copper							NR
Iron							NR
Lead	2.00	U	10.00	U			P
Magnesium							NR
Manganese	472.60		512.20		8.4		P
Mercury							NR
Nickel	3.58	B	8.00	U	100.0		P
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

Instrument Detection Limits (Quarterly)

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: 93206_ SAS No.: _____ SDG No.: 65533_

CP ID Number: ICP4_TJA_61E Date: 07/01/97

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium	226.50		5	0.4	P
Calcium			5000		NR
Chromium	267.72		10	1.3	P
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	220.35		3	2.0	P
Magnesium			5000		NR
Manganese	257.61		15	0.3	P
Mercury			0.2		NR
Nickel	231.60		40	1.6	P
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: 93206_ SAS No.: _____ SDG No.: 65533_

ICP ID Number: ICP4 TJA 61E Date: 01/01/97

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	CO_
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	-0.0000390	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000400	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001035	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0000596	-0.0000184	0.0000823	0.0000111	-0.0048710
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0011240
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	-0.0001999	0.0000000	-0.0000465
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	-0.0000100	0.0000000	-0.0000800	0.0000000	0.0049700
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS_ENVIRONMENTAL _____ Contract: 93206 _____

Lab Code: INCHVT Case No.: 93206 SAS No.: _____ SDG No.: 65533_

ICP ID Number: ICP4 TJA 61E Date: 01/01/97

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CR_	MN_	NI_	V_	_____
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0264000	
Antimony	206.84	0.0055040	0.0000000	-0.0002668	-0.0036670	
Arsenic	189.04	-0.0029900	0.0000000	0.0000000	0.0000000	
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0011400	
Cadmium	226.50	0.0000000	0.0000000	-0.0000329	0.0000000	
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium	267.72	0.0000000	0.0000704	0.0000000	-0.0000540	
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	
Lead	220.35	-0.0001864	0.0000279	0.0002131	-0.0006255	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	
Mercury						
Nickel	231.60	0.0000000	-0.0001310	0.0000000	0.0000000	
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.03	0.0000000	0.0002108	0.0000000	0.0000188	
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.86	0.0003750	-0.0005820	0.0000000	0.0036030	
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	

Comments:

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: ITS_ENVIRONMENTAL _____ Contract: 93206 _____
 Lab Code: INCHVT Case No.: 93206_ SAS No.: _____ SDG No.: 65533_
 ICP ID Number: ICP4 TJA 61E Date: 07/01/97

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	5000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	50000.0	P
Cadmium	10.00	5000.0	P
Calcium	10.00	1000000.0	P
Chromium	10.00	50000.0	P
Cobalt	10.00	50000.0	P
Copper	10.00	100000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	100000.0	P
Magnesium	10.00	1000000.0	P
Manganese	10.00	30000.0	P
Mercury			NR
Nickel	10.00	50000.0	P
Potassium	10.00	100000.0	P
Selenium	10.00	5000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	100000.0	P
Thallium	10.00	5000.0	P
Vanadium	10.00	50000.0	P
Zinc	10.00	5000.0	P

Comments:

032

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: ITS_ENVIRONMENTAL_____

Contract: 93206_____

Lab Code: INCHVT Case No.:_93206_

SAS No.: _____

SDG No.:65533_

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AL119	07/11/97		100
AL120	07/11/97		100
AL124	07/11/97		100
AL125	07/11/97		100
LCSW	07/11/97		100
PBW	07/11/97		100

14
ANALYSIS RUN LOG

Lab Name: ITS_ENVIRONMENTAL_____

Contract: 93206_____

Lab Code: INCHVT Case No.: 93206_

SAS No.: _____ SDG No.:65533_

Instrument ID Number: ICP4 TJA 61E_

Method: P_

Start Date: 07/21/97

End Date: 07/21/97

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.00	1302		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.00	1306				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.00	1311		X						X					X	X				X		X							
S	1.00	1315			X	X								X						X			X						
ICV	1.00	1321							X		X			X				X											
ICB	1.00	1326							X		X			X				X											
ICSA	1.00	1331							X		X			X				X											
ICSAB	1.00	1335							X		X			X				X											
CRI	1.00	1340							X		X			X				X											
CCV	1.00	1345							X		X			X				X											
CCB	1.00	1350							X		X			X				X											
PBW	1.00	1355							X		X			X				X											
LCSW	1.00	1400							X		X			X				X											
ZZZZZZ	1.00	1404																											
ZZZZZZ	5.00	1409																											
AL124	1.00	1414							X		X			X				X											
AL124L	5.00	1419							X		X			X				X											
AL119	1.00	1423							X		X			X				X											
AL120	1.00	1428							X		X			X				X											
AL125	1.00	1433							X		X			X				X											
CCV	1.00	1438							X		X			X				X											
CCB	1.00	1443							X		X			X				X											
ICSA	1.00	1448							X		X			X				X											
ICSAB	1.00	1453							X		X			X				X											
CRI	1.00	1457							X		X			X				X											
CCV	1.00	1502							X		X			X				X											
CCB	1.00	1507							X		X			X				X											

ALKALINITY



Alkalinity Worksheet

Method: 310.1

F-0084

Analyst: KOG
Date: 07/08/97

Time: 045

Titrant Lot #: VM29609297
ICV/CCV Lot #: ENA9975

TV = 163 mg/L

Sample #	pH	ml. spl.	ml final	ml initial	ml final - ml initial	Factor	mg/l result
TCV		25	4.30	0.00	4.30	40	172 (105.5%)
TCB		100	42.4.50	4.30	42.0.20	10	71
334454DP		25	12.80	4.50	8.30	40	337
CCV		25	17.20	12.80	4.40	40	176 (108%)
CCB		100	42.7.40	17.20	42.0.20		71

Sample #	pH	ml. spl.	ml final	ml initial	ml final - ml initial	Factor	mg/l result
TCV		25	4.20	0.00	4.20	40	168 (103.1%)
ICB		100	42.4.50	4.20	42.0.20	10	71
334974		25	9.10	4.55	4.55	40	182
334975		25	18.10	13.80	4.30	40	172
334976		25	26.70	18.10	8.60	40	344
334977		25	31.20	26.70	4.50	40	180
335279		1	52.00	31.30	20.70	1000	20500
335279MS		0.5	26.00	1.60	24.40	2000	49000
335279DP		1	46.20	26.00	20.20	1000	20200
335280		1	17.25	0.00	17.25	1000	17250
335281		1	21.00	17.25	3.75	40	150 (92.0%)
CCV		4.5	21.10	17.25	3.85	40	154
CCB		4.5	42.2.20	21.00	42.0.20	180	< 1

Sample #	pH	ml. spl.	ml final	ml initial	ml final - ml initial	Factor	mg/l result
TCV		25	4.20	0.00	4.20	40	168 (103.1%)
ICB		100	42.4.50	4.20	42.0.20	10	71
334974		25	9.10	4.55	4.55	40	182
334975		25	18.10	13.80	4.30	40	172
334976		25	26.70	18.10	8.60	40	344
334977		25	31.20	26.70	4.50	40	180
335279		1	52.00	31.30	20.70	1000	20500
335279MS		0.5	26.00	1.60	24.40	2000	49000
335279DP		1	46.20	26.00	20.20	1000	20200
335280		1	17.25	0.00	17.25	1000	17250
335281		1	21.00	17.25	3.75	40	150 (92.0%)
CCV		4.5	21.10	17.25	3.85	40	154
CCB		4.5	42.2.20	21.00	42.0.20	180	< 1

pH Calibration

4 4.00 / 3.99
7 7.00 / 7.01
6 6.94 / 5.96

Reviewed By: UAF
Date: 7/11/97
000035

334454DP
332-324
328
XIV = 2.44 (ppd)

* 335279DP: 20300-20200 * 100 = 0.509 RPD
30350
NS: 100 * 16.3 / 16.3 - 16.3 * 1000 = 326.00
US 800-20350

Analyst: +111
 Date: 06/27/97

Time: 0900
 Titrant Lot #: VWR 9609297
 ICV/CCV Lot #: ERA 9975
 TV = 163 mg/L

Sample #	pH	ml. spl.	ml final	ml initial	ml final - ml initial	Factor	mg/l. result
ICV		25	4.10	0.00	4.10	40	164 (100%)
ICB		100	$\frac{4.5 \ 4.20}{4.2 \ 4.40}$	4.10	$\frac{4.5 \ 0.10}{4.2 \ 0.20}$	10	<1
334438	6.00	25	17.60	4.40	13.20 /	40	528 /
334442	7.34	25	20.50	17.60	2.90 /	40	116 /
334333	6.96	100	33.70	25.00	8.70	10	37
334335	6.83	25	38.60	33.70	4.90 /	40	196 /
334337	6.66	25	5.20	0.00	5.20 /	40	208 /
334444	6.95	25	18.10	5.20	12.90 /	40	516 /
334446	7.00	25	26.70	18.10	8.60 /	40	344 /
334448	7.32	25	34.40	26.70	7.70 /	40	308 /
334450	7.06	25	8.30	0.00	8.30	40	332 (332)
334452	7.35	25	19.00	15.00	4.0	40	160 /
CCV		25	24.30	20.00	4.30	40	172 (105.5%)
CCB		100	$\frac{4.5 \ 24.50}{4.2 \ 24.70}$	24.30	$\frac{4.5 \ 0.20}{4.2 \ 0.20}$	10	<1
334454	7.05	25	32.80	24.70	8.10 /	40	324 /
334454MS	8.95	25	16.90	0.00	16.90 /	40	676 /
334426	6.65	25	21.60	16.90	4.70 /	40	188 /
334428	6.70	25	24.50	21.60	2.90 /	40	116 /
334430	6.68	25	2.10	0.00	2.10 /	40	84 /
334431	6.70	25	5.60	2.10	3.50 /	40	140 /
334436	6.75	25	10.50	5.60	4.90 /	40	196 /
CCV		25	14.70	10.50	4.20 /	40	168 (103.1%)
CCB		100	$\frac{4.5 \ 14.90}{4.2 \ 15.10}$	14.70	$\frac{4.5 \ 0.20}{4.2 \ 0.20}$	10	<1

pH Calibration

4 _____ 50ml spike added $\times \frac{163 \text{ mg}}{1000 \text{ mL}} = 8.15 \text{ mg}$

7 _____

6 _____ $\frac{8.15 \text{ mg}}{25 \text{ mL sample}} \times \frac{1000 \text{ mL}}{L} = 326 \text{ mg spike added}$

$\frac{676 - 324}{326} \times 100 = 108\% \text{ recovery}$

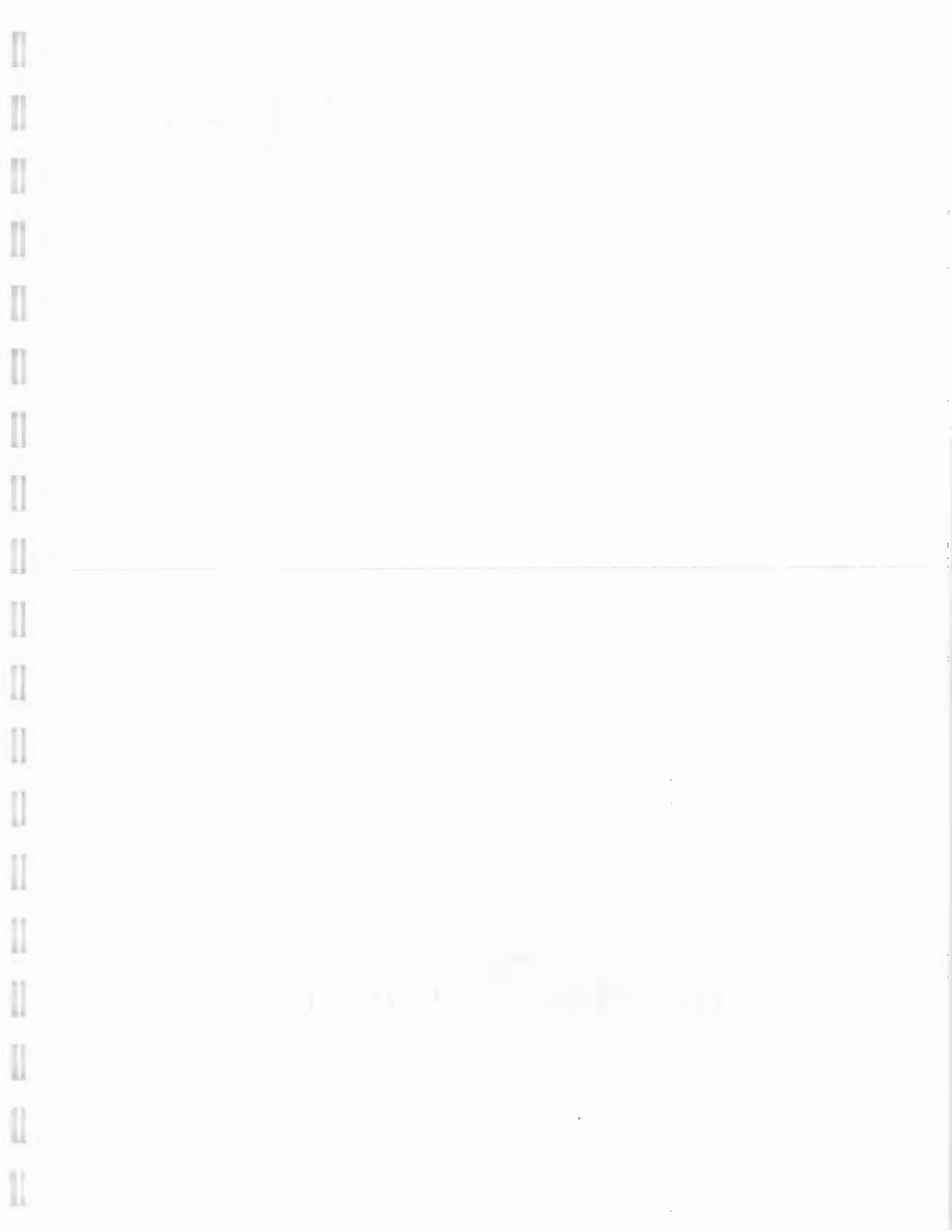
Reviewed By: UA
 Date: 7/1/97

000036

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ITS Intertek Testing Services

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TOTAL ORGANIC CARBON



Liquid TOC Benchsheet
Methods 415.1 and 9060

Analyst: RHS
Date: Curve 6-19-97 / 6-20-97 Run
Time: 10:00

1.0 Sample Loop
Detection Limit = 0.5 mg/l

Curve/MS Lot #: KHP021097
ICV/CCV Lot #: ERA 9974 TV=66.2mg/L

$(L = 40.7451 - V)$

Run#	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
1-4	20 ppb		887,680			
5-8	DI H ₂ O		36,0142			
9	0.5		53,0112			0.791019293
10	1.0		69,5116			1,1825
11-12	2.0		104,320	n=7 r=0.999219008		2,0084
13-14	5.0		218,168		4,7095	
15	10.0		423,463		9,5802	
16	15.0		645,690		14,8527	
17	20.0		878,482		20,3758	
18-49	DI H ₂ O		35,1133			<0.5
50	ICV		537,387	x5	61.4156	61.4 (92.7%)
51	ICB		27.6758			<0.5
52	DI H ₂ O		21.6440			<0.5
53	332826		86.0108			1,5740
54	332827		118,009			2,3331
55	332828		77,1820			1,3645
56	332835		573.661			13,1437
57	332874 ^{Run 6-20-97} Run 6-19-97		127,106			2,5490
58	332875		69,6354			1,1854
59	332877		83,0842			1,5045
60	332878		95,3032			1,7944

Reviewed By: S. M. J.
Date: 6-23-97

$DL = 40.7451 \mu V$

CCV TV = 66.2 μ l

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
61	332879	✓	58,6580			0.9250
62	CCV		528,931	x 5	60.4125	60.4 (91.2%)
63	CCB		21,0504			< 0.5
64	332880	✓	470,057			10.6857
65	332881	✓	674,489			15.5359
66	332882	✓	472,381			10.7408
67	333138	✓	87,3839			1.6065
68	333140	✓	200,251			4.2844
69	333140 DP	✓	200,021			4.2789
70	333140 MS	see num # 88	358,948	x 5	10 mlb SPL + 10 mlb 5 ppm soln.	8.0495
71	333141	✓	361,815			8.1176
72	333715	✓	126,081			2.5246
73	332883	x	3455.15		see num # 87	81.5087
74	74 (83) CCV		528,541	x 5	60.3662	60.4 (91.2%)
82	84 CCB	WRONG SPL. NOT USED	170,073	x 20		
85	CCV		536,375	x 5	61.2955	61.3 (92.6%)
86	CCB		23,1737			< 0.5
87	332883	✓	165,549	x 20		69.2209
88	333140 MS	✓	207,139	x 2	8.9956*	8.9 (92.0%)
89	333247	see num # 91	2319,10			54.5553
90	CCV		558,954	x 5	63.9740	64.0 (96.7%)
91	333247	✓	229,810	x 10		49.8567
92	CCV		544,209	x 5	62.2249	62.2 (94.0%)
93	CCB		24,7079			< 0.5
			$8.9 = 4.3 \times 100 = 92.0\%$			
	Cal, 333140 MS		5			
	Run # 88					
*	333140 MS	Used 10 mlb spl. + 10 mlb 5 ppm soln.				SA = 5.0 μ l
	Run # 70					
⊗	333140 MS	Used the incorrect spl. (ICV/CCV)				

000011

$C = 40.7451 \text{ mV}$

$CCV = 66.2 \text{ mg/l}$

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
94-135	DI H ₂ O	23 JUN 97	30.8337	23 JUN 97	97	< 0.5
136	CCV		546.190	5	62.4599	62.4 (94.4%)
137	CCB		28.0767		6.474	62.5 < 0.5
138	333717		25.1064			< 0.5
139	333720		27.2253			< 0.5
140	333721		68.6143			1.1612 (1.5)
141	333374		315.028			7.0787 7
142	333375		101.967			1.953 2
143	333376		46.1170			0.6274 0
144	333377		178.733			3.774 3
145	333378		171.539		3.6032	3.674 3
146	333379		246.691			5.386
147	FILTER BLANK		44.5477			NOT USED
148	CCV		541.498	5	61.9033	61.9 (93.5%)
149	CCB		25.1919			< 0.5
150-153	DI H ₂ O		21.0787			< 0.5
154	CCV		535.926	5	61.2423	61.2 (92.4%)
155	CCB		23.3723			< 0.5
156	FILTER BLANK		33.0270			< 0.5
157	CCV		537.218	5	61.3955	61.4 (92.7%)
158	CCB		24.8217			< 0.5
159-163	DI H ₂ O		19.2456			< 0.5
164	CCV		527.872	5	60.2868	60.3 (91.1%)
165	CCB		18.8235			< 0.5
166	333688		203.997			4.4919
167	333690		386.445			8.7019
168	333692		330.784		7.3813	7.3813
169	333694		295.091			6.5345
170	333694 DD		286.827		*	6.3384
171	333694 MS		372.758	2	**	16.7544

$DP = \frac{6.5 - 6.3}{6.4} * 100 = 3.125\% \text{ RPD}$

$(= 3.1\%)$

** MS = $10 \text{ mL} \times \frac{10 \text{ mg}}{100 \text{ mL}} = 0.1 \text{ mg} \times \frac{100 \text{ mL}}{10 \text{ mL}} = 10 \text{ mg/L spike}$

$\frac{16.8 - 6.5}{10} \times 100 = 103\% \text{ recovery}$

Reviewed By:

Date: 6-24-97

0000-12

DL = 40.7451 mV

CCV = 66.2 mV

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
172	333216		231.209			5.0189
173	333217		121.082			2.4060
174	333218		201.669			4.3180
175	333219		114.247			2.2439
176	CCV		552.098	S	63.1607	63.2 (95.5%)
177			33.9532			20.5
178	333932	208.542	209.222			4.4962
179	333934		213.197			4.5915
180	333936		182.788			3.8700
181	333938		278.861			6.1494
182	333940		258.342			5.6626
183	333942		106.332			2.0561
184	CCV		584.566	S	67.0123	67.0 (101.2%)
186	CCB		32.4489			20.5

Reviewed By: msj
Date: 6-24-97

000042

DL = 40.7451 μ VCCV = 66.2 μ V

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
187 (207)	DI H ₂ O	24 JUN 97	23.9402	24 JUN 97		<0.5
202	CCV		546.361	5	62.4802	62.5 (94.4%)
203	CCB		27.5900			<0.5
204	334023		32.5644			<0.5
205	333157		29.4533			<0.5
206	FILTER BLANK		39.0188			<0.5
207	333953		193.849			4.1325
208	333955		228.414			4.9526
209	333957		164.061			3.4257
210	333959		198.263			4.2372
211	334146		85.8513			1.5702
212	334146R1		82.2915			1.4857
213	334146R2		85.7238			1.5671
214	CCV		567.178	5	64.9496	64.9 (98.0%)
215	CCB		31.4100			<0.5
216 (219)	DI H ₂ O		20.9374			<0.5
220	CCV		557.007	5	63.7431	63.7 (96.2%)
221	CCB		27.5327			<0.5
222	334146R3		78.1247			1.3869
223	334147		92.8449			1.7361
224	334147R1		93.2324			1.7453
225	334147R2		97.7070			1.8512
226	334147R3		98.7496			1.8762
227	334164		416.441			9.4136
228	334165 X		1516.89		SEE RUN# 236	NOT USED
229	334166		816.641			18.9086
230	334167		499.383			11.3815
231	334168 X		320.133		WRONG SAMPLE	NOT USED
232	CCV		591.736	5	67.8629	67.9 (102.6%)
233	CCB		39.9265			<0.5

Reviewed By: J. M. M.

Date: 6-25-97

000011

DL = 40.7451 - V.

CCV = 66.2718

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
234	334168 ✓		621.945 ✓			14.2893 ✓
235	334169 X		1042.01 ✓		SEE RUN# 237	NOT USED
236	334165 ✓		798.789 ✓	2 ✓		36.9701 ✓
237	334169 ✓		676.698 ✓	2		31.1767 ✓
238	334047 ✓		85.0867 ✓			1.5520 ✓
239	334048 ✓		67.4099 ✓			1.1326 ✓
240	334049 ✓		66.1744 ✓			1.1033 ✓
241	334050 ✓		63.1082 ✓			1.0308 ✓
242	334051 ✓		33.8633 ✓			<0.5 ✓
243	334053 ✓		59.9953 ✓			0.9567 ✓
244	CCV		558.038 ✓	5 ✓	63.8654	63.9 (96.5%)
245	CCB		31.0642 ✓			<0.5 ✓
246	334054 ✓		56.6583 ✓			0.8775 ✓
247	334055 ✓		58.3849 ✓			0.9185 ✓
248	334056 ✓		54.7563 ✓			0.8324 ✓
249	334057 ✓		72.7103 ✓			1.2584 ✓
250	334058 ✓		73.3959 ✓			1.2747 ✓
251	334059 ✓		72.3989 ✓			1.2510 ✓
252	334060 ✓		77.0878 ✓			1.3623 ✓
253	334062 ✓		84.4502 ✓			1.5369 ✓
254	334063 ✓		88.5039 ✓			1.6331 ✓
255	334064 ✓		88.0236 ✓			1.6217 ✓
256	CCV		559.929 ✓	5	64.0897	64.1 (96.8%)
257	CCB		28.0480 ✓			<0.5 ✓

Reviewed By: smwDate: 6-25-97

000045

DL = 40.7457 - V.

CCV - 66.2 - 18

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
187 (201)	DI H ₂ O	24 JUN 97	23.9402	24 JUN 97		<0.5
202	CCV		546.361	5	62.4802	62.5 (94.4%)
203	CCB		27.5900			<0.5
204	334023		32.5644			<0.5
205	333157		29.4533			<0.5
206	FILTER BLANK		39.0183			<0.5
207	333953		193.849			4.1325
208	333955		228.414			4.9526
209	333957		164.061			3.4257
210	333959		198.263			4.2372
211	334146		85.8513			1.5702
212	334146R1		82.2915			1.4857
213	334146R2		85.7238			1.5671
214	CCV		567.178	5	64.9496	64.9 (98.6%)
215	CCB		31.4100			<0.5
216 (219)	DI H ₂ O		20.9374			<0.5
220	CCV		557.007	5	63.7431	63.7 (96.2%)
221	CCB		27.5327			<0.5
222	334146R3		78.1247			1.3869
223	334147		92.8449			1.7361
224	334147R1		93.2324			1.7453
225	334147R2		97.7070			1.8512
226	334147R3		98.7496			1.8762
227	334164		416.441			9.4136
228	334165		1516.89		SEE RUN# 236	NOT USED
229	334166		816.641			18.9086
230	334167		499.383			11.3815
231	334168		320.133		WRONG SAMPLE	NOT USED
232	CCV		591.736	5	67.8629	67.9 (102.6%)
233	CCB		39.9265			<0.5

Reviewed By: JmsDate: 6-26-97

000046

DL = 40.7451 mV

CCV = 66.27/lp

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
234	334168		621.945 /			14.2893 /
235	334169		1042.01 /		SEE RUN# 237	NOT USED
236	334165		798.789 /	2 /		36.9701 /
237	334169		676.698 /	2 /		31.1767 /
238	334047		85.0867 /			1.5520 /
239	334048		67.4099 /			1.1326 /
240	334049		66.1744 /			1.1033 /
241	334050		63.1082 /			1.0308 /
242	334051		33.8633 /			<0.5 /
243	334053		59.9953 /			0.9567 /
244	CCV		558.038 /	5 /	63.8654	63.9 (96.5%)
245	CCB		31.0642 /			<0.5 /
246	334054		56.6583 /			0.8775 /
247	334055		58.3849 /			0.9185 /
248	334056		54.7563 /			0.8324 /
249	334057		72.7103 /			1.2584 /
250	334058		73.3959 /			1.2747 /
251	334059		72.3989 /			1.2510 /
252	334060		77.0878 /			1.3623 /
253	334062		84.4502 /			1.5369 /
254	334063		88.5039 /			1.6331 /
255	334064		88.0236 /			1.6217 /
256	CCV		559.929 /	5 /	64.0897	64.1 (96.8%)
257	CCB		28.0480 /			<0.5 /

Reviewed By:
 Date: 6-26-97

DL: 40.7457~V

CCV: 66.2%

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
265	DI H2O	25 JUN 97	31.7849	25 JUN 97	7.05	7.05
266	CCB		40.8064		CCB OUT	NOT USED
267	334065X		101.954		CCB OUT	NOT USED
268	DI H2O		38.5509			7.05
269	CCV		568-853	S	65.1483	65.1(98.3%)
270	CCB		35.7235			< 0.5
271	DI H2O		31.0642			< 0.5
272	334065		83.8144			1.5220
273	334068		76.7113			1.3533
274	334069		67.4408			1.1334
275	334070		68.1508			1.1502
276	334071		66.2698			1.1056
277	334072		64.3645			1.0604
278	334074		66.3313			1.1070
279	334075		67.8111			1.1421
280	334076		67.3482			1.1312
281	CCV		560.674	S	64.1781	64.2(97.0%)
282	CCB		29.9131			< 0.5
283	DI H2O		25.5623			< 0.5
291	CCV		553.295	S	63.3007	63.3(95.6%)
292	CCB		31.1794			7.05
293	DI H2O		26.9322			7.05
294	FILTER BLANK		44.3999			NOT USED
295	334170		77.0733			17.8666
296	FILTER BLANK		55.4801			NOT USED
297	334171		498.027			11.3493
298	334172		635.379			14.6080
299	334173 X		1142.23		SEE RUN# 313	NEEDS DILUTION
300	334174 X		1210.34		SEE RUN# 314	NEEDS DILUTION

Reviewed By:
Date: 6-26-97

000045

DL = 40.7451 mV

CCV = 66.2411

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
301	334175 /		568.217 /			13.0146 /
302	334176 /		263.295 /			5.7801 /
303 (307)	CCV		566.255 /	5 /	64.8401 /	64.8 (97.9%) /
308	CCB		37.3831 /			<0.5 /
309	Filter Blank		47.7801 /			NOT USED
310	334177 /		204.784 /			4.3919 /
311	334178 /		218.207 /			4.7104 /
312	334179 /		266.727 /			5.8616 /
313	334173 /		710.995 /	2 /		32.8041 /
314	334174 /		752.663 /	2 /		34.7813 /
315	334179DP		255.237 /		*	5.5889 /
316	334179 MS		383.112 /	2 /	* *	17.2457 /
317	DI H2O		45.1097 /			0.6036 /
318 (319)	Filter Blank		51.6312 /			NOT USED
320	CCV		560.445 /	5 /	64.1509 /	64.2 (97.0%) /
321	CCB		37.6165 /			<0.5 /
322	Filter Blank		46.8588 /			0.6450 /
323	CCV		560.043 /	5 /	64.1032 /	64.1 (96.8%) /
324	CCB		33.5767 /			<0.5 /

RD = $\frac{5.9 - 5.6}{5.6} * 100 = 5.2\%$ RPD

*MS = $10\text{ml} \times \frac{10\text{mg}}{1000\text{ml}} = 0.1\text{mg}$
 $\frac{0.1\text{mg}}{10\text{ml}} \times \frac{1000\text{ml}}{\text{L}} = 10\text{mg/L}$ spike added
 $\frac{17.2 - 5.9}{10} * 100 = 113\%$ recovery

Reviewed By: S. [unclear]
 Date: 6-26-77

000045

DL = 40.7457 μ VCCV = 66.2 μ V

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
305 345	DI H ₂ O	26 JUN 97	28.2199	26 JUN 97		<0.5
346	CCV		551.700	5	63.1135	63.1 (95.3%)
347	CCB		32.1312			<0.5
348	334205		162.901			3.3982
349	334205R1		162.937			3.3991
350	334205R2		163.879 ^{378 FM}			3.4094
351	334205R3		163.879			3.4214
352	334207		127.448			2.5571
353	334207R1		124.887			2.4963
354	334207R2		130.708			2.6344
355	334207R3		130.605			2.6320
356	334209		114.548			2.2510
357	334209R1		115.185			2.2661
358	CCV		560.043	5	64.1032	64.1 (96.8%)
359	CCB		33.0559			<0.5
360 367	DI H ₂ O		28.6498			<0.5
368	CCV		536.600	5	61.3222	61.3 (92.6%)
369	CCB		37.5289			<0.5
370	334209R2		111.841			2.1868
371	334209R3		114.917			2.2598
372	334211		104.188			2.0052
373	334211R1		104.155			2.0044
374	334211R2		106.629			2.0631
375	334211R3		103.695			1.9947
376	334214		159.326			3.3134
377	334214R1		156.488			3.2461
378	334214R2		158.966		3.3049	3.3409 6.32-97
379	334214R3		155.986			3.2342
380	CCV		544.209	5	62.2249	62.2 (94.0%)
381	CCB		40.6609			<0.5

Reviewed By: D. Ward

Date: 6-30-97

000050

$\Delta L = 40.7451 \text{ mV}$

CCV = 66.2 $\mu\text{g/l}$

Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
382	334216	/	107.224	/		2.0772
383	334216R1	/	107.721	/		2.0890
384	334216R2	/	109.943	/		2.1418
385	334216R3	/	106.530	/		2.0608
386	334218	/	148.402	/		3.0542
387	334218R1	/	153.163	/		3.1672
388	334218R2	/	145.788	/		2.9922
389	334218R3	/	144.415	/		2.9596
390	334220	/	198.110	/		4.2336
391	334220R1	/	199.180	/		4.2590
392	CCV	/	564.181	5	64.5941	64.6 (97.6%)
393	CCB	/	33.7794	/		<0.5
394	334220R2	/	187.769	/		3.9882
395	334220R3	/	192.371	/		4.6974
396	334222	/	121.319	/		2.4117
397	334222R1	/	120.135	/		2.3836
398	334222R2	/	116.528	/		2.2980
399	334222R3	/	110.376	/		2.1520
400	334224	/	255.071	/		5.5850
401	334224R1	/	266.811	/		5.8635
402	334224R2	/	267.483	/		5.8795
403	334224R3	/	262.502	/		5.7613
404	CCV	/	567.871	5	65.0318	65.0 (98.2%)
405	CCB	/	34.7650	/		<0.5
Run 6-27-97						
426	CCV	/	592.326	5	67.9329	67.9 (102.6%)
427 (433)	CCB	/	14.7057	/		<0.5
434	334226	(NOT USED)	169.159	/		3.5467
435	334226	/	97.8372	/		1.8545
436	334226R1	/	98.2406	/		1.8646

START
UP

Reviewed By: [Signature]

Date: 6-30-97

000051

$DL = 40.7451 \text{ mV}$

$CCU = 66.2 \text{ mg/l}$

143?

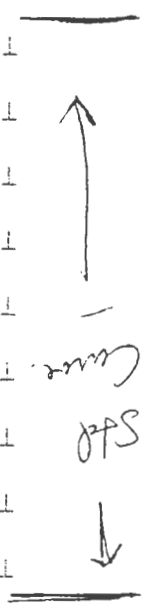
Run #	Sample #	Sample pH	mVolts	Dilution	Comments	mg/l result
437	334226 R2	/	95.8870			1.8083
438	334226 R3	/	86.9684			1.5967
439	334228	/	115.655			2.2773
440	334228 R1	/	128.510			2.5823
441	334228 R2	/	123.084			2.4535
442	334228 R3	/	120.744			2.3980
443	334445	/	250.787			5.4834
445	CCU		551.188	X5	63.0528	63.1 (95.5%)
446	CCB		28.8219			<0.5
447	334445 R1	/	240.305			5.2347
448	334445 R2	/	253.915			5.5576
449	334445 R3	/	254.411			5.5693
450	334447	/	143.466			2.9371
451	334447 R1	/	143.852			2.9463
452	334447 R2	/	143.747			2.9438
453	334447 R3	/	142.939			2.9246
454	334449	/	109.379			2.1284
455	334449 R1	/	107.721			2.0890
456	334449 R2	/	109.379			2.1284
457	CCU 334449 R3 (NOT USED)		108.085			2.0977
458	CCB CCU		575.752	X5	65.9667	66.0 (99.7%)
459	CCB		25.7618			<0.5
460	334449 R3	/	102.053			1.9546
461	334451	/	107.059			2.0733
462	334451 R1	/	107.853			2.0922
463	334451 R2	/	106.761			2.0663
464	334451 R3	/	108.383			2.1047
465	334453	/	446.640			10.1301
466	334453 R1	/	449.531			10.1987
467	334453 R2	/	439.399			9.9583

Reviewed By: Dave

Date: 6-30-97

000052

FL# 00001	08:16:01	TOC =	876.954 mV	876.954 ug C
FL# 00002	08:44:26	TOC =	881.296 mV	881.296 ppm
FL# 00003	08:52:51	TOC =	880.813 mV	880.813 ppm
FL# 00004	09:01:16	TOC =	887.880 mV	887.880 ppm
FL# 00005	09:09:43	TOC =	881.543 mV	881.543 ppm
FL# 00006	09:18:08	TOC =	871.007 mV	871.007 ppm
FL# 00007	09:26:33	TOC =	872.441 mV	872.441 ppm
FL# 00008	09:34:58	TOC =	881.042 mV	881.042 ppm
FL# 00009	09:43:23	TOC =	881.012 mV	881.012 ppm
FL# 00010	09:51:48	TOC =	891.516 mV	891.516 ppm
FL# 00011	10:00:11	TOC =	105.473 mV	105.473 ppm
FL# 00012	10:08:36	TOC =	104.320 mV	104.320 ppm
FL# 00013	10:17:01	TOC =	219.938 mV	219.938 ppm
FL# 00014	10:25:26	TOC =	218.168 mV	218.168 ppm
FL# 00015	10:33:51	TOC =	423.463 mV	423.463 ppm
FL# 00016	10:42:16	TOC =	645.690 mV	645.690 ppm
FL# 00017	10:50:41	TOC =	878.482 mV	878.482 ppm
FL# 00018	10:59:06	TOC =	40.8064 mV	40.8064 ppm
FL# 00019	16:07:49	TOC =	37.7915 mV	37.7915 ppm
FL# 00020	16:16:14	TOC =	80.7727 mV	80.7727 ppm
FL# 00021	16:24:39	TOC =	61.4885 mV	61.4885 ppm
FL# 00022	16:33:04	TOC =	45.5242 mV	45.5242 ppm
FL# 00023	16:41:29	TOC =	40.8064 mV	40.8064 ppm
FL# 00024	16:49:54	TOC =	37.9083 mV	37.9083 ppm
FL# 00025	16:58:19	TOC =	35.7816 mV	35.7816 ppm
FL# 00026	17:06:44	TOC =	36.8584 mV	36.8584 ppm
FL# 00027	17:15:09	TOC =	35.5491 mV	35.5491 ppm
FL# 00028	17:23:34	TOC =	35.6944 mV	35.6944 ppm
FL# 00029	17:31:59	TOC =	34.2720 mV	34.2720 ppm
FL# 00030	17:40:24	TOC =	35.3457 mV	35.3457 ppm



X

X

000054

6-19-97 TOC 1 ml Std Leg

PL# 00033	18:05:39	TOC = 34.9682 mV	34.9682 ug C	34.9682 ppm
PL# 00034	18:14:04	TOC = 33.9822 mV	33.9822 ug C	33.9822 ppm
PL# 00035	18:22:29	TOC = 37.7624 mV	37.7624 ug C	37.7624 ppm
PL# 00036	18:30:54	TOC = 34.3590 mV	34.3590 ug C	34.3590 ppm
PL# 00037	18:39:19	TOC = 34.9101 mV	34.9101 ug C	34.9101 ppm
PL# 00038	18:47:44	TOC = 35.2295 mV	35.2295 ug C	35.2295 ppm
PL# 00039	18:56:09	TOC = 34.7650 mV	34.7650 ug C	34.7650 ppm
PL# 00040	19:04:34	TOC = 34.7070 mV	34.7070 ug C	34.7070 ppm
PL# 00041	19:12:59	TOC = 34.7650 mV	34.7650 ug C	34.7650 ppm
PL# 00042	19:21:24	TOC = 33.8663 mV	33.8663 ug C	33.8663 ppm
PL# 00043	19:29:49	TOC = 33.9822 mV	33.9822 ug C	33.9822 ppm
PL# 00044	19:38:14	TOC = 34.9392 mV	34.9392 ug C	34.9392 ppm
PL# 00045	19:46:39	TOC = 34.7360 mV	34.7360 ug C	34.7360 ppm
PL# 00046	19:55:04	TOC = 34.9101 mV	34.9101 ug C	34.9101 ppm
PL# 00047	20:03:29	TOC = 34.0111 mV	34.0111 ug C	34.0111 ppm
PL# 00048	20:11:54	TOC = 33.2584 mV	33.2584 ug C	33.2584 ppm
PL# 00049	20:20:19	TOC = 35.1133 mV	35.1133 ug C	35.1133 ppm
PL# 00050	20:28:44 10:28:44	TOC = 537.387 mV	537.387 ug C	537.387 ppm
PL# 00051	20:37:09	TOC = 27.6758 mV	27.6758 ug C	27.6758 ppm
PL# 00052	20:45:34	TOC = 21.6440 mV	21.6440 ug C	21.6440 ppm
PL# 00053	20:53:59	TOC = 86.0108 mV	86.0108 ug C	86.0108 ppm
PL# 00054	21:02:24 11:02:24	TOC = 118.009 mV	118.009 ug C	118.009 ppm
PL# 00055	21:10:49	TOC = 77.1820 mV	77.1820 ug C	77.1820 ppm
PL# 00056	21:19:14	TOC = 573.661 mV	573.661 ug C	573.661 ppm
PL# 00057	21:27:39	TOC = 127.106 mV	127.106 ug C	127.106 ppm
PL# 00058	21:36:04	TOC = 69.6354 mV	69.6354 ug C	69.6354 ppm
PL# 00059	21:44:29	TOC = 83.0842 mV	83.0842 ug C	83.0842 ppm
PL# 00060	21:52:54	TOC = 95.3032 mV	95.3032 ug C	95.3032 ppm
PL# 00061	22:01:19 12:01:19	TOC = 58.6580 mV	58.6580 ug C	58.6580 ppm
PL# 00062	22:09:44	TOC = 528.931 mV	528.931 ug C	528.931 ppm
PL# 00063	22:18:09	TOC = 21.0504 mV	21.0504 ug C	21.0504 ppm

000055

PL# 00094	02:39:04	TCC = 20.0544 mV	20.0544 ug C
PL# 00093	02:30:39	TCC = 24.7079 mV	24.7079 ug C
PL# 00092	02:22:14	TCC = 544.209 mV	544.209 ppm
PL# 00091	02:13:49	TCC = 229.810 mV	229.810 ppm
PL# 00090	02:05:24	TCC = 558.954 mV	558.954 ppm
PL# 00089	01:56:59	TCC = 2319.10 mV	2319.10 ppm
PL# 00088	01:48:34	TCC = 207.139 mV	207.139 ppm
PL# 00087	01:40:09	TCC = 165.549 mV	165.549 ppm
PL# 00086	01:31:44	TCC = 23.1737 mV	23.1737 ppm
PL# 00085	01:23:19	TCC = 536.375 mV	536.375 ppm
PL# 00084	01:14:54	TCC = 170.073 mV	170.073 ppm
PL# 00083	01:06:29	TCC = 528.541 mV	528.541 ppm
PL# 00082	00:58:04	TCC = 16.8024 mV	16.8024 ppm
PL# 00081	00:49:39	TCC = 17.7558 mV	17.7558 ppm
PL# 00080	00:41:14	TCC = 17.5033 mV	17.5033 ppm
PL# 00079	00:32:49	TCC = 19.2737 mV	19.2737 ppm
PL# 00078	00:24:24	TCC = 18.8235 mV	18.8235 ppm
PL# 00077	00:15:59	TCC = 19.6398 mV	19.6398 ppm
PL# 00076	00:07:34	TCC = 20.8245 mV	20.8245 ppm
PL# 00075	23:59:09	TCC = 21.5309 mV	21.5309 ppm
PL# 00074	23:50:44	TCC = 56.1746 mV	56.1746 ppm
PL# 00073	23:42:19	TCC = 3455.15 mV	3455.15 ppm
PL# 00072	23:33:54	TCC = 161.815 mV	161.815 ppm
PL# 00071	23:25:29	TCC = 161.815 mV	161.815 ppm
PL# 00070	23:17:04	TCC = 355.948 mV	355.948 ppm
PL# 00069	23:08:39	TCC = 200.251 mV	200.251 ppm
PL# 00068	23:00:14	TCC = 200.251 mV	200.251 ppm
PL# 00067	22:51:49	TCC = 87.3839 mV	87.3839 ppm
PL# 00066	22:43:24	TCC = 472.381 mV	472.381 ppm
PL# 00065	22:34:59	TCC = 674.489 mV	674.489 ppm

All values changed by DMN on per RWS

000056
20.0544 ppm

ACTUAL TIME 16:05:24

ACTUAL TIME 15:06

ACTUAL TIME 14:07

ACTUAL TIME 13:00:14

		OC =	23.9666 mV	23.9666 ug C	23.9666 ppm
PL# 00127	20:43:16	TOC =	23.3723 mV	23.3723 ug C	23.3723 ppm
PL# 00128	20:51:41	TOC =	24.4234 mV	24.4234 ug C	24.4234 ppm
PL# 00129	21:00:06	TOC =	23.8266 mV	23.8266 ug C	23.8266 ppm
PL# 00130	21:08:37	TOC =	124.410 mV	124.410 ug C	124.410 ppm
PL# 00131	21:17:02	TOC =	555.064 mV	555.064 ug C	555.064 ppm
PL# 00132	21:25:27	TOC =	41.3057 mV	41.3057 ug C	41.3057 ppm
PL# 00133	21:33:52	TOC =	562.053 mV	562.053 ug C	562.053 ppm

— TIME OF DAY CHANGED —
 KVA 6/23/97

PL# 00134	11:47:09	TOC =	37.5289 mV	37.5289 ug C	37.5289 ppm
PL# 00135	11:55:34	TOC =	30.8337 mV	30.8337 ug C	30.8337 ppm
PL# 00136	12:03:59	TOC =	546.190 mV ✓	546.190 ug C	546.190 ppm
PL# 00137	12:12:24	TOC =	28.0767 mV	28.0767 ug C	28.0767 ppm
PL# 00138	12:20:49	TOC =	25.1064 mV	25.1064 ug C	25.1064 ppm
PL# 00139	12:29:14	TOC =	27.2753 mV	27.2753 ug C	27.2753 ppm
PL# 00140	12:37:39	TOC =	68.6143 mV	68.6143 ug C	68.6143 ppm

000057

FL# 00172	17:15:24	T00 =	121.082 mV	121.082 ug C	121.082 ppm
FL# 00171	17:06:59	T00 =	231.209 mV	231.209 ug C	231.209 ppm
FL# 00170	16:58:34	T00 =	372.758 mV	372.758 ug C	372.758 ppm
FL# 00169	16:50:09	T00 =	286.827 mV	286.827 ug C	286.827 ppm
FL# 00168	16:41:44	T00 =	295.091 mV	295.091 ug C	295.091 ppm
FL# 00167	16:33:19	T00 =	330.784 mV	330.784 ug C	330.784 ppm
FL# 00166	16:24:54	T00 =	386.445 mV	386.445 ug C	386.445 ppm
FL# 00165	16:16:29	T00 =	208.997 mV	208.997 ug C	208.997 ppm
FL# 00164	16:08:04	T00 =	18.8235 mV	18.8235 ug C	18.8235 ppm
FL# 00163	15:59:39	T00 =	527.872 mV	527.872 ug C	527.872 ppm
FL# 00162	15:51:14	T00 =	19.2456 mV	19.2456 ug C	19.2456 ppm
FL# 00161	15:42:49	T00 =	21.1917 mV	21.1917 ug C	21.1917 ppm
FL# 00160	15:34:24	T00 =	20.7398 mV	20.7398 ug C	20.7398 ppm
FL# 00159	15:25:59	T00 =	21.4461 mV	21.4461 ug C	21.4461 ppm
FL# 00158	15:17:34	T00 =	21.8421 mV	21.8421 ug C	21.8421 ppm
FL# 00157	15:09:09	T00 =	24.8217 mV	24.8217 ug C	24.8217 ppm
FL# 00156	15:00:44	T00 =	537.218 mV	537.218 ug C	537.218 ppm
FL# 00155	14:52:19	T00 =	33.0270 mV	33.0270 ug C	33.0270 ppm
FL# 00154	14:43:54	T00 =	23.3723 mV	23.3723 ug C	23.3723 ppm
FL# 00153	14:35:29	T00 =	535.926 mV	535.926 ug C	535.926 ppm
FL# 00152	14:27:04	T00 =	21.0787 mV	21.0787 ug C	21.0787 ppm
FL# 00151	14:18:39	T00 =	21.4178 mV	21.4178 ug C	21.4178 ppm
FL# 00150	14:10:14	T00 =	21.8421 mV	21.8421 ug C	21.8421 ppm
FL# 00149	14:01:49	T00 =	21.8417 mV	21.8417 ug C	21.8417 ppm
FL# 00148	13:53:24	T00 =	23.3723 mV	23.3723 ug C	23.3723 ppm
FL# 00147	13:44:59	T00 =	541.498 mV	541.498 ug C	541.498 ppm
FL# 00146	13:36:34	T00 =	44.5477 mV	44.5477 ug C	44.5477 ppm
FL# 00145	13:28:09	T00 =	246.591 mV	246.591 ug C	246.591 ppm
FL# 00144	13:19:44	T00 =	171.509 mV	171.509 ug C	171.509 ppm
FL# 00143	13:11:19	T00 =	178.733 mV	178.733 ug C	178.733 ppm
FL# 00142	13:02:54	T00 =	46.1170 mV	46.1170 ug C	46.1170 ppm
FL# 00141	12:54:29	T00 =	101.987 mV	101.987 ug C	101.987 ppm

00000000

6-23-11

L# 00175	17:32:14	TOC =	114.247 mV	114.247 ug C	114.247 ppm
L# 00176	17:40:39	TOC =	552.098 mV	552.098 ug C	552.098 ppm
L# 00177	17:49:04	TOC =	33.9532 mV	33.9532 ug C	33.9532 ppm
L# 00178	17:57:29	TOC =	208.842 mV	208.842 ug C	208.842 ppm
L# 00179	18:05:54	TOC =	213.197 mV	213.197 ug C	213.197 ppm
L# 00180	18:14:19	TOC =	182.788 mV	182.788 ug C	182.788 ppm
L# 00181	18:22:44	TOC =	278.861 mV	278.861 ug C	278.861 ppm
* 00182	18:31:09	TOC =	258.342 mV	258.342 ug C	258.342 ppm
= 00183	18:39:24	TOC =	106.332 mV	106.332 ug C	106.332 ppm
L# 00184	18:47:59	TOC =	558.954 mV	558.954 ug C	558.954 ppm
L# 00185	18:56:24	TOC =	584.566 mV	584.566 ug C	584.566 ppm
L# 00186	19:04:53	TOC =	32.4489 mV	32.4489 ug C	32.4489 ppm

6-23-17

6-24-97

PL# 00187	08:45:00	TOC = 92.2320 mV	92.2320 ug C	92.2320 ppm
PL# 00188	08:53:25	TOC = 108.781 mV	108.781 ug C	108.781 ppm
PL# 00189	09:01:50	TOC = 85.1185 mV	85.1185 ug C	85.1185 ppm
PL# 00190	09:10:15	TOC = 51.9309 mV	51.9309 ug C	51.9309 ppm
PL# 00191	09:18:40	TOC = 38.3172 mV	38.3172 ug C	38.3172 ppm
PL# 00192	09:27:05	TOC = 29.8556 mV	29.8556 ug C	29.8556 ppm
PL# 00193	09:35:30	TOC = 27.2467 mV	27.2467 ug C	27.2467 ppm
PL# 00194	09:43:55	TOC = 26.3324 mV	26.3324 ug C	26.3324 ppm
PL# 00195	09:52:20	TOC = 25.2773 mV	25.2773 ug C	25.2773 ppm
PL# 00196	10:00:45	TOC = 25.4483 mV	25.4483 ug C	25.4483 ppm
PL# 00197	10:09:10	TOC = 24.7364 mV	24.7364 ug C	24.7364 ppm
PL# 00198	10:17:35	TOC = 28.1053 mV	28.1053 ug C	28.1053 ppm
PL# 00199	10:26:00	TOC = 24.7079 mV	24.7079 ug C	24.7079 ppm
PL# 00200	10:34:25	TOC = 23.9402 mV	23.9402 ug C	23.9402 ppm
PL# 00201	10:42:50	TOC = 23.9402 mV	23.9402 ug C	23.9402 ppm
PL# 00202	10:51:15	TOC = 546.361 mV ✓	546.361 ug C	546.361 ppm
PL# 00203	10:59:40	TOC = 27.5900 mV	27.5900 ug C	27.5900 ppm
PL# 00204	11:08:05	TOC = 32.5644 mV	32.5644 ug C	32.5644 ppm
PL# 00205	11:16:30	TOC = 29.4533 mV	29.4533 ug C	29.4533 ppm
PL# 00206	11:24:55	TOC = 39.0188 mV	39.0188 ug C	39.0188 ppm
PL# 00207	11:33:20	TOC = 193.849 mV	193.849 ug C	193.849 ppm
PL# 00208	11:41:45	TOC = 228.414 mV	228.414 ug C	228.414 ppm
PL# 00209	11:50:10	TOC = 164.061 mV	164.061 ug C	164.061 ppm
PL# 00210	11:58:35	TOC = 198.263 mV	198.263 ug C	198.263 ppm
PL# 00211	12:07:00	TOC = 85.8513 mV	85.8513 ug C	85.8513 ppm

000030

6-24-91

SPL# 00213	12:23:50		TOC = 85.7238 mV	85.7238 ug C	85.7238 ppm
SPL# 00214	12:32:15		TOC = 567.178 mV	567.178 ug C	567.178 ppm
SPL# 00215	12:40:40		TOC = 31.4100 mV	31.4100 ug C	31.4100 ppm
SPL# 00216	12:49:05		TOC = 26.0470 mV	26.0470 ug C	26.0470 ppm
SPL# 00217	12:57:30		TOC = 24.8502 mV	24.8502 ug C	24.8502 ppm
SPL# 00218	13:05:55		TOC = 25.0210 mV	25.0210 ug C	25.0210 ppm
SPL# 00219	13:14:20		TOC = 20.9374 mV	20.9374 ug C	20.9374 ppm
SPL# 00220	13:22:45		TOC = 557.007 mV	557.007 ug C	557.007 ppm
SPL# 00221	13:31:10		TOC = 27.5327 mV	27.5327 ug C	27.5327 ppm
SPL# 00222	13:39:35		TOC = 78.1247 mV	78.1247 ug C	78.1247 ppm
SPL# 00223	13:48:00		TOC = 92.8449 mV	92.8449 ug C	92.8449 ppm
SPL# 00224	13:56:25		TOC = 93.2324 mV	93.2324 ug C	93.2324 ppm
SPL# 00225	14:04:50		TOC = 97.7070 mV	97.7070 ug C	97.7070 ppm
SPL# 00226	14:13:15		TOC = 98.7496 mV	98.7496 ug C	98.7496 ppm
SPL# 00227	14:21:40		TOC = 416.441 mV	416.441 ug C	416.441 ppm
SPL# 00228	14:30:05	N.L.	TOC = 1516.89 mV	1516.89 ug C	1516.89 ppm
SPL# 00229	14:38:30		TOC = 816.641 mV	816.641 ug C	816.641 ppm
SPL# 00230	14:46:55		TOC = 499.383 mV	499.383 ug C	499.383 ppm
SPL# 00231	14:55:20		TOC = 320.133 mV	320.133 ug C	320.133 ppm
SPL# 00232	15:03:45		TOC = 591.736 mV	591.736 ug C	591.736 ppm
SPL# 00233	15:12:10		TOC = 39.9265 mV	39.9265 ug C	39.9265 ppm
SPL# 00234	15:20:35		TOC = 621.945 mV	621.945 ug C	621.945 ppm
SPL# 00235	15:29:00	N.L.	TOC = 1042.01 mV	1042.01 ug C	1042.01 ppm
SPL# 00236	15:37:25		TOC = 798.789 mV	798.789 ug C	798.789 ppm
SPL# 00237	15:45:50		TOC = 676.698 mV	676.698 ug C	676.698 ppm
SPL# 00238	15:54:15		TOC = 85.0867 mV	85.0867 ug C	85.0867 ppm
SPL# 00239	16:02:40		TOC = 67.4099 mV	67.4099 ug C	67.4099 ppm
SPL# 00240	16:11:05		TOC = 66.1774 mV	66.1774 ug C	66.1774 ppm
SPL# 00241	16:19:30		TOC = 63.1082 mV	63.1082 ug C	63.1082 ppm
SPL# 00242	16:27:55		TOC = 33.8663 mV	33.8663 ug C	33.8663 ppm
SPL# 00243	16:36:20		TOC = 59.9953 mV	59.9953 ug C	59.9953 ppm
SPL# 00244	16:44:45		TOC = 558.038 mV	558.038 ug C	558.038 ppm

PL# 00246	17:01:35	TOC =	56.6583 mV	56.6583 ug C	56.6583 ppm
PL# 00247	17:10:00	TOC =	58.3849 mV	58.3849 ug C	58.3849 ppm
PL# 00248	17:18:25	TOC =	54.7563 mV	54.7563 ug C	54.7563 ppm
PL# 00249	17:26:50	TOC =	72.7103 mV	72.7103 ug C	72.7103 ppm
PL# 00250	17:35:15	TOC =	73.3959 mV	73.3959 ug C	73.3959 ppm
PL# 00251	17:43:40	TOC =	72.3989 mV	72.3989 ug C	72.3989 ppm
PL# 00252	17:52:05	TOC =	77.0878 mV	77.0878 ug C	77.0878 ppm
PL# 00253	18:00:30	TOC =	84.4502 mV	84.4502 ug C	84.4502 ppm
PL# 00254	18:08:55	TOC =	88.5039 mV	88.5039 ug C	88.5039 ppm
PL# 00255	18:17:20	TOC =	88.0236 mV	88.0236 ug C	88.0236 ppm
PL# 00256	18:25:45	TOC =	559.9229 mV	559.9229 ug C	559.9229 ppm
PL# 00257	18:34:10	TOC =	28.0480 mV	28.0480 ug C	28.0480 ppm

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6-24-97

SPL# 00187	08:45:00	TOC = 92.2320 mV	92.2320 ug C	92.2320 ppm
SPL# 00188	08:53:25	TOC = 108.781 mV	108.781 ug C	108.781 ppm
SPL# 00189	09:01:50	TOC = 85.1185 mV	85.1185 ug C	85.1185 ppm
SPL# 00190	09:10:15	TOC = 51.9309 mV	51.9309 ug C	51.9309 ppm
SPL# 00191	09:18:40	TOC = 38.3172 mV	38.3172 ug C	38.3172 ppm
SPL# 00192	09:27:05	TOC = 29.8556 mV	29.8556 ug C	29.8556 ppm
SPL# 00193	09:35:30	TOC = 27.2467 mV	27.2467 ug C	27.2467 ppm
SPL# 00194	09:43:55	TOC = 26.3324 mV	26.3324 ug C	26.3324 ppm
SPL# 00195	09:52:20	TOC = 25.2773 mV	25.2773 ug C	25.2773 ppm
SPL# 00196	10:00:45	TOC = 25.4483 mV	25.4483 ug C	25.4483 ppm
SPL# 00197	10:09:10	TOC = 24.7364 mV	24.7364 ug C	24.7364 ppm
SPL# 00198	10:17:35	TOC = 28.1053 mV	28.1053 ug C	28.1053 ppm
SPL# 00199	10:26:00	TOC = 24.7079 mV	24.7079 ug C	24.7079 ppm
SPL# 00200	10:34:25	TOC = 23.9402 mV	23.9402 ug C	23.9402 ppm
SPL# 00201	10:42:50	TOC = 23.9402 mV	23.9402 ug C	23.9402 ppm
SPL# 00202	10:51:15	TOC = 546.361 mV	546.361 ug C	546.361 ppm
SPL# 00203	10:59:40	TOC = 27.5900 mV	27.5900 ug C	27.5900 ppm
SPL# 00204	11:08:05	TOC = 32.5644 mV	32.5644 ug C	32.5644 ppm
SPL# 00205	11:16:30	TOC = 29.4533 mV	29.4533 ug C	29.4533 ppm
SPL# 00206	11:24:55	TOC = 39.0188 mV	39.0188 ug C	39.0188 ppm
SPL# 00207	11:33:20	TOC = 193.849 mV	193.849 ug C	193.849 ppm
SPL# 00208	11:41:45	TOC = 228.414 mV	228.414 ug C	228.414 ppm
SPL# 00209	11:50:10	TOC = 164.061 mV	164.061 ug C	164.061 ppm
SPL# 00210	11:58:35	TOC = 198.263 mV	198.263 ug C	198.263 ppm
SPL# 00211	12:07:00	TOC = 85.8513 mV	85.8513 ug C	85.8513 ppm

L# 00213	12:23:50		TOC = 85.7238 mV	85.7238 ug C	85.7238 ppm
PL# 00214	12:32:15	6-24-91	TOC = 567.178 mV	567.178 ug C	567.178 ppm
PL# 00215	12:40:40		TOC = 31.4100 mV	31.4100 ug C	31.4100 ppm
L# 00216	12:49:05		TOC = 26.0470 mV	26.0470 ug C	26.0470 ppm
PL# 00217	12:57:30		TOC = 24.8502 mV	24.8502 ug C	24.8502 ppm
L# 00218	13:05:55		TOC = 25.0210 mV	25.0210 ug C	25.0210 ppm
PL# 00219	13:14:20		TOC = 20.9374 mV	20.9374 ug C	20.9374 ppm
PL# 00220	13:22:45		TOC = 557.007 mV	557.007 ug C	557.007 ppm
L# 00221	13:31:10		TOC = 27.5327 mV	27.5327 ug C	27.5327 ppm
PL# 00222	13:39:35		TOC = 78.1247 mV	78.1247 ug C	78.1247 ppm
L# 00223	13:48:00		TOC = 92.8449 mV	92.8449 ug C	92.8449 ppm
PL# 00224	13:56:25		TOC = 93.2324 mV	93.2324 ug C	93.2324 ppm
PL# 00225	14:04:50		TOC = 97.7070 mV	97.7070 ug C	97.7070 ppm
L# 00226	14:13:15		TOC = 98.7496 mV	98.7496 ug C	98.7496 ppm
PL# 00227	14:21:40		TOC = 416.441 mV	416.441 ug C	416.441 ppm
L# 00228	14:30:05	N.L.	TOC = 1516.89 mV	1516.89 ug C	1516.89 ppm
PL# 00229	14:38:30		TOC = 816.641 mV	816.641 ug C	816.641 ppm
PL# 00230	14:46:55		TOC = 499.383 mV	499.383 ug C	499.383 ppm
L# 00231	14:55:20		TOC = 320.133 mV	320.133 ug C	320.133 ppm
PL# 00232	15:03:45		TOC = 591.736 mV	591.736 ug C	591.736 ppm
L# 00233	15:12:10		TOC = 39.9265 mV	39.9265 ug C	39.9265 ppm
PL# 00234	15:20:35		TOC = 621.945 mV	621.945 ug C	621.945 ppm
PL# 00235	15:29:00	N.L.	TOC = 1042.01 mV	1042.01 ug C	1042.01 ppm
PL# 00236	15:37:25		TOC = 798.789 mV	798.789 ug C	798.789 ppm
PL# 00237	15:45:50		TOC = 676.698 mV	676.698 ug C	676.698 ppm
PL# 00238	15:54:15		TOC = 85.0867 mV	85.0867 ug C	85.0867 ppm
PL# 00239	16:02:40		TOC = 67.4099 mV	67.4099 ug C	67.4099 ppm
PL# 00240	16:11:05		TOC = 66.1774 mV	66.1774 ug C	66.1774 ppm
PL# 00241	16:19:30		TOC = 63.1082 mV	63.1082 ug C	63.1082 ppm
PL# 00242	16:27:55		TOC = 33.8663 mV	33.8663 ug C	33.8663 ppm
PL# 00243	16:36:20		TOC = 59.9953 mV	59.9953 ug C	59.9953 ppm
PL# 00244	16:44:45		TOC = 558.038 mV	558.038 ug C	558.038 ppm

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SPL# 00246	17:01:35	TOC =	56.6583 mV	56.6583 ug C	56.6583 ppm
SPL# 00247	17:10:00	TOC =	58.3849 mV	58.3849 ug C	58.3849 ppm
SPL# 00248	17:18:25	TOC =	54.7563 mV	54.7563 ug C	54.7563 ppm
SPL# 00249	17:26:50	TOC =	72.7103 mV	72.7103 ug C	72.7103 ppm
SPL# 00250	17:35:15	TOC =	73.3959 mV	73.3959 ug C	73.3959 ppm
SPL# 00251	17:43:40	TOC =	72.3989 mV	72.3989 ug C	72.3989 ppm
SPL# 00252	17:52:05	TOC =	77.0878 mV	77.0878 ug C	77.0878 ppm
SPL# 00253	18:00:30	TOC =	84.4502 mV	84.4502 ug C	84.4502 ppm
SPL# 00254	18:08:55	TOC =	88.5039 mV	88.5039 ug C	88.5039 ppm
SPL# 00255	18:17:20	TOC =	88.0236 mV	88.0236 ug C	88.0236 ppm
SPL# 00256	18:25:45	TOC =	559.929 mV	559.929 ug C	559.929 ppm
SPL# 00257	18:34:10	TOC =	28.0480 mV	28.0480 ug C	28.0480 ppm

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6-25-97

PL# 00258	09:47:31	TOC = 98.3258 mV	98.3258 ug C	98.3258 ppm
PL# 00259	09:55:56	TOC = 109.014 mV	109.014 ug C	109.014 ppm
PL# 00260	10:04:21	TOC = 83.5286 mV	83.5286 ug C	83.5286 ppm
PL# 00261	10:12:46	TOC = 53.4620 mV	53.4620 ug C	53.4620 ppm
PL# 00262	10:21:11	TOC = 38.1127 mV	38.1127 ug C	38.1127 ppm
PL# 00263	10:30:26	TOC = 31.5542 mV	31.5542 ug C	31.5542 ppm
PL# 00264	10:38:51	TOC = 31.7849 mV	31.7849 ug C	31.7849 ppm
PL# 00265	10:47:16	TOC = 558.840 mV	558.840 ug C	558.840 ppm
PL# 00266	10:55:41	TOC = 40.8064 mV	40.8064 ug C	40.8064 ppm
PL# 00267	11:04:06	TOC = 101.954 mV	101.954 ug C	101.954 ppm
PL# 00268	11:12:31	TOC = 38.5509 mV	38.5509 ug C	38.5509 ppm
PL# 00269	11:20:56	TOC = 568.853 mV	568.853 ug C	568.853 ppm
PL# 00270	11:29:21	TOC = 35.7235 mV	35.7235 ug C	35.7235 ppm
PL# 00271	11:37:46	TOC = 31.0642 mV	31.0642 ug C	31.0642 ppm
PL# 00272	11:46:11	TOC = 83.8144 mV	83.8144 ug C	83.8144 ppm
PL# 00273	11:54:36	TOC = 76.7113 mV	76.7113 ug C	76.7113 ppm
PL# 00274	12:03:01	TOC = 67.4408 mV	67.4408 ug C	67.4408 ppm
PL# 00275	12:11:26	TOC = 68.1508 mV	68.1508 ug C	68.1508 ppm
PL# 00276	12:19:51	TOC = 66.2698 mV	66.2698 ug C	66.2698 ppm
PL# 00277	12:28:16	TOC = 64.3645 mV	64.3645 ug C	64.3645 ppm
PL# 00278	12:36:41	TOC = 66.3313 mV	66.3313 ug C	66.3313 ppm
PL# 00279	12:45:06	TOC = 67.8111 mV	67.8111 ug C	67.8111 ppm
PL# 00280	12:53:31	TOC = 67.3482 mV	67.3482 ug C	67.3482 ppm
PL# 00281	13:01:56	TOC = 560.674 mV	560.674 ug C	560.674 ppm

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PL# 00283	13:18:46		TOC = 28.1626 mV	28.1626 ug C	28.1626 ppm
PL# 00284	13:27:11		TOC = 26.5037 mV	26.5037 ug C	26.5037 ppm
PL# 00285	13:35:36		TOC = 26.5323 mV	26.5323 ug C	26.5323 ppm
PL# 00286	13:44:01		TOC = 25.9329 mV	25.9329 ug C	25.9329 ppm
PL# 00287	13:52:26		TOC = 26.1326 mV	26.1326 ug C	26.1326 ppm
PL# 00288	14:00:51		TOC = 26.5894 mV	26.5894 ug C	26.5894 ppm
PL# 00289	14:09:16		TOC = 25.2773 mV	25.2773 ug C	25.2773 ppm
PL# 00290	14:17:41		TOC = 25.5623 mV	25.5623 ug C	25.5623 ppm
PL# 00291	14:26:06		TOC = 553.295 mV	553.295 ug C	553.295 ppm
PL# 00292	14:34:31		TOC = 31.1794 mV	31.1794 ug C	31.1794 ppm
PL# 00293	14:42:56		TOC = 26.9322 mV	26.9322 ug C	26.9322 ppm
PL# 00294	14:51:21		TOC = 44.3999 mV	44.3999 ug C	44.3999 ppm
PL# 00295	14:59:46		TOC = 772.723 mV	772.723 ug C	772.723 ppm
PL# 00296	15:08:11		TOC = 55.4801 mV	55.4801 ug C	55.4801 ppm
PL# 00297	15:16:36		TOC = 498.027 mV	498.027 ug C	498.027 ppm
PL# 00298	15:25:01		TOC = 635.379 mV	635.379 ug C	635.379 ppm
PL# 00299	15:33:26	N.L.	TOC = 1142.23 mV	1142.23 ug C	1142.23 ppm
PL# 00300	15:41:51	N.L.	TOC = 1210.34 mV	1210.34 ug C	1210.34 ppm
PL# 00301	15:50:16		TOC = 568.217 mV	568.217 ug C	568.217 ppm
PL# 00302	15:58:41		TOC = 263.295 mV	263.295 ug C	263.295 ppm
PL# 00303	16:07:06		TOC = 586.090 mV	586.090 ug C	586.090 ppm
PL# 00304	16:15:31		TOC = 42.3645 mV	42.3645 ug C	42.3645 ppm
PL# 00305	16:23:56		TOC = 53.3117 mV	53.3117 ug C	53.3117 ppm
PL# 00306	16:32:21		TOC = 32.7667 mV	32.7667 ug C	32.7667 ppm
PL# 00307	16:40:46		TOC = 566.255 mV	566.255 ug C	566.255 ppm
PL# 00308	16:49:11		TOC = 37.3831 mV	37.3831 ug C	37.3831 ppm
PL# 00309	16:57:36		TOC = 47.7801 mV	47.7801 ug C	47.7801 ppm
PL# 00310	17:06:01		TOC = 204.784 mV	204.784 ug C	204.784 ppm
PL# 00311	17:14:26		TOC = 218.207 mV	218.207 ug C	218.207 ppm
PL# 00312	17:22:51		TOC = 266.727 mV	266.727 ug C	266.727 ppm
PL# 00313	17:31:16		TOC = 710.995 mV	710.995 ug C	710.995 ppm
PL# 00314	17:39:41		TOC = 752.663 mV	752.663 ug C	752.663 ppm

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PL# 00315	17:48:06	TOC = 255.237 mV	255.237 ug C	255.237 ppm
PL# 00316	17:56:31	TOC = 383.112 mV	383.112 ug C	383.112 ppm
PL# 00317	18:04:56	TOC = 45.1097 mV	45.1097 ug C	45.1097 ppm
PL# 00318	18:13:21	TOC = 55.4499 mV	55.4499 ug C	55.4499 ppm
PL# 00319	18:21:46	TOC = 51.6312 mV	51.6312 ug C	51.6312 ppm
PL# 00320	18:30:11	TOC = 560.445 mV	560.445 ug C	560.445 ppm
PL# 00321	18:38:36	TOC = 37.6165 mV	37.6165 ug C	37.6165 ppm
PL# 00322	18:47:01	TOC = 46.6588 mV	46.6588 ug C	46.6588 ppm
PL# 00323	18:55:26	TOC = 560.043 mV	560.043 ug C	560.043 ppm
PL# 00324	19:03:51	TOC = 33.5767 mV	33.5767 ug C	33.5767 ppm
PL# 00325	07:45:52	TOC = 89.8509 mV	89.8509 ug C	89.8509 ppm
PL# 00326	07:54:17	TOC = 110.043 mV	110.043 ug C	110.043 ppm
PL# 00327	08:02:42	TOC = 83.7191 mV	83.7191 ug C	83.7191 ppm
PL# 00328	08:11:07	TOC = 52.0808 mV	52.0808 ug C	52.0808 ppm
PL# 00329	08:19:32	TOC = 40.1317 mV	40.1317 ug C	40.1317 ppm
PL# 00330	08:27:57	TOC = 34.5910 mV	34.5910 ug C	34.5910 ppm

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PL# 00331	08:36:22	TOC = 31.8138 mV	31.8138 ug C	31.8138 ppm
PL# 00332	08:44:47	TOC = 30.4595 mV	30.4595 ug C	30.4595 ppm
PL# 00333	08:53:12	TOC = 29.3098 mV	29.3098 ug C	29.3098 ppm
PL# 00334	09:01:37	TOC = 28.8219 mV	28.8219 ug C	28.8219 ppm
PL# 00335	09:10:02	TOC = 28.8506 mV	28.8506 ug C	28.8506 ppm
PL# 00336	09:18:27	TOC = 27.8762 mV	27.8762 ug C	27.8762 ppm
PL# 00337	09:26:52	TOC = 27.2181 mV	27.2181 ug C	27.2181 ppm
PL# 00338	09:35:17	TOC = 27.6758 mV	27.6758 ug C	27.6758 ppm
PL# 00339	09:43:42	TOC = 27.5041 mV	27.5041 ug C	27.5041 ppm
PL# 00340	09:52:07	TOC = 28.2772 mV	28.2772 ug C	28.2772 ppm
PL# 00341	10:00:32	TOC = 27.4183 mV	27.4183 ug C	27.4183 ppm
PL# 00342	10:08:57	TOC = 27.1609 mV	27.1609 ug C	27.1609 ppm
PL# 00343	10:17:22	TOC = 28.1053 mV	28.1053 ug C	28.1053 ppm
PL# 00344	10:25:47	TOC = 28.5065 mV	28.5065 ug C	28.5065 ppm
PL# 00345	10:34:12	TOC = 28.2199 mV	28.2199 ug C	28.2199 ppm
PL# 00346	10:42:37	TOC = 551.700 mV	551.700 ug C	551.700 ppm
PL# 00347	10:51:02	TOC = 32.1312 mV	32.1312 ug C	32.1312 ppm
PL# 00348	10:59:27	TOC = 162.901 mV	162.901 ug C	162.901 ppm
PL# 00349	11:07:52	TOC = 162.937 mV	162.937 ug C	162.937 ppm
PL# 00350	11:16:17	TOC = 163.372 mV	163.372 ug C	163.372 ppm
PL# 00351	11:24:42	TOC = 163.879 mV	163.879 ug C	163.879 ppm
PL# 00352	11:33:07	TOC = 127.448 mV	127.448 ug C	127.448 ppm
PL# 00353	11:41:32	TOC = 124.887 mV	124.887 ug C	124.887 ppm
PL# 00354	11:49:57	TOC = 130.708 mV	130.708 ug C	130.708 ppm
PL# 00355	11:58:22	TOC = 130.605 mV	130.605 ug C	130.605 ppm

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PL# 00357	12:15:12	TOC = 115.185 mV	115.185 ug C	115.185 ppm
PL# 00358	12:23:37	TOC = 560.043 mV	560.043 ug C	560.043 ppm
PL# 00359	12:32:02	TOC = 33.0559 mV	33.0559 ug C	33.0559 ppm
PL# 00360	12:40:27	TOC = 28.1339 mV	28.1339 ug C	28.1339 ppm
PL# 00361	12:48:52	TOC = 29.4246 mV	29.4246 ug C	29.4246 ppm
PL# 00362	12:57:17	TOC = 27.5327 mV	27.5327 ug C	27.5327 ppm
PL# 00363	13:05:42	TOC = 26.8465 mV	26.8465 ug C	26.8465 ppm
PL# 00364	13:14:07	TOC = 26.8751 mV	26.8751 ug C	26.8751 ppm
PL# 00365	13:22:32	TOC = 25.7618 mV	25.7618 ug C	25.7618 ppm
PL# 00366	13:30:57	TOC = 26.7608 mV	26.7608 ug C	26.7608 ppm
PL# 00367	13:39:22	TOC = 28.6498 mV	28.6498 ug C	28.6498 ppm
PL# 00368	13:47:47	TOC = 536.600 mV	536.600 ug C	536.600 ppm
PL# 00369	13:56:12	TOC = 37.5289 mV	37.5289 ug C	37.5289 ppm
PL# 00370	14:04:37	TOC = 111.841 mV	111.841 ug C	111.841 ppm
PL# 00371	14:13:02	TOC = 114.917 mV	114.917 ug C	114.917 ppm
PL# 00372	14:21:27	TOC = 104.188 mV	104.188 ug C	104.188 ppm
PL# 00373	14:29:52	TOC = 104.155 mV	104.155 ug C	104.155 ppm
PL# 00374	14:38:17	TOC = 106.629 mV	106.629 ug C	106.629 ppm
PL# 00375	14:46:42	TOC = 103.695 mV	103.695 ug C	103.695 ppm
PL# 00376	14:55:07	TOC = 159.326 mV	159.326 ug C	159.326 ppm
PL# 00377	15:03:32	TOC = 156.488 mV	156.488 ug C	156.488 ppm
PL# 00378	15:11:57	TOC = 158.966 mV	158.966 ug C	158.966 ppm
PL# 00379	15:20:22	TOC = 155.986 mV	155.986 ug C	155.986 ppm
PL# 00380	15:28:47	TOC = 544.209 mV	544.209 ug C	544.209 ppm
PL# 00381	15:37:12	TOC = 40.6009 mV	40.6009 ug C	40.6009 ppm
PL# 00382	15:45:37	TOC = 107.224 mV	107.224 ug C	107.224 ppm
PL# 00383	15:54:02	TOC = 107.721 mV	107.721 ug C	107.721 ppm
PL# 00384	16:02:27	TOC = 109.943 mV	109.943 ug C	109.943 ppm
PL# 00385	16:10:52	TOC = 106.530 mV	106.530 ug C	106.530 ppm
PL# 00386	16:19:17	TOC = 148.402 mV	148.402 ug C	148.402 ppm
PL# 00387	16:27:42	TOC = 153.163 mV	153.163 ug C	153.163 ppm
PL# 00388	16:36:07	TOC = 145.788 mV	145.788 ug C	145.788 ppm

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PL# 00390	16:52:57	TOC =	198.110 mV	198.110 ug C	198.110 ppm
PL# 00391	17:01:22	TOC =	199.180 mV	199.180 ug C	199.180 ppm
PL# 00392	17:09:47	TOC =	564.181 mV	564.181 ug C	564.181 ppm
PL# 00393	17:18:12	TOC =	33.7794 mV	33.7794 ug C	33.7794 ppm
PL# 00394	17:26:37	TOC =	187.769 mV	187.769 ug C	187.769 ppm
PL# 00395	17:35:02	TOC =	192.371 mV	192.371 ug C	192.371 ppm
PL# 00396	17:43:27	TOC =	121.319 mV	121.319 ug C	121.319 ppm
PL# 00397	17:51:52	TOC =	120.135 mV	120.135 ug C	120.135 ppm
PL# 00398	18:00:17	TOC =	116.528 mV	116.528 ug C	116.528 ppm
PL# 00399	18:08:42	TOC =	110.376 mV	110.376 ug C	110.376 ppm
PL# 00400	18:17:07	TOC =	255.071 mV	255.071 ug C	255.071 ppm
PL# 00401	18:25:32	TOC =	266.811 mV	266.811 ug C	266.811 ppm
PL# 00402	18:33:57	TOC =	267.483 mV	267.483 ug C	267.483 ppm
PL# 00403	18:42:22	TOC =	262.502 mV	262.502 ug C	262.502 ppm
PL# 00404	18:50:47	TOC =	567.871 mV	567.871 ug C	567.871 ppm
PL# 00405	18:59:12	TOC =	34.7650 mV	34.7650 ug C	34.7650 ppm
PL# 00406	19:07:37	TOC =	32.0158 mV	32.0158 ug C	32.0158 ppm
PL# 00407	19:16:02	TOC =	29.2523 mV	29.2523 ug C	29.2523 ppm

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SPL# 00408	06:13:15	TOC =	75.8023 mV	75.8023 ug C	75.8023 ppm
SPL# 00409	06:21:40	TOC =	104.781 mV	104.781 ug C	104.781 ppm
SPL# 00410	06:30:05	TOC =	78.5967 mV	78.5967 ug C	78.5967 ppm
SPL# 00411	06:38:30	TOC =	51.1520 mV	51.1520 ug C	51.1520 ppm
SPL# 00412	06:46:55	TOC =	44.4590 mV	44.4590 ug C	44.4590 ppm
SPL# 00413	06:55:20	TOC =	38.6971 mV	38.6971 ug C	38.6971 ppm
SPL# 00414	07:03:45	TOC =	38.7848 mV	38.7848 ug C	38.7848 ppm
SPL# 00415	07:12:10	TOC =	36.0724 mV	36.0724 ug C	36.0724 ppm
SPL# 00416	07:20:35	TOC =	36.7128 mV	36.7128 ug C	36.7128 ppm
SPL# 00417	07:29:00	TOC =	35.9561 mV	35.9561 ug C	35.9561 ppm
SPL# 00418	07:37:25	TOC =	36.8293 mV	36.8293 ug C	36.8293 ppm
SPL# 00419	07:45:50	TOC =	34.0981 mV	34.0981 ug C	34.0981 ppm
SPL# 00420	07:54:15	TOC =	35.0553 mV	35.0553 ug C	35.0553 ppm
SPL# 00421	08:02:40	TOC =	33.9822 mV	33.9822 ug C	33.9822 ppm
SPL# 00422	08:11:05	TOC =	33.5188 mV	33.5188 ug C	33.5188 ppm
SPL# 00423	08:19:30	TOC =	31.8426 mV	31.8426 ug C	31.8426 ppm
SPL# 00424	08:27:55	TOC =	29.5682 mV	29.5682 ug C	29.5682 ppm
SPL# 00425	08:36:20	TOC =	29.6544 mV	29.6544 ug C	29.6544 ppm
SPL# 00426	08:44:45	TOC =	592.326 mV	592.326 ug C	592.326 ppm
SPL# 00427	08:53:10	TOC =	34.0111 mV	34.0111 ug C	34.0111 ppm
SPL# 00428	09:01:35	TOC =	19.0767 mV	19.0767 ug C	19.0767 ppm
SPL# 00429	09:10:00	TOC =	16.6624 mV	16.6624 ug C	16.6624 ppm
SPL# 00430	09:18:25	TOC =	16.2145 mV	16.2145 ug C	16.2145 ppm
SPL# 00431	09:26:50	TOC =	14.9848 mV	14.9848 ug C	14.9848 ppm
SPL# 00432	09:35:15	TOC =	14.5728 mV	14.5728 ug C	14.5728 ppm

000072



*Time correct
Kyl
6-27-97*

SPL# 00435	09:52:05	TOC =	169.159 mV	169.159 ng C	169.159 ppm
SPL# 00434	10:00:30	TOC =	97.8372 mV	97.8372 ng C	97.8372 ppm
SPL# 00436	10:08:55	TOC =	98.2606 mV	98.2606 ng C	98.2606 ppm
SPL# 00437	10:17:20	TOC =	95.8870 mV	95.8870 ng C	95.8870 ppm
SPL# 00438	10:25:45	TOC =	86.9684 mV	86.9684 ng C	86.9684 ppm
SPL# 00439	10:34:10	TOC =	115.655 mV	115.655 ng C	115.655 ppm
SPL# 00440	10:42:35	TOC =	128.510 mV	128.510 ng C	128.510 ppm
SPL# 00441	10:51:00	TOC =	123.084 mV	123.084 ng C	123.084 ppm
SPL# 00442	10:59:25	TOC =	120.744 mV	120.744 ng C	120.744 ppm
SPL# 00444	11:16:45	TOC =	250.787 mV	250.787 ng C	250.787 ppm
SPL# 00445	00:08:35	TOC =	551.188 mV	551.188 ng C	551.188 ppm
SPL# 00446	00:17:00	TOC =	28.8219 mV	28.8219 ng C	28.8219 ppm
SPL# 00447	00:25:25	TOC =	240.305 mV	240.305 ng C	240.305 ppm
SPL# 00448	00:33:50	TOC =	253.915 mV	253.915 ng C	253.915 ppm
SPL# 00449	00:42:15	TOC =	254.411 mV	254.411 ng C	254.411 ppm
SPL# 00450	00:50:40	TOC =	143.466 mV	143.466 ng C	143.466 ppm
SPL# 00451	00:59:05	TOC =	143.852 mV	143.852 ng C	143.852 ppm
SPL# 00452	01:07:30	TOC =	143.747 mV	143.747 ng C	143.747 ppm
SPL# 00453	01:15:55	TOC =	142.939 mV	142.939 ng C	142.939 ppm
SPL# 00454	01:24:20	TOC =	109.379 mV	109.379 ng C	109.379 ppm
SPL# 00455	01:32:45	TOC =	107.721 mV	107.721 ng C	107.721 ppm
SPL# 00456	01:41:10	TOC =	109.379 mV	109.379 ng C	109.379 ppm
SPL# 00457	01:49:35	TOC =	108.085 mV	108.085 ng C	108.085 ppm
SPL# 00458	01:58:00	TOC =	575.752 mV	575.752 ng C	575.752 ppm
SPL# 00459	02:06:25	TOC =	25.7618 mV	25.7618 ng C	25.7618 ppm
SPL# 00460	02:14:50	TOC =	102.053 mV	102.053 ng C	102.053 ppm
SPL# 00461	02:23:15	TOC =	107.059 mV	107.059 ng C	107.059 ppm
SPL# 00462	02:31:40	TOC =	107.853 mV	107.853 ng C	107.853 ppm
SPL# 00463	02:40:05	TOC =	106.761 mV	106.761 ng C	106.761 ppm
SPL# 00464	02:48:30	TOC =	108.383 mV	108.383 ng C	108.383 ppm
SPL# 00465	02:56:55	TOC =	446.640 mV	446.640 ng C	446.640 ppm
SPL# 00467	03:05:20	TOC =	449.531 mV	449.531 ng C	449.531 ppm

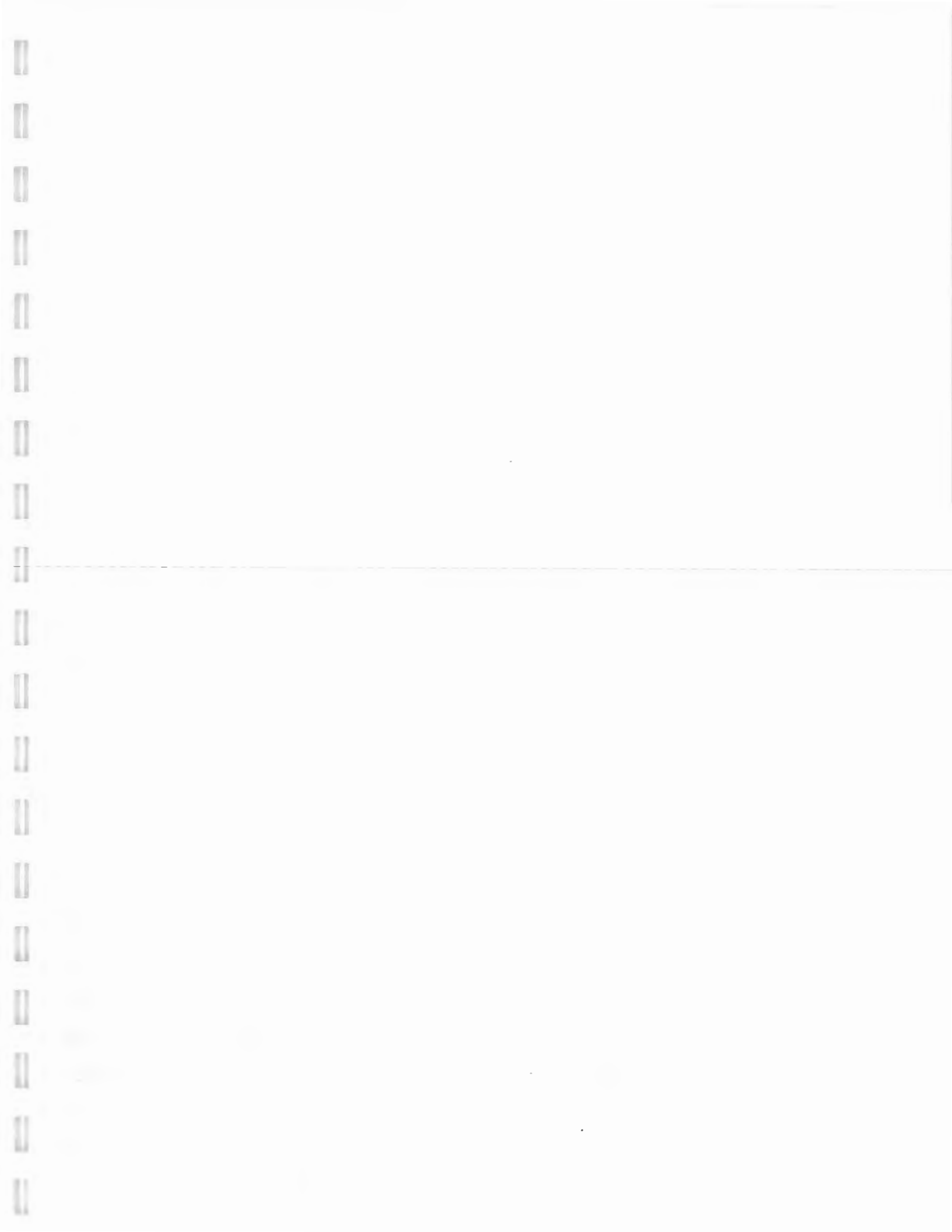
000073

low 432

6-22-97

04:29:30	S L# 00476	TOC =	24.8787 mV	24.8787 ug C	24.8787 ppm
04:21:05	S L# 00475	TOC =	576.741 mV	576.741 ug C	576.741 ppm
04:12:40	S L# 00474	TOC =	103.826 mV	103.826 ug C	103.826 ppm
04:04:15	S L# 00473	TOC =	103.267 mV	103.267 ug C	103.267 ppm
03:55:50	S L# 00472	TOC =	103.629 mV	103.629 ug C	103.629 ppm
03:47:25	S L# 00471	TOC =	102.742 mV	102.742 ug C	102.742 ppm
03:39:00	S L# 00470	TOC =	26.9894 mV	26.9894 ug C	26.9894 ppm
03:10:05	S L# 00469	TOC =	583.219 mV	583.219 ug C	583.219 ppm
03:02:10	S L# 00468	TOC =	444.375 mV	444.375 ug C	444.375 ppm

6-2-95



NITRITE-NITROGEN



RUN DATE: 07-03-1997
 SAMPLE TABLE NAME: NO30703A

07/03/97
Nitrate/Nitrite
1502

PEAK/CUP#	SAMPLE ID	DIL.	WGT	HEIGHT	CALC VALUE	EF
1	1 SYNC	1	1	3324	0.19702	s
2	2 W	1	1	0	0.00066	b
3	3 S1: .2	1	1	3405	0.20100	N
4	4 S2: .15	1	1	2499	0.14828	
5	5 S3: .1	1	1	1665	0.09901	
6	6 S4: .05	1	1	832	0.04981	
7	7 S5: .02	1	1	329	0.02009	
8	8 S6: .01	1	1	164	0.01034	
9	9 S7: 0	1	1	0	0.00066	I

INTERCEPT: -11.11914
 CORRELATION COEF: .9998902

LINEAR COEF: 16927.99

10	10 W	1	1	0	0.00066	b
11	11 ICV ERA9976	25	1	2103	3.12222	
12	12 ICB	1	1	2	0.00077	I
13	13 334254	10	1	425	0.25763	
14	14 334191	100	1	926	5.53592	
15	15 334204	1	1	816	0.04886	
16	16 334206	1	1	323	0.01974	
17	17 334208	1	1	516	0.03114	
18	18 334210	1	1	0	OVR	O
19	19 334213	1	1	124	0.00798	I
20	20 334215	1	1	0	OVR	O
21	21 334217	1	1	296	0.01814	
22	22 334219	1	1	0	OVR	O
23	23 CCV#1ERA9976	25	1	2139	3.17539	N
24	24 CCB#1	1	1	53	0.00379	I
25	25 334221	1	1	1149	0.06853	
26	26 334223	1	1	185	0.01159	
27	27 334225	1	1	880	0.05264	
28	28 334227	1	1	2657	0.15762	N
29	29 334438	1	1	757	0.04538	
30	30 334442	250	1	2697	39.99470	
31	31 334574	5	1	119	0.03843	
32	32 334575	25	1	1589	2.36313	N
33	33 334576	25	1	3385	5.01554	
34	34 334577	1	1	1335	0.07952	
35	35 CCV#2ERA9976	25	1	2065	3.06610	
36	36 CCB#2	1	1	45	0.00332	I
37	37 334578	1	1	771	0.04620	
38	38 333983	50	1	433	1.31179	
39	39 333984	50	1	422	1.27930	
40	40 334444	1	1	791	0.04738	
41	41 334446	1	1	719	0.04313	
42	42 334448	1	1	0	OVR	O
43	43 334450	1	1	0	OVR	O
44	44 334452	1	1	365	0.02222	
45	45 334454	1	1	0	OVR	O
46	46 334454DP	1	1	51	0.00367	I
47	47 CCV#3ERA9976	25	1	2060	3.05872	
48	48 CCB#3	1	1	38	0.00290	I
49	49 334454MS	1	1	16	0.00160	I
50	50 334132	1	1	0	OVR	O
51	51 334133	1	1	0	OVR	O
52	52 0.2MG/L NO2	1	1	3403	0.20100	000075
53	53 CCV#4ERA9976	25	1	2052	3.04691	

Delete/Remove
07/03/97

RUN DATE: 07-03-1997
 SAMPLE TABLE NAME: NO30703B

PEAK/CUP#	SAMPLE ID	DIL	WGT	HEIGHT	CALC VALUE	EF
1	1 SYNC	1	1	3332	0.20563	s
2	2 W	1	1	0	0.00177	b
3	3 S1: .2	1	1	3287	0.20288	
4	4 S2: .15	1	1	2384	0.14763	
5	5 S3: .1	1	1	1574	0.09807	
6	6 S4: .05	1	1	782	0.04962	
7	7 S5: .02	1	1	285	0.01921	
8	8 S6: .01	1	1	148	0.01083	
9	9 S7: 0	1	1	0	0.00177	I

INTERCEPT: -28.95961
 CORRELATION COEF: .9996862

LINEAR COEF: 16344.75

10	10 W	1	1	0	0.00177	
11	11 ICV ERA9976	25	1	2052	3.18 3.18292	(99.2%) K0.01
12	12 ICB	1	1	14	0.00263	
13	13 334254	10	1	425	0.27774	
14	14 334191	100	1	935	5.89767	
15	15 334204	1	1	808	0.05121	
16	16 334206	1	1	326	0.02172	
17	17 334208	1	1	502	0.03249	
18	18 334210	2	1	1813	0.22539	
19	19 334213	1	1	113	0.00869	
20	20 334215	10	1	712	0.45333	
21	21 334217	1	1	253	0.01725	
22	22 334219	10	1	619	0.39643	
23	23 CCV#1ERA9976	25	1	2067	3.21 3.20586	(100%) K0.01
24	24 CCB#1	1	1	28	0.00348	
25	25 334221	1	1	1158	0.07262	
26	26 334223	1	1	184	0.01303	
27	27 334225	1	1	903	0.05702	
28	28 334227	1	1	2600	0.16084	
29	29 334438	1	1	869	0.05494	
30	30 334442	250	1	2516	38.92626	
31	31 334574	5	1	111	0.04281	
32	32 334575	25	1	1488	2.32026	
33	33 334576	50	1	1516	4.72616	
34	34 334577	1	1	1270	0.07947	
35	35 CCV#2ERA9976	25	1	1866	2.90 2.89842	(99%) K0.01
36	36 CCB#2	1	1	15	0.00269	
37	37 334578	1	1	685	0.04368	
38	38 333983	50	1	372	1.22657	
39	39 333984	50	1	371	1.22351	
40	40 334444	1	1	736	0.04680	
41	41 334446	1	1	648	0.04142	
42	42 334448	20	1	1225	1.53439	
43	43 334450	20	1	862	1.09021	
44	44 334452	1	1	257	0.01750	
45	45 334454	10	1	1050	0.66013	
46	46 334454DP	10	1	1017	0.63994	
47	47 CCV#3ERA9976	25	1	1904	2.96 2.95655	(92.8%) K0.01
48	48 CCB#3	1	1	17	0.00281	
49	49 334454MS	25	1	956	1.50654	
50	50 334132	20	1	0	OVR 0	
51	51 334133	10	1	0	OVR 0	
52	52 0.2MG/L NO2	1	1	3427	0.21144	(80.8%) K0.01
53	53 CCV#4ERA9976	25	1	1909	2.96 2.96419	(92.8%) K0.01
54	54 CCB#4	1	1	22	0.00270	

CHANNEL NAME: CHANNEL 1
 RUN DATE: 07-03-1997
 SAMPLE TABLE NAME: NO30703C

173
 Nitrate/Nitrite Zed/CC- 2.240767E 317

PEAK/CUP#	SAMPLE ID	DIL	WGT	HEIGHT	CALC VALUE	EF
1	1	1	1	3399	0.21420	N
2	2	1	1	0	-0.00046	b
3	3	1	1	3213	0.20245	
4	4	1	1	2342	0.14745	
5	5	1	1	1563	0.09825	
6	6	1	1	814	0.05095	
7	7	1	1	339	0.02095	
8	8	1	1	167	0.01009	
9	9	1	1	5	-0.00014	I

INTERCEPT: 7.233447 LINEAR COEF: 15834.65
 CORRELATION COEF: .9997537

10	10	1	1	0	-0.00046	b
11	11	25	1	1963	3.08780	
12	12	1	1	12	0.00030	I
13	13	10	1	1954	1.22943	
14	14	10	1	905	0.56696	
15	15	1	1	3440	0.21679	R
16	16	25	1	1965	3.09095	
17	17	1	1	39	0.00201	I

334454 IP

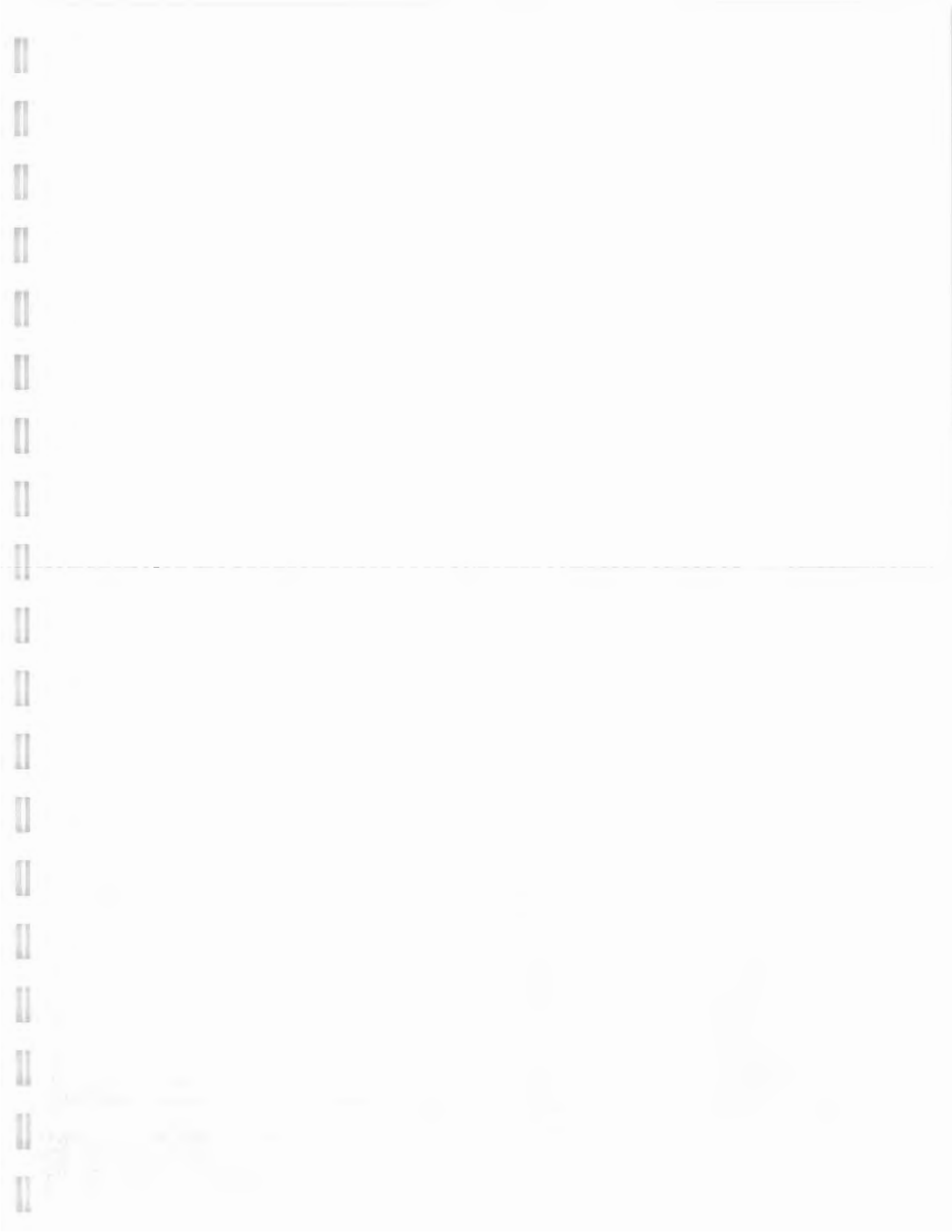
$$\frac{0.66 - 0.64}{0.65} \times 100 = 3.1\% \text{ RPD}$$

334454 mg

$$1) 1 \times \frac{1}{1000} = 0.001 \text{ mg}$$

$$2) \frac{0.001 \text{ mg}}{1 \text{ mL}} \times \frac{1000}{L} = 1 \text{ mg/L}$$

$$3) \frac{1.5 - 0.66}{1} \times 100 = 84.0\% \text{ Spike Rec}$$



ION CHROMATOGRAPHY



I#	Sample Name	Method	Data File	Vol.	Dil.	Int.Std.
1	ICV	..\AS4A.met	070897AA	1	1	1
2	ICB	..\AS4A.met	070897AA	1	1	1
	334132	..\AS4A.met	070897AA	1	10	1
4	334132	..\AS4A.met	070897AA	1	1	1
5	334133	..\AS4A.met	070897AA	1	10	1
	334133	..\AS4A.met	070897AA	1	1	1
	334204	..\AS4A.met	070897AA	1	10	1
8	334204	..\AS4A.met	070897AA	1	1	1
	334206	..\AS4A.met	070897AA	1	10	1
0	334206	..\AS4A.met	070897AA	1	1	1
11	334208	..\AS4A.met	070897AA	1	10	1
12	334208	..\AS4A.met	070897AA	1	1	1
3	CCV#1	..\AS4A.met	070897AA	1	1	1
14	CCB#1	..\AS4A.met	070897AA	1	1	1
15	334210	..\AS4A.met	070897AA	1	10	1
6	334210	..\AS4A.met	070897AA	1	1	1
7	334213	..\AS4A.met	070897AA	1	10	1
18	334213	..\AS4A.met	070897AA	1	1	1
9	334215	..\AS4A.met	070897AA	1	10	1
0	334215	..\AS4A.met	070897AA	1	1	1
21	334217	..\AS4A.met	070897AA	1	10	1
22	334217	..\AS4A.met	070897AA	1	1	1
3	334219	..\AS4A.met	070897AA	1	10	1
4	334219	..\AS4A.met	070897AA	1	1	1
25	CCV#2	..\AS4A.met	070897AA	1	1	1
6	CCB#2	..\AS4A.met	070897AA	1	1	1
7	334221	..\AS4A.met	070897AA	1	10	1
28	334221	..\AS4A.met	070897AA	1	1	1
29	334223	..\AS4A.met	070897AA	1	10	1
30	334223	..\AS4A.met	070897AA	1	1	1
31	334225	..\AS4A.met	070897AA	1	10	1
32	334225	..\AS4A.met	070897AA	1	1	1
33	334227	..\AS4A.met	070897AA	1	10	1
34	334227	..\AS4A.met	070897AA	1	1	1
35	334444	..\AS4A.met	070897AA	1	10	1
36	334444	..\AS4A.met	070897AA	1	1	1
37	CCV#3	..\AS4A.met	070897AA	1	1	1
38	CCB#3	..\AS4A.met	070897AA	1	1	1
39	334446+	..\AS4A.met	070897AA	1	10	1
40	334446	..\AS4A.met	070897AA	1	1	1
41	334448	..\AS4A.met	070897AA	1	10	1
42	334448	..\AS4A.met	070897AA	1	1	1
43	334450	..\AS4A.met	070897AA	1	10	1
44	334450	..\AS4A.met	070897AA	1	1	1
45	334452	..\AS4A.met	070897AA	1	10	1
46	334452	..\AS4A.met	070897AA	1	1	1
47	334454	..\AS4A.met	070897AA	1	10	1
48	334454	..\AS4A.met	070897AA	1	1	1
49	CCV#4	..\AS4A.met	070897AA	1	1	1
50	CCB#4	..\AS4A.met	070897AA	1	1	1
51	STOP	..\STOP.met	STOP	1	1	1

Comment:

```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D01   Report Date: 7/8/97 2:36:09 PM
Sample Name: ICV                               Collected  : 7/8/97 2:26:52 PM
Inject #    : 1                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate        : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

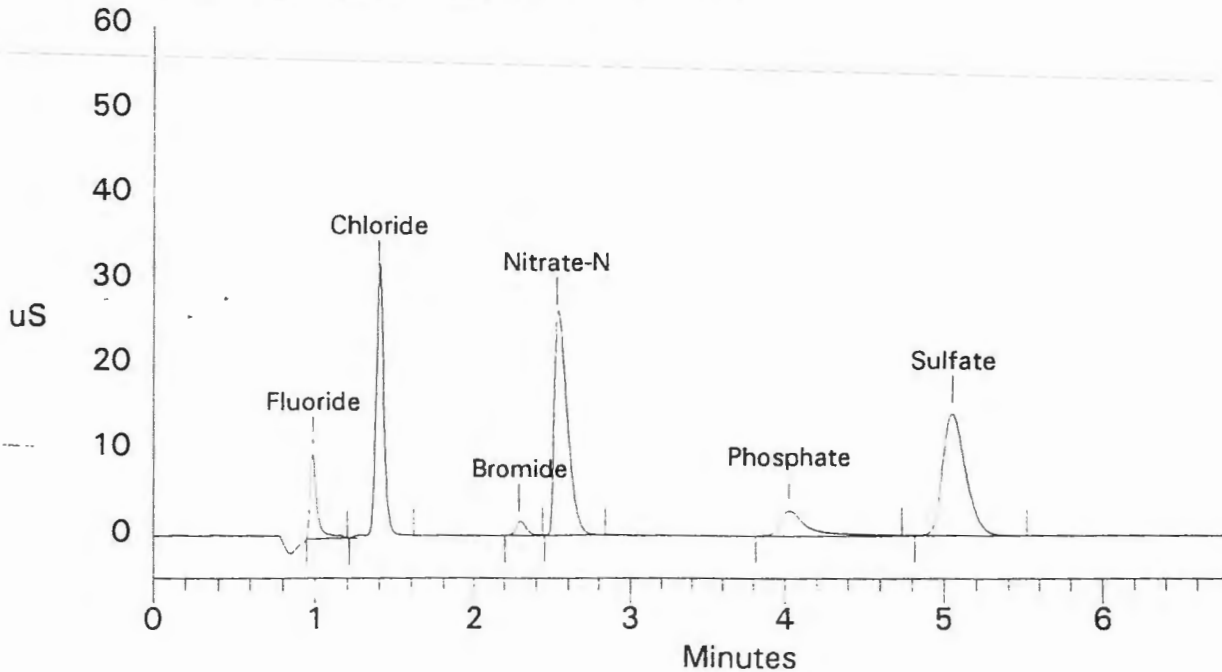
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          -1    0.00  6.80    5200    8.50    2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.99	Fluoride	0.970	98402	298703	1	1.37
2	1.40	Chloride	5.088	302881	1080371	1	0.72
3	2.29	Bromide	1.025	15636	73293	2	-1.71
4	2.53	Nitrate-N	2.989	257666	1510095	2	-4.04
5	4.03	Phosphate	1.698	29408	354605	2	0.33
6	5.05	Sulfate	10.527	142304	1422564	2	-0.79
Totals			22.297	846296	4739631		

File: 070897AA.D01 Sample ICV



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D02   Report Date: 7/8/97 2:45:37 PM
Sample Name: ICB                               Collected  : 7/8/97 2:36:20 PM
Project #   : 2                               Vial #      :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM             Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                   Moduleware  : 1.17
=====

```

```

-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          1  0.00  6.80          5200          8.50          2.50
-----

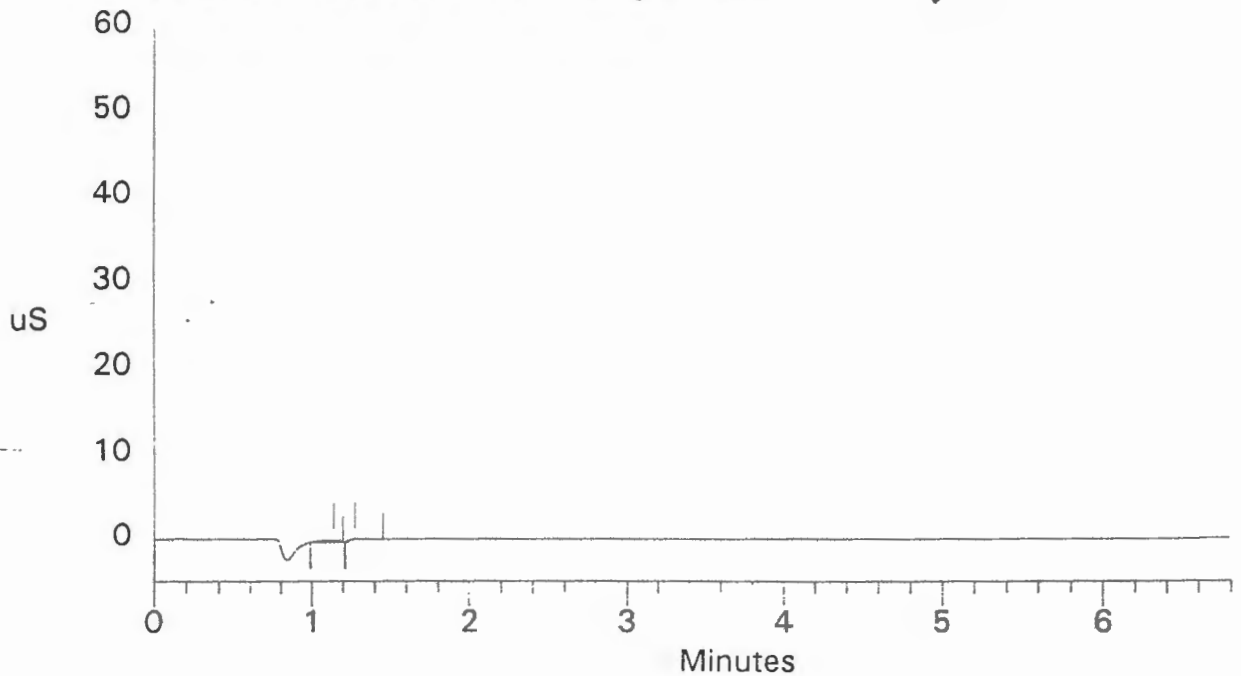
```

***** Component Report: All Components *****

PK. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
Totals			0.000	0	0		

File: 070897AA.D02 Sample ICB

ALL LC. Analyte



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D03   Report Date: 7/8/97 2:55:03 PM
Sample Name: 334132                           Collected  : 7/8/97 2:45:47 PM
Inject #    : 3                               Vial #     :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector   : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware : 1.17
=====

```

```

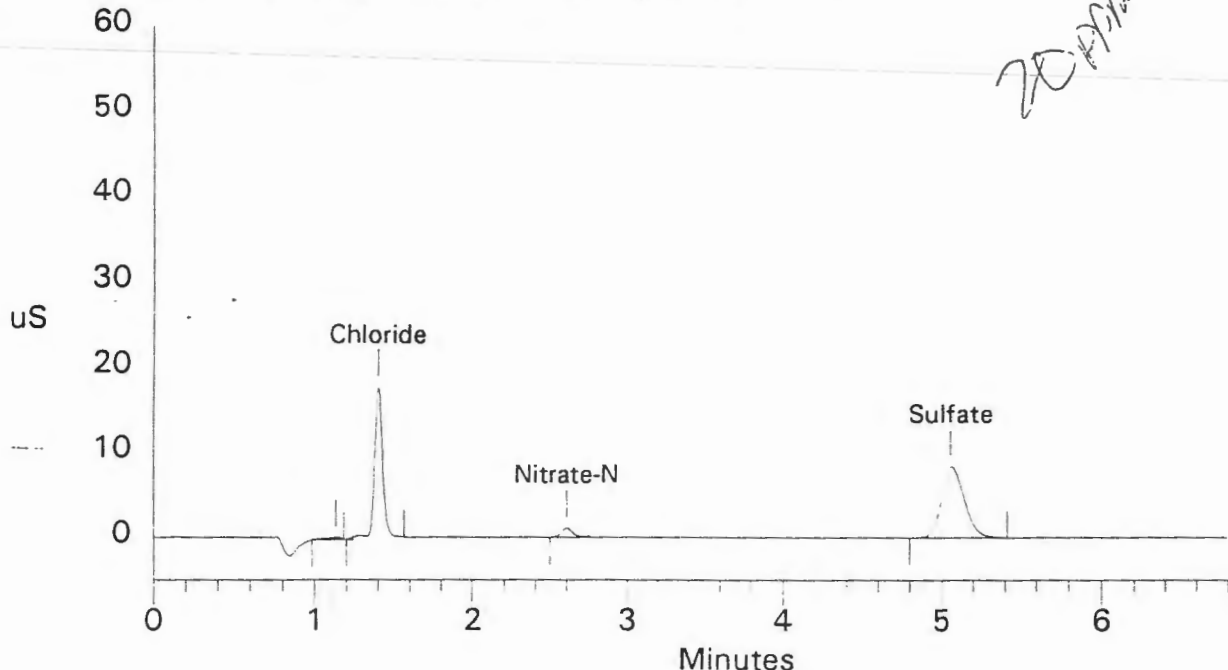
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10  0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.40	Chloride	30.567 ✓	176048	632932	1	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
3	2.60	Nitrate-N	2.552	10404	52614	1	-1.52
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.05	Sulfate	62.816 ✓	82322	822082	1	-0.79
Totals			95.934	268774	1507628		

File: 070897AA.D03 Sample 334132



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D04   Report Date: 7/8/97 3:04:31 PM
Sample Name: 334132                           Collected  : 7/8/97 2:55:14 PM
Inject #    : 4                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate        : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

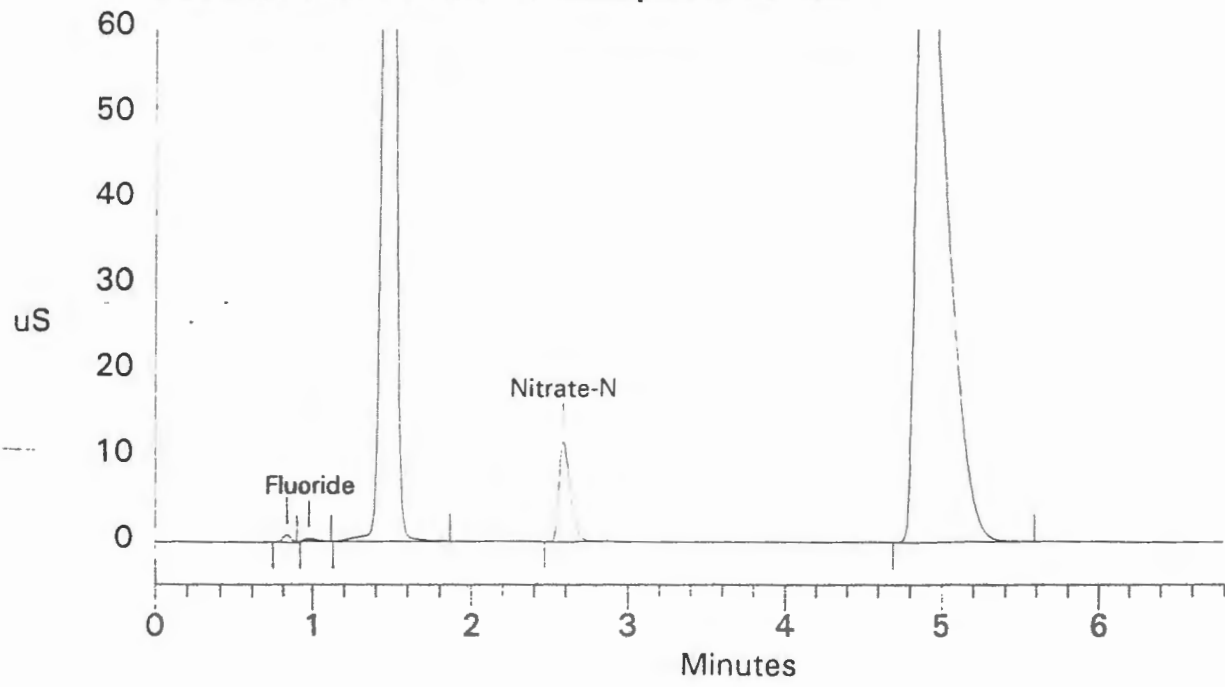
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           1  0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.97	Fluoride	0.092	3770	20021	1	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
4	2.59	Nitrate-N	1.302	116714	605026	1	-2.02
0	0.00	Phosphate	0.000	0	0	0	0.00
5	4.88	Sulfate	41.511	812461	10481949	1	-4.19
Totals			42.905	932945	11106995		

File: 070897AA.D04 Sample 334132



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D05   Report Date: 7/8/97 3:13:54 PM
Sample Name: 334133                           Collected  : 7/8/97 3:04:41 PM
Inject #    : 5                               Vial #     :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector   : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware : 1.17
=====

```

```

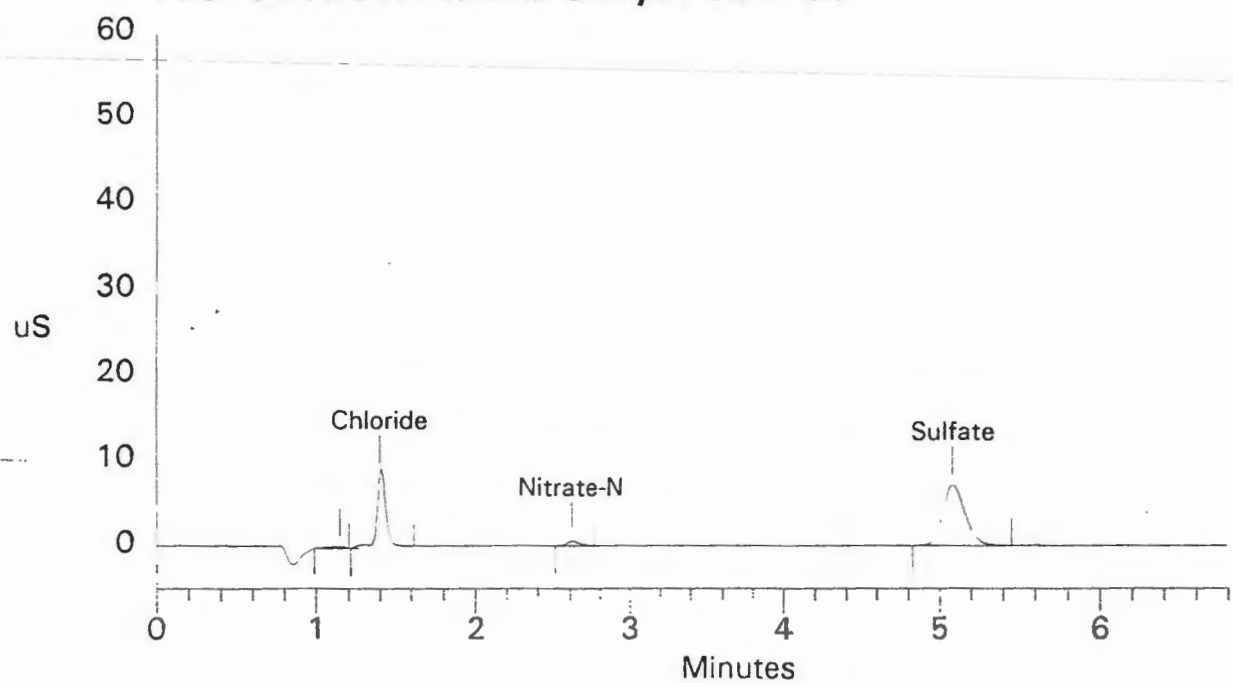
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10  0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.40	Chloride	17.821	85599	357925	1	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
3	2.61	Nitrate-N	2.075	5308	27627	1	-1.01
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.08	Sulfate	54.165	70856	704250	1	-0.26
Totals			74.061	161763	1089802		

File: 070897AA.D05 Sample 334133




```

=====
Data File   : C:\PEAKNET\DATA\070897aa.d06   Report Date: 7/9/97 10:48:17 AM
Sample Name: 334133                           Collected  : 7/8/97 3:14:04 PM
Project #   : 6                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate        : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

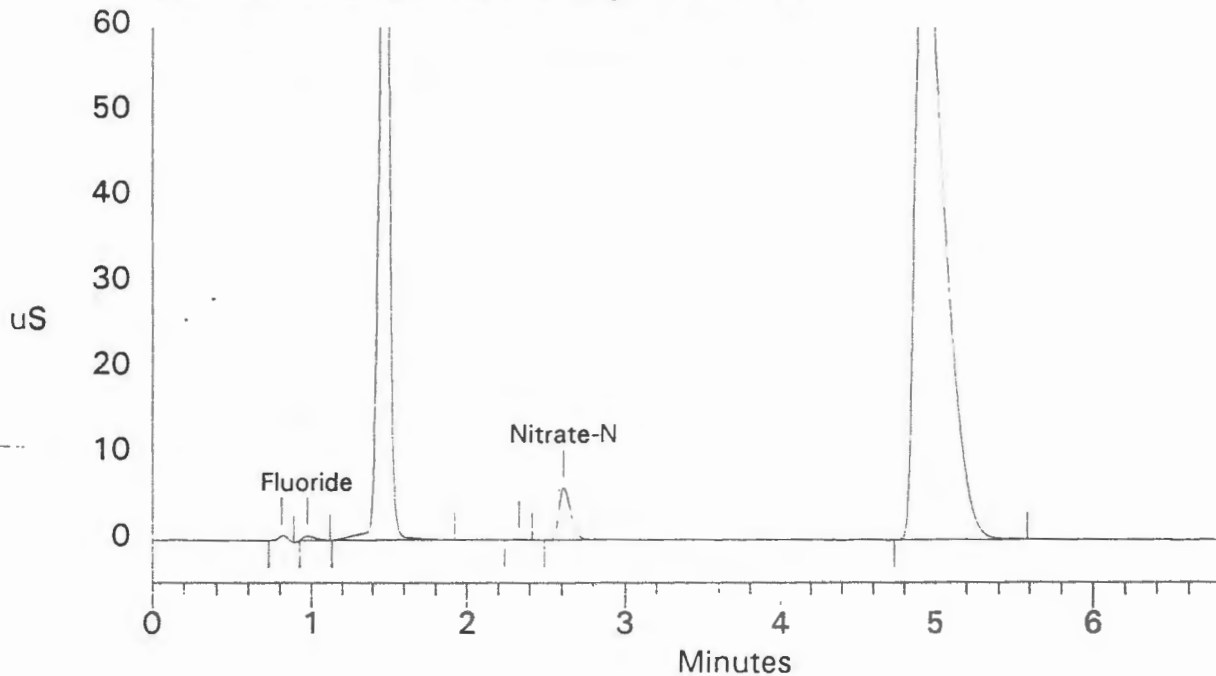
=====
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          -1    0.00  6.80      5200      8.50      2.50
=====

```

***** Component Report: All Components *****

PK. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.97	Fluoride	0.110	4995	25813	2	0.00
3	1.48	Chloride	19.031	1083914	4544068	2	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
5	2.61	Nitrate-N	0.754	60552	315153	1	-1.01
0	0.00	Phosphate	0.000	0	0	0	0.00
6	4.91	Sulfate	41.168	755716	9524204	1	-3.66
Totals			61.063	1905176	14409237		

File: 070897aa.d06 Sample 334133



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D07   Report Date: 7/8/97 3:32:51 PM
Sample Name : 334204                         Collected  : 7/8/97 3:23:33 PM
Inject #    : 7                               Vial #     :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM            Detector    : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

```

```

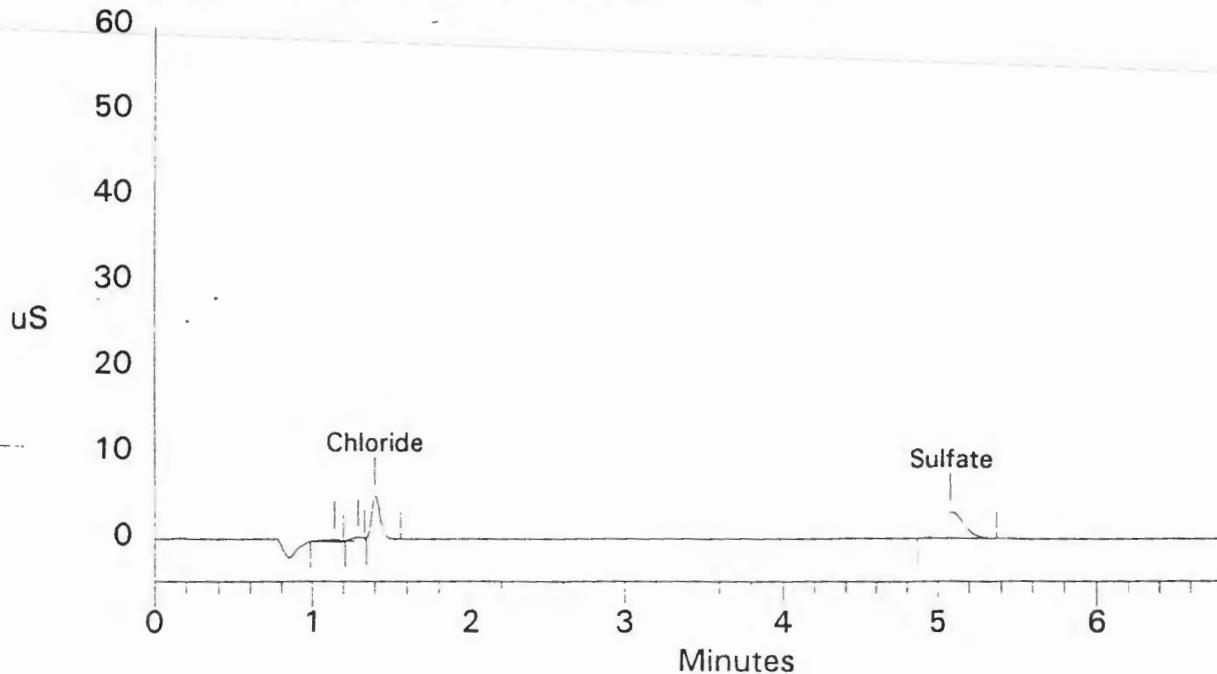
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
3	1.40	Chloride	10.035	50843	191994	2	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.08	Sulfate	24.121	30182	305616	1	-0.26
Totals			34.156	81025	497610		

File: 070897AA.D07 Sample 334204



```

=====
Data File   : C:\PEAKNET\DATA\070897aa.d08   Report Date: 7/9/97 10:49:49 AM
Sample Name : 334204                         Collected  : 7/8/97 3:33:01 PM
Inject #    : 8                             Vial #     :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM            Detector    : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

```

```

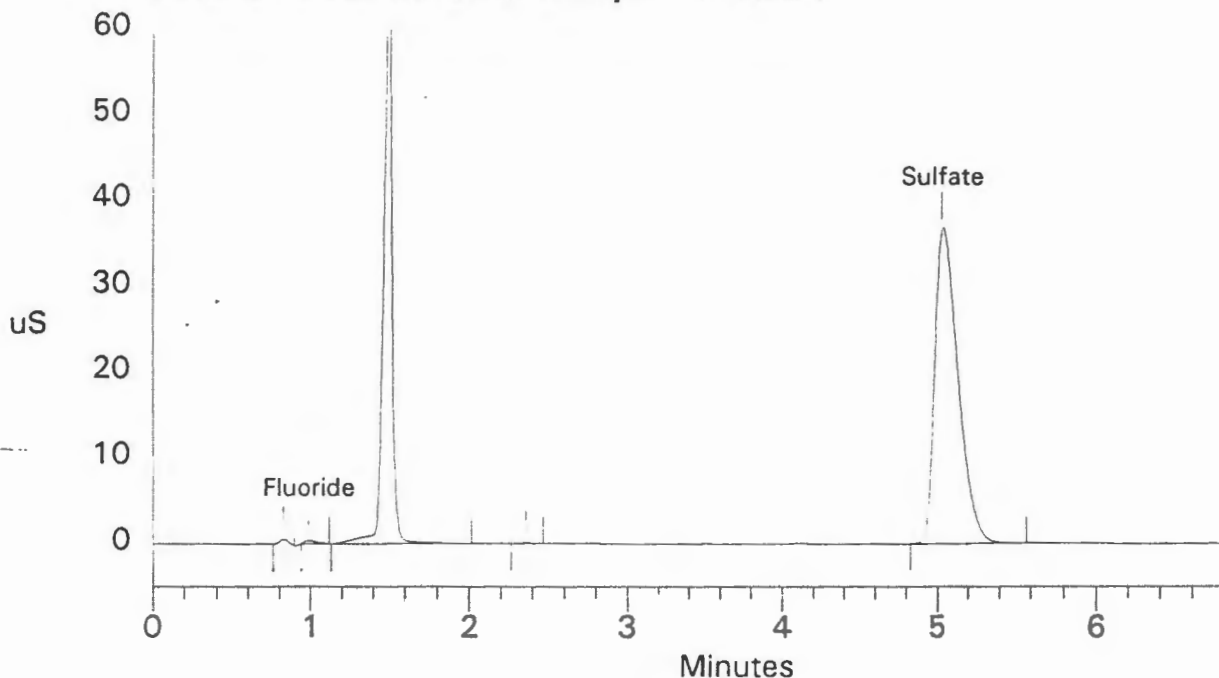
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          -1    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.99	Fluoride	0.089	3785	19197	2	1.37
3	1.49	Chloride	11.033 /	692411	2463321	2	0.22
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
5	5.03	Sulfate	25.034	365309	3874264	1	-1.31
Totals			36.156	1061505	6356783		

File: 070897aa.d08 Sample 334204



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D09   Report Date: 7/8/97 3:51:46 PM
Sample Name: 334206                         Collected  : 7/8/97 3:42:28 PM
Inject #    : 9                             Vial #      :
Method File : c:\peaknet\method\as4a.met    Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM           Detector    : CD20
Column Type : AG4A/AS4A                    Operator    : DEN
Data Points : 2040                          Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

```

```

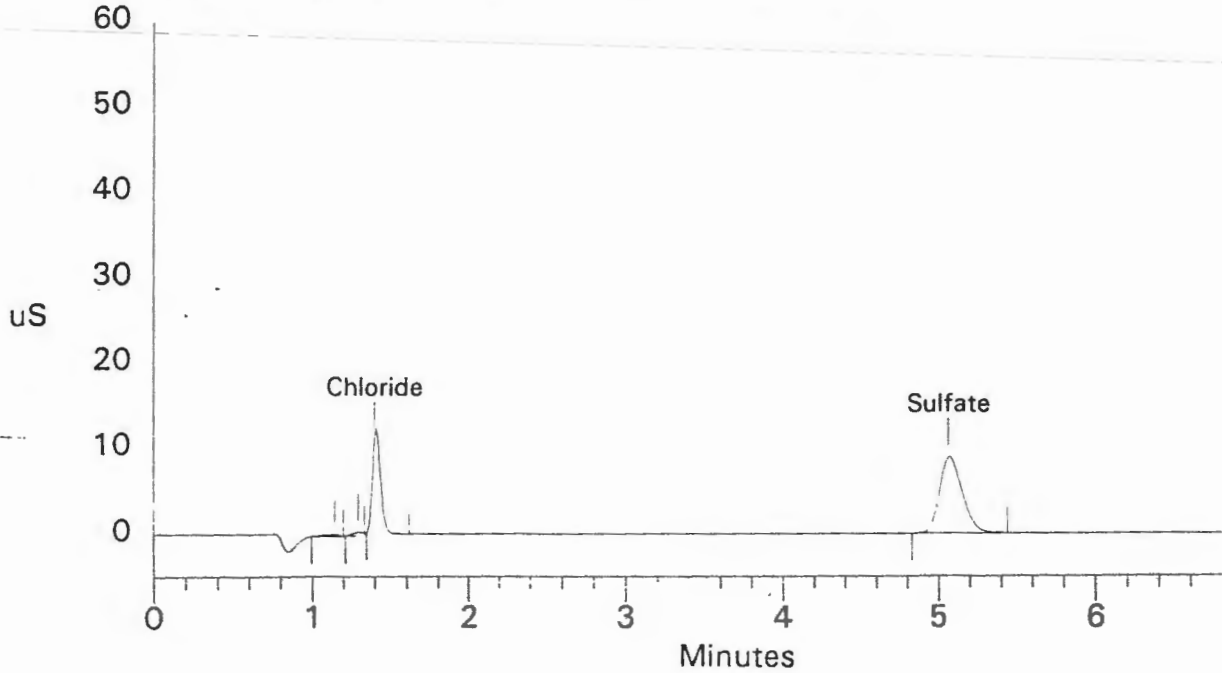
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1          -10  0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
3	1.40	Chloride	22.083	110747	449401	2	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.07	Sulfate	66.844	88491	877453	1	-0.52
Totals			88.927	199238	1326854		

File: 070897AA.D09 Sample 334206



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D10   Report Date: 7/8/97 4:01:14 PM
Sample Name: 334206                           Collected  : 7/8/97 3:51:56 PM
Inject #    : 10                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate        : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

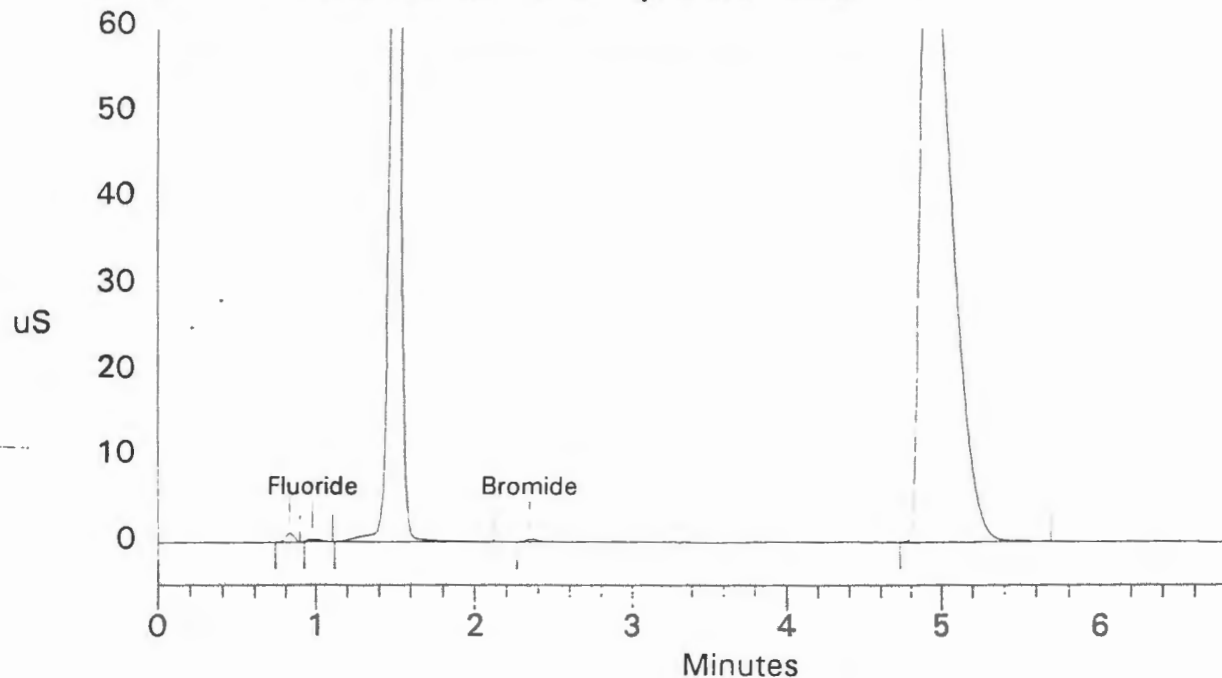
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
Internal          1          1    0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.97	Fluoride	0.081	2920	16636	2	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
4	2.35	Bromide	0.304	3325	16693	2	0.57
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
5	4.91	Sulfate	41.469	832599	10811844	1	-3.66
Totals			41.854	838844	10845172		

File: 070897AA.D10 Sample 334206



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D11   Report Date: 7/8/97 4:10:43 PM
Sample Name: 334208                         Collected  : 7/8/97 4:01:25 PM
Inject #    : 11                             Vial #      :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate        : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

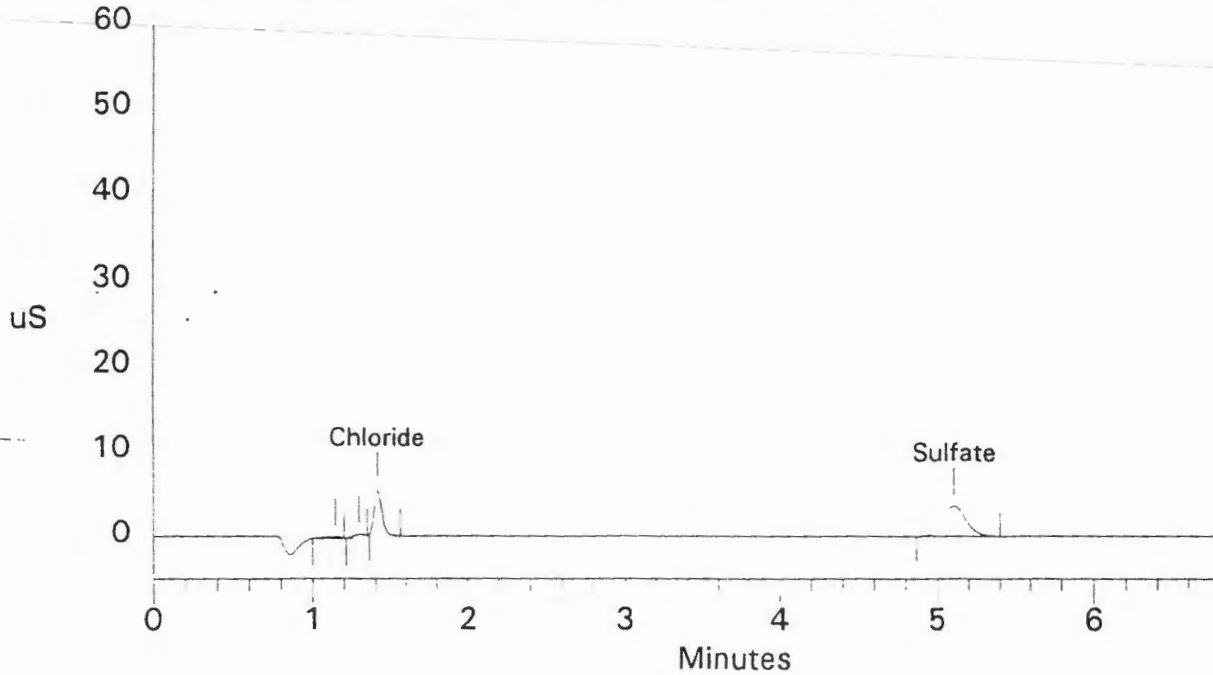
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           10    0.00  6.80    5200    8.50    2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
3	1.41	Chloride	10.538	54500	202671	2	1.68
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.11	Sulfate	28.111	35658	357654	1	0.26
Totals			38.649	90158	560325		

File: 070897AA.D11 Sample 334208



```

=====
Data File   : C:\PEAKNET\DATA\070897aa.d12   Report Date: 7/9/97 10:51:43 AM
Sample Name: 334208                           Collected  : 7/8/97 4:10:52 PM
Inject #    : 12                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

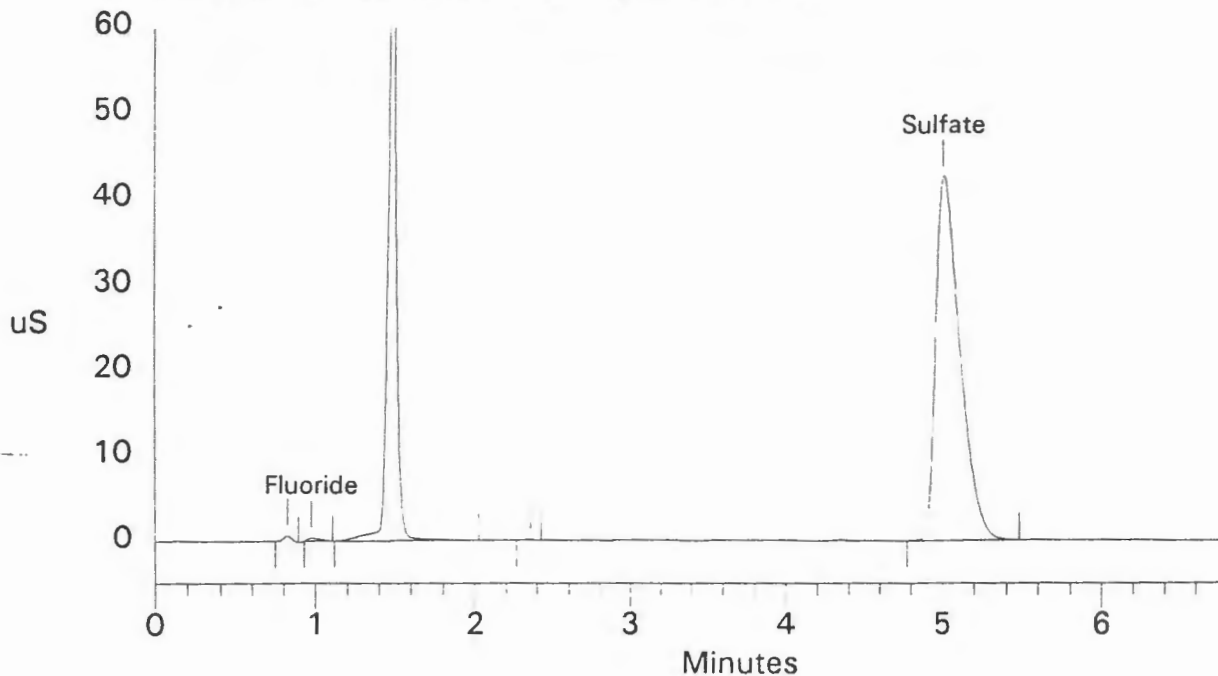
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          -1    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.97	Fluoride	0.086	3357	18266	2	0.00
3	1.48	Chloride	12.004	658134	2700902	2	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
5	5.00	Sulfate	28.266	422178	4557360	1	-1.83
Totals			40.356	1083669	7276529		

File: 070897aa.d12 Sample 334208



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D13   Report Date: 7/8/97 4:29:38 PM
Sample Name: CCV#1                           Collected  : 7/8/97 4:20:21 PM
Inject #    : 13                               Vial #     :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector   : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware : 1.17
=====

```

```

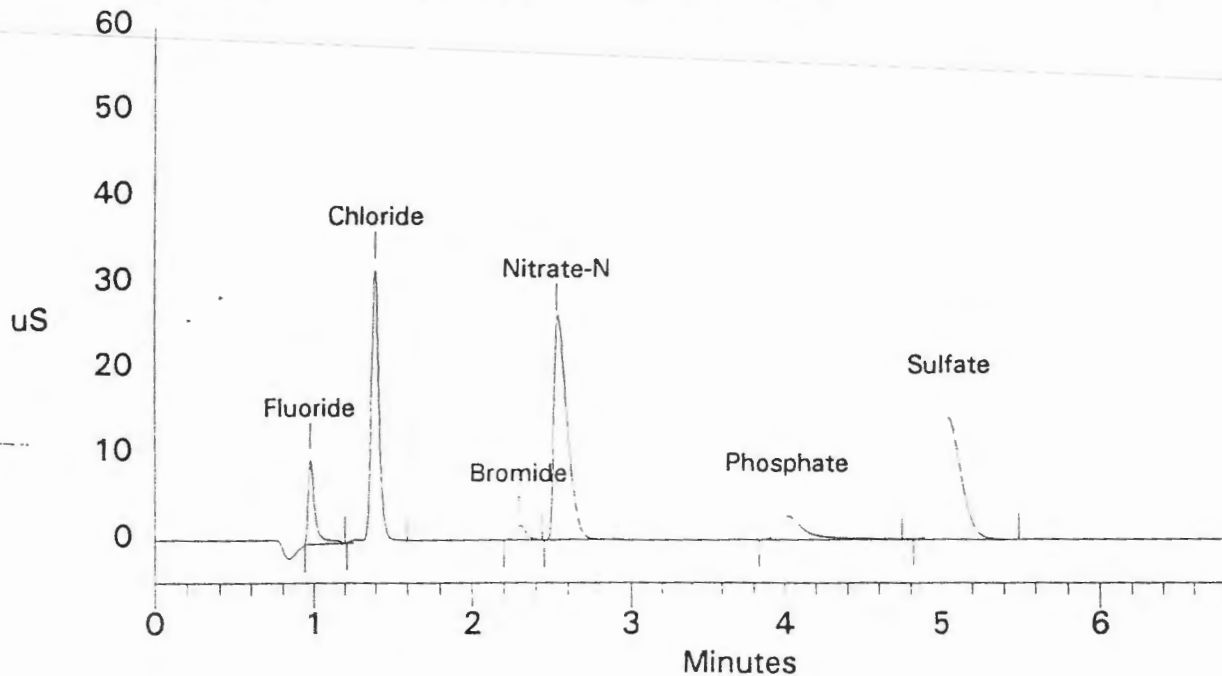
-----
alibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
xternal          1          -1  0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.97	Fluoride	1.012	96907	311730	1	0.00
2	1.40	Chloride	(102.2%) 5.116	317042	1086574	1	0.72
3	2.29	Bromide	1.019	15619	72853	2	-1.71
4	2.53	Nitrate-N	2.999	253704	1515735	2	-4.04
5	4.01	Phosphate	(105.0%) 1.600	27341	334607	2	0.00
6	5.04	Sulfate	10.498	141923	1418343	2	-1.05
Totals			22.244	852537	4739842		

File: 070897AA.D13 Sample CCV#1




```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D14   Report Date: 7/8/97 4:38:59 PM
Sample Name: CCB#1                           Collected  : 7/8/97 4:29:48 PM
Inject #    : 14                               Vial #      :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate        : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

=====
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          -1      0.00  6.80      5200      8.50      2.50
=====

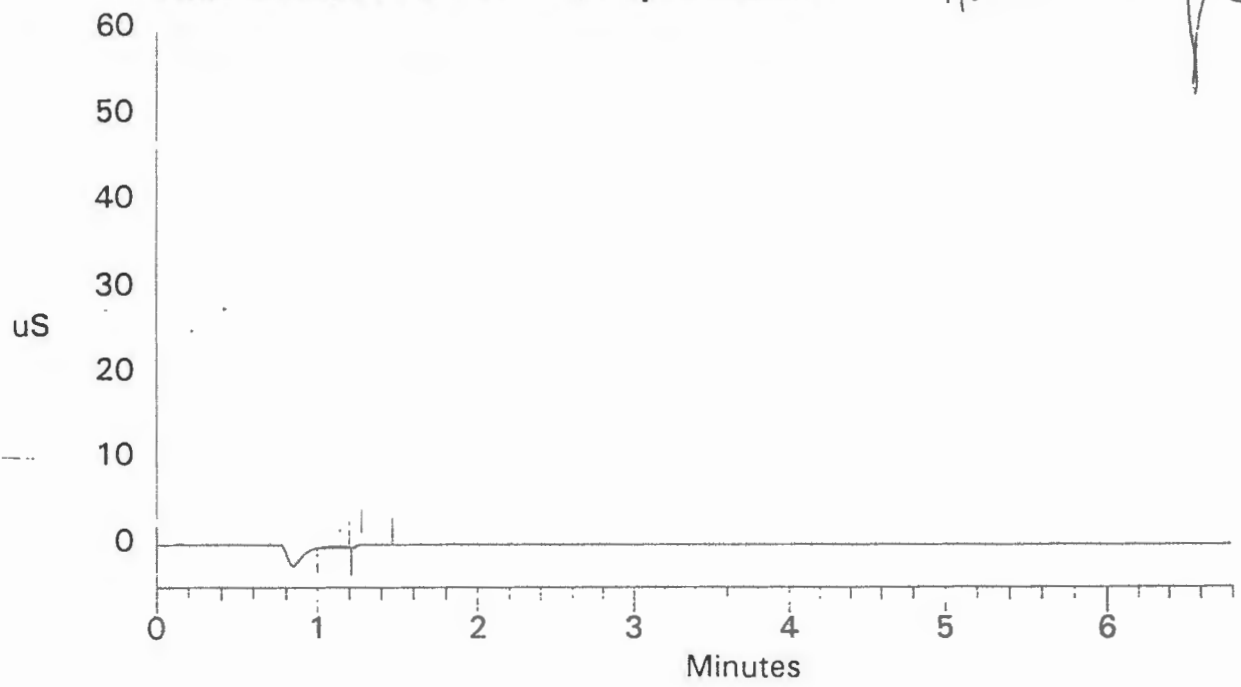
```

***** Component Report: All Components *****

Ex. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
Totals			0.000	0	0		

File: 070897AA.D14 Sample CCB#1

Handwritten signature



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D15   Report Date: 7/8/97 4:48:25 PM
Sample Name: 334210                         Collected  : 7/8/97 4:39:08 PM
Inject #   : 15                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM            Detector   : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                               Moduleware : 1.17
=====

```

```

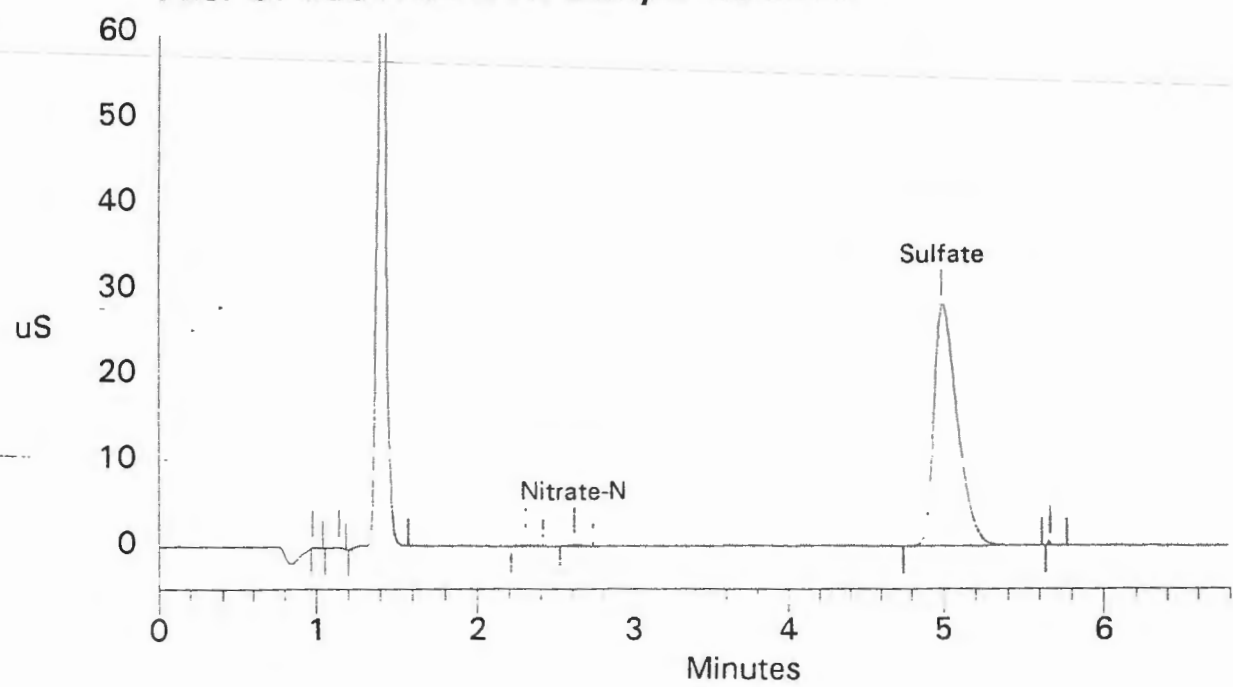
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
3	1.41	Chloride	133.904	819310	3046691	1	1.68
0	0.00	Bromide	0.000	0	0	0	0.00
5	2.61	Nitrate-N	1.714	1704	8695	1	-1.01
0	0.00	Phosphate	0.000	0	0	0	0.00
6	4.99	Sulfate	197.593	278039	2890667	2	-2.09
Totals			333.211	1099053	5946053		

File: 070897AA.D15 Sample 334210



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D16   Report Date: 7/8/97 4:57:54 PM
Sample Name: 334210                           Collected  : 7/8/97 4:48:36 PM
Inject #    : 16                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate        : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

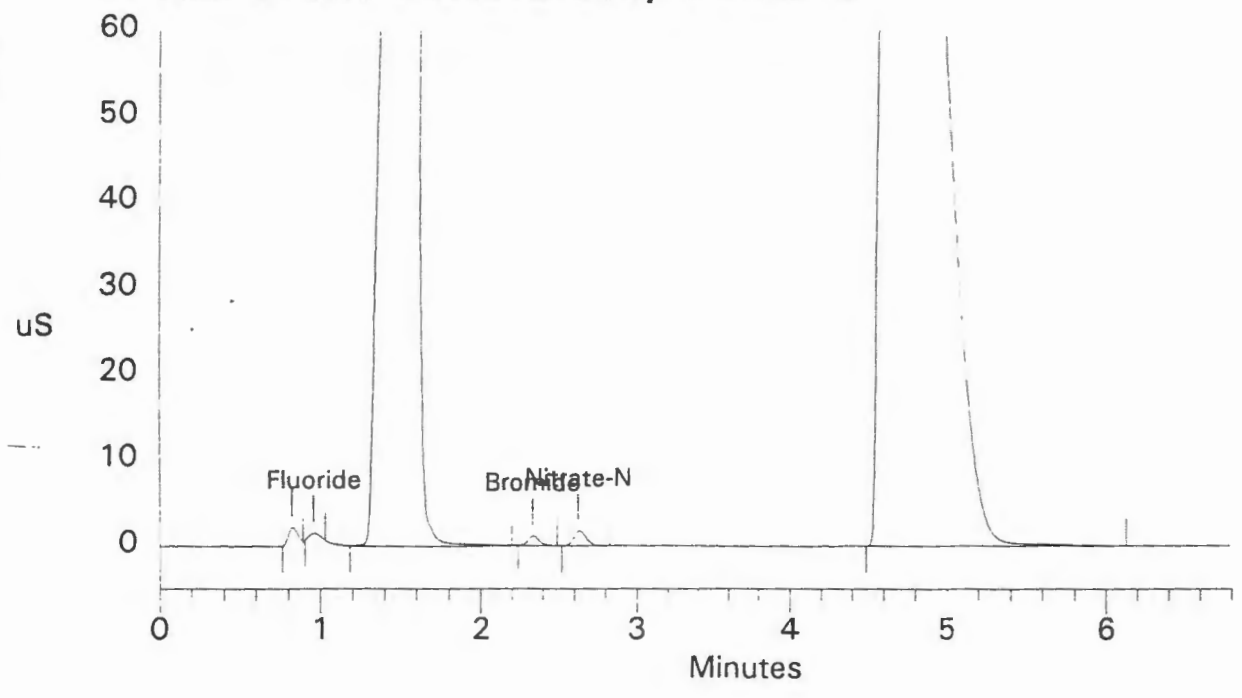
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           1 0.00 6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.96	Fluoride	0.177	9497	47231	2	-1.37
0	0.00	Chloride	0.000	0	0	0	0.00
4	2.33	Bromide	0.844	11319	59079	2	0.00
5	2.63	Nitrate-N	0.334	16684	93801	2	-0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
6	4.61	Sulfate	-219.807	1845905	36775632	1	-9.42
Totals			-218.452	1883404	36975744		

File: 070897AA.D16 Sample 334210



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D17   Report Date: 7/8/97 5:07:18 PM
Sample Name: 334213                         Collected  : 7/8/97 4:58:06 PM
Inject #    : 17                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM            Detector    : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                               Moduleware  : 1.17
=====

```

```

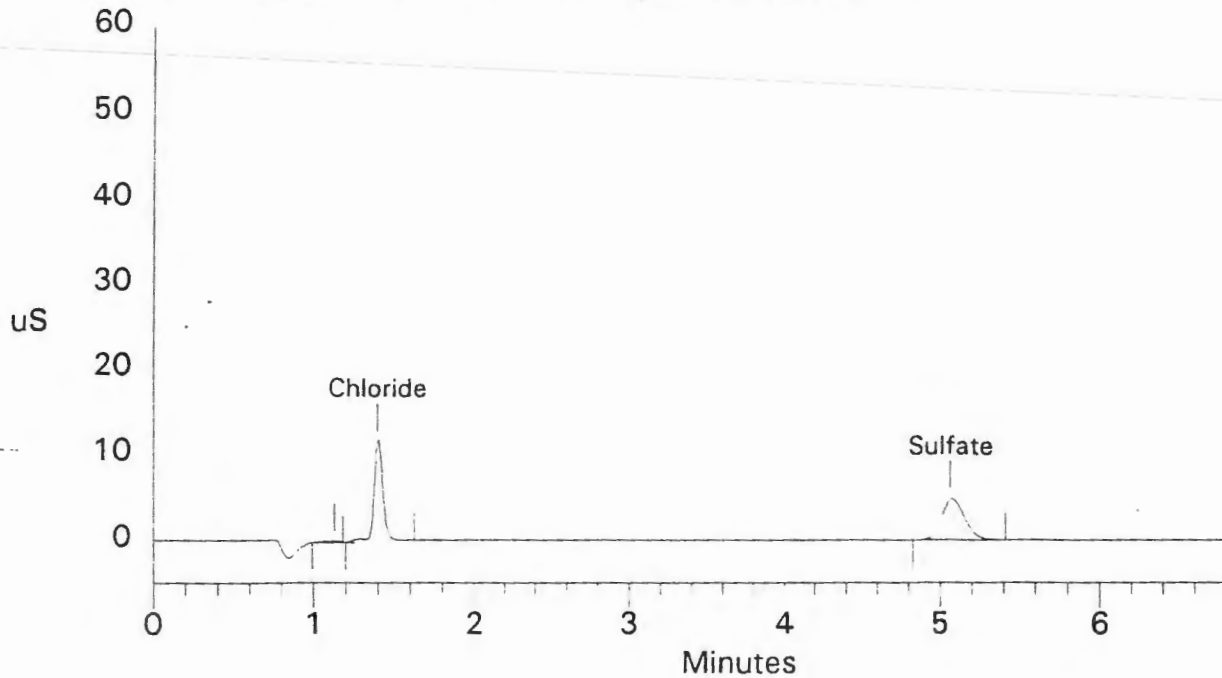
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1          10  0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.40	Chloride	22.566 /	116027	459796	1	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
3	5.07	Sulfate	37.256 /	47297	477949	1	-0.52
Totals			59.822	163324	937744		

File: 070897AA.D17 Sample 334213



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D18   Report Date: 7/8/97 5:16:45 PM
Sample Name : 334213                         Collected  : 7/8/97 5:07:27 PM
Inject #    : 18                             Vial #      :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM            Detector    : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

```

```

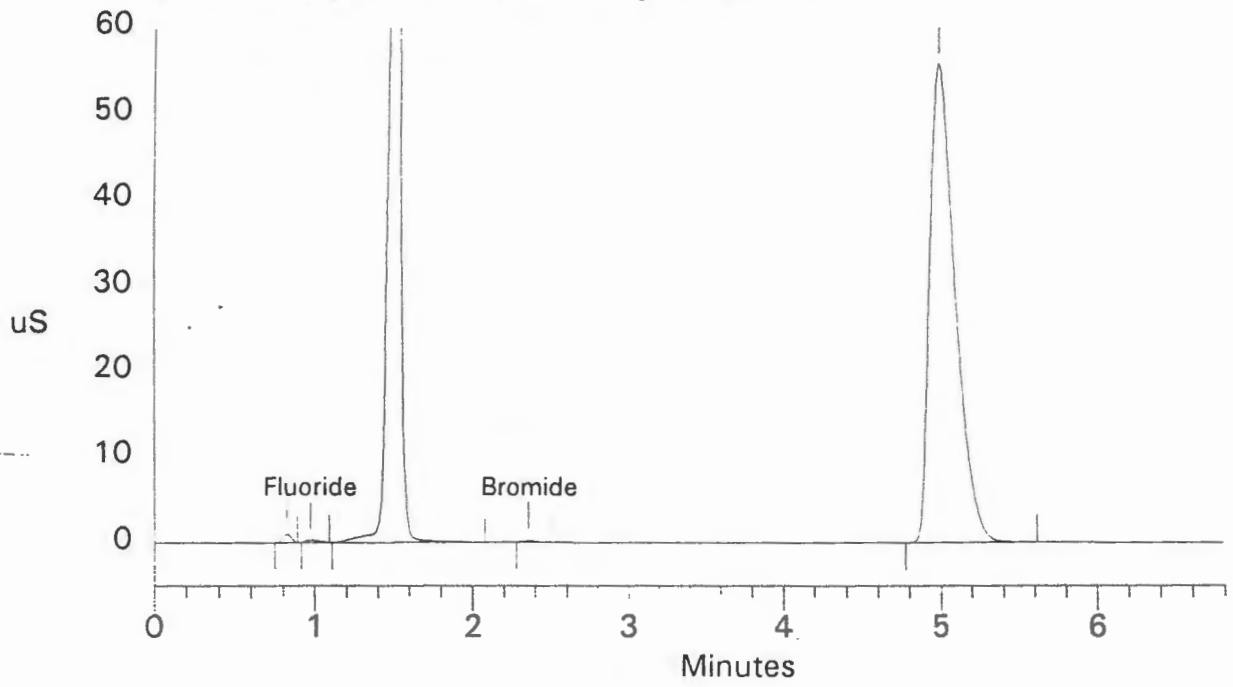
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          1      0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

PK. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.97	Fluoride	0.075	2634	14744	2	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
4	2.36	Bromide	0.215	2053	9739	1	1.14
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
5	4.97	Sulfate	35.047	557565	6341695	1	-2.36
Totals			35.337	562251	6366179		

File: 070897AA.D18 Sample 334213



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D19   Report Date: 7/8/97 5:26:14 PM
Sample Name: 334215                           Collected  : 7/8/97 5:16:56 PM
Inject #    : 19                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

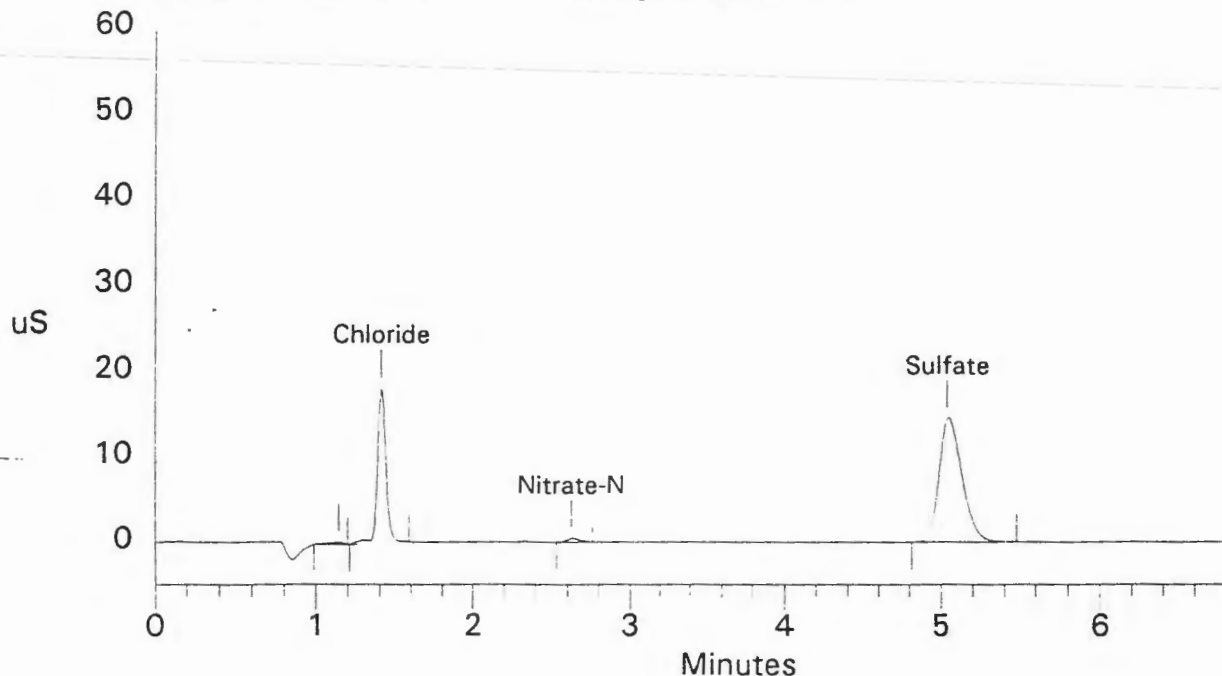
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           10  0.00  6.80           5200           8.50           2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.41	Chloride	32.009	181041	664322	1	1.68
0	0.00	Bromide	0.000	0	0	0	0.00
3	2.63	Nitrate-N	1.959	4123	21541	1	-0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.04	Sulfate	106.536	143401	1441064	1	-1.05
Totals			140.503	328565	2126927		

File: 070897AA.D19 Sample 334215



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```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D20   Report Date: 7/8/97 5:35:42 PM
Sample Name: 334215                           Collected  : 7/8/97 5:26:25 PM
Inject #    : 20                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

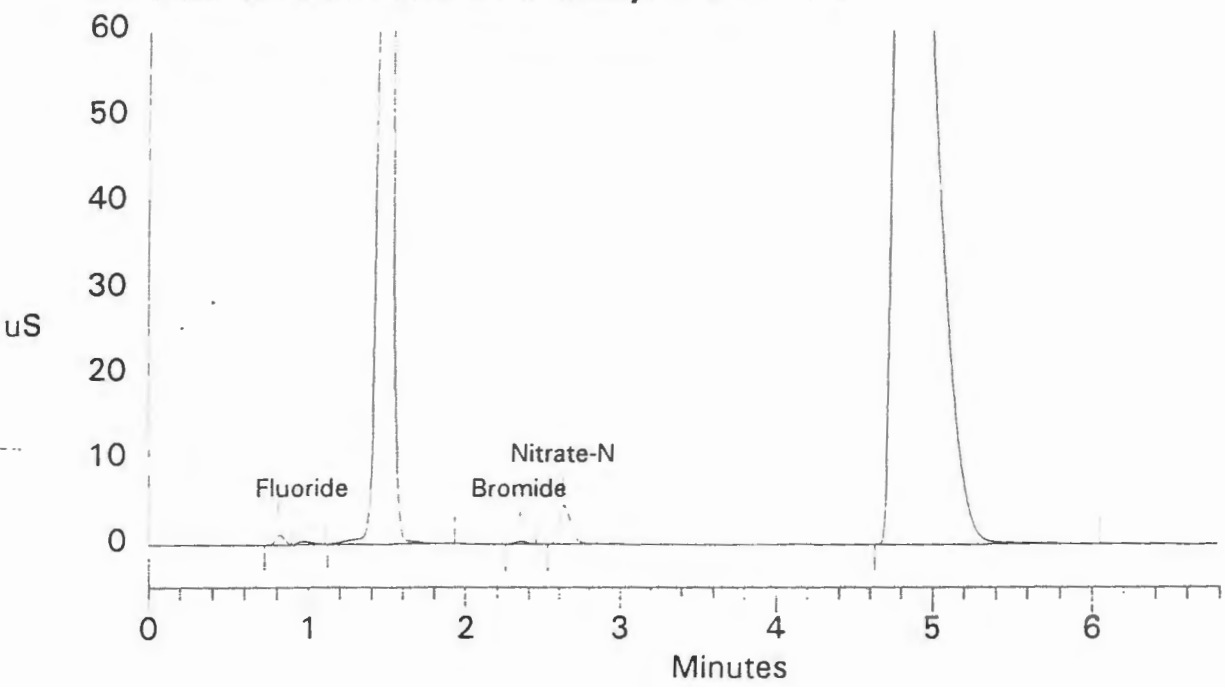
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          -1      0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.96	Fluoride	0.089	3378	18985	1	-1.37
0	0.00	Chloride	0.000	0	0	0	0.00
4	2.35	Bromide	0.292	3299	15749	1	0.57
5	2.63	Nitrate-N	0.618	43647	243455	1	-0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
6	4.79	Sulfate	14.105	1223690	18994384	1	-6.02
Totals			15.103	1274013	19272572		

File: 070897AA.D20 Sample 334215



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```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D21   Report Date: 7/8/97 5:45:05 PM
Sample Name: 334217                         Collected  : 7/8/97 5:35:52 PM
Inject #    : 21                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM            Detector    : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                               Moduleware  : 1.17
=====

```

```

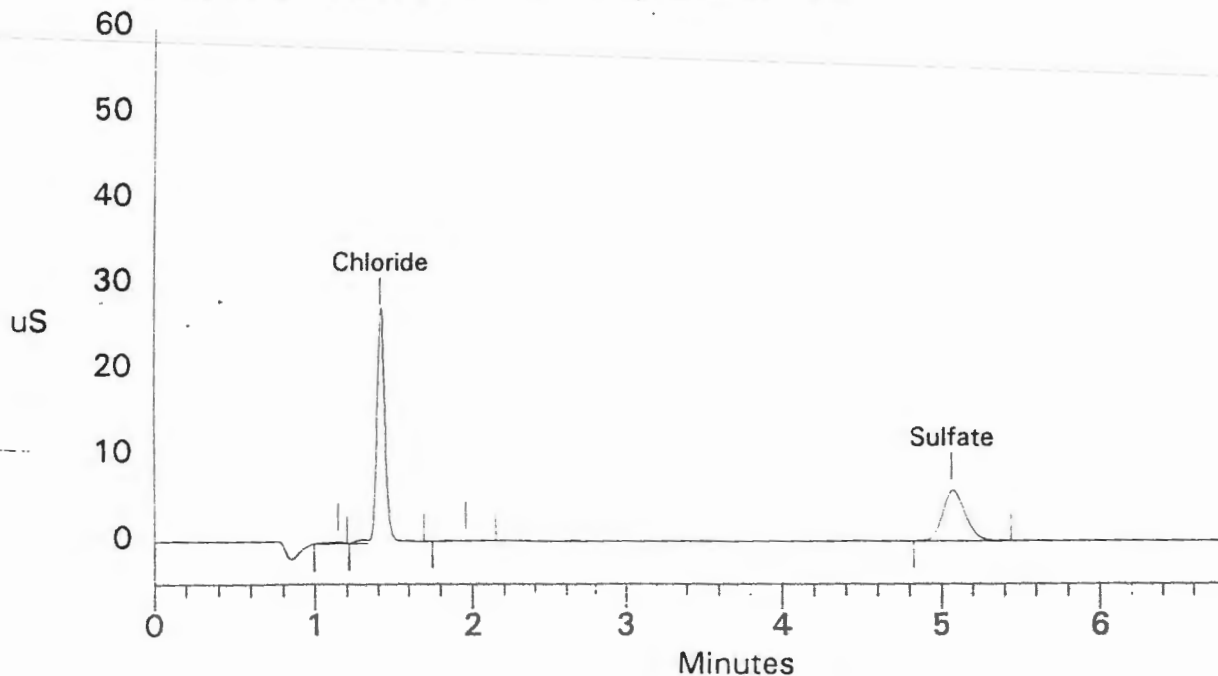
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10  0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.41	Chloride	47.481	264395	1004705	2	1.68
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.07	Sulfate	45.067	57947	581846	1	-0.52
Totals			92.548	322341	1586551		

File: 070897AA.D21 Sample 334217




```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D22   Report Date: 7/8/97 5:54:28 PM
Sample Name : 334217                         Collected  : 7/8/97 5:45:16 PM
Inject #    : 22                             Vial #     :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX 0C SYSTEM            Detector    : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

```

```

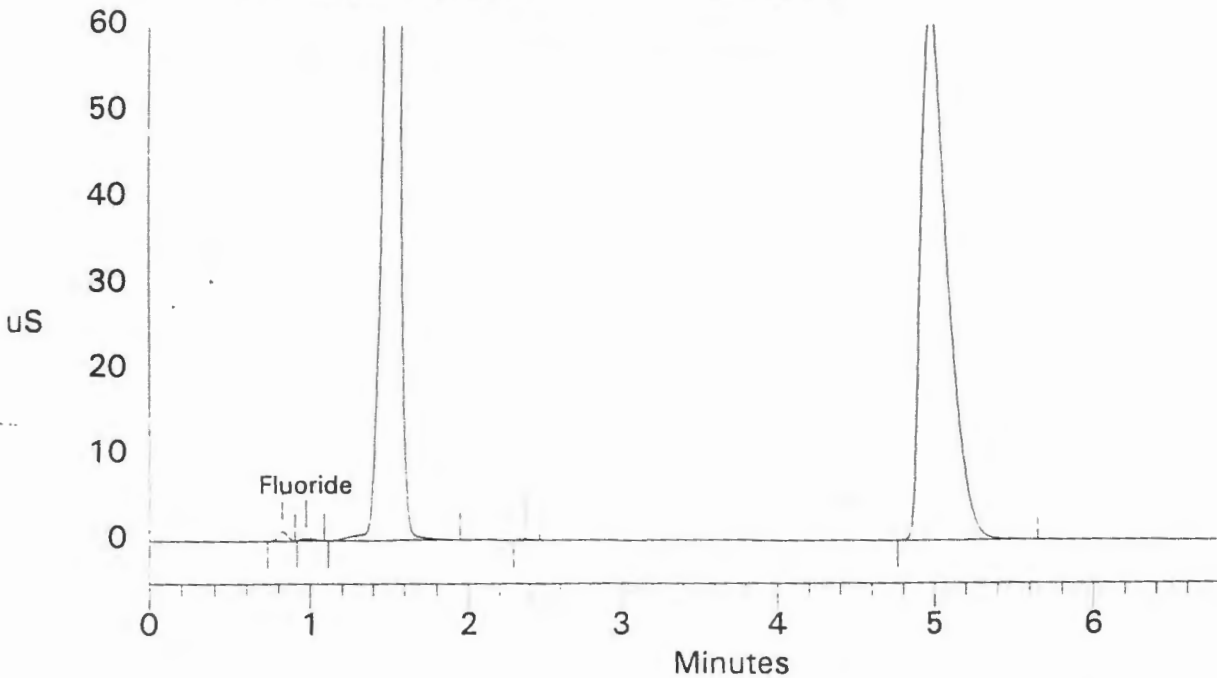
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           1    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. No	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.97	Fluoride	0.071	2510	13360	1	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
5	4.95	Sulfate	37.707	614599	7304705	1	-2.88
Totals			37.777	617109	7318065		

File: 070897AA.D22 Sample 334217



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D23   Report Date: 7/8/97 6:03:56 PM
Sample Name: 334219                         Collected  : 7/8/97 5:54:40 PM
Inject #   : 23                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM            Detector    : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                               Moduleware  : 1.17
=====

```

```

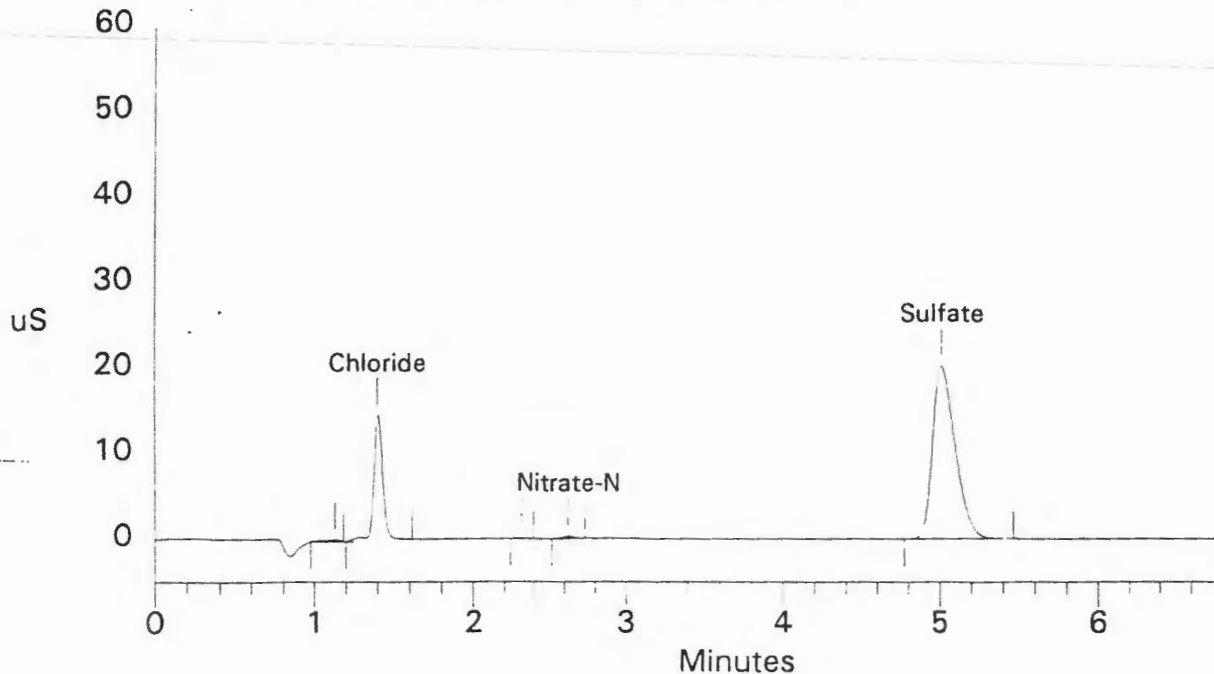
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10  0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.40	Chloride	27.172	144276	559256	1	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
4	2.63	Nitrate-N	1.790	2479	12700	1	-0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
5	5.01	Sulfate	144.468	201202	2014708	1	-1.57
Totals			173.430	347957	2586664		

File: 070897AA.D23 Sample 334219



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D24   Report Date: 7/8/97 6:13:19 PM
Sample Name : 334219                         Collected  : 7/8/97 6:04:07 PM
Project #   : 24                             Vial #     :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM            Detector   : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

```

```

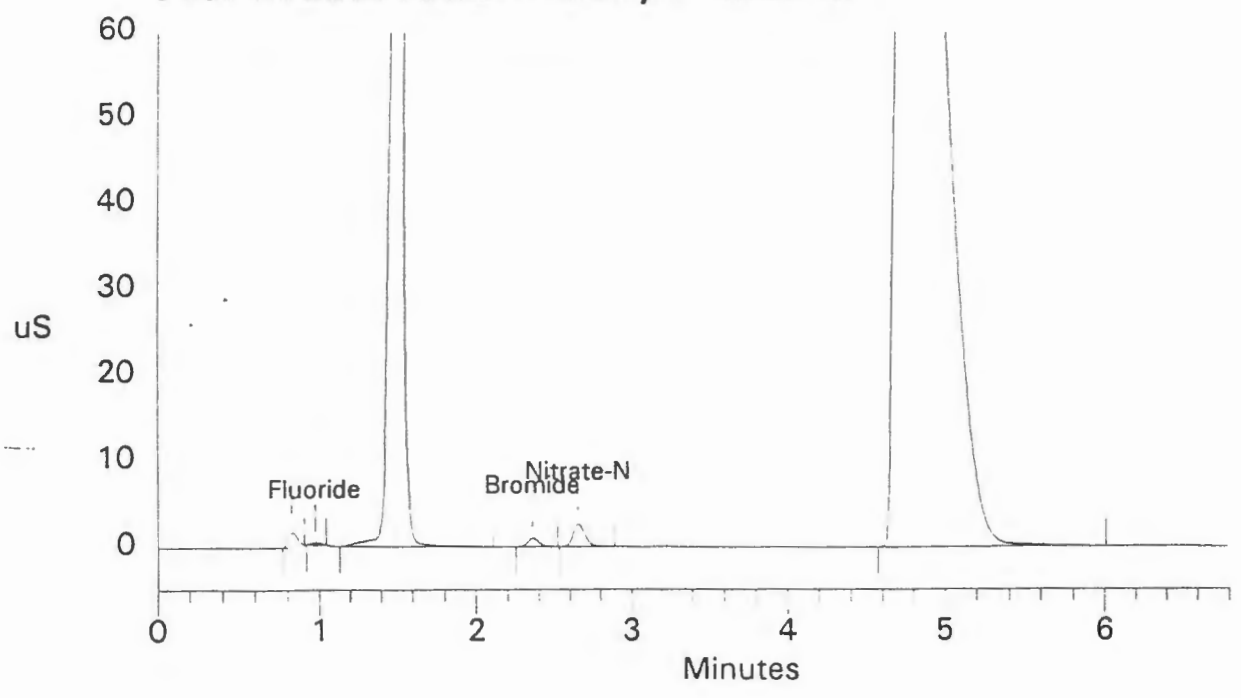
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          1    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

PK. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.97	Fluoride	0.062	2307	10546	4	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
4	2.36	Bromide	0.674	9600	45671	2	1.14
5	2.65	Nitrate-N	0.420	25927	139179	1	0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
6	4.72	Sulfate	-48.703	1493816	25929396	1	-7.33
Totals			-47.547	1531650	26124792		

File: 070897AA.D24 Sample 334219



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D25   Report Date: 7/8/97 6:22:41 PM
Sample Name: CCV#2                           Collected  : 7/8/97 6:13:29 PM
Inject #    : 25                               Vial #      :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

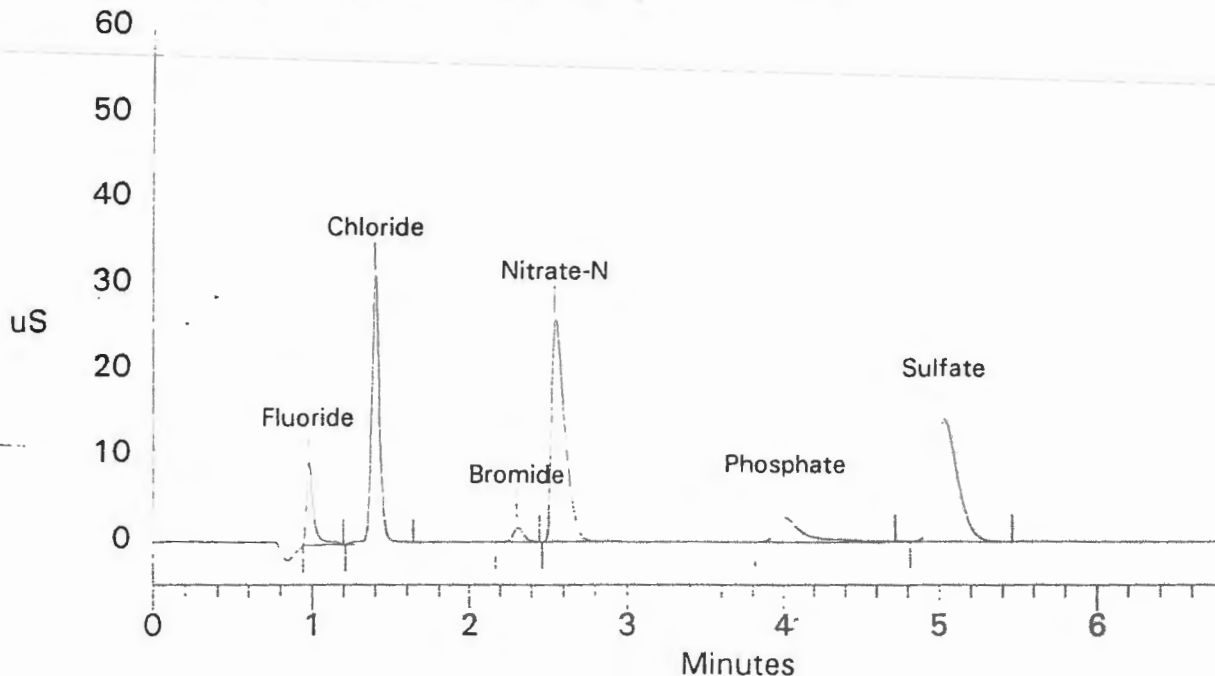
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           -1    0.00  6.80          5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.97	Fluoride	0.974	86045	299713	1	0.00
2	1.40	Chloride	(101.5%) 5.087	305494	1080167	1	0.72
3	2.31	Bromide	1.023	15827	73131	2	-1.14
4	2.55	Nitrate-N	2.996	253093	1514003	2	-3.54
5	4.01	Phosphate	1.653	28296	345386	2	0.00
6	5.03	Sulfate	(105.0%) 10.529	140387	1422867	2	-1.31
Totals			22.261	829143	4735269		

File: 070897AA.D25 Sample CCV#2



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D26   Report Date: 7/8/97 6:32:09 PM
Sample Name: CCB#2                           Collected  : 7/8/97 6:22:52 PM
Inject #    : 26                             Vial #      :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DV500 SYSTEM             Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                 Moduleware  : 1.17
=====

```

```

-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          -1    0.00  6.80      5200      8.50      2.50
-----

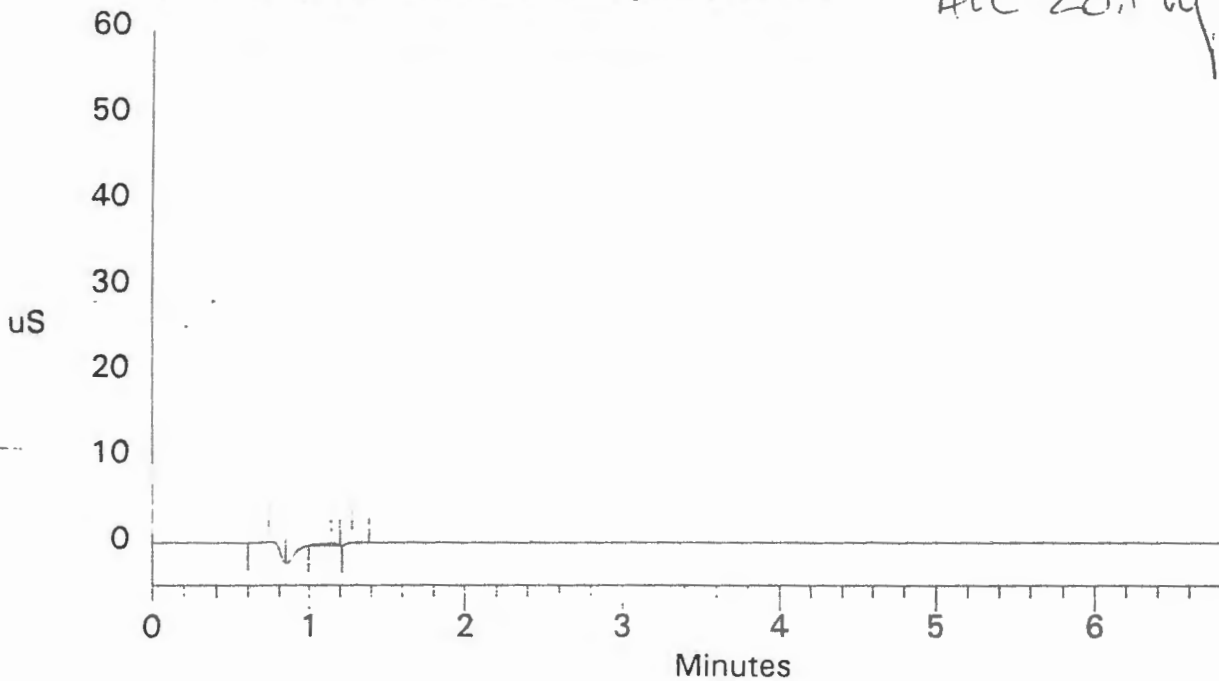
```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
Totals			0.000	0	0		

File: 070897AA.D26 Sample CCB#2

All Cont. by [Signature]



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```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D27   Report Date: 7/8/97 6:41:35 PM
Sample Name: 334221                         Collected  : 7/8/97 6:32:18 PM
Inject #   : 27                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM            Detector   : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                               Moduleware : 1.17
=====

```

```

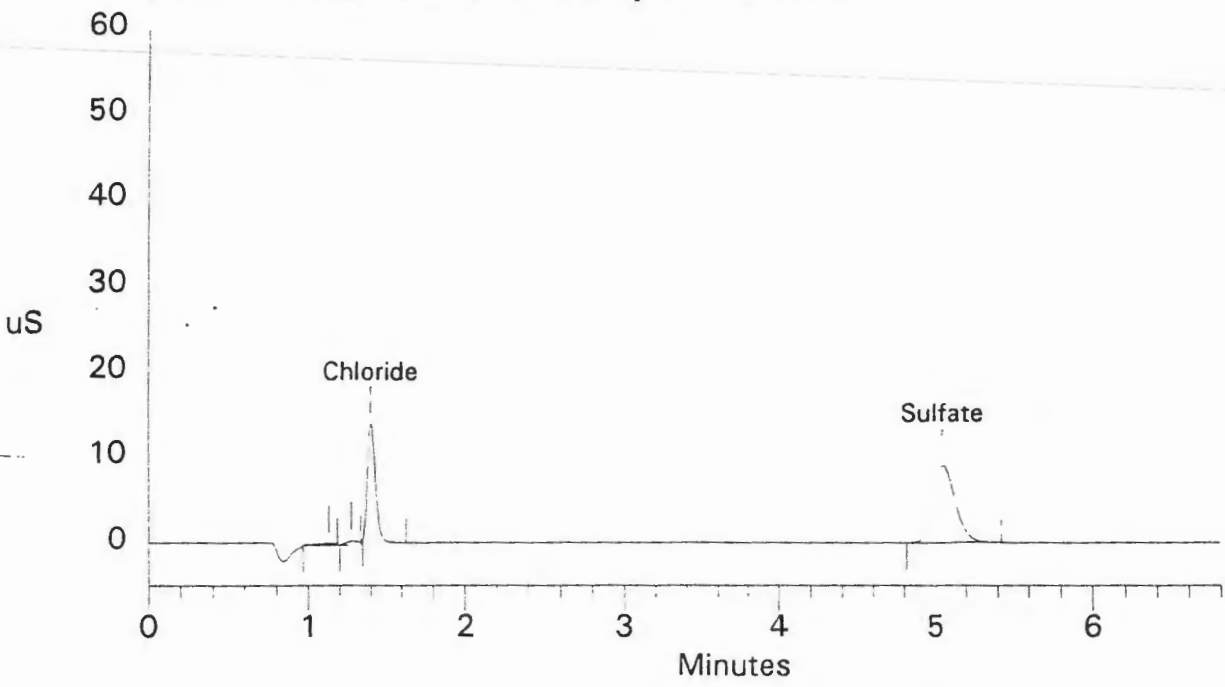
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10  0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
3	1.40	Chloride	24.589	138910	503423	2	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.04	Sulfate	67.786	88812	890435	1	-1.05
Totals			92.375	227722	1393857		

File: 070897AA.D27 Sample 334221



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D28   Report Date: 7/8/97 6:51:02 PM
Sample Name: 334221                         Collected  : 7/8/97 6:41:45 PM
Inject #    : 28                             Vial #      :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM            Detector    : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                               Moduleware  : 1.17
=====

```

```

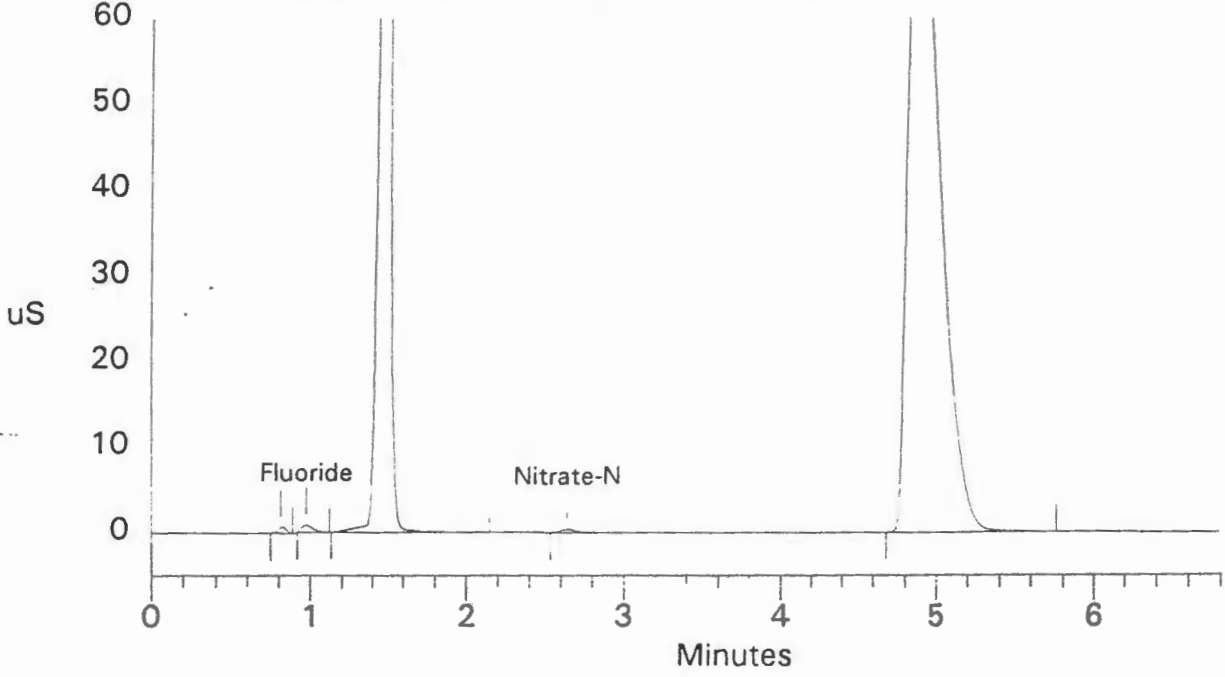
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           1 0.00 6.80 5200 8.50 2.50
-----

```

*** ***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.97	Fluoride	0.171	8576	45491	2	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
4	2.64	Nitrate-N	0.194	3855	20528	1	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
5	4.85	Sulfate	41.260	858473	11292577	1	-4.71
Totals			41.626	870903	11358597		

File: 070897AA.D28 Sample 334221



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D29   Report Date: 7/8/97 7:00:26 PM
Sample Name: 334223                           Collected  : 7/8/97 6:51:13 PM
Inject #    : 29                               Vial #     :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector   : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware : 1.17
=====

```

```

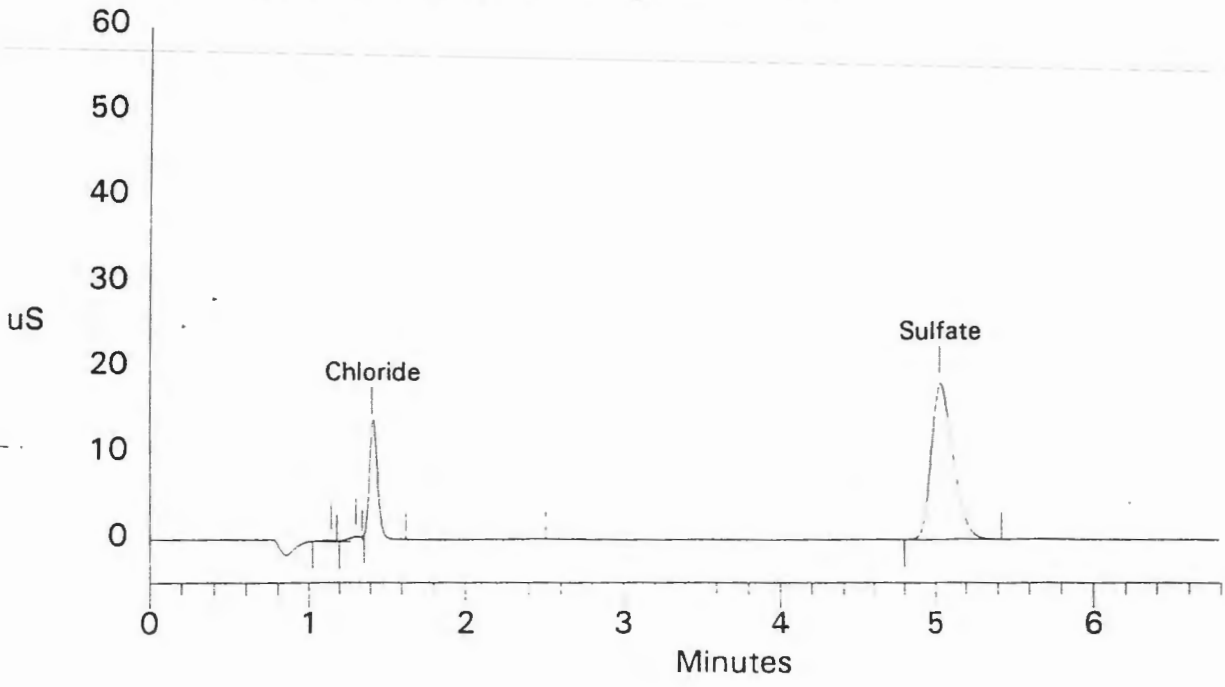
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
3	1.41	Chloride	25.248	133301	517654	2	1.68
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
5	5.03	Sulfate	130.801	180884	1803648	1	-1.31
Totals			156.049	314185	2321302		

File: 070897AA.D29 Sample 334223




```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D30   Report Date: 7/8/97 7:09:54 PM
Sample Name: 334223                           Collected  : 7/8/97 7:00:36 PM
Inject #    : 30                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX D\50\ SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

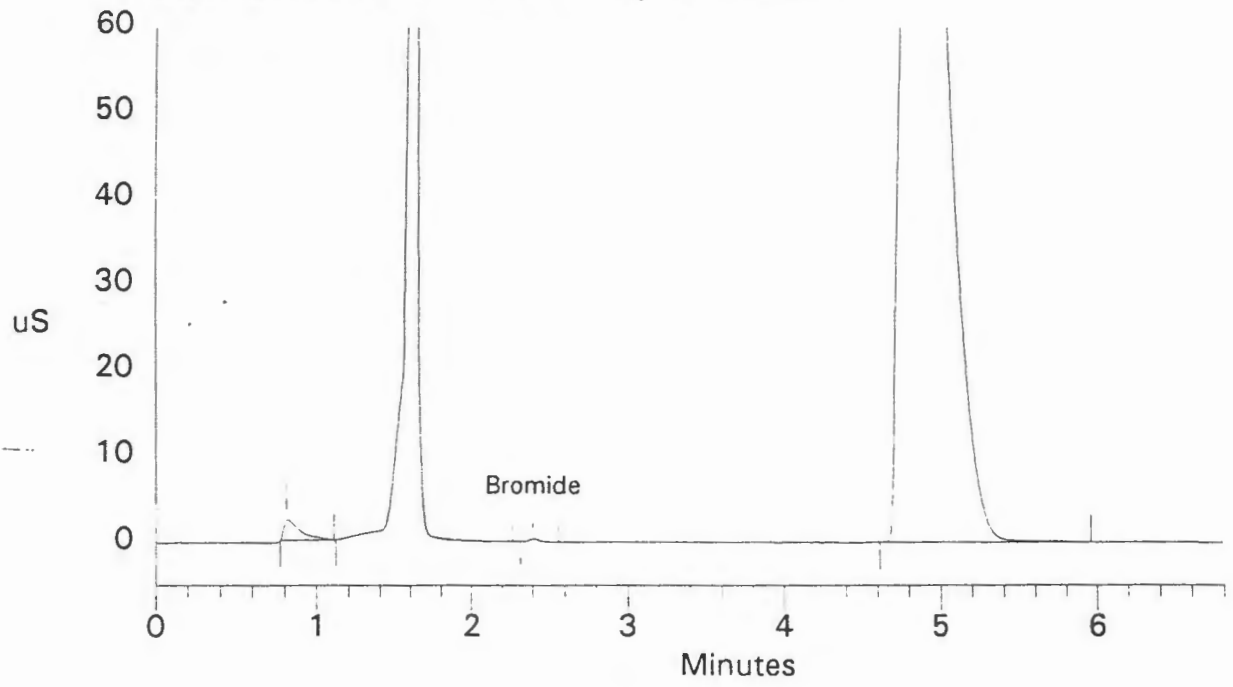
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           1 0.00 6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

PK. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
3	2.40	Bromide	0.283	3365	15063	2	2.86
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	4.77	Sulfate	-18.395	1387577	23069183	1	-6.28
Totals			-18.112	1390942	23084246		

File: 070897AA.D30 Sample 334223



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D31   Report Date: 7/8/97 7:19:23 PM
Sample Name: 334225                           Collected  : 7/8/97 7:10:05 PM
Inject #    : 31                               Vial #     :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector   : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware : 1.17
=====

```

```

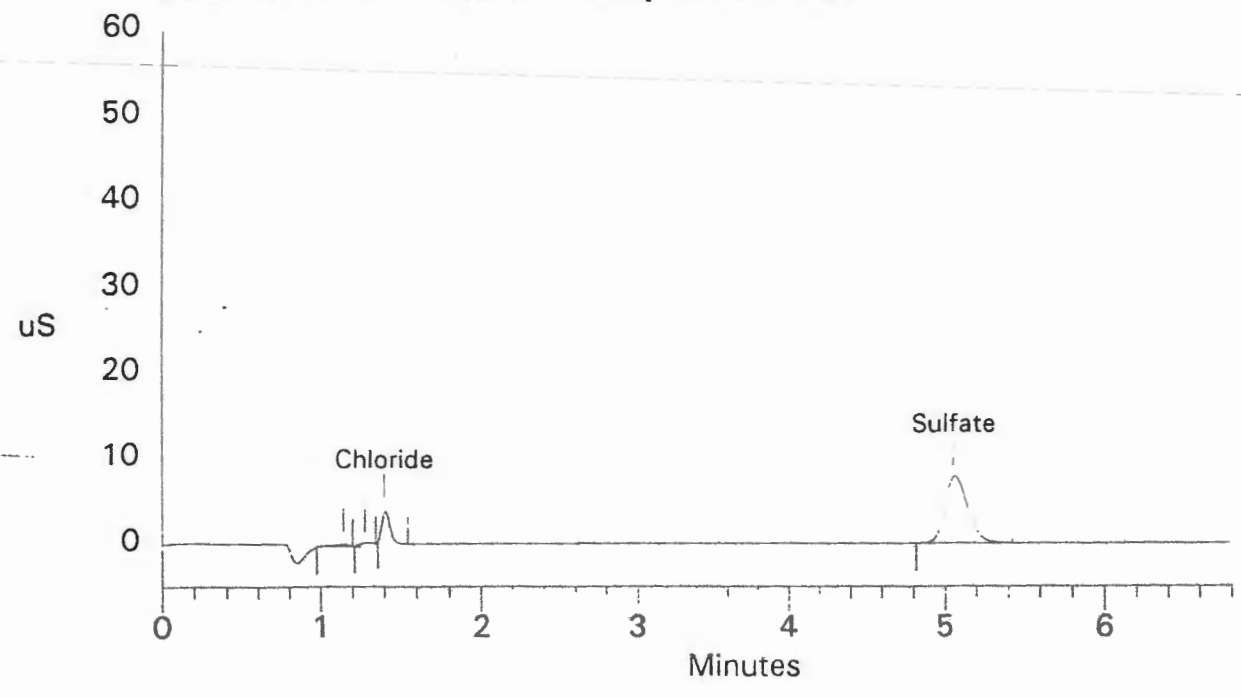
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10  0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
3	1.40	Chloride	7.964	37999	148122	2	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.05	Sulfate	59.708	77233	779586	1	-0.79
Totals			67.672	115232	927708		

File: 070897AA.D31 Sample 334225



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000105

```

=====
Data File   : C:\PEAKNET\DATA\070897aa.d32   Report Date: 7/9/97 11:22:57 AM
Sample Name: 334225                         Collected  : 7/8/97 7:19:32 PM
Inject #    : 32                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM            Detector    : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                               Moduleware  : 1.17
=====

```

```

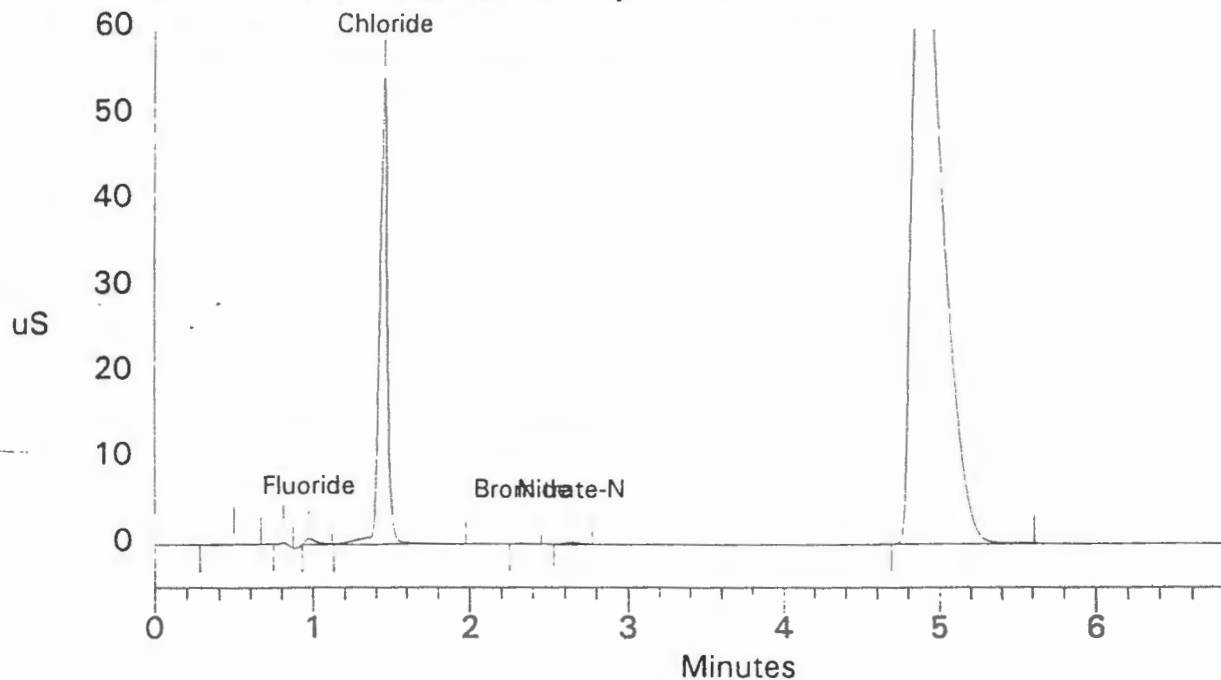
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
Internal          1          -1    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
3	0.97	Fluoride	0.139	6966	35050	2	0.00
4	1.45	Chloride	8.617	542851	1887069	2	0.23
5	2.33	Bromide	0.173	1379	6470	1	0.00
6	2.64	Nitrate-N	0.175	2062	10795	1	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
7	4.87	Sulfate	41.496	805069	10274658	1	-4.45
Totals			50.599	1358328	12214042		

File: 070897aa.d32 Sample 334225



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D33   Report Date: 7/8/97 7:38:12 PM
Sample Name: 334227                         Collected  : 7/8/97 7:28:55 PM
Inject #    : 33                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM            Detector    : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                               Moduleware  : 1.17
=====

```

```

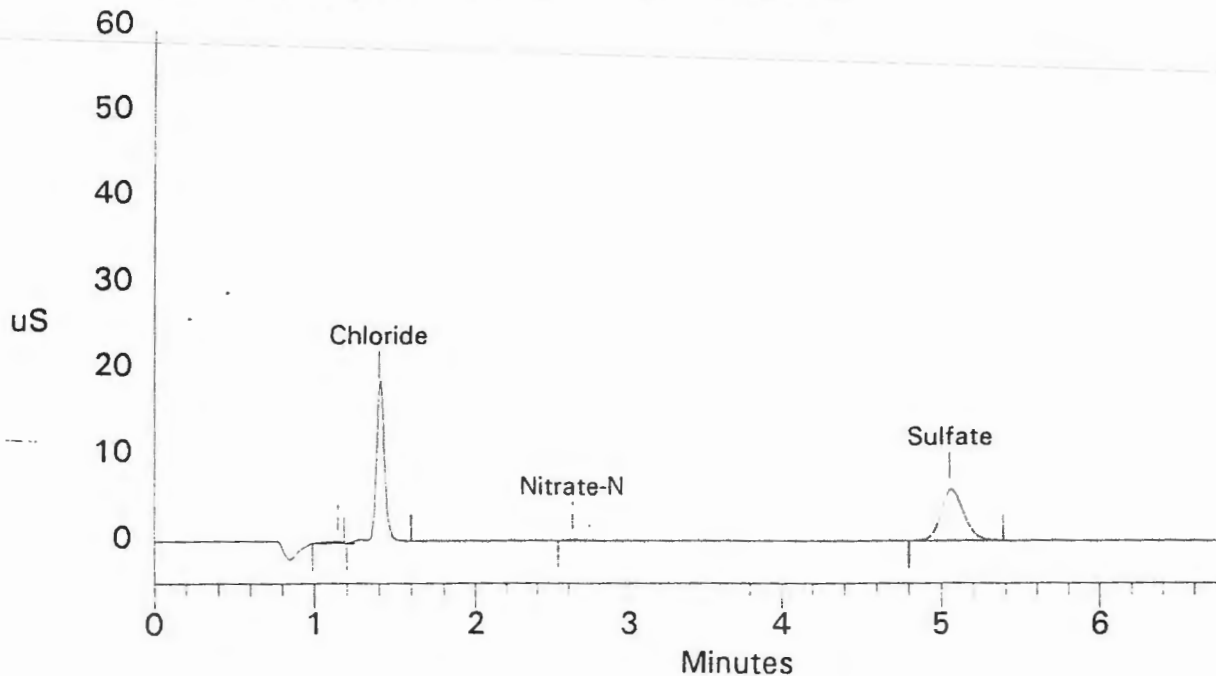
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           10  0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.40	Chloride	33.093	178045	687953	1	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
3	2.63	Nitrate-N	1.654	1107	5604	1	-0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.05	Sulfate	46.125	59285	596002	1	-0.79
Totals			80.872	238437	1289558		

File: 070897AA.D33 Sample 334227



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D34   Report Date: 7/8/97 7:47:39 PM
Sample Name: 334227                           Collected  : 7/8/97 7:38:22 PM
Inject #    : 34                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX50 SYSTEM               Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

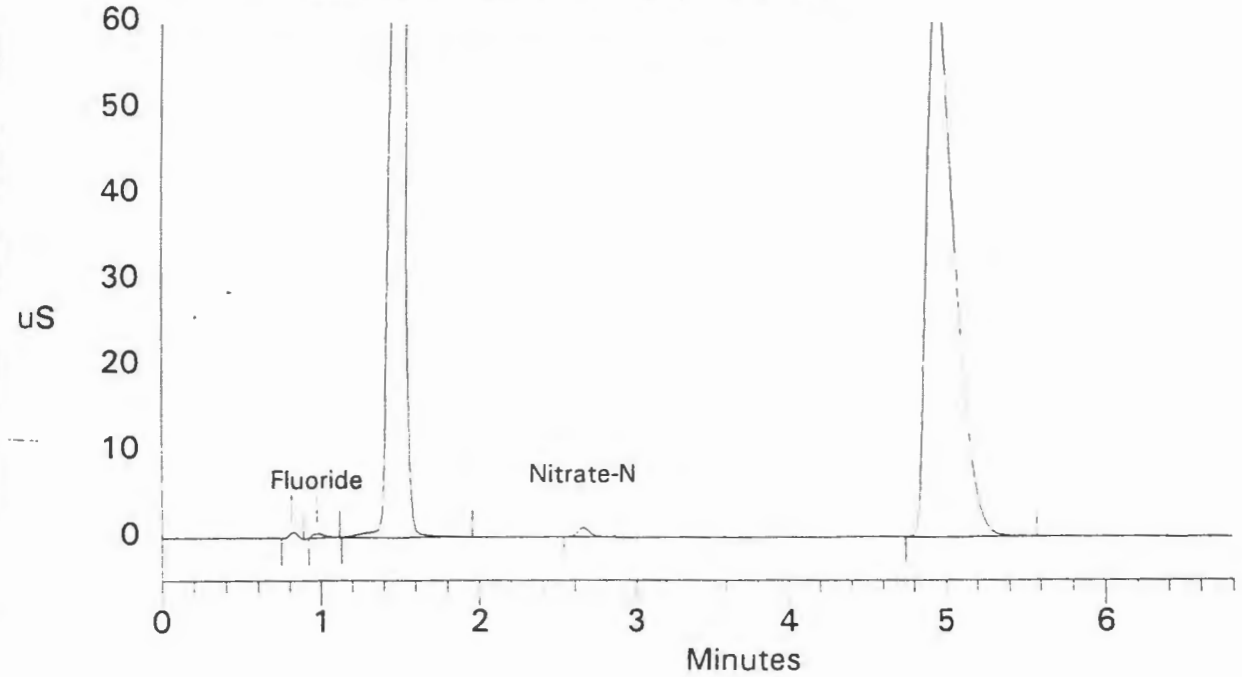
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          1      0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.97	Fluoride	0.106	4902	24617	1	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
	0.00	Bromide	0.000	0	0	0	0.00
	2.65	Nitrate-N	0.268	11241	59317	1	0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
3	4.92	Sulfate	38.703	650619	7751601	1	-3.40
Totals			39.077	666761	7835535		

File: 070897AA.D34 Sample 334227



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D35   Report Date: 7/8/97 7:57:02 PM
Sample Name : 334444                         Collected  : 7/8/97 7:47:50 PM
Inject #    : 35                             Vial #     :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM            Detector    : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

```

```

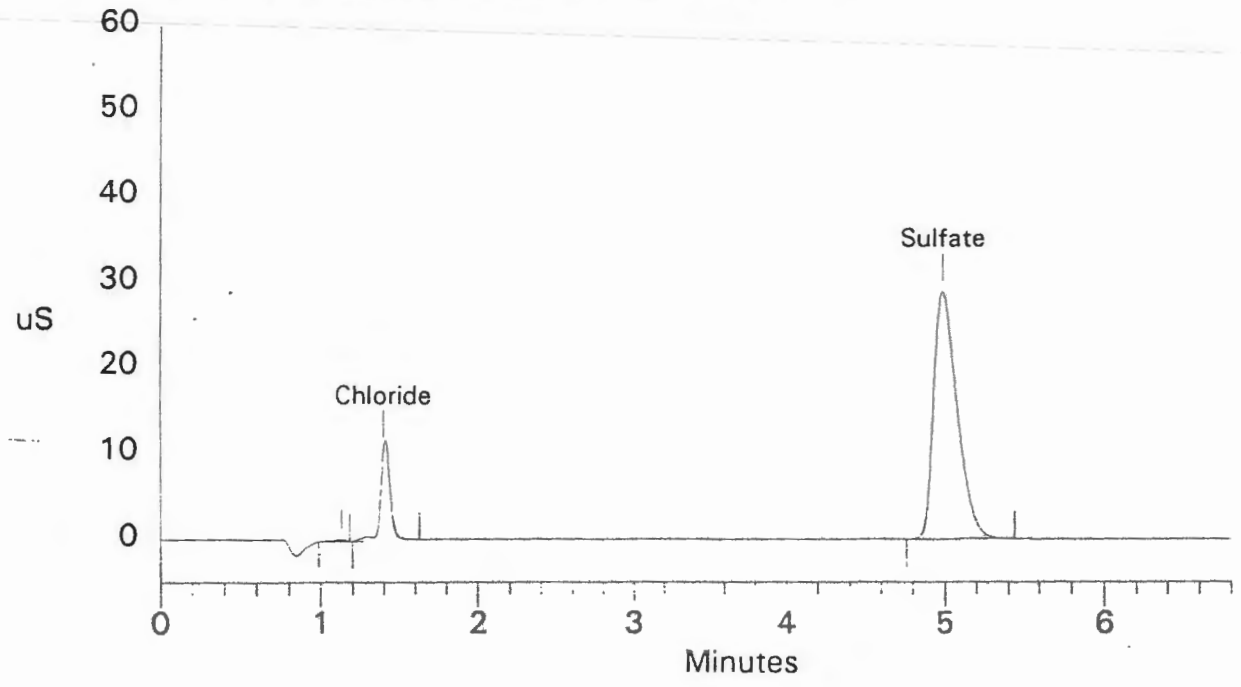
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           10    0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.40	Chloride	23.162	106179	472639	1	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
3	4.99	Sulfate	200.587	288236	2943053	1	-2.09
Totals			223.749	394415	3415691		

File: 070897AA.D35 Sample 334444



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D36   Report Date: 7/8/97 8:06:23 PM
Sample Name: 334444                           Collected  : 7/8/97 7:57:11 PM
Project #   : 36                               Vial #     :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector   : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware : 1.17
=====

```

```

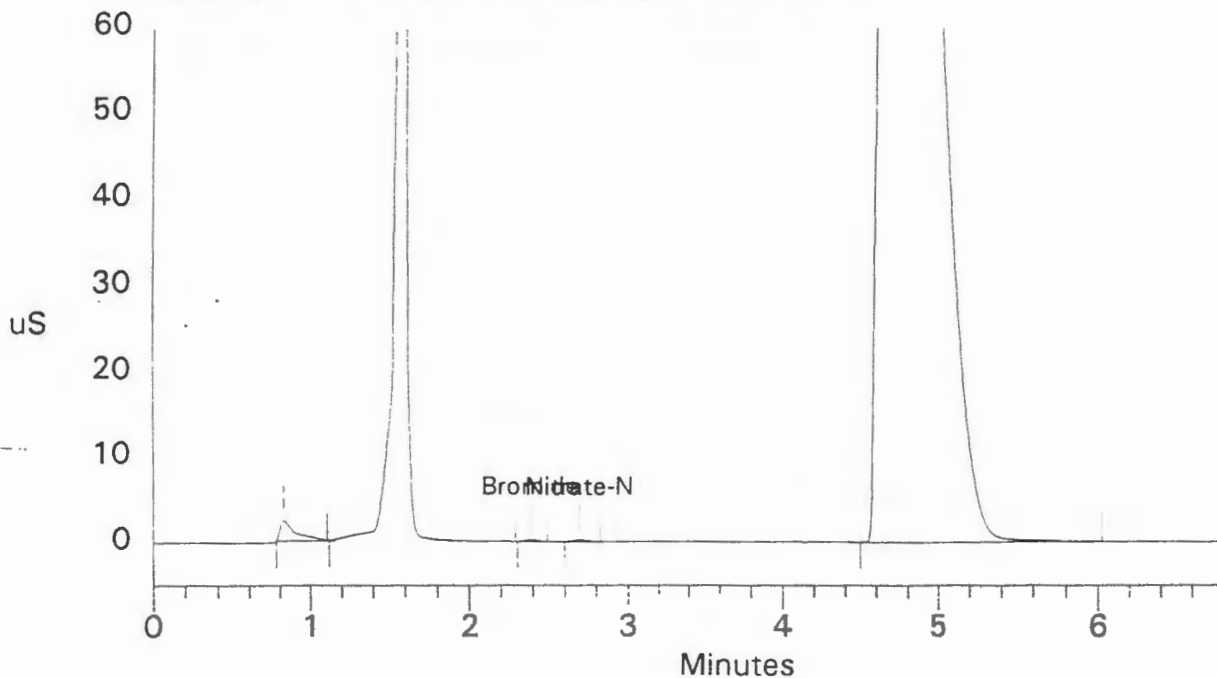
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           1     0.00  6.80          5200          8.50          2.50

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
3	2.39	Bromide	0.216	2242	9874	1	2.29
4	2.69	Nitrate-N	0.176	2193	11132	1	2.02
0	0.00	Phosphate	0.000	0	0	0	0.00
5	4.65	Sulfate	-231.982	1886807	37381297	1	-8.64
Totals			-231.590	1891243	37402302		

File: 070897AA.D36 Sample 334444



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D37   Report Date: 7/8/97 8:15:52 PM
Sample Name: CCV#3                           Collected  : 7/8/97 8:06:34 PM
Inject #    : 37                               Vial #     :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM             Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

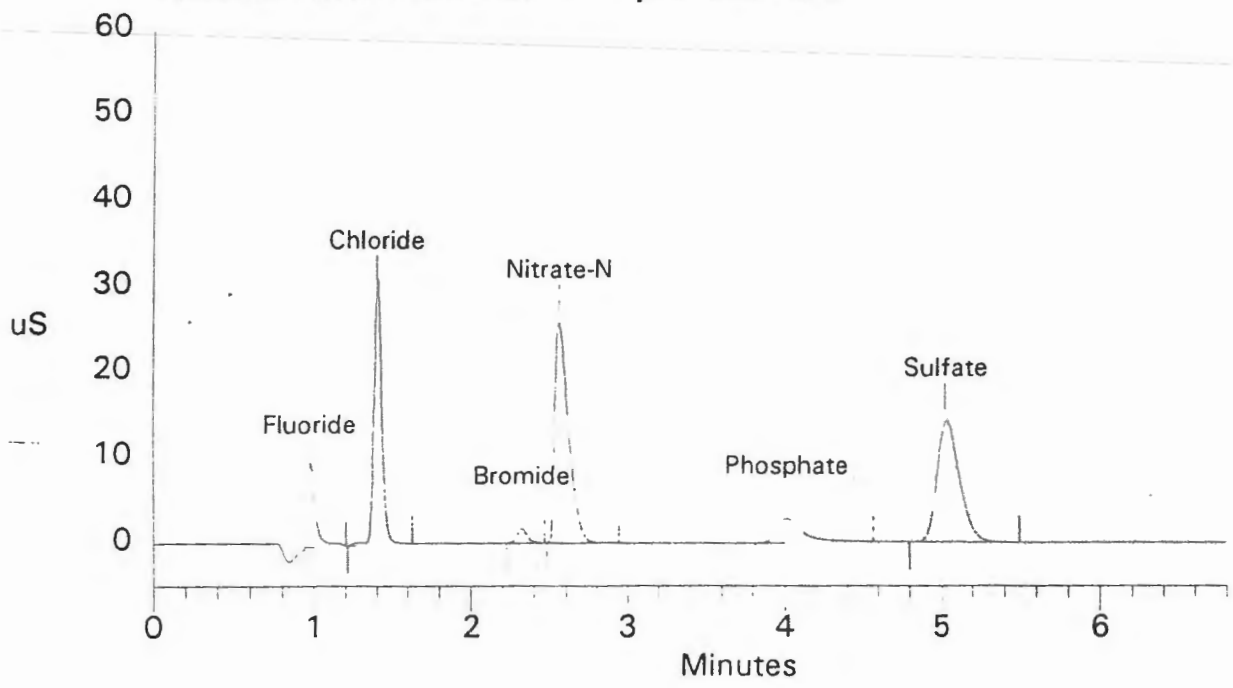
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          -1    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.97	Fluoride	0.993	80760	305942	1	0.00
2	1.40	Chloride	(12.9%) 5.089	293728	1080630	1	0.72
3	2.32	Bromide	1.012	16404	72322	1	-0.57
4	2.56	Nitrate-N	3.002	258097	1517357	1	-3.03
5	4.01	Phosphate	1.477	27923	309494	1	0.00
6	5.03	Sulfate	(10.5%) 10.456	140813	1412194	1	-1.31
Totals			22.030	817725	4697939		

File: 070897AA.D37 Sample CCV#3




```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D38   Report Date: 7/8/97 8:25:21 PM
Sample Name: CCB#3                           Collected  : 7/8/97 8:16:02 PM
Inject #    : 38                               Vial #     :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DY70 SYSTEM              Detector   : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                 Moduleware : 1.17
=====

```

```

-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          1 0.00 6.80 5200 8.50 2.50
-----

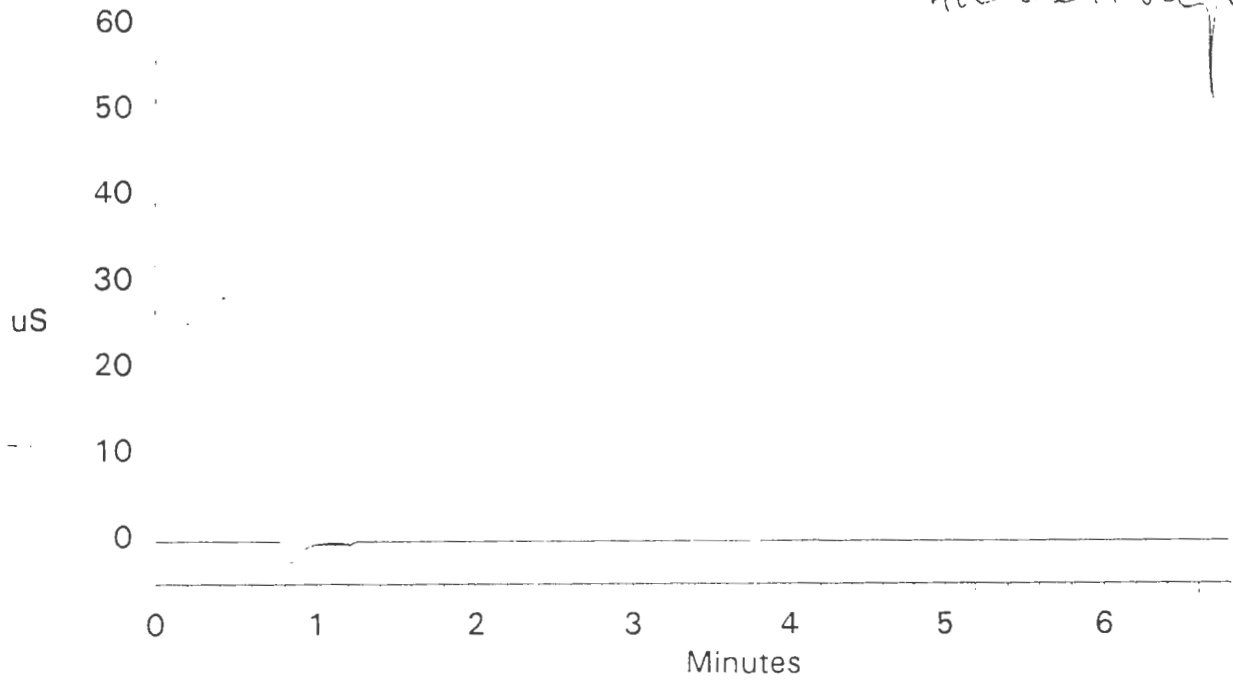
```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
Totals			0.000	0	0		

File: 070897AA.D38 Sample CCB#3

Acc. Control



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D39   Report Date: 7/8/97 8:34:47 PM
Sample Name: 334446+                         Collected  : 7/8/97 8:25:30 PM
Inject #    : 39                             Vial #     :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM             Detector   : CD20
Column Type: AG4A/AS4A                      Operator    : DEN
Data Points: 2040                            Rate       : 5.00 Hz
Module Name:                                 Moduleware : 1.17
=====

```

```

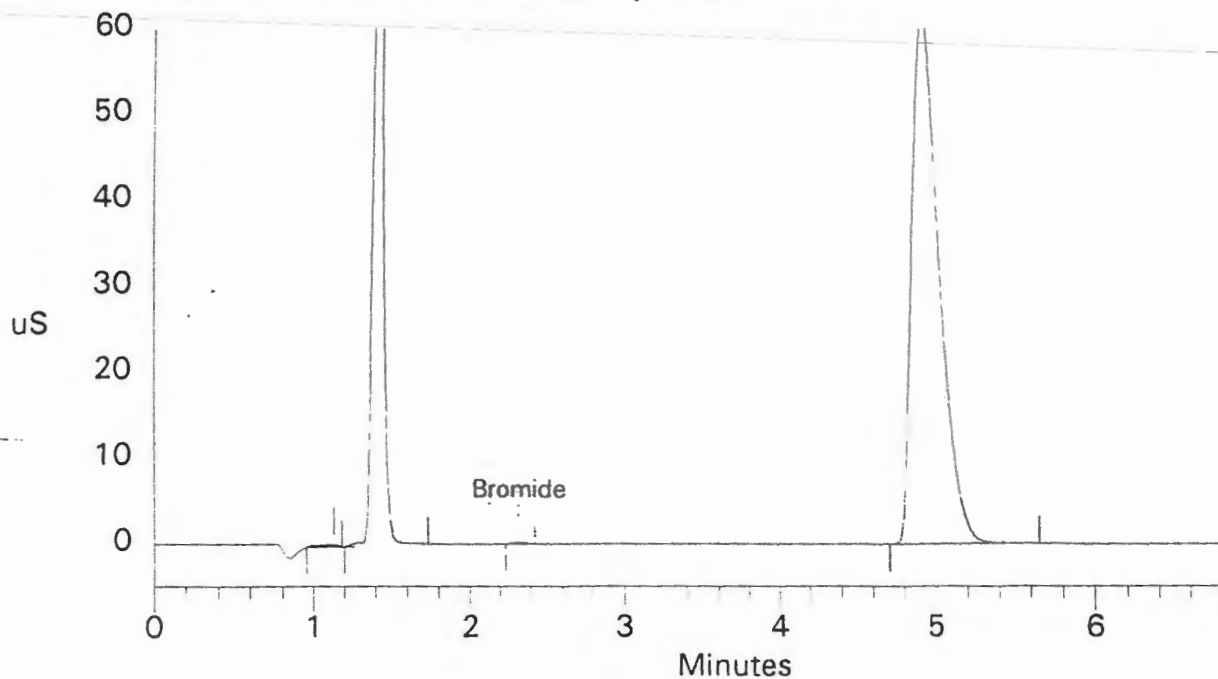
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10    0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.43	Chloride	168.793	1028116	3954180	1	2.64
3	2.32	Bromide	2.154	2088	9805	1	-0.57
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	4.89	Sulfate	378.625	625669	7370408	1	-3.93
Totals			549.572	1655872	11334393		

File: 070897AA.D39 Sample 334446+



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D40   Report Date: 7/8/97 8:44:15 PM
Sample Name : 334446                         Collected  : 7/8/97 8:34:59 PM
Inject #    : 40                             Vial #     :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM            Detector    : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

```

```

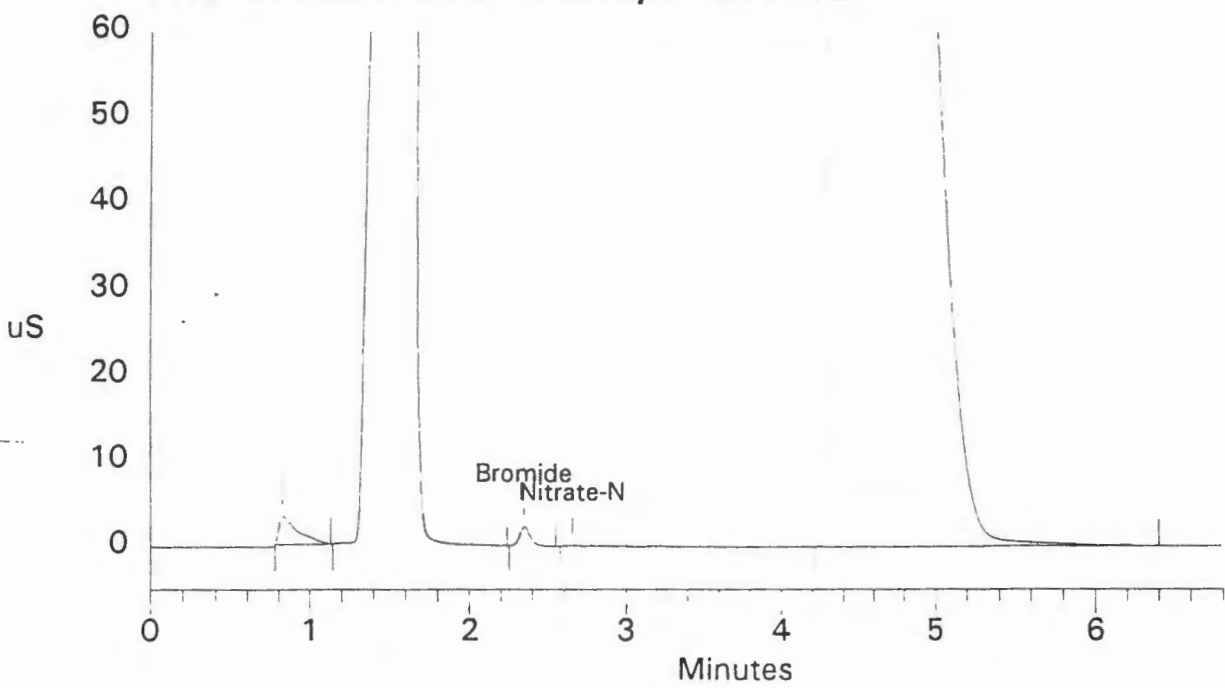
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          1    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. N	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
3	2.35	Bromide	1.469	22662	108419	2	0.57
4	2.65	Nitrate-N	0.167	1238	6562	2	0.51
5	4.36	Phosphate	-511.197	3047571	82869443	1	8.64
0	0.00	Sulfate	0.000	0	0	0	0.00
Totals			-509.561	3071472	82984425		

File: 070897AA.D40 Sample 334446



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D41   Report Date: 7/8/97 8:53:38 PM
Sample Name: 334448                         Collected  : 7/8/97 8:44:25 PM
Inject #    : 41                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM             Detector   : CD20
Column Type: AG4A/AS4A                      Operator    : DEN
Data Points: 2040                            Rate       : 5.00 Hz
Module Name:                                 Moduleware : 1.17
=====

```

```

-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10   0.00  6.80      5200      8.50      2.50
-----

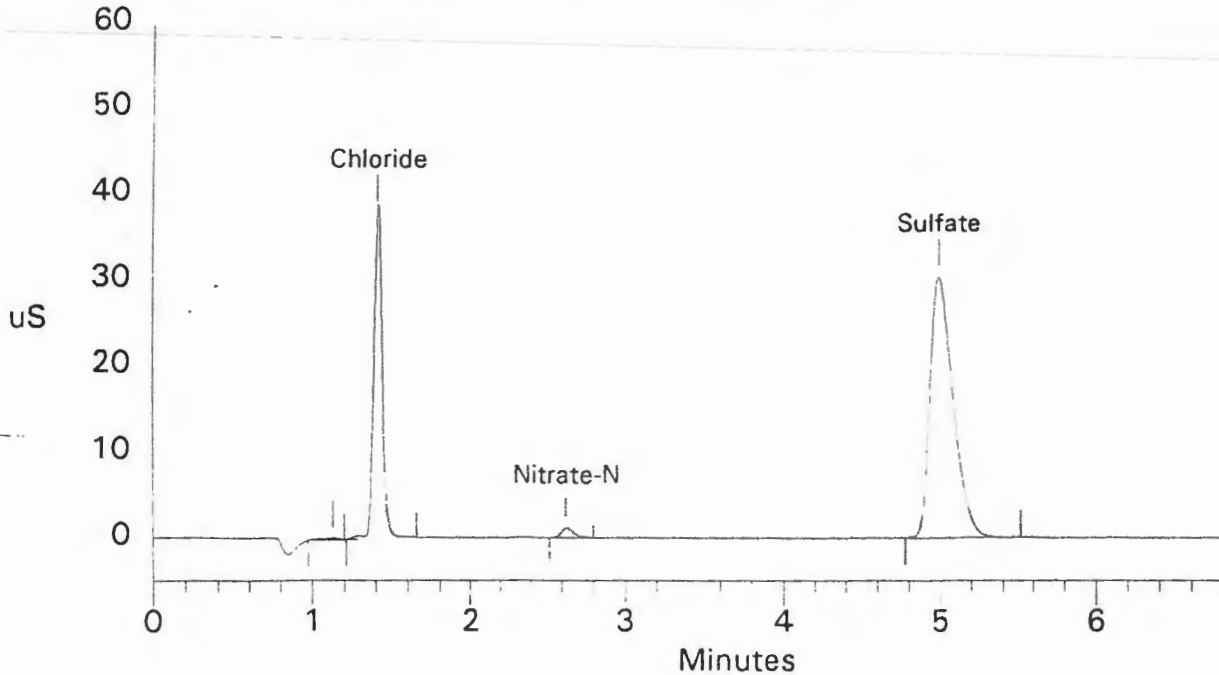
```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.41	Chloride	65.330	378917	1405993	1	1.68
0	0.00	Bromide	0.000	0	0	0	0.00
3	2.63	Nitrate-N	2.667	10910	58633	1	-0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
4	4.99	Sulfate	210.536	302945	3119851	1	-2.09

Totals			278.532	692772	4584477		

File: 070897AA.D41 Sample 334448



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D42   Report Date: 7/8/97 9:03:06 PM
Sample Name: 334448                           Collected  : 7/8/97 8:53:49 PM
Inject #    : 42                               Vial #     :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector   : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware : 1.17
=====

```

```

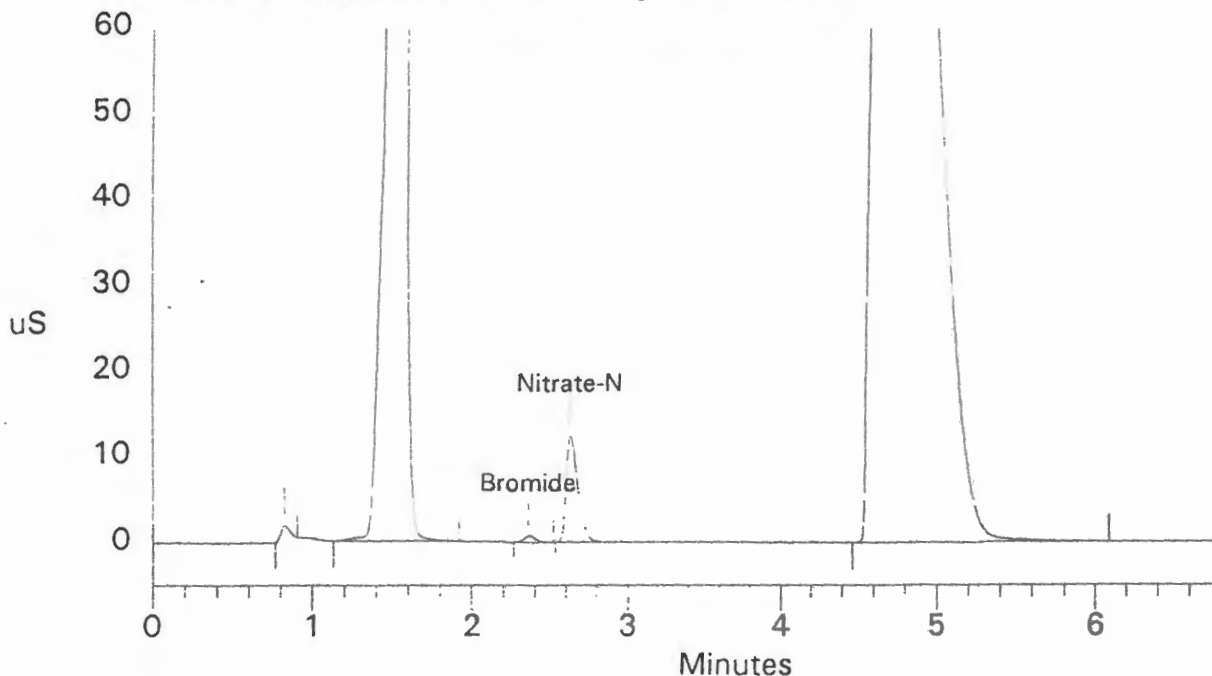
=====
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           1  0.00  6.80          5200          8.50          2.50
=====

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
3	2.36	Bromide	0.543	7435	35458	1	1.14
4	2.63	Nitrate-N	1.434	123246	674772	1	-0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
5	4.63	Sulfate	-239.746	1893060	37760482	1	-9.16
Totals			-237.769	2023741	38470712		

File: 070897AA.D42 Sample 334448



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D43   Report Date: 7/8/97 9:12:29 PM
Sample Name: 334450                           Collected  : 7/8/97 9:03:16 PM
Inject #    : 43                               Vial #      :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

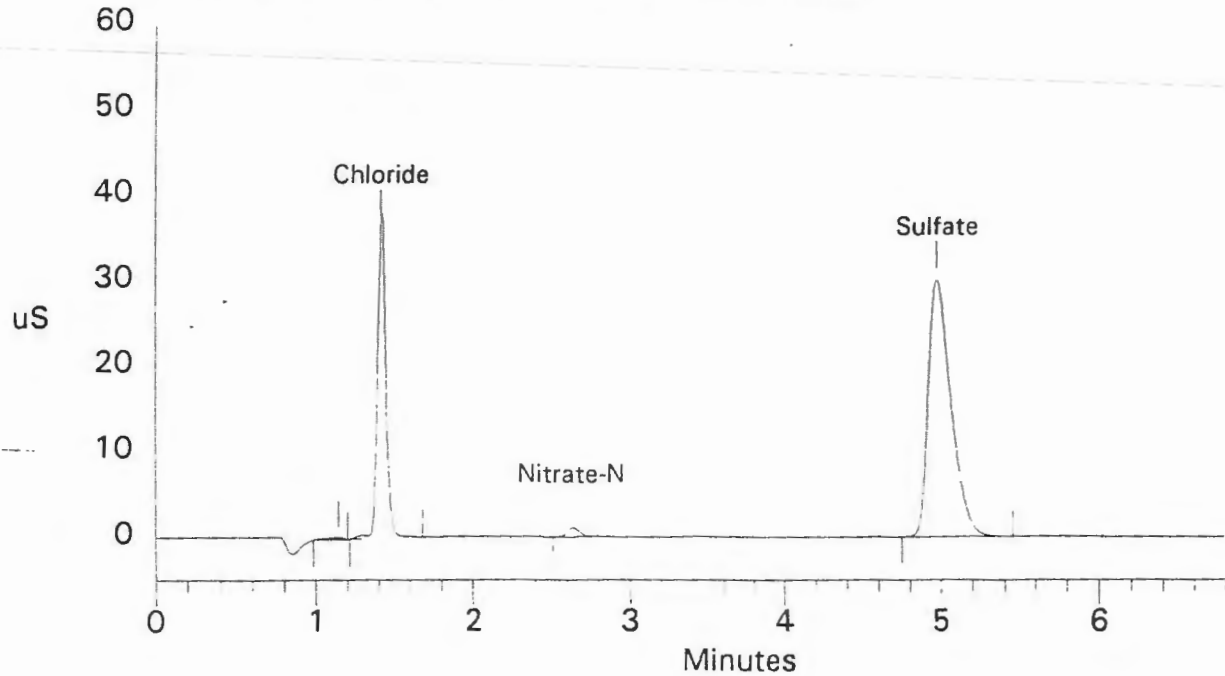
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10 0.00 6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.41	Chloride	64.349	361823	1383683	1	1.68
0	0.00	Bromide	0.000	0	0	0	0.00
4	2.63	Nitrate-N	2.637	10556	57083	1	-0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
5	4.97	Sulfate	207.578	299590	3066847	1	-2.36
Totals			274.564	671969	4507612		

File: 070897AA.D43 Sample 334450



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D44   Report Date: 7/8/97 9:21:58 PM
Sample Name: 334450                         Collected  : 7/8/97 9:12:40 PM
Project #   : 44                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM            Detector   : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                               Moduleware  : 1.17
=====

```

```

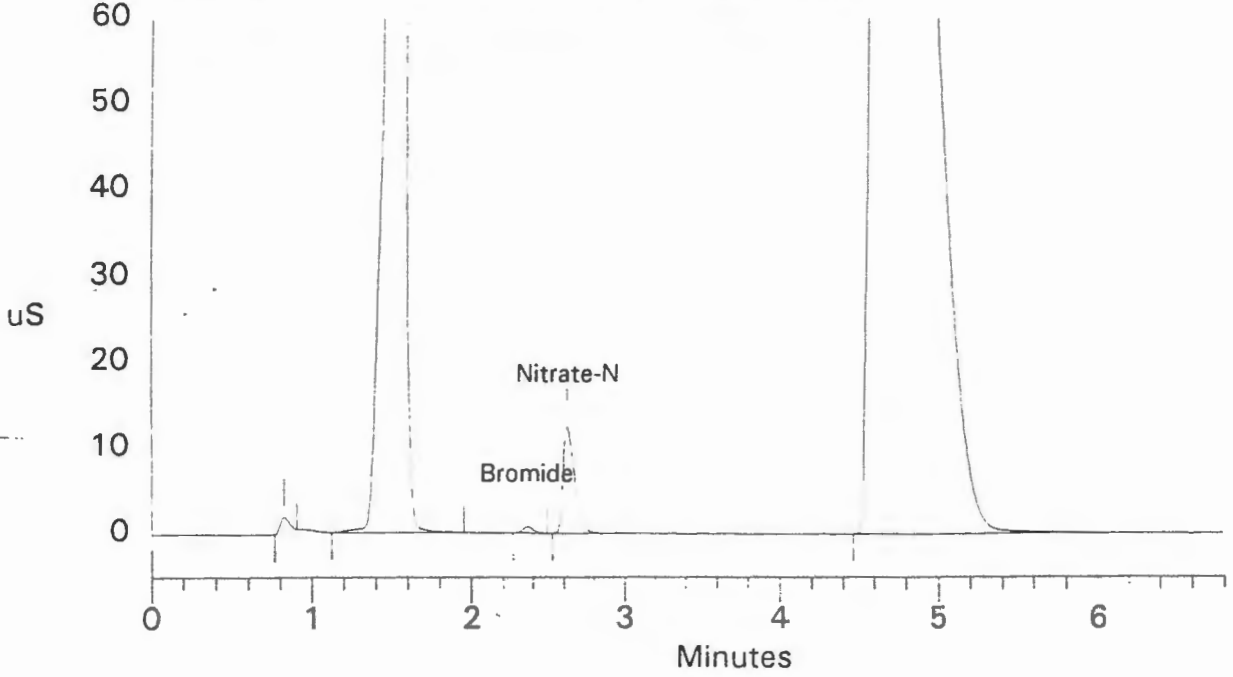
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          1    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
3	2.36	Bromide	0.540	7615	35192	1	1.14
4	2.63	Nitrate-N	1.435	124361	675429	1	-0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
5	4.61	Sulfate	-242.363	1900395	37887130	1	-9.42
Totals			-240.388	2032370	38597751		

File: 070897AA.D44 Sample 334450



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D45   Report Date: 7/8/97 9:31:21 PM
Sample Name: 334452                         Collected  : 7/8/97 9:22:09 PM
Inject #    : 45                             Vial #     :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM            Detector    : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

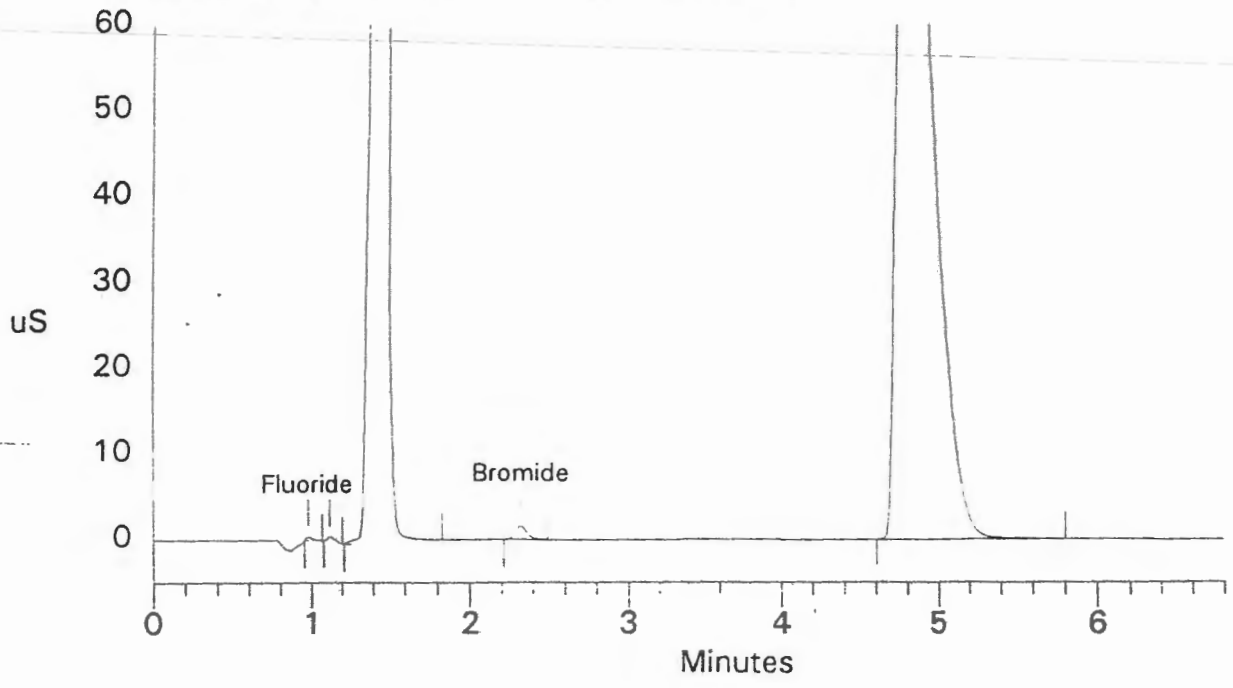
```

Calibration	Volume	Dilution	Start	Stop	Area	Reject	Pk. Width	Threshold
External	1	10	0.00	6.80	5200		8.50	2.50

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.97	Fluoride	0.916	4773	19973	2	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
4	2.32	Bromide	10.589	15778	76001	1	-0.57
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
5	4.77	Sulfate	329.344	1055673	15242187	1	-6.28
Totals			340.849	1076225	15338161		

File: 070897AA.D45 Sample 334452




```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D46   Report Date: 7/8/97 9:40:45 PM
Sample Name: 334452                         Collected  : 7/8/97 9:31:32 PM
Inj. #     : 46                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DY500 SYSTEM            Detector   : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                                Moduleware  : 1.17
=====

```

```

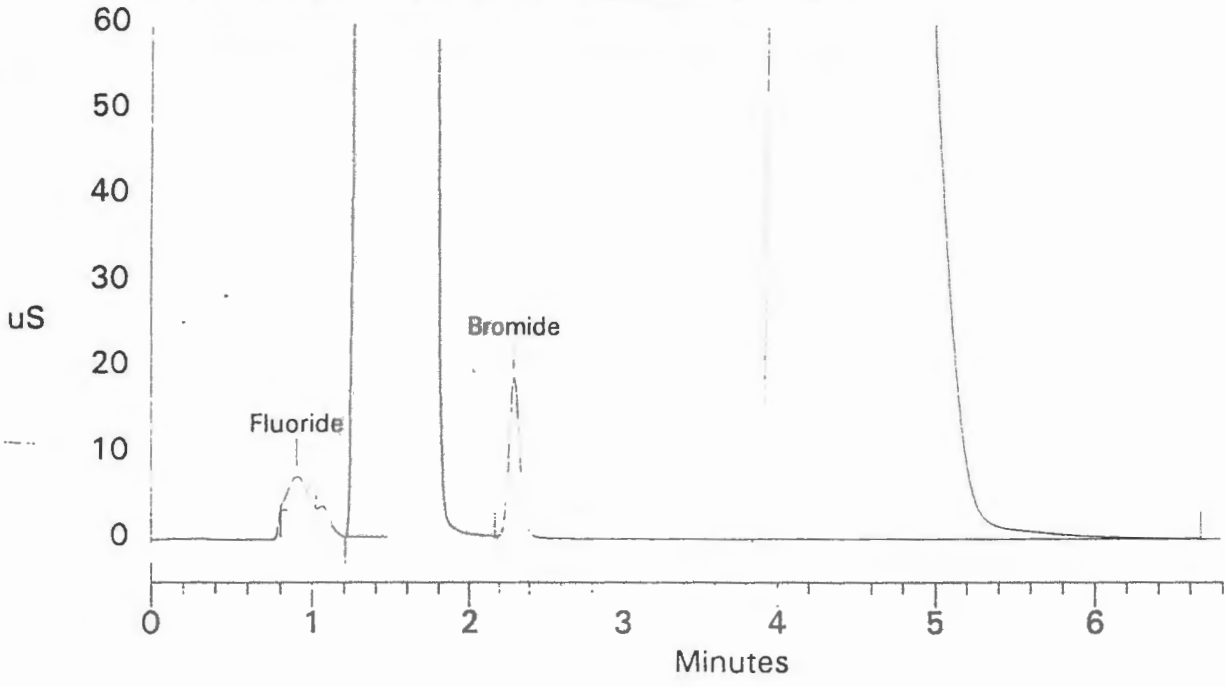
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          1      0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.91	Fluoride	0.942	37470	289721	1	-6.85
0	0.00	Chloride	0.000	0	0	0	0.00
1	2.29	Bromide	11.620	183643	970264	2	-1.71
0	0.00	Nitrate-N	0.000	0	0	0	0.00
4	4.00	Phosphate	-3118.401	4733975	171904832	1	-0.33
0	0.00	Sulfate	0.000	0	0	0	0.00
Totals			-3105.839	4955088	173164818		

File: 070897AA.D46 Sample 334452



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D47   Report Date: 7/8/97 9:50:13 PM
Sample Name: 334454                         Collected  : 7/8/97 9:40:56 PM
Inject #    : 47                             Vial #     :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM             Detector   : CD20
Column Type: AG4A/AS4A                      Operator    : DEN
Data Points: 2040                            Rate       : 5.00 Hz
Module Name:                                Moduleware : 1.17
=====

```

```

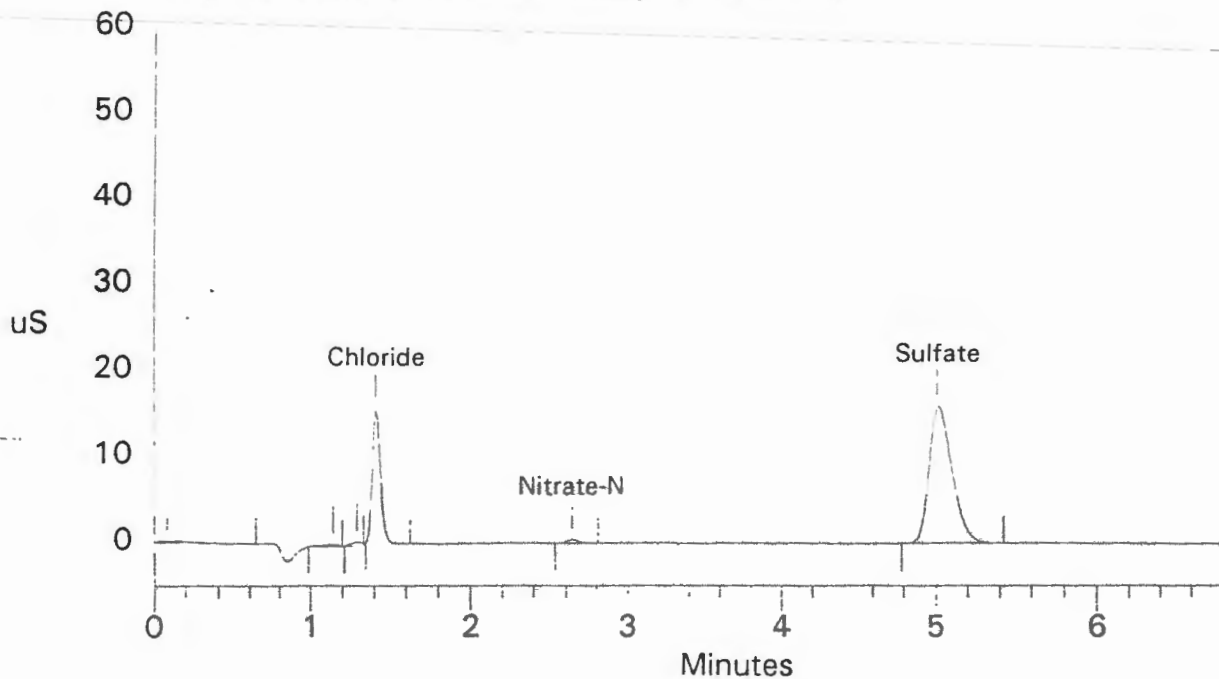
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           10    0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
4	1.41	Chloride	27.844	155998	573819	2	1.68
0	0.00	Bromide	0.000	0	0	0	0.00
5	2.64	Nitrate-N	2.031	4716	25345	1	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
6	5.01	Sulfate	116.479	158445	1587854	1	-1.57
Totals			146.354	319158	2187018		

File: 070897AA.D47 Sample 334454



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D48   Report Date: 7/8/97 9:59:41 PM
Sample Name: 334454                           Collected  : 7/8/97 9:50:23 PM
Inject #   : 48                               Vial #     :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector   : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00 Hz
Module Name:                                  Moduleware : 1.17
=====

```

```

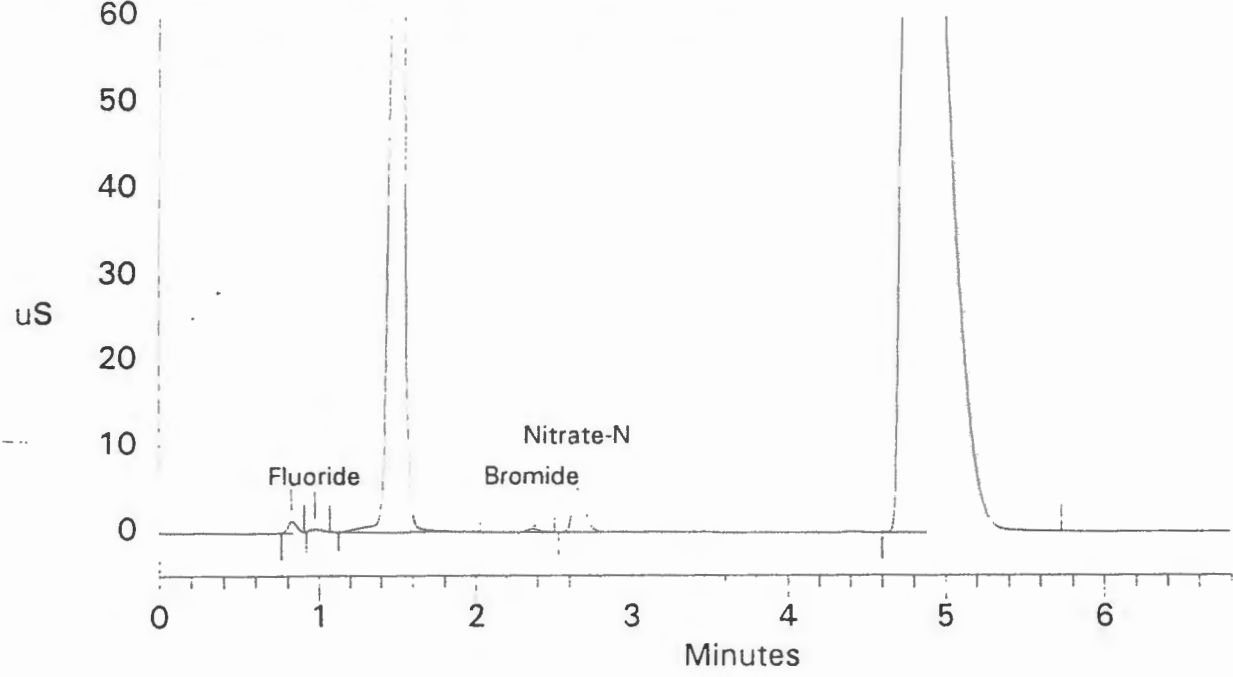
=====
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          1    0.00  6.80    5200    8.50    2.50
=====

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
2	0.97	Fluoride	0.082	3168	16930	2	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
4	2.36	Bromide	0.302	3276	16543	1	1.14
5	2.65	Nitrate-N	0.680	51058	275695	1	0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
6	4.76	Sulfate	2.073	1288519	20694218	1	-6.54
Totals			3.136	1346020	21003386		

File: 070897AA.D48 Sample 334454



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D49   Report Date: 7/8/97 10:09:09 PM
Sample Name: CCV#4                           Collected  : 7/8/97 9:59:51 PM
Inject #    : 49                             Vial #      :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM             Detector    : CD20
Column Type: AG4A/AS4A                      Operator    : DEN
Data Points: 2040                            Rate        : 5.00 Hz
Module Name:                                 Moduleware  : 1.17
=====

```

```

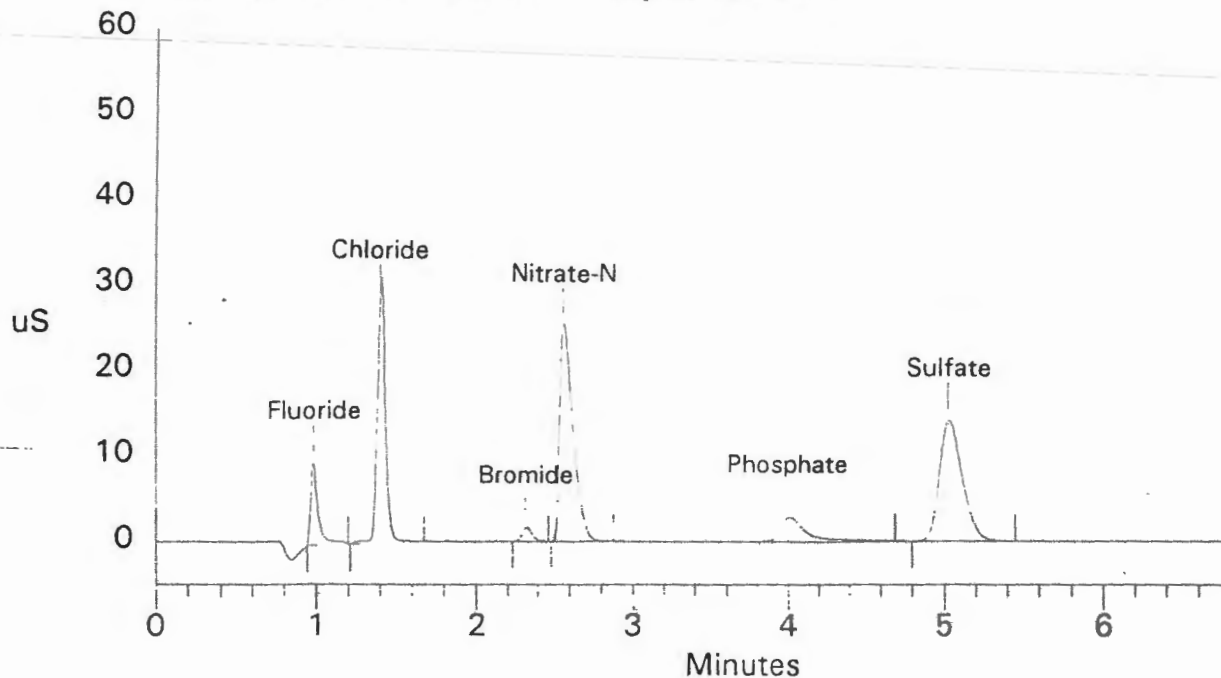
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1          -1    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.99	Fluoride	0.977	95334	300869	1	1.37
2	1.40	Chloride	5.170	279820	1098774	1	0.72
3	2.32	Bromide	1.016	15704	72620	1	-0.57
4	2.56	Nitrate-N	2.999	250104	1515432	1	-3.03
5	4.00	Phosphate	1.637	28128	342213	2	-0.33
6	5.03	Sulfate	10.528	141151	1422675	2	-1.31
Totals			22.327	810240	4752582		

File: 070897AA.D49 Sample CCV#4



```

=====
Data File   : C:\PEAKNET\DATA\070897AA.D50   Report Date: 7/8/97 10:18:32 PM
Sample Name: CCB#4                           Collected  : 7/8/97 10:09:20 PM
Inject #    : 50                               Vial #      :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX D15C SYSTEM             Detector    : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                                Moduleware  : 1.17
=====

```

```

-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          -1      0.00  6.80          5200          8.50          2.50
-----

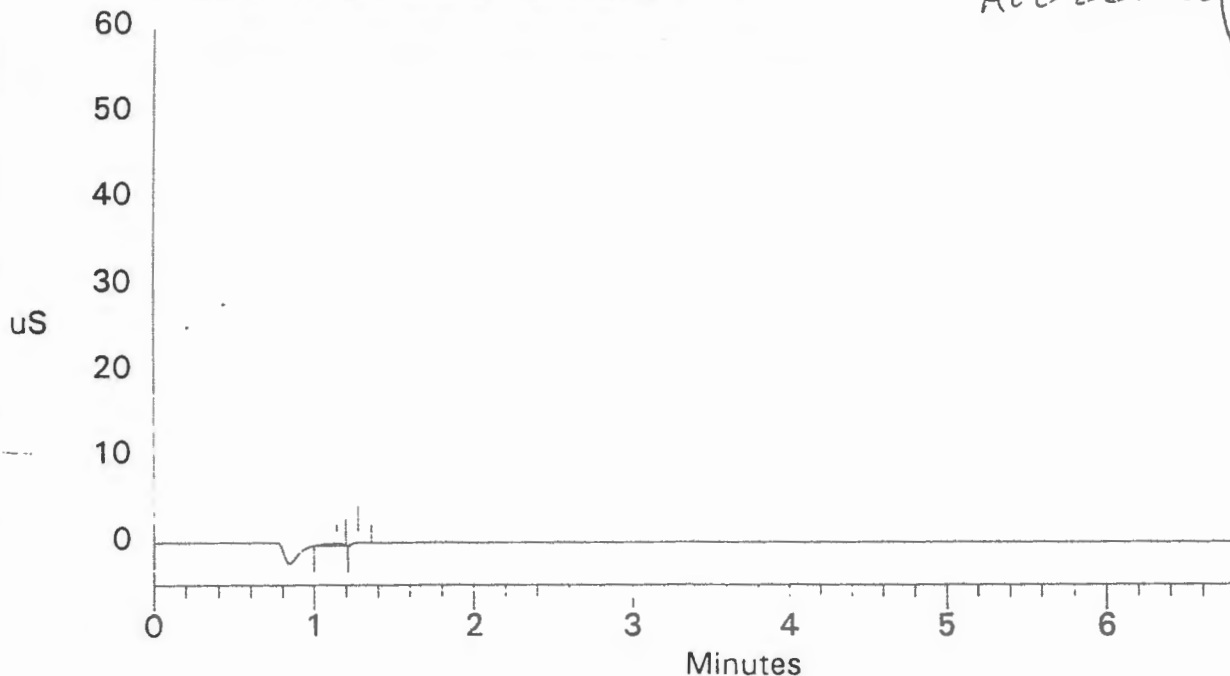
```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
Totals			0.000	0	0		

File: 070897AA.D50 Sample CCB#4

Acc. Vol. by [Signature]



000125
000127

DIONEX SCHEDULE - C:\PEAKNET\SCHEDULE\070997AA.SCH

Inj#	Sample Name	Method	Data File	Vol.	Dil.	Int.Std.
1	ICV	..\AS4A.met	070997AA	1	1	1
2	ICB	..\AS4A.met	070997AA	1	1	1
3	334444 SO4	..\AS4A.met	070997AA	1	20	1
4	334446 SO4	..\AS4A.met	070997AA	1	50	1
5	334448 SO4	..\AS4A.met	070997AA	1	20	1
6	334450 SO4	..\AS4A.met	070997AA	1	20	1
7	334452 CL/SO4	..\AS4A.met	070997AA	1	100	1
8	334454DP CL/SO4	..\AS4A.met	070997AA	1	10	1
9	334454MSSO4	..\AS4A.met	070997AA	1	20	1
10	334454MS CL	..\AS4A.met	070997AA	1	10	1
11	CCV#1	..\AS4A.met	070997AA	1	1	1
12	CCB#1	..\AS4A.met	070997AA	1	1	1
13	STOP	..\STOP.met	STOP	1	1	1

Comment:

000129

```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D01   Report Date: 7/9/97 2:43:02 PM
Sample Name: ICV                               Collected  : 7/9/97 2:33:48 PM
Inject #    : 1                               Vial #      :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM            Detector    : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

```

```

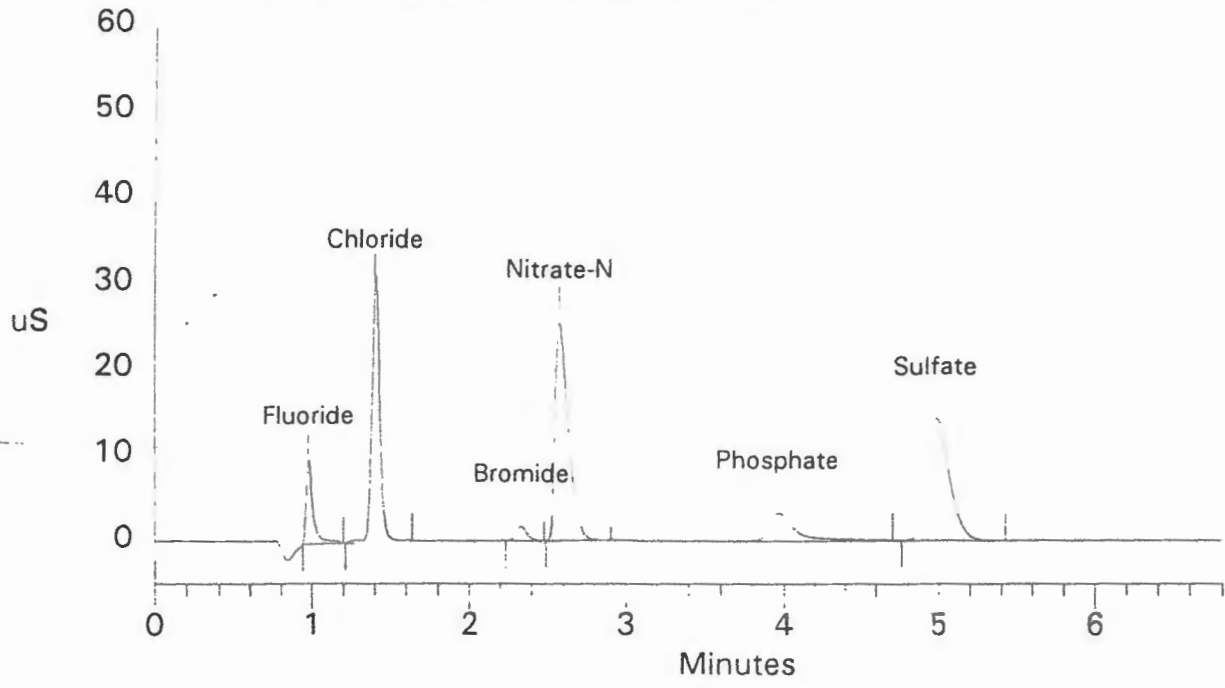
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1          -1    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.97	Fluoride	0.998	87410	307319	1	0.00
2	1.40	Chloride	(10.0%) 5.078	289611	1078191	1	0.72
3	2.33	Bromide	1.015	16219	72511	2	0.00
4	2.57	Nitrate-N	2.988	253146	1509566	2	-2.53
5	3.96	Phosphate	1.781	31990	371629	2	-1.33
6	4.97	Sulfate	(5.0%) 10.498	139943	1418378	2	-2.36
Totals			22.358	818319	4757593		

File: 070997AA.D01 Sample ICV



```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D02   Report Date: 7/9/97 2:52:29 PM
Sample Name: ICB                               Collected  : 7/9/97 2:43:12 PM
Inject #    : 2                               Vial #      :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM             Detector    : CD20
Column Type: AG4A/AS4A                      Operator    : DEN
Data Points: 2040                            Rate        : 5.00 Hz
Module Name:                                 Moduleware  : 1.17
=====

```

```

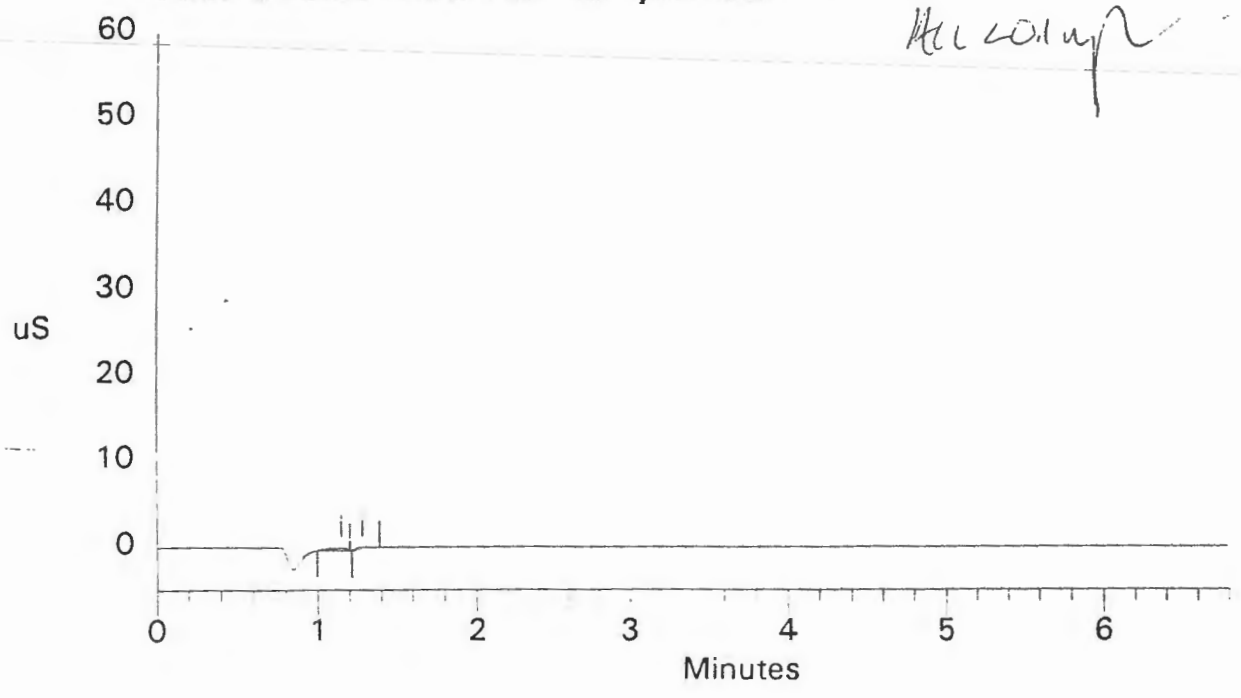
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          -1    0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
Totals			0.000	0	0		

File: 070997AA.D02 Sample ICB




```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D03   Report Date: 7/9/97 3:01:55 PM
Sample Name: 334444 SO4                      Collected  : 7/9/97 2:52:38 PM
Inject #    : 3                               Vial #     :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DI 500 SYSTEM            Detector    : CD20
Column Type: AG4A/AS4A                      Operator    : DEN
Data Points: 2040                            Rate       : 5.00 Hz
Module Name:                                 Moduleware  : 1.17
=====

```

```

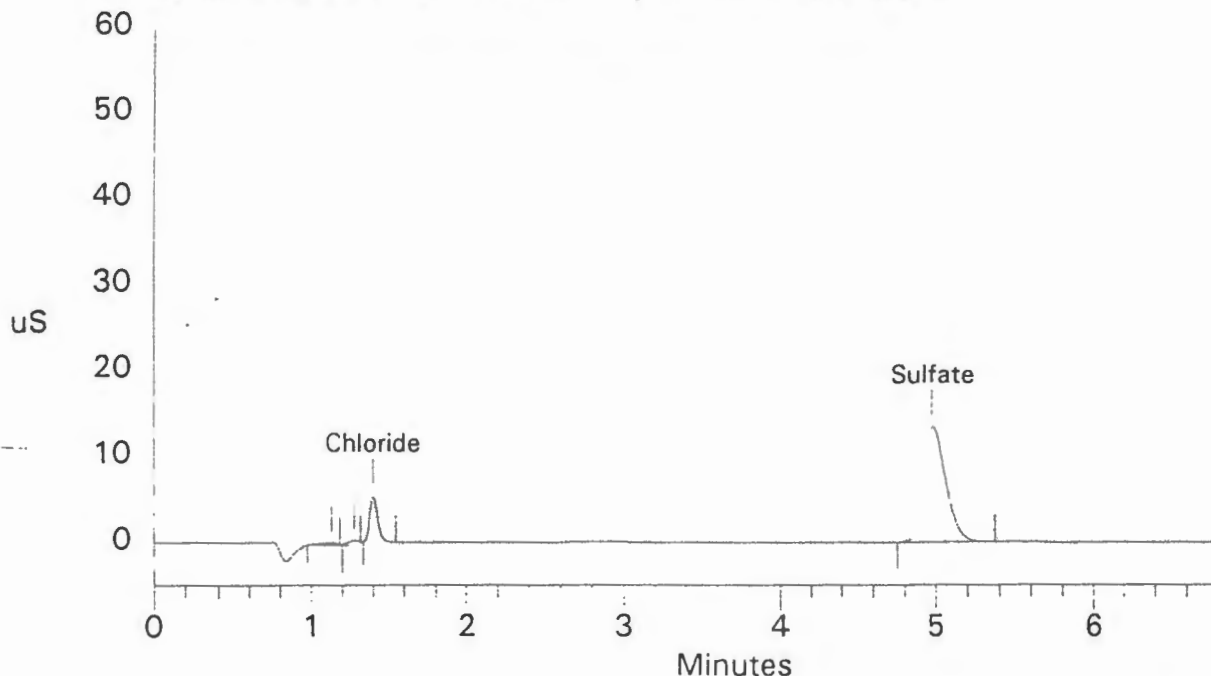
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          20    0.00  6.80      5200      8.50      2.50
-----

```

* ***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
3	1.40	Chloride	21.378	54358	205871	2	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	4.97	Sulfate	196.460	132241	1320258	1	-2.36
Totals			217.838	186599	1526129		

File: 070997AA.D03 Sample 334444 SO4



```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D04   Report Date: 7/9/97 3:11:22 PM
Sample Name : 334446 S04                     Collected  : 7/9/97 3:02:05 PM
Inject #    : 4                               Vial #     :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM             Detector   : CD20
Column Type : AG4A/AS4A                      Operator    : DEN
Data Points : 2040                            Rate       : 5.00 Hz
Module Name :                                 Moduleware : 1.17
=====

```

```

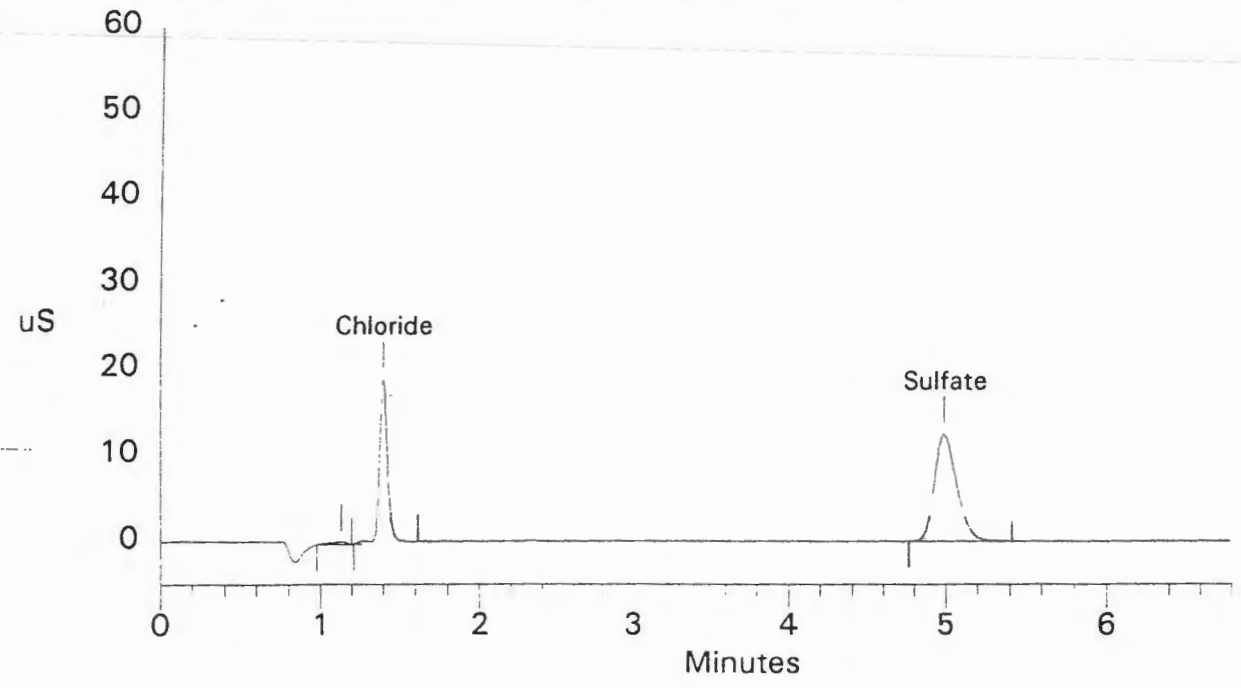
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          50  0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.40	Chloride	160.575	188970	666635	1	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
3	4.99	Sulfate	456.227	123473	1219880	1	-2.09
Totals			616.802	312443	1886515		

File: 070997AA.D04 Sample 334446 S04



```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D05   Report Date: 7/9/97 3:20:50 PM
Sample Name: 334448 S04                       Collected  : 7/9/97 3:11:33 PM
Inject #    : 5                               Vial #     :
Method File: c:\peaknet\method\as4a.met       Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate        : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

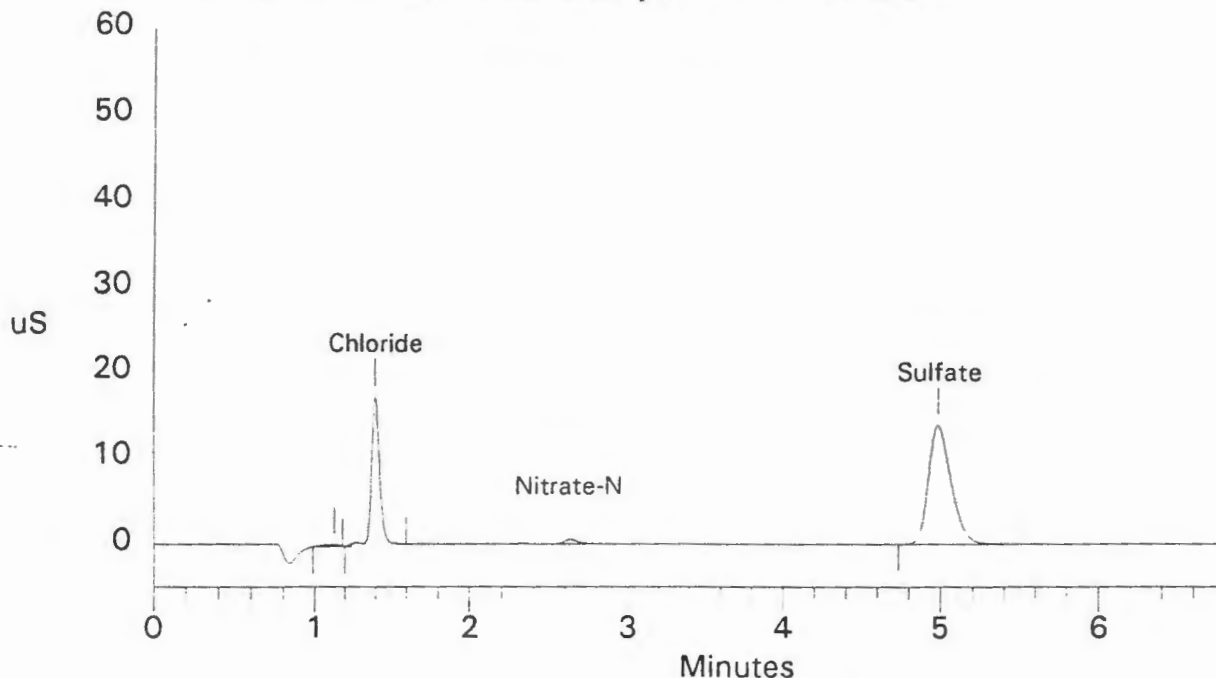
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           20    0.00  6.80    5200    8.50    2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.40	Chloride	60.861	172548	629969	1	0.72
0	0.00	Bromide	0.000	0	0	0	0.00
3	2.63	Nitrate-N	4.119	5014	26825	1	-0.51
0	0.00	Phosphate	0.000	0	0	0	0.00
4	4.99	Sulfate	203.607	138129	1372036	1	-2.09
Totals			268.587	315690	2028830		

File: 070997AA.D05 Sample 334448 S04



```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D06   Report Date: 7/9/97 3:30:17 PM
Sample Name: 334450 SO4                     Collected  : 7/9/97 3:21:00 PM
Inject #    : 6                             Vial #     :
Method File: c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM            Detector    : CD20
Column Type: AG4A/AS4A                     Operator    : DEN
Data Points: 2040                           Rate       : 5.00 Hz
Module Name:                                Moduleware  : 1.17
=====

```

```

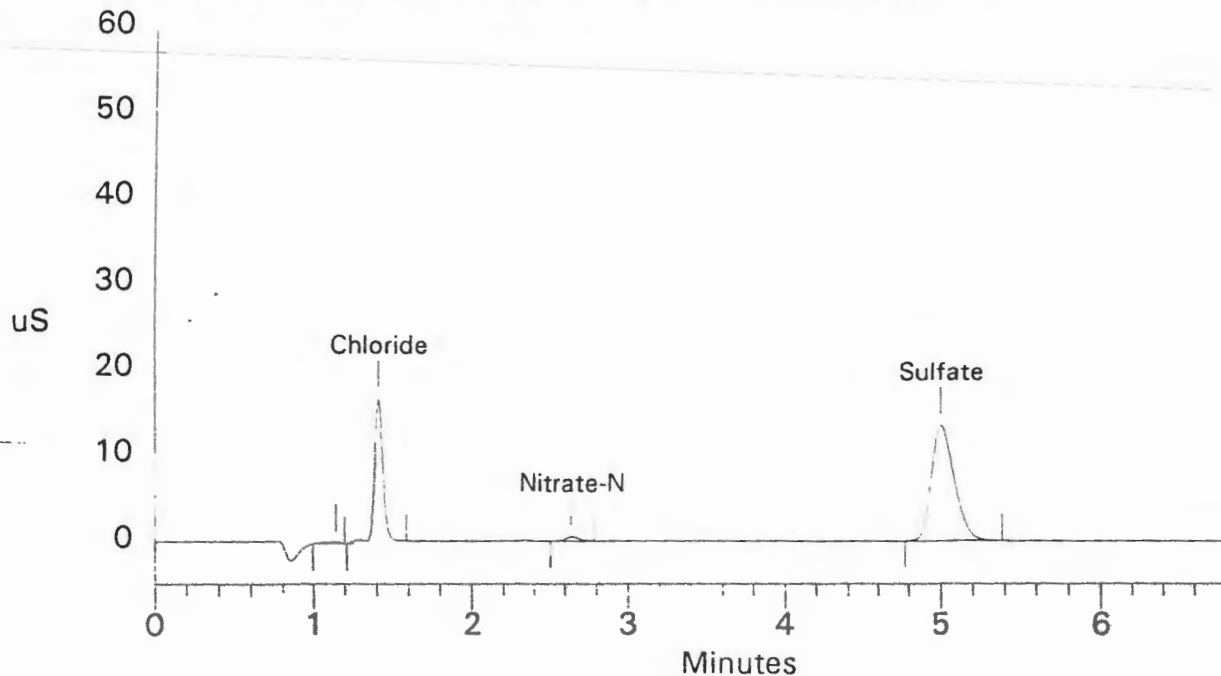
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          20    0.00  6.80    5200    8.50    2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.41	Chloride	58.882	167465	608471	1	1.68
0	0.00	Bromide	0.000	0	0	0	0.00
3	2.64	Nitrate-N	4.139	5114	27338	1	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	5.00	Sulfate	197.814	134334	1330042	1	-1.83
Totals			260.835	306913	1965851		

File: 070997AA.D06 Sample 334450 SO4



```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D07   Report Date: 7/9/97 3:39:45 PM
Sample Name : 334452 CL/SO4                 Collected  : 7/9/97 3:30:27 PM
Inject #    : 7                             Vial #     :
Method File : c:\peaknet\method\as4a.met     Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX D2500 SYSTEM            Detector    : CD20
Column Type : AG4A/AS4A                     Operator    : DEN
Data Points : 2040                           Rate       : 5.00 Hz
Module Name :                               Moduleware  : 1.17
=====

```

```

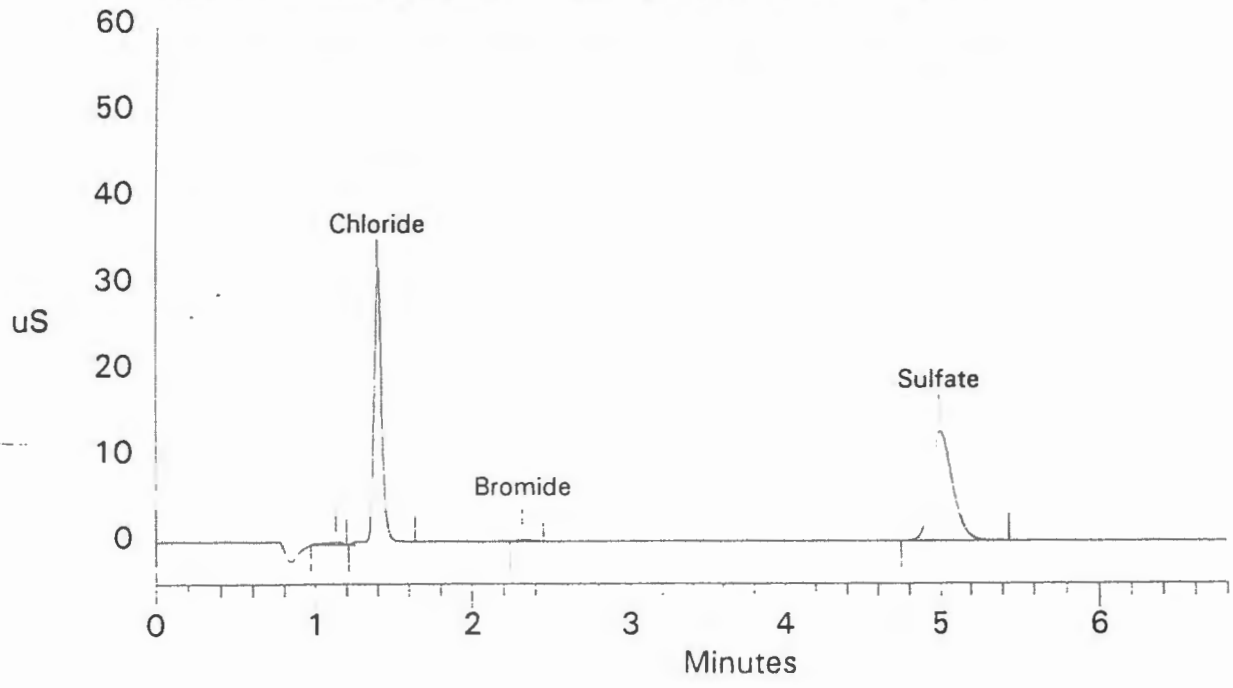
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          100    0.00  6.80    5200    8.50    2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
2	1.40	Chloride	514.460	308324	1093035	1	0.72
3	2.32	Bromide	19.638	1673	8317	1	-0.57
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
4	4.99	Sulfate	943.360	125789	1264161	1	-2.09
Totals			1477.458	435786	2365513		

File: 070997AA.D07 Sample 334452 CL/SO4



```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D08   Report Date: 7/9/97 3:49:12 PM
Sample Name: 334454DP CL/SO4                 Collected  : 7/9/97 3:39:54 PM
Inject #    : 8                               Vial #     :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector   : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate       : 5.00   Hz
Module Name:                                  Moduleware : 1.17
=====

```

```

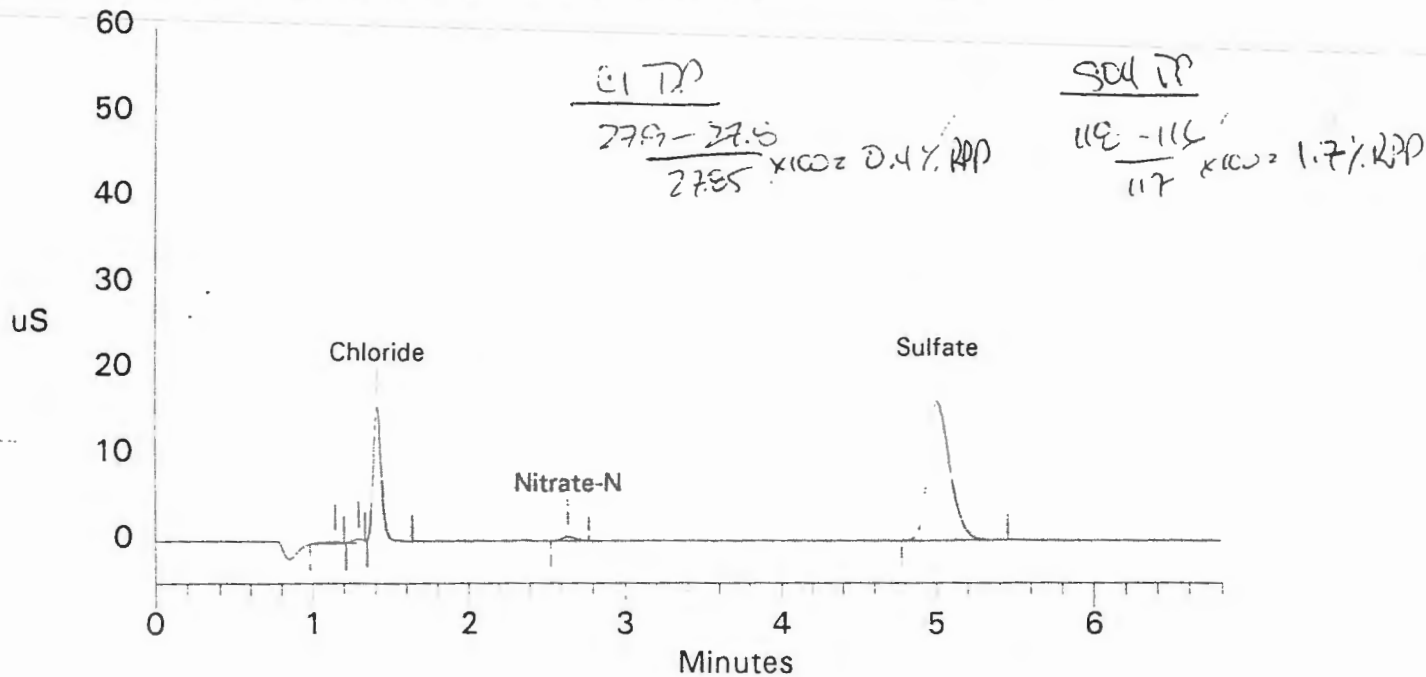
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          10    0.00  6.80          5200          8.50          2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
3	1.41	Chloride	27.921	158436	575494	2	1.68
0	0.00	Bromide	0.000	0	0	0	0.00
4	2.64	Nitrate-N	2.033	4856	25435	1	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
5	5.00	Sulfate	118.150	162277	1612768	1	-1.83
Totals			148.105	325568	2213697		

File: 070997AA.D08 Sample 334454DP CL/SO4



```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D09   Report Date: 7/9/97 3:58:40 PM
Sample Name: 334454MSS04                     Collected  : 7/9/97 3:49:23 PM
Inject #    : 9                               Vial #     :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM             Detector   : CD20
Column Type: AG4A/AS4A                      Operator    : DEN
Data Points: 2040                            Rate       : 5.00 Hz
Module Name:                                 Moduleware : 1.17
=====

```

```

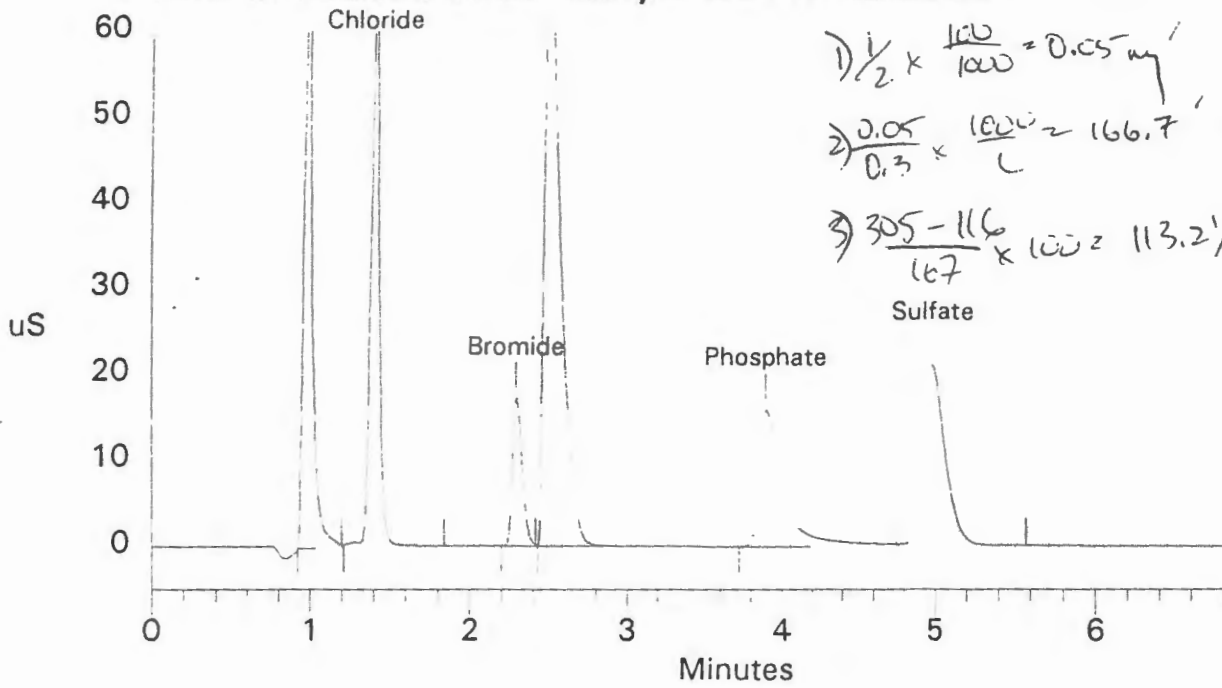
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           20   0.00  6.80      5200      8.50      2.50
-----

```

*** ***** Component Report: All Components *****

Pk. N m	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.97	Fluoride	173.479	633051	2554514	2	0.00
2	1.40	Chloride	211.302	551709	2350029	2	0.72
3	2.29	Bromide	176.180	169781	718973	2	-1.71
4	2.49	Nitrate-N	178.842	678719	4874173	2	-5.56
5	3.89	Phosphate	164.518	157841	1745859	2	-2.99
6	4.97	Sulfate	305.004	209881	2141266	2	-2.36
Totals			1209.325	2400981	14384813		

File: 070997AA.D09 Sample 334454MSS04



$1) \frac{1}{2} \times \frac{100}{100} = 0.05 \text{ mg}$
 $2) \frac{0.05}{0.3} \times \frac{1000}{1} = 166.7 \text{ } \mu\text{g}$
 $3) \frac{305 - 116}{167} \times 100 = 113.2\% \text{ } \mu\text{g}$

```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D10   Report Date: 7/9/97 4:08:08 PM
Sample Name : 334454MS CL                     Collected  : 7/9/97 3:58:50 PM
Inject #    : 10                               Vial #     :
Method File : c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name : DIONEX DX500 SYSTEM             Detector    : CD20
Column Type : AG4A/AS4A                      Operator    : DEN
Data Points : 2040                            Rate        : 5.00 Hz
Module Name :                                 Moduleware  : 1.17
=====

```

```

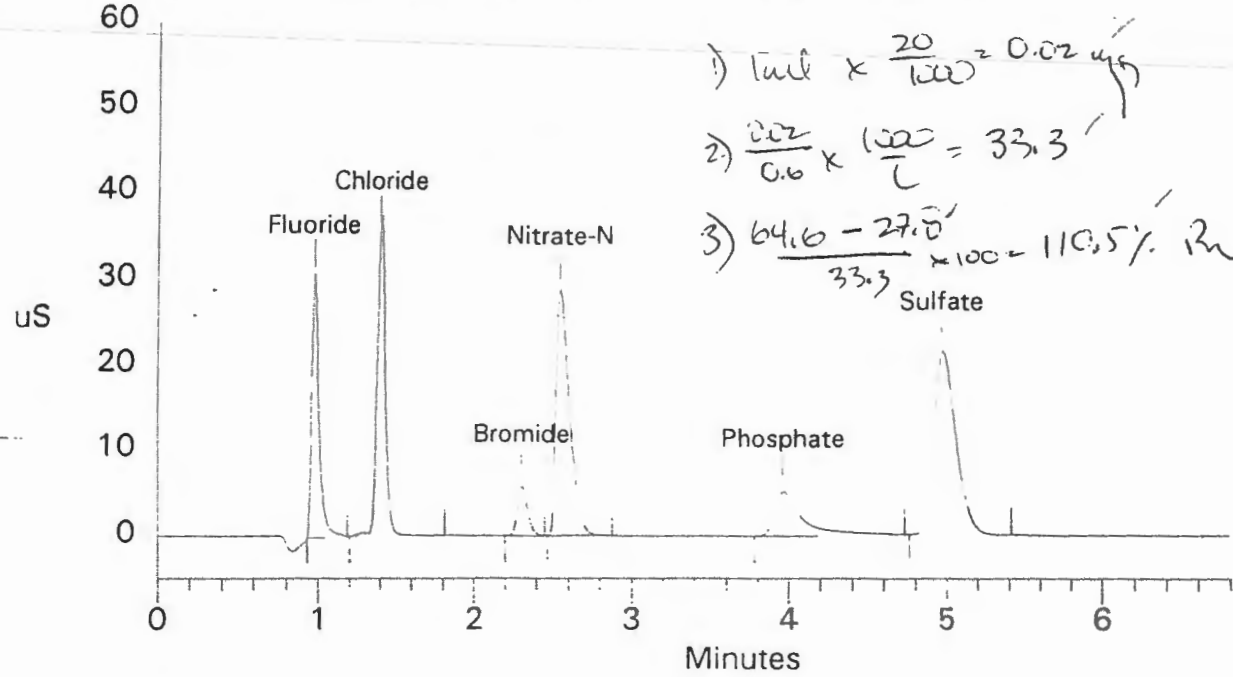
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           10    0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.97	Fluoride	32.242	302700	991480	2	0.00
2	1.40	Chloride	64.550	351911	1388257	2	0.72
3	2.31	Bromide	32.878	56968	254242	2	-1.14
4	2.55	Nitrate-N	33.634	286727	1713796	2	-3.54
5	3.96	Phosphate	31.813	51441	661246	2	-1.33
6	4.96	Sulfate	154.771	212108	2177362	2	-2.62
Totals			349.889	1261854	7186384		

File: 070997AA.D10 Sample 334454MS CL




```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D11   Report Date: 7/9/97 4:17:31 PM
Sample Name: CCV#1                           Collected  : 7/9/97 4:08:19 PM
Project #   : 11                             Vial #     :
Method File: c:\peaknet\method\as4a.met      Calibrated : 5/1/97 3:49:20 PM
System Name: DIONEX DV500 SYSTEM             Detector   : CD20
Column Type: AG4A/AS4A                      Operator    : DEN
Data Points: 2040                            Rate       : 5.00 Hz
Module Name:                                 Moduleware : 1.17
=====

```

```

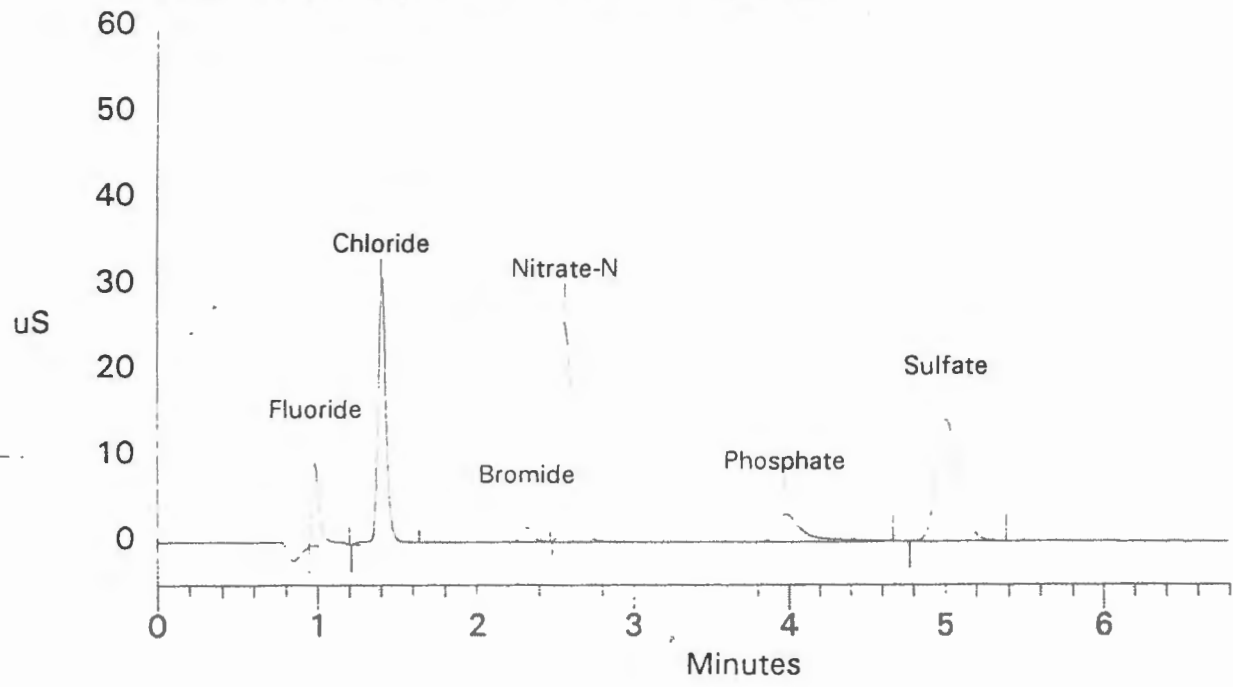
-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External           1           1  0.00  6.80      5200      8.50      2.50
-----

```

***** Component Report: All Components *****

Ex. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
1	0.99	Fluoride	0.991	96688	305270	1	1.37
2	1.40	Chloride	(107.0%) 5.096	5.10 287414	1082113	1	0.72
3	2.32	Bromide	1.014	16372	72445	1	-0.57
4	2.56	Nitrate-N	2.992	256125	1511846	1	-3.03
5	3.97	Phosphate	1.785	31961	372392	2	-1.00
6	5.00	Sulfate	(15.0%) 10.478	16.5 142187	1415409	2	-1.83
Totals			22.355	830748	4759475		

File: 070997AA.D11 Sample CCV#1



```

=====
Data File   : C:\PEAKNET\DATA\070997AA.D12   Report Date: 7/9/97 4:26:52 PM
Sample Name: CCB#1                           Collected  : 7/9/97 4:17:39 PM
Inject #    : 12                             Vial #      :
Method File: c:\peaknet\method\as4a.met      Calibrated  : 5/1/97 3:49:20 PM
System Name: DIONEX DX500 SYSTEM              Detector    : CD20
Column Type: AG4A/AS4A                       Operator    : DEN
Data Points: 2040                             Rate        : 5.00 Hz
Module Name:                                  Moduleware  : 1.17
=====

```

```

-----
Calibration Volume Dilution Start Stop Area Reject Pk. Width Threshold
-----
External          1          1  0.00  6.80          5200          8.50          2.50

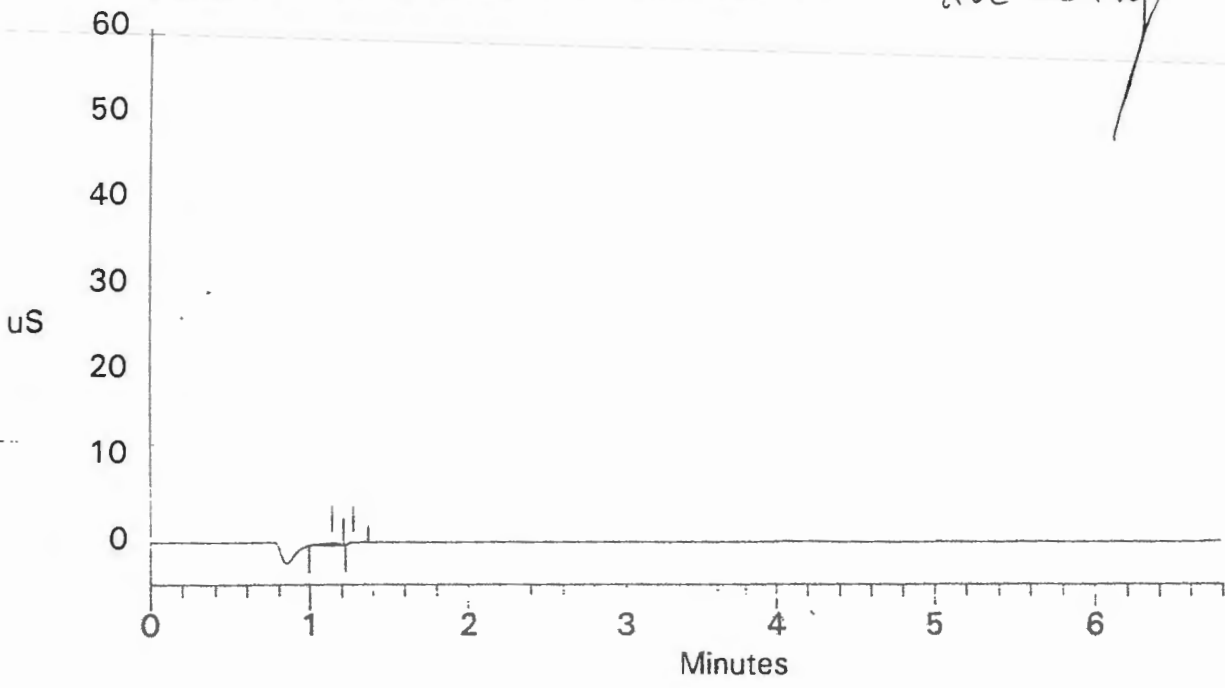
```

***** Component Report: All Components *****

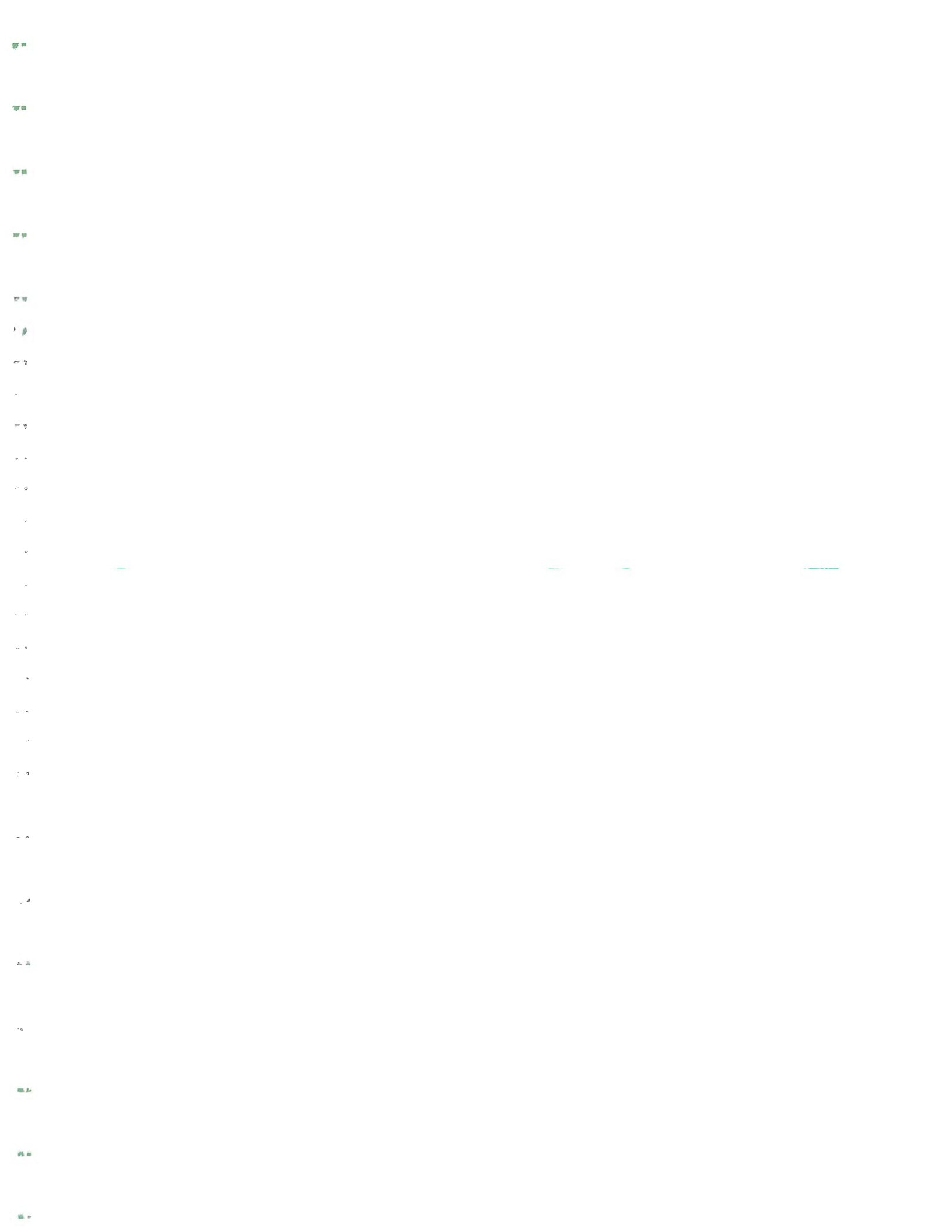
Pk. Num	Ret Time	Component Name	Concentration PPM	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
Totals			0.000	0	0		

File: 070997AA.D12 Sample CCB#1

Acc. Willy



METALS ANALYZED BY ICP



Acquisition Summary

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

ICP4--1MU 1

07/21/97 12:52

Acquisition Summary List

SAMPLE NAME	SAMPLE TYPE	#	DATE	TIME	OPERATOR	MODE	CORR FACTOR
S0	Standard	1	21-JUL-97	13:02:07			
STD4	Standard	2	21-JUL-97	13:06:51			
STD7	Standard	3	21-JUL-97	13:11:05			
STD8	Standard	4	21-JUL-97	13:15:42			
ICVTR	QC Standard	5	21-JUL-97	13:21:17	JJO	CONC	1
ICB	QC Standard	6	21-JUL-97	13:26:08	FLD	CONC	1
ICSA	QC Standard	7	21-JUL-97	13:31:00	FLD	CONC	1
ICSAB4	QC Standard	8	21-JUL-97	13:35:52	JJO	CONC	1
CRI	QC Standard	9	21-JUL-97	13:40:43	JEW	CONC	1
CCVTR	QC Standard	10	21-JUL-97	13:45:37	JEW	CONC	1
CCB	QC Standard	11	21-JUL-97	13:50:30	JEW	CONC	1
PB433	Sample	12	21-JUL-97	13:55:22	JJO	CONC	1
LCS-W433	Sample	13	21-JUL-97	14:00:08	JJO	CONC	1
334208	Sample	14	21-JUL-97	14:04:54	JJO	CONC	1
334208L	Sample	15	21-JUL-97	14:09:39	FLD	CONC	5
334444	Sample	16	21-JUL-97	14:14:25	FLD	CONC	1
334444L	Sample	17	21-JUL-97	14:19:11	FLD	CONC	5
334448	Sample	18	21-JUL-97	14:23:56	FLD	CONC	1
334450	Sample	19	21-JUL-97	14:28:45	FLD	CONC	1
334452	Sample	20	21-JUL-97	14:33:34	FLD	CONC	1
CCVTR	QC Standard	21	21-JUL-97	14:38:23	JJO	CONC	1
CCB	QC Standard	22	21-JUL-97	14:43:15	FLD	CONC	1
ICSA	QC Standard	23	21-JUL-97	14:48:07	FLD	CONC	1
ICSAB4	QC Standard	24	21-JUL-97	14:53:00	JJO	CONC	1
CRI	QC Standard	25	21-JUL-97	14:57:51	FLD	CONC	1
CCVTR	QC Standard	26	21-JUL-97	15:02:44	JJO	CONC	1
CCB	QC Standard	27	21-JUL-97	15:07:37	FLD	CONC	1

*PAWII
LCSWII*

*Cd
Cr
Pb
Mn
Ni*

*Prep #1
Cook #1
Inst #2
ICP4MU2*

ANALYZED & REVIEWED BY WSC
DATE 7/21/97
QC'd by KIA
DATE 7/22/97

*ENG SC2
65491, 65533*

Calibration Summary (DRAFT)

Watch file name: \$DISK3:[NEW]CP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

Cd 2265

ICP4--1MU¹¹
07/21/97 12:52

Calibration Summary for Cd2265

N= 2 Slope=2.86981 Intrcpt=-.235463 Correlation(r)=1.00000

SAMPLE	EMISSION	CONC	ESTIMATE	DIFF	% DIFF
SO	0.08	0.	0.00	0.00	
STD4	174.30	500.	499.96	0.04	0.01

Calibration Passes % difference test(s):

Quality Control Sample Evaluations

SAMPLE	TYPE	LOW LIM	NOMINAL	HI LIM	ESTIMATE	DIFF	% DIFF	STATUS
ICVTR		450	500	550	483.80	16.20	3.24	
ICB		-5	0	5	-0.18	0.18		
ICSA					-3.75			
ICSAB4		750	938	1125	764.50	173.50	18.50	
CRI		5	10	15	9.66	0.34	3.44	
CCVTR		90	100	110	91.03	8.97	8.97	
CCB		-5	0	5	-0.30	0.30		
CCVTR		90	100	110	92.29	7.71	7.71	
CCB		-5	0	5	0.18	-0.18		
ICSA					-3.95			
ICSAB4		750	938	1125	776.30	161.70	17.24	
CRI		5	10	15	9.59	0.41	4.12	
CCVTR		90	100	110	92.19	7.81	7.81	
CCB		-5	0	5	-0.05	0.05		

No QC failures detected for Cd2265 .

Analytical Sample Evaluations

DILUTION	SAMPLE	ESTIMATE	REPORT	STATUS
1.00	PB433	0.12	0.12	
1.00	LCS-W433	464.50	465	
1.00	334208	-0.11	-0.11	
5.00	334208L	1.14	1.14	
1.00	334444	0.03	0.03	
5.00	334444L	0.47	0.47	
1.00	334448	0.08	0.08	
1.00	334450	0.32	0.32	
1.00	334452	-0.11	-0.11	

Calibration Summary (DRAFT)

Watch file name: \$DISK3:[NEW]ICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

Cr 2677

ICP4--1MU₁₃
07/21/97 12:52

Calibration Summary for Cr2677

N= 2 Slope=17.4652 Intcpt=.145229 Correlation(r)=1.00000

SAMPLE	EMISSION	CONC	ESTIMATE	DIFF	% DIFF
S0	-0.01	0.	0.00	0.00	
STD4	57.25	1000.	1000.03	-0.03	0.00

Calibration Passes % difference test(s).

Quality Control Sample Evaluations

SAMPLE	TYPE	LOW LIM	NOMINAL	HI LIM	ESTIMATE	DIFF	% DIFF	STATUS
ICVTR		450	500	550	485.50	14.50	2.90	
ICB		-10	0	10	-0.05	0.05		
ICSA					3.78			
ICSAB4		382	478	573	396.50	81.50	17.05	
CRI		10	20	30	25.76	-5.76	-28.80	
CCVTR		180	200	220	186.70	13.30	6.65	
CCB		-10	0	10	-0.02	0.02		
CCVTR		180	200	220	188.50	11.50	5.75	
CCB		-10	0	10	0.47	-0.47		
ICSA					3.55			
ICSAB4		382	478	573	400.90	77.10	16.13	
CRI		10	20	30	25.57	-5.57	-27.85	
CCVTR		180	200	220	187.30	12.70	6.35	
CCB		-10	0	10	0.52	-0.52		

No QC failures detected for Cr2677 .

Analytical Sample Evaluations

DILUTION	SAMPLE	ESTIMATE	REPORT	STATUS
1.00	PB433	0.36	0.36	
1.00	LCS-W433	447.50	448	
1.00	334208	0.40	0.40	
5.00	334208L	2.31	2.31	
1.00	334444	0.59	0.59	
5.00	334444L	2.68	2.68	
1.00	334448	0.68	0.68	
1.00	334450	0.47	0.47	
1.00	334452	0.19	0.19	

000144

Calibration Summary (DRAFT)

Watch file name: \$DISK3:[NEW]CP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

Mn2576

ICP4--1MU₁₈
07/21/97 12:52

Calibration Summary for Mn2576

N= 2 Slope=19.3460 Intrcpt=-.261257 Correlation(r)=1.00000

SAMPLE	EMISSION	CONC	ESTIMATE	DIFF	% DIFF
SO	0.01	0.	0.00	0.00	
STD4	51.70	1000.	1000.00	0.00	0.00

Calibration Passes % difference test(s).

Quality Control Sample Evaluations

SAMPLE	TYPE	LOW LIM	NOMINAL	HI LIM	ESTIMATE	DIFF	% DIFF	STATUS
ICVTR		450	500	550	480.70	19.30	3.86	
ICB		-15	0	15	-0.16	0.16		
ICSA					-1.14			
ICSAB4		381	477	572	389.60	87.40	18.32	
CRI		15	30	45	29.00	1.00	3.33	
CCVTR		180	200	220	185.80	14.20	7.10	
CCB		-15	0	15	-0.24	0.24		
CCVTR		180	200	220	187.70	12.30	6.15	
CCB		-15	0	15	-0.20	0.20		
ICSA					-1.08			
ICSAB4		381	477	572	393.70	83.30	17.46	
CRI		15	30	45	29.30	0.70	2.33	
CCVTR		180	200	220	187.10	12.90	6.45	
CCB		-15	0	15	-0.16	0.16		

No QC failures detected for Mn2576 .

Analytical Sample Evaluations

DILUTION	SAMPLE	ESTIMATE	REPORT	STATUS
1.00	PB433	-0.12	-0.12	
1.00	LCS-W433	441.40	441	
1.00	334208	25.00	25.0	
5.00	334208L	26.19	26.2	
1.00	334444	472.60	473	
5.00	334444L	512.20	512	
1.00	334448	4.90	4.90	
1.00	334450	4.21	4.21	
1.00	334452	1134.00	1130	

Calibration Summary (DRAFT)

Watch file name: \$DISK3:[NEW]ICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

Ni 2316

ICP4--1MU₁₉
07/21/97 12:52

Calibration Summary for Ni2316

N= 2 Slope=5.98461 Intrcpt=1.09415 Correlation(r)=1.00000

SAMPLE	EMISSION	CONC	ESTIMATE	DIFF	% DIFF
S0	-0.18	0.	0.00	0.00	
STD4	166.60	1000.	998.38	1.62	0.16

Calibration Passes % difference test(s).

Quality Control Sample Evaluations

SAMPLE	TYPE	LOW LIM	NOMINAL	HI LIM	ESTIMATE	DIFF	% DIFF	STATUS
ICVTR		450	500	550	487.00	13.00	2.60	
ICB		-40	0	40	-0.57	0.57		
ICSA					1.38			
ICSAB4		750	938	1125	771.90	166.10	17.71	
CRI		40	80	120	79.06	0.94	1.17	
CCVTR		180	200	220	183.90	16.10	8.05	
CCB		-40	0	40	-0.37	0.37		
CCVTR		180	200	220	183.60	16.40	8.20	
CCB		-40	0	40	0.04	-0.04		
ICSA					2.38			
ICSAB4		750	938	1125	779.40	158.60	16.91	
CRI		40	80	120	79.52	0.48	0.60	
CCVTR		180	200	220	183.70	16.30	8.15	
CCB		-40	0	40	0.51	-0.51		

No QC failures detected for Ni2316 .

Analytical Sample Evaluations

DILUTION	SAMPLE	ESTIMATE	REPORT	STATUS
1.00	PB433	0.58	0.58	
1.00	LCS-W433	447.20	447	
1.00	334208	0.56	0.56	
5.00	334208L	-2.78	-2.78	
1.00	334444	3.58	3.58	
5.00	334444L	1.58	1.58	
1.00	334448	0.78	0.78	
1.00	334450	1.46	1.46	
1.00	334452	1.86	1.86	

Calibration Summary (DRAFT)

Watch file name: \$DISK3:[NEW]CP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

Pb 2203

ICP4--1MU₂₅
07/21/97 12:52

Calibration Summary for Pb2203

N= Slope=1.00000 Intrcpt=.000000 Correlation(r)=

SAMPLE	EMISSION	CONC	ESTIMATE	DIFF	% DIFF
=====	=====	=====	=====	=====	=====

Calibration Passes % difference test(s).

Quality Control Sample Evaluations

SAMPLE	TYPE	LOW LIM	NOMINAL	HI LIM	ESTIMATE	DIFF	% DIFF	STATUS
ICVTR		900	1000	1100	966.60	33.40	3.34	
ICB		-3	0	3	0.62	-0.62		
ICSA					3.23			
ICSAB4		40	51	61	43.18	7.82	15.33	
CRI		3	6	9	6.81	-0.81	-13.53	
CCVTR		360	400	440	369.40	30.60	7.65	
CCB		-3	0	3	-0.41	0.41		
CCVTR		360	400	440	375.70	24.30	6.07	
CCB		-3	0	3	0.58	-0.58		
ICSA					4.88			
ICSAB4		40	51	61	42.63	8.37	16.41	
CRI		3	6	9	6.41	-0.41	-6.92	
CCVTR		360	400	440	374.80	25.20	6.30	
CCB		-3	0	3	0.09	-0.09		

No QC failures detected for Pb2203 .

Analytical Sample Evaluations

DILUTION	SAMPLE	ESTIMATE	REPORT	STATUS
1.00	PB433	-1.49	-1.49	
1.00	LCS-W433	900.30	900	
1.00	334208	0.09	0.09	
5.00	334208L	2.43	2.43	
1.00	334444	-0.80	-0.80	
5.00	334444L	2.48	2.48	
1.00	334448	-0.23	-0.23	
1.00	334450	-0.41	-0.41	
1.00	334452	-2.64	-2.64	

Calibration Summary (DRAFT)

Watch file name: \$DISK3:[NEW\CP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

22 03/1

ICP4--1MU 1
07/21/97 12:52

Calibration Summary for 2203/1

N= 2 Slope=3.80601 Intrcpt=-3.97921 Correlation(r)=1.00000

SAMPLE	EMISSION	CONC	ESTIMATE	DIFF	% DIFF
S0	1.05	0.	0.00	0.00	
STD8	263.80	1000.	1000.00	0.00	0.00

Calibration Passes % difference test(s).

Quality Control Sample Evaluations

SAMPLE	TYPE	LOW LIM	NOMINAL	HI LIM	ESTIMATE	DIFF	% DIFF	STATUS
ICVTR					983.00			
ICB					4.95			
ICSA					56.58			
ICSAB4					95.67			
CRI					9.97			
CCVTR					375.80			
CCB					6.05			
CCVTR					385.10			
CCB					2.06			
ICSA					60.70			
ICSAB4					99.03			
CRI					13.40			
CCVTR					388.20			
CCB					3.31			

No QC failures detected for 2203/1 .

Analytical Sample Evaluations

DILUTION	SAMPLE	ESTIMATE	REPORT	STATUS
1.00	PB433	-3.12	-3.12	
1.00	LCS-W433	918.90	919	
1.00	334208	0.47	0.47	
5.00	334208L	-5.89	-5.89	
1.00	334444	-2.05	-2.05	
5.00	334444L	12.16	12.2	
1.00	334448	-0.63	-0.63	
1.00	334450	1.10	1.10	
1.00	334452	-2.58	-2.58	

Calibration Summary (DRAFT)

Watch file name: \$DISK3:[NEW]CP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

22 03/2

ICP4--1MU 2
07/21/97 12:52

Calibration Summary for 2203/2

N= 2 Slope=3.05346 Intrcpt=-.518194 Correlation(r)=1.00000

SAMPLE	EMISSION	CONC	ESTIMATE	DIFF	% DIFF
SO	0.17	0.	0.00	0.00	
STD8	327.70	1000.	1000.00	0.00	0.00

Calibration Passes: % difference test(s).

Quality Control Sample Evaluations

SAMPLE	TYPE	LOW LIM	NOMINAL	HI LIM	ESTIMATE	DIFF	% DIFF	STATUS
ICVTR					958.40			
ICB					-1.57			
ICSA					-23.45			
ICSAB4					16.93			
CRI					5.22			
CCVTR					366.20			
CCB					-3.66			
CCVTR					370.90			
CCB					-0.18			
ICSA					-23.04			
ICSAB4					14.45			
CRI					2.90			
CCVTR					368.10			
CCB					-1.53			

No QC failures detected for 2203/2 .

Analytical Sample Evaluations

DILUTION	SAMPLE	ESTIMATE	REPORT	STATUS
1.00	PB433	-0.70	-0.70	
1.00	LCS-W433	891.00	891	
1.00	334208	-0.13	-0.13	
5.00	334208L	6.47	6.47	
1.00	334444	-0.22	-0.22	
5.00	334444L	-2.58	-2.58	
1.00	334448	-0.05	-0.05	
1.00	334450	-1.20	-1.20	
1.00	334452	-2.71	-2.71	

000149

Instrument Log

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 12:57:08 Begin Method ILM02
21-JUL-97 12:57:08 AutoSampler Report Table: 1ILM02 Mon 07-21-97 12:55:03 PM page 1

21-JUL-97 12:57:09 Table Name: 1ILM02 Autosampler Type: TYPE TJA
21-JUL-97 12:57:09 Sample Positions: 263/300 QC Positions: 7/19 # Sets: 1
21-JUL-97 12:57:09 Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	7	10
2	Sample (13mm)	Samples	38	1
3	Sample (13mm)	Samples	75	1
4	Sample (13mm)	Samples	75	1
5	Sample (13mm)	Samples	75	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No	CLP SAMPLES	CLP	37	2	1

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor
------	--------	----------	-------	------------

No Samples Prepared.

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	STD7	-NA-	1	Standard
2	1	2	STD8	-NA-	1	Standard
(3...4 Not Used)						
5	1	5	STD4	-NA-	1	Standard
(6...7 Not Used)						
8	1	8	SO	-NA-	1	Standard
9	1	9	CRI	-NA-	2	QC Standard
10	1	10	ICVTR	-NA-	1	QC Standard
11	1	11	ICB	-NA-	1	QC Standard
12	1	12	ICSA	-NA-	2	QC Standard
13	1	13	ICSAB4	-NA-	2	QC Standard
14	1	14	CCB	-NA-	3	QC Standard
15	1	15	CCVTR	-NA-	3	QC Standard
15	1	15	CCVTR	-NA-	3	QC Standard
(17...19 Not Used)						

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	PB433	1	-NA-	Sample
2	1	2	LCS-W433	1	-NA-	Sample
3	1	3	334208	1	-NA-	Sample
4	1	4	334208L	1	-NA-	Sample
5	1	5	334444	1	-NA-	Sample
6	1	6	334444L	1	-NA-	Sample
7	1	7	334448	1	-NA-	Sample

AutoSampler Report Table: 1ILM02 Mon 07-21-97 12:55:03 PM page 2

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
8	1	8	334450	1	-NA-	Sample
9	1	9	334452	1	-NA-	Sample
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-
13	1	13	(empty)	1	-NA-	-NA-
14	1	14	(empty)	1	-NA-	-NA-
15	1	15	(empty)	1	-NA-	-NA-
16	2	1	(empty)	1	-NA-	-NA-
17	2	2	(empty)	1	-NA-	-NA-
18	2	3	(empty)	1	-NA-	-NA-
19	2	4	(empty)	1	-NA-	-NA-
20	2	5	(empty)	1	-NA-	-NA-
21	2	6	(empty)	1	-NA-	-NA-
22	2	7	(empty)	1	-NA-	-NA-
23	2	8	(empty)	1	-NA-	-NA-
24	2	9	(empty)	1	-NA-	-NA-
25	2	10	(empty)	1	-NA-	-NA-

000150

Instrument Log

ICP4--1MU₂
07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 12:57:26	26	2	11	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:27	27	2	12	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:27	28	2	13	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:27	29	2	14	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:27	30	2	15	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:28	31	3	1	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:28	32	3	2	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:28	33	3	3	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:29	34	3	4	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:29	35	3	5	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:29	36	3	6	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:29	37	3	7	(empty)	1	-NA-	-NA-
21-JUL-97 12:57:29	(38...75)			Not Used)			

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
(1...75)			Not Used)			

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
(1...75)			Not Used)			

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type
(1...75)			Not Used)			

Mon 07-21-97 01:00:01 PM page 1

Method: CLP Standard: SD

Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
Avge	1.046	.1697	-.0644	.0831	-.1132	.0280	1.304
SDev	1.373	1.212	.0000	.0264	.0104	.1072	.006
%RSD	131.3	714.2	.0661	31.76	9.148	382.8	.4973
#1	.0748	1.027	-.0644	.0644	-.1205	-.0478	1.299
#2	2.016	-.6873	-.0644	.1017	-.1059	.1038	1.308
Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
Avge	.2327	-.0010	-.2150	.0820	.0208	-.0083	-.1392
SDev	.0795	.0015	.0045	.0249	.0029	.0176	.0146
%RSD	34.15	141.4	2.116	30.37	14.21	212.0	10.49
#1	.2889	.0000	-.2182	.0644	.0229	-.0208	-.1289
#2	.1765	-.0021	-.2118	.0997	.0187	.0042	-.1495
Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
Avge	.4425	.0135	.0052	.0135	-.1828	26.07	-.0332
SDev	.0209	.0103	.0132	.0044	.0530	.01	.0646
%RSD	4.714	76.20	254.4	32.70	28.99	.0522	194.5
#1	.4572	.0208	.0145	.0166	-.2203	26.06	.0125
#2	.4277	.0062	-.0042	.0104	-.1453	26.08	-.0789
Elem	Na3302	V 2924	Zn2138	Mo2020	Tl1908	Sn1899	B 2496
Avge	-.0717	-.0010	.0145	.0135	-.4975	.0384	.0582
SDev	.0456	.0073	.0235	.0162	.0282	.1366	.0117
%RSD	63.59	705.5	161.6	119.7	5.676	355.8	20.14
#1	-.1039	-.0062	.0312	.0249	-.5175	-.0582	.0499
#2	-.0395	.0042	-.0021	.0021	-.4776	.1350	.0664
Elem	Si2881						
Avge	2.604						
SDev	.023						
%RSD	.8929						
#1	2.588						
#2	2.620						

Method: CLP Standard: STD4

Elem	Ba4934	Be3130	Cd2265	Cr2677	Co2286	Cu3247	Mn2576
Avge	38.60	59.18	174.3	57.25	242.5	29.75	51.70
SDev	.04	.05	.2	.02	.1	.05	.04
%RSD	.1049	.0841	.1034	.0391	.0561	.1736	.0819
#1	38.57	59.21	174.4	57.23	242.4	29.71	51.67

000151

Instrument Log

ICP4--1MU₃

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

07/21/97 12:52

21-JUL-97 13:06:53	#2	38.63	59.14	174.2	57.27	242.6	29.79	51.73
21-JUL-97 13:06:53								
21-JUL-97 13:06:54	Elem	Ni2316	Ag3280	V 2924	Zn2138	Mo2020	B 2496	Si2881
21-JUL-97 13:06:54	Avg	166.6	23.36	11.35	159.6	11.95	43.79	103.1
21-JUL-97 13:06:54	SDev	.1	.02	.02	.1	.06	.23	.2
21-JUL-97 13:06:55	%RSD	.0422	.0941	.1983	.0683	.4732	.5261	.2309
21-JUL-97 13:06:55								
21-JUL-97 13:06:55	#1	166.6	23.37	11.33	159.5	11.91	43.63	103.3
21-JUL-97 13:06:56	#2	166.7	23.34	11.36	159.7	11.99	43.95	102.9

Method: CLP Standard: STD7

21-JUL-97 13:11:05	Elem	Al3082	Ca3179	Fe2714	Mg2790	K 7664	Na3302
21-JUL-97 13:11:06	Avg	193.1	138.4	80.56	291.8	199.5	12.43
21-JUL-97 13:11:06	SDev	1.3	1.0	.51	1.9	.9	.02
21-JUL-97 13:11:07	%RSD	.6612	.7020	.6314	.6402	.4717	.1528
21-JUL-97 13:11:07							
21-JUL-97 13:11:07	#1	192.2	137.7	80.20	290.4	198.9	12.44
21-JUL-97 13:11:07	#2	194.0	139.1	80.92	293.1	200.2	12.41

Method: CLP Standard: STD8

21-JUL-97 13:15:42	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	As1890
21-JUL-97 13:15:43	Avg	263.8	327.7	18.85	16.47	20.13	15.41	27.01
21-JUL-97 13:15:43	SDev	.6	2.8	.17	.11	.40	.14	.43
21-JUL-97 13:15:44	%RSD	.2135	.8628	.8815	.6836	1.975	.8943	1.575
21-JUL-97 13:15:44								
21-JUL-97 13:15:44	#1	263.4	329.7	18.97	16.55	20.41	15.50	27.31
21-JUL-97 13:15:44	#2	264.2	325.7	18.73	16.39	19.85	15.31	26.71
21-JUL-97 13:15:44	Elem	Tl1908	Sn1899					
21-JUL-97 13:15:45	Avg	18.68	31.36					
21-JUL-97 13:15:45	SDev	.24	.28					
21-JUL-97 13:15:45	%RSD	1.277	.8965					
21-JUL-97 13:15:45								
21-JUL-97 13:15:45	#1	18.85	31.56					
21-JUL-97 13:15:45	#2	18.51	31.17					

Method: CLP Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date	Standardized
2203/1	220.351	Multiple	Standards	3.80601	-3.97921	07/21/97	01:09:08
2203/2	220.352	Multiple	Standards	3.05346	-.518194	07/21/97	01:09:08
1960/1	196.021	Multiple	Standards	26.4327	1.70224	07/21/97	01:09:08
1960/2	196.022	Multiple	Standards	30.5105	-2.53501	07/21/97	01:09:08
2068/1	206.831	Multiple	Standards	24.6957	2.79606	07/21/97	01:09:08
2068/2	206.832	Multiple	Standards	32.5147	-.910711	07/21/97	01:09:08
Al3082	308.215	Multiple	Standards	260.645	-339.765	07/21/97	01:09:08
As1890	189.042	Multiple	Standards	18.6721	-4.34487	07/21/97	01:09:08
Ba4934	493.409	Multiple	Standards	25.9066	.026896	07/21/97	01:09:08
Be3130	313.042	Multiple	Standards	8.43495	1.81360	07/21/97	01:09:08
Cd2265	226.502	Multiple	Standards	2.86981	-.235463	07/21/97	01:09:08
Ca3179	317.933	Multiple	Standards	361.221	-7.50430	07/21/97	01:09:08
Cr2677	267.716	Multiple	Standards	17.4652	.145229	07/21/97	01:09:08
Co2286	228.616	Multiple	Standards	4.12072	.573522	07/21/97	01:09:08
Cu3247	324.754	Multiple	Standards	34.1226	-15.0989	07/21/97	01:09:08
Fe2714	271.441	Multiple	Standards	620.792	-8.38466	07/21/97	01:09:08
Mg2790	279.078	Multiple	Standards	171.381	-.890811	07/21/97	01:09:08
Mn2576	257.610	Multiple	Standards	19.3460	-.261257	07/21/97	01:09:08
Ni2316	231.604	Multiple	Standards	5.98461	1.09415	07/21/97	01:09:08
K 7664	766.491	Multiple	Standards	288.243	-7513.93	07/21/97	01:09:08
Ag3280	328.068	Multiple	Standards	21.3732	.709947	07/21/97	01:09:08
Na3302	330.232	Multiple	Standards	4000.97	286.809	07/21/97	01:09:08
V 2924	292.402	Multiple	Standards	88.1131	.091736	07/21/97	01:09:08
Zn2138	213.856	Multiple	Standards	6.26581	-.091164	07/21/97	01:09:08
Pb2203	220.353	NONE	NONE	1.00000	.000000		*NOT STANDARDIZED
Se1960	196.026	NONE	NONE	1.00000	.000000		*NOT STANDARDIZED
Sb2068	206.838	NONE	NONE	1.00000	.000000		*NOT STANDARDIZED
Mo2020	202.030	Multiple	Standards	83.7616	-1.13148	07/21/97	01:09:08
Tl1908	190.864	Multiple	Standards	26.0711	12.9715	07/21/97	01:09:08
Sn1899	189.989	Multiple	Standards	31.9227	-1.22540	07/21/97	01:09:08
B 2496	249.678	Multiple	Standards	22.8664	-1.32998	07/21/97	01:09:08
Si2881	288.158	Multiple	Standards	49.7585	-129.571	07/21/97	01:09:08

Method: CLP

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	STD8	1000.00	1000.00	.000000
CorCoef: 1.00000					

000152

Instrument Log

ICP4-1MU₄

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

07/21/97 12:52

Time	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:00	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:01	2203/2	220.352	SO	.000000	.000000	-.000000
21-JUL-97 13:16:01			STD8	1000.00	1000.00	.000000
21-JUL-97 13:16:02	CorCoef:	1.00000				
21-JUL-97 13:16:02	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:03	1960/1	196.021	SO	.000000	.000000	-.000000
21-JUL-97 13:16:03			STD8	500.000	500.000	.000000
21-JUL-97 13:16:03	CorCoef:	1.00000				
21-JUL-97 13:16:03	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:04	1960/2	196.022	SO	.000000	-.000000	.000000
21-JUL-97 13:16:04			STD8	500.000	500.000	.000000
21-JUL-97 13:16:05	CorCoef:	1.00000				
21-JUL-97 13:16:05	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:06	2068/1	206.831	SO	.000000	-.000000	.000000
21-JUL-97 13:16:06			STD8	500.000	500.000	.000000
21-JUL-97 13:16:06	CorCoef:	1.00000				
21-JUL-97 13:16:06	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:07	2068/2	206.832	SO	.000000	-.000000	.000000
21-JUL-97 13:16:07			STD8	500.000	500.000	.000031
21-JUL-97 13:16:07	CorCoef:	1.00000				
21-JUL-97 13:16:08	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:08	Al3082	308.215	SO	.000000	-.000017	.000017
21-JUL-97 13:16:09			STD7	50000.0	50000.0	.000000
21-JUL-97 13:16:09	CorCoef:	1.00000				
21-JUL-97 13:16:10	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:10	As1890	189.042	SO	.000000	-.000000	.000000
21-JUL-97 13:16:10			STD8	500.000	500.000	.000031
21-JUL-97 13:16:10	CorCoef:	1.00000				
21-JUL-97 13:16:11	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:11	Ba4934	493.409	SO	.000000	.000000	-.000000
21-JUL-97 13:16:12			STD4	1000.00	1000.000	.000061
21-JUL-97 13:16:12	CorCoef:	1.00000				
21-JUL-97 13:16:12	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:13	Be3130	313.042	SO	.000000	.000000	-.000000
21-JUL-97 13:16:13			STD4	500.000	500.956	-.955994
21-JUL-97 13:16:13	CorCoef:	1.00000				
21-JUL-97 13:16:14	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:14	Cd2265	226.502	SO	.000000	-.000000	.000000
21-JUL-97 13:16:15			STD4	500.000	499.959	.040985
21-JUL-97 13:16:15	CorCoef:	1.00000				
21-JUL-97 13:16:15	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:16	Ca3179	317.933	SO	.000000	.000000	-.000000
21-JUL-97 13:16:16			STD7	50000.0	49988.2	11.8008
21-JUL-97 13:16:16	CorCoef:	1.00000				
21-JUL-97 13:16:16	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:17	Cr2677	267.716	SO	.000000	-.000000	.000000
21-JUL-97 13:16:17			STD4	1000.00	1000.03	-.029053
21-JUL-97 13:16:18	CorCoef:	1.00000				
21-JUL-97 13:16:18	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:18	Co2286	228.616	SO	.000000	.000000	-.000000
21-JUL-97 13:16:19			STD4	1000.00	1000.00	.000000
21-JUL-97 13:16:19	CorCoef:	1.00000				
21-JUL-97 13:16:19	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:20	Cu3247	324.754	SO	.000000	-.000001	.000001
21-JUL-97 13:16:20			STD4	1000.00	1000.000	.000061
21-JUL-97 13:16:21	CorCoef:	1.00000				
21-JUL-97 13:16:21	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:22	Fe2714	271.441	SO	.000000	.000000	-.000000
21-JUL-97 13:16:22			STD7	50000.0	50000.0	.000000
21-JUL-97 13:16:22	CorCoef:	1.00000				
21-JUL-97 13:16:22	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:23	Mg2790	279.078	SO	.000000	-.000000	.000000
21-JUL-97 13:16:23			STD7	50000.0	50000.0	.000000
21-JUL-97 13:16:23	CorCoef:	1.00000				
21-JUL-97 13:16:24	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97 13:16:24	Mn2576	257.610	SO	.000000	.000000	-.000000
21-JUL-97 13:16:25			STD4	1000.00	1000.00	.000000

000153

Instrument Log

ICP4--1MU₅
07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

Date	Time	CorCoef	Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:25	1.00000						
21-JUL-97	13:16:25					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:26		Ni2316	231.604	S0	.000000	.000000	-.000000
21-JUL-97	13:16:26				STD4	1000.00	998.380	1.62000
21-JUL-97	13:16:26	1.00000						
21-JUL-97	13:16:27					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:27		K_7664	766.491	S0	.000000	.000421	-.000421
21-JUL-97	13:16:28				STD7	50000.0	50000.0	.000000
21-JUL-97	13:16:28	1.00000						
21-JUL-97	13:16:28					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:29		Ag3280	328.068	S0	.000000	.000000	-.000000
21-JUL-97	13:16:29				STD4	500.000	499.970	.029999
21-JUL-97	13:16:29	1.00000						
21-JUL-97	13:16:30					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:30		Na3302	330.232	S0	.000000	.000006	-.000006
21-JUL-97	13:16:30				STD7	50000.0	50000.0	.000000
21-JUL-97	13:16:31	1.00000						
21-JUL-97	13:16:31					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:31		V_2924	292.402	S0	.000000	-.000000	.000000
21-JUL-97	13:16:32				STD4	1000.00	1000.00	.000000
21-JUL-97	13:16:32	1.00000						
21-JUL-97	13:16:33					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:33		Zn2138	213.856	S0	.000000	-.000000	.000000
21-JUL-97	13:16:33				STD4	1000.00	1000.00	.000000
21-JUL-97	13:16:34	1.00000						
21-JUL-97	13:16:34					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:34		Pb2203	220.353	NONE	.000000	.000000	.000000
21-JUL-97	13:16:35				NONE	.000000	.000000	.000000
21-JUL-97	13:16:35					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:35		Se1960	196.026	NONE	.000000	.000000	.000000
21-JUL-97	13:16:36				NONE	.000000	.000000	.000000
21-JUL-97	13:16:36					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:37		Sb2068	206.838	NONE	.000000	.000000	.000000
21-JUL-97	13:16:37				NONE	.000000	.000000	.000000
21-JUL-97	13:16:38					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:38		Mo2020	202.030	S0	.000000	.000000	-.000000
21-JUL-97	13:16:39				STD4	1000.00	1000.00	-.000061
21-JUL-97	13:16:39	1.00000						
21-JUL-97	13:16:40					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:40		Tl1908	190.864	S0	.000000	-.000000	.000000
21-JUL-97	13:16:41				STD8	500.000	500.000	.000000
21-JUL-97	13:16:41	1.00000						
21-JUL-97	13:16:41					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:41		Sn1899	189.989	S0	.000000	.000000	-.000000
21-JUL-97	13:16:42				STD8	1000.00	1000.00	.000000
21-JUL-97	13:16:42	1.00000						
21-JUL-97	13:16:42					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:43		B_2496	249.678	S0	.000000	.000000	-.000000
21-JUL-97	13:16:43				STD4	1000.00	1000.00	.000000
21-JUL-97	13:16:43	1.00000						
21-JUL-97	13:16:44					Known Concentration	Measured Concentration	Residual Concentration
21-JUL-97	13:16:44		Si2881	288.158	S0	.000000	.000005	-.000005
21-JUL-97	13:16:45				STD4	5000.00	5000.00	.000000
21-JUL-97	13:16:45	1.00000						

21-JUL-97	13:21:17		Method: CLP	Sample Name: ICVTR			Operator: JJO	
21-JUL-97	13:21:17		Run Time: 07/21/97	13:14:44				
21-JUL-97	13:21:17		Comment:					
21-JUL-97	13:21:17		Mode: CONC	Corr. Factor: 1				
21-JUL-97	13:21:17							
21-JUL-97	13:21:18		Elem	2203/1	2203/2	1960/1	1960/2	2068/1
21-JUL-97	13:21:18		Units	ppb	ppb	ppb	ppb	ppb
21-JUL-97	13:21:19		Avge	983.0	958.4	246.1	241.1	250.2
21-JUL-97	13:21:19		SDev	.6	11.4	12.6	14.0	2.5
21-JUL-97	13:21:19		%RSD	.0633	1.193	5.104	5.809	.9803
21-JUL-97	13:21:19							2068/2
21-JUL-97	13:21:19							ppb
21-JUL-97	13:21:19							24750.
21-JUL-97	13:21:19							4.
21-JUL-97	13:21:19							.0173

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Instrument Log

ICP4--1MU 6

07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 13:21:20	#1	982.6	950.3	237.3	231.2	248.4	255.1	24750.
21-JUL-97 13:21:20	#2	983.5	966.4	255.0	251.0	251.9	254.5	24750.
21-JUL-97 13:21:20								
21-JUL-97 13:21:20	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97 13:21:21	Value							26000.
21-JUL-97 13:21:21	Range							10.00
21-JUL-97 13:21:21	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 13:21:22	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:21:22	Avg	234.8	495.9	494.5	483.8	24320.	485.5	478.1
21-JUL-97 13:21:22	SDev	4.6	.1	.7	.9	23.	.9	.6
21-JUL-97 13:21:23	%RSD	1.975	.0159	.1443	.1777	.0957	.1900	.1207
21-JUL-97 13:21:23								
21-JUL-97 13:21:23	#1	238.0	496.0	495.0	484.4	24330.	486.2	478.5
21-JUL-97 13:21:24	#2	231.5	495.9	494.0	483.2	24300.	484.9	477.7
21-JUL-97 13:21:24								
21-JUL-97 13:21:24	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:21:24	Value	500.0	500.0	500.0	500.0	25000.	500.0	500.0
21-JUL-97 13:21:24	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 13:21:25								
21-JUL-97 13:21:25	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 13:21:25	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:21:26	Avg	502.7	24980.	24200.	480.7	487.0	Q21660.	465.0
21-JUL-97 13:21:26	SDev	.1	19.	16.	.5	1.2	29.	.7
21-JUL-97 13:21:26	%RSD	.0222	.0780	.0648	.1111	.2384	.1333	.1433
21-JUL-97 13:21:26								
21-JUL-97 13:21:27	#1	502.6	25000.	24210.	481.1	486.1	Q21680.	465.5
21-JUL-97 13:21:27	#2	502.8	24970.	24190.	480.3	487.8	Q21640.	464.5
21-JUL-97 13:21:27								
21-JUL-97 13:21:28	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
21-JUL-97 13:21:28	Value	500.0	25500.	25000.	500.0	500.0	25000.	500.0
21-JUL-97 13:21:28	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 13:21:28								
21-JUL-97 13:21:29	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 13:21:29	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 13:21:29	Avg	Q21520.	499.6	489.2	966.6	242.8	253.3	512.8
21-JUL-97 13:21:30	SDev	28.	1.8	.5	7.8	13.5	.5	1.2
21-JUL-97 13:21:30	%RSD	.1279	.3578	.1034	.8095	5.570	.2156	.2324
21-JUL-97 13:21:30								
21-JUL-97 13:21:30	#1	Q21500.	500.9	489.5	961.1	233.2	252.9	512.0
21-JUL-97 13:21:31	#2	Q21540.	498.3	488.8	972.1	252.3	253.7	513.7
21-JUL-97 13:21:31								
21-JUL-97 13:21:31	Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:21:31	Value	25000.	500.0	500.0	1000.	250.0	250.0	500.0
21-JUL-97 13:21:32	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 13:21:32								
21-JUL-97 13:21:32	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 13:21:32	Units	PPB	PPB	PPB	PPB			
21-JUL-97 13:21:33	Avg	230.1	229.2	530.5	2358.			
21-JUL-97 13:21:33	SDev	2.8	4.9	2.0	5.			
21-JUL-97 13:21:33	%RSD	1.233	2.155	.3739	.2088			
21-JUL-97 13:21:33								
21-JUL-97 13:21:33	#1	232.1	232.7	529.1	2361.			
21-JUL-97 13:21:33	#2	228.1	225.7	531.9	2354.			
21-JUL-97 13:21:33								
21-JUL-97 13:21:34	Errors	QC Pass	QC Pass	NOCHECK	QC Pass			
21-JUL-97 13:21:34	Value	250.0	250.0		2500.			
21-JUL-97 13:21:34	Range	10.00	10.00		10.00			
21-JUL-97 13:26:08								
21-JUL-97 13:26:08	Method:	CLP	Sample Name:	ICB	Operator:	FLD		
21-JUL-97 13:26:08	Run Time:	07/21/97	13:19:35					
21-JUL-97 13:26:09	Comment:							
21-JUL-97 13:26:09	Mode:	CONC	Corr. Factor:	1				
21-JUL-97 13:26:09								
21-JUL-97 13:26:09	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 13:26:10	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:26:10	Avg	4.954	-1.566	5.671	-1.689	1.779	2.426	-9.101
21-JUL-97 13:26:10	SDev	2.097	1.023	1.039	1.209	3.617	3.481	2.169
21-JUL-97 13:26:11	%RSD	42.34	65.32	18.33	71.57	203.3	143.5	23.83
21-JUL-97 13:26:11								
21-JUL-97 13:26:11	#1	3.471	-2.289	6.406	-.8344	4.337	-.0351	-7.568
21-JUL-97 13:26:11	#2	6.436	-.8425	4.936	-2.544	-.7786	4.887	-10.64
21-JUL-97 13:26:11								
21-JUL-97 13:26:12	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97 13:26:12	Value							.0000
21-JUL-97 13:26:13	Range							200.0
21-JUL-97 13:26:13								
21-JUL-97 13:26:13	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 13:26:13	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:26:14	Avg	1.917	.1343	.1094	-.1754	-.0293	-.0535	.2235
21-JUL-97 13:26:14	SDev	3.437	.0002	.0397	.2205	1.0505	.1788	.1321
21-JUL-97 13:26:14	%RSD	179.3	.1759	36.29	125.7	3584.	334.2	59.13
21-JUL-97 13:26:14								
21-JUL-97 13:26:15	#1	4.347	.1342	.1375	-.0195	.7135	-.1799	.1300

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Instrument Log

ICP4--1MU 7

07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 13:26:15	#2	-.5135	.1345	.0814	-.3313	-.7722	.0729	.3169
21-JUL-97 13:26:15	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:26:15	Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
21-JUL-97 13:26:16	Range	10.00	200.0	5.000	5.000	5000.	10.00	50.00
21-JUL-97 13:26:16	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664	Ag3280
21-JUL-97 13:26:17	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:26:17	Avg	-1.6107	-27.06	6.382	-.1613	-.5733	3.590	.5320
21-JUL-97 13:26:18	SDev	1.5770	15.50	5.762	.1414	.5859	5.651	1.252
21-JUL-97 13:26:18	%RSD	258.2	57.27	90.29	87.67	102.2	157.4	235.4
21-JUL-97 13:26:18	#1	.5045	-16.10	10.46	-.0613	-.9876	-.4053	1.418
21-JUL-97 13:26:19	#2	-1.726	-38.02	2.308	-.2613	-.1591	7.586	-.3536
21-JUL-97 13:26:19	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:26:19	Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
21-JUL-97 13:26:19	Range	25.00	100.0	5000.	15.00	40.00	5000.	10.00
21-JUL-97 13:26:20	Elem	Na3302	V_2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 13:26:20	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 13:26:21	Avg	174.9	.8226	.2593	.6177	.7744	2.221	-1.651
21-JUL-97 13:26:21	SDev	76.4	.2596	.0372	1.381	1.152	1.117	.735
21-JUL-97 13:26:21	%RSD	43.66	31.56	14.37	223.5	148.8	50.30	44.53
21-JUL-97 13:26:22	#1	228.9	.6391	.2330	-.3584	1.589	1.431	-2.171
21-JUL-97 13:26:22	#2	120.9	1.006	.2856	1.594	-.0404	3.011	-1.131
21-JUL-97 13:26:23	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:26:23	Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
21-JUL-97 13:26:23	Range	5000.	50.00	20.00	3.000	5.000	60.00	100.0
21-JUL-97 13:26:24	Elem	Tl1908	Sn1899	B_2496	Si2881			
21-JUL-97 13:26:24	Units	PPB	PPB	PPB	PPB			
21-JUL-97 13:26:24	Avg	-4.693	.8906	1.251	-2.359			
21-JUL-97 13:26:24	SDev	2.779	.0968	.364	.888			
21-JUL-97 13:26:24	%RSD	59.22	10.87	29.13	37.65			
21-JUL-97 13:26:25	#1	-2.728	.8222	1.509	-2.987			
21-JUL-97 13:26:25	#2	-6.658	.9590	.9934	-1.731			
21-JUL-97 13:26:25	Errors	QC Pass	QC Pass	QC Pass	QC Pass			
21-JUL-97 13:26:25	Value	.0000	.0000	.0000	.0000			
21-JUL-97 13:26:26	Range	10.00	100.0	100.0	100.0			

21-JUL-97 13:31:00	Method: CLP	Sample Name: ICSA	Operator: FLD					
21-JUL-97 13:31:00	Run Time: 07/21/97	13:24:26						
21-JUL-97 13:31:01	Comment:							
21-JUL-97 13:31:01	Mode: CONC	Corr. Factor: 1						
21-JUL-97 13:31:01	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 13:31:01	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:31:02	Avg	56.58	-23.45	-7.730	6.972	5.816	-1.760	441700.
21-JUL-97 13:31:02	SDev	.15	.08	.053	.559	.465	1.434	3098.
21-JUL-97 13:31:03	%RSD	.2667	.3404	.6914	8.015	7.993	81.44	.7013
21-JUL-97 13:31:03	#1	56.48	-23.39	-7.692	7.367	5.487	-.7466	439500.
21-JUL-97 13:31:03	#2	56.69	-23.51	-7.767	6.577	6.145	-2.774	443900.
21-JUL-97 13:31:04	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97 13:31:04	Value							500000.
21-JUL-97 13:31:04	Range							20.00
21-JUL-97 13:31:05	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 13:31:05	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:31:05	Avg	-1.477	3.605	.2072	-3.749	435100.	3.778	1.713
21-JUL-97 13:31:06	SDev	1.541	.032	.0019	.146	3032.	.211	.344
21-JUL-97 13:31:06	%RSD	104.4	.8878	.9040	3.899	.6969	5.576	20.05
21-JUL-97 13:31:07	#1	-.3870	3.628	.2086	-3.646	432900.	3.629	1.956
21-JUL-97 13:31:07	#2	-2.567	3.583	.2059	-3.853	437200.	3.927	1.470
21-JUL-97 13:31:08	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK
21-JUL-97 13:31:08	Value					500000.		
21-JUL-97 13:31:08	Range					20.00		
21-JUL-97 13:31:09	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664	Ag3280
21-JUL-97 13:31:09	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:31:09	Avg	.7683	164500.	447200.	-1.138	1.376	-1164.	1.086
21-JUL-97 13:31:09	SDev	.2002	.950.	.2524.	.038	.548	3.	.252
21-JUL-97 13:31:10	%RSD	26.06	.5776	.5644	3.316	39.87	.2514	23.22
21-JUL-97 13:31:10	#1	.9099	163800.	445400.	-1.112	.9880	-1162.	.9073

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Instrument Log

ICP4--1MU₈
07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 13:31:10	#2	.6267	165200.	448900.	-1.165	1.764	-1166.	1.264
21-JUL-97 13:31:10	Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
21-JUL-97 13:31:11	Value		200000.	500000.				
21-JUL-97 13:31:11	Range		20.00	20.00				
21-JUL-97 13:31:12	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 13:31:12	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 13:31:12	Avge	260.8	.0534	19.56	3.231	2.083	-.7719	.8817
21-JUL-97 13:31:13	SDev	151.7	.7084	.37	.003	.390	.8014	.2161
21-JUL-97 13:31:13	%RSD	58.18	1325.	1.904	.0917	18.74	103.8	24.51
21-JUL-97 13:31:13	#1	368.1	.5543	19.29	3.233	2.359	1.339	1.035
21-JUL-97 13:31:14	#2	153.5	-.4474	19.82	3.229	1.807	.2052	.7289
21-JUL-97 13:31:14	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
21-JUL-97 13:31:14	Value							
21-JUL-97 13:31:15	Range							
21-JUL-97 13:31:15	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 13:31:15	Units	PPB	PPB	PPB	PPB			
21-JUL-97 13:31:16	Avge	1.723	-.2811	238.8	-10.89			
21-JUL-97 13:31:16	SDev	2.042	.0821	2.3	.02			
21-JUL-97 13:31:16	%RSD	118.5	29.21	.9582	.2248			
21-JUL-97 13:31:16	#1	.2798	-.2230	237.2	-10.87			
21-JUL-97 13:31:17	#2	3.167	-.3391	240.5	-10.91			
21-JUL-97 13:31:17	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK			
21-JUL-97 13:31:17	Value							
21-JUL-97 13:31:17	Range							

21-JUL-97 13:35:52	Method:	CLP	Sample Name:	ICSAB4	Operator:	JJO		
21-JUL-97 13:35:53	Run Time:	07/21/97	13:29:18					
21-JUL-97 13:35:53	Comment:							
21-JUL-97 13:35:53	Mode:	CONC	Corr. Factor:	1				
21-JUL-97 13:35:54	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 13:35:54	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:35:54	Avge	95.67	16.93	30.48	39.36	534.3	525.2	442200.
21-JUL-97 13:35:54	SDev	4.25	2.25	5.34	3.31	5.4	10.4	1041.
21-JUL-97 13:35:55	%RSD	4.438	13.30	17.52	8.414	1.018	1.971	.2355
21-JUL-97 13:35:55	#1	98.67	15.34	26.71	37.01	530.4	532.5	442900.
21-JUL-97 13:35:56	#2	92.67	18.53	34.26	41.70	538.1	517.9	441400.
21-JUL-97 13:35:56	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97 13:35:56	Value							482400.
21-JUL-97 13:35:57	Range							20.00
21-JUL-97 13:35:57	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 13:35:57	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:35:58	Avge	q76.23	428.4	398.6	764.5	436200.	396.5	370.2
21-JUL-97 13:35:58	SDev	2.87	1.6	1.1	2.3	1128.	1.1	1.0
21-JUL-97 13:35:58	%RSD	3.760	.3790	.2790	.2962	.2585	.2788	.2679
21-JUL-97 13:35:58	#1	q78.26	429.6	399.4	766.1	437000.	397.2	370.9
21-JUL-97 13:35:59	#2	q74.20	427.3	397.8	762.9	435400.	395.7	369.5
21-JUL-97 13:35:59	Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:36:00	Value	101.0	500.0	480.0	938.0	491300.	478.0	451.0
21-JUL-97 13:36:00	Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00
21-JUL-97 13:36:01	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 13:36:01	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:36:01	Avge	459.0	165700.	443500.	389.6	771.9	-1148.	172.4
21-JUL-97 13:36:02	SDev	2.0	505.	931.	1.3	2.0	8.	.9
21-JUL-97 13:36:02	%RSD	.4347	.3049	.2100	.3231	.2646	.7205	.5499
21-JUL-97 13:36:02	#1	460.4	166000.	444200.	390.5	773.3	-1142.	173.1
21-JUL-97 13:36:03	#2	457.6	165300.	442800.	388.7	770.4	-1154.	171.8
21-JUL-97 13:36:03	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
21-JUL-97 13:36:03	Value	521.0	187100.	500500.	477.0	938.0		200.0
21-JUL-97 13:36:04	Range	20.00	20.00	20.00	20.00	20.00		20.00
21-JUL-97 13:36:04	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 13:36:04	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 13:36:05	Avge	407.9	407.0	826.5	43.18	q36.41	528.2	806.0
21-JUL-97 13:36:05	SDev	272.7	.6	1.7	.09	3.99	5.1	.4
21-JUL-97 13:36:06	%RSD	133.1	.1459	.2016	.2054	10.95	.9642	.0456
21-JUL-97 13:36:06	#1	12.03	406.6	827.6	43.12	q33.59	531.8	805.8
21-JUL-97 13:36:06	#2	397.7	407.5	825.3	43.24	39.23	524.6	806.3

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Instrument Log

ICP4--1MU₉

07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 13:36:06							
21-JUL-97 13:36:07	Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
21-JUL-97 13:36:07	Value		483.0	989.0	51.00	46.00	620.0
21-JUL-97 13:36:07	Range		20.00	20.00	20.00	20.00	20.00
21-JUL-97 13:36:07							
21-JUL-97 13:36:08	Elem	Tl1908	Sn1899	B 2496	Si2881		
21-JUL-97 13:36:08	Units	PPB	PPB	PPB	PPB		
21-JUL-97 13:36:08	Avge	83.20	1192.	1503.	845.0		
21-JUL-97 13:36:08	SDev	3.89	12.	3.	1.7		
21-JUL-97 13:36:08	%RSD	4.671	1.031	.2160	.2046		
21-JUL-97 13:36:08							
21-JUL-97 13:36:09	#1	80.45	1200.	1501.	846.2		
21-JUL-97 13:36:09	#2	85.95	1183.	1505.	843.8		
21-JUL-97 13:36:09							
21-JUL-97 13:36:09	Errors	QC Pass	QC Pass	QC Pass	QC Pass		
21-JUL-97 13:36:09	Value	99.00	1453.	1757.	1014.		
21-JUL-97 13:36:10	Range	20.00	20.00	20.00	20.00		

21-JUL-97 13:40:43							
21-JUL-97 13:40:43	Method:	CLP	Sample Name:	CRI	Operator:	JEW	
21-JUL-97 13:40:43	Run Time:	07/21/97	13:34:10				
21-JUL-97 13:40:44	Comment:						
21-JUL-97 13:40:44	Mode:	CONC	Corr. Factor:	1			
21-JUL-97 13:40:44							
21-JUL-97 13:40:44	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2
21-JUL-97 13:40:45	Units	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:40:45	Avge	9.965	5.220	14.17	8.897	123.0	122.2
21-JUL-97 13:40:45	SDev	1.770	1.670	3.51	1.808	5.1	6.2
21-JUL-97 13:40:46	%RSD	17.77	32.00	24.77	20.31	4.115	5.078
21-JUL-97 13:40:46							
21-JUL-97 13:40:46	#1	8.713	6.401	16.65	10.18	126.5	117.8
21-JUL-97 13:40:46	#2	11.22	4.039	11.69	7.619	119.4	126.5
21-JUL-97 13:40:46							
21-JUL-97 13:40:47	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
21-JUL-97 13:40:47	Value						
21-JUL-97 13:40:47							
21-JUL-97 13:40:48	Range						
21-JUL-97 13:40:48							
21-JUL-97 13:40:48	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677
21-JUL-97 13:40:48	Units	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:40:49	Avge	16.77	380.4	9.648	9.656	10220.	25.76
21-JUL-97 13:40:49	SDev	.71	.4	.015	.106	12.	.57
21-JUL-97 13:40:49	%RSD	4.225	.1050	.1588	1.101	.1172	2.218
21-JUL-97 13:40:49							
21-JUL-97 13:40:50	#1	16.27	380.2	9.637	9.731	10230.	26.17
21-JUL-97 13:40:50	#2	17.28	380.7	9.659	9.581	10210.	25.36
21-JUL-97 13:40:50							
21-JUL-97 13:40:50	Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass
21-JUL-97 13:40:51	Value	20.00		10.00	10.00		20.00
21-JUL-97 13:40:51	Range	50.00		50.00	50.00		50.00
21-JUL-97 13:40:51							
21-JUL-97 13:40:52	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664
21-JUL-97 13:40:52	Units	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:40:52	Avge	47.84	242.0	9968.	29.00	79.06	7537.
21-JUL-97 13:40:53	SDev	.52	15.2	13.	.05	.77	17.
21-JUL-97 13:40:53	%RSD	1.086	6.287	.1279	.1552	.9713	.2263
21-JUL-97 13:40:53							
21-JUL-97 13:40:53	#1	48.21	252.7	9977.	29.03	79.60	7549.
21-JUL-97 13:40:54	#2	47.47	231.2	9959.	28.97	78.52	7525.
21-JUL-97 13:40:54							
21-JUL-97 13:40:54	Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
21-JUL-97 13:40:54	Value	50.00			30.00	80.00	
21-JUL-97 13:40:54	Range	50.00			50.00	50.00	
21-JUL-97 13:40:55							
21-JUL-97 13:40:55	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068
21-JUL-97 13:40:55	Units	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:40:56	Avge	8064.	98.05	39.39	6.812	10.67	122.4
21-JUL-97 13:40:56	SDev	280.	.47	.07	.525	2.38	2.5
21-JUL-97 13:40:56	%RSD	3.477	.4830	.1741	7.701	22.28	2.003
21-JUL-97 13:40:56							
21-JUL-97 13:40:57	#1	7865.	98.39	39.34	7.183	12.35	120.7
21-JUL-97 13:40:57	#2	8262.	97.72	39.44	6.441	8.985	124.2
21-JUL-97 13:40:57							
21-JUL-97 13:40:58	Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
21-JUL-97 13:40:58	Value		100.0	40.00	6.000	10.00	120.0
21-JUL-97 13:40:58	Range		50.00	50.00	50.00	50.00	50.00
21-JUL-97 13:40:58							
21-JUL-97 13:40:59	Elem	Tl1908	Sn1899	B 2496	Si2881		
21-JUL-97 13:40:59	Units	PPB	PPB	PPB	PPB		
21-JUL-97 13:40:59	Avge	18.01	18.48	192.3	192.2		
21-JUL-97 13:40:59	SDev	3.54	1.19	.2	1.5		
21-JUL-97 13:40:59	%RSD	19.66	6.453	.1223	.7716		
21-JUL-97 13:40:59							
21-JUL-97 13:41:00	#1	15.51	19.32	192.2	191.1		
21-JUL-97 13:41:00	#2	20.51	17.64	192.5	193.2		
21-JUL-97 13:41:00							

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Instrument Log

ICP4--1MU¹⁰
07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 13:41:00	Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK			
21-JUL-97 13:41:00	Value	20.00						
21-JUL-97 13:41:01	Range	50.00						

21-JUL-97 13:45:37	Method: CLP	Sample Name: CCVTR	Operator: JEW					
21-JUL-97 13:45:37	Run Time: 07/21/97	13:39:02						
21-JUL-97 13:45:37	Comment:							
21-JUL-97 13:45:37	Mode: CONC	Corr. Factor: 1						
21-JUL-97 13:45:37	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 13:45:38	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:45:39	Avg	375.8	366.2	90.66	89.88	299.8	298.4	29190.
21-JUL-97 13:45:39	SDev	4.5	1.1	4.96	1.58	3.7	2.5	47.
21-JUL-97 13:45:39	%RSD	1.187	.3034	5.473	1.763	1.223	.8428	.1603
21-JUL-97 13:45:39	#1	372.6	365.4	87.15	88.76	297.2	300.2	29220.
21-JUL-97 13:45:40	#2	378.9	367.0	94.17	91.00	302.4	296.6	29150.
21-JUL-97 13:45:40	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97 13:45:40	Value							30200.
21-JUL-97 13:45:41	Range							10.00
21-JUL-97 13:45:41	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 13:45:41	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:45:42	Avg	94.57	192.9	93.76	91.03	29690.	186.7	184.9
21-JUL-97 13:45:42	SDev	2.98	.6	.16	.18	66.	.3	.3
21-JUL-97 13:45:43	%RSD	3.148	.2892	.1724	.1926	.2233	.1590	.1449
21-JUL-97 13:45:43	#1	96.67	193.3	93.87	90.91	29740.	187.0	185.1
21-JUL-97 13:45:44	#2	92.46	192.5	93.64	91.15	29650.	186.5	184.7
21-JUL-97 13:45:44	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:45:44	Value	100.0	200.0	100.0	100.0	30200.	200.0	200.0
21-JUL-97 13:45:44	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 13:45:45	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 13:45:45	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:45:46	Avg	193.4	29750.	29610.	185.8	183.9	q27150.	96.74
21-JUL-97 13:45:46	SDev	1.1	17.	42.	.2	.5	50.	.67
21-JUL-97 13:45:46	%RSD	.5601	.0574	.1418	.1268	.2809	.1859	.6883
21-JUL-97 13:45:46	#1	194.1	29760.	29640.	186.0	184.2	27180.	97.21
21-JUL-97 13:45:47	#2	192.6	29730.	29580.	185.7	183.5	q27110.	96.27
21-JUL-97 13:45:47	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
21-JUL-97 13:45:48	Value	200.0	30200.	30200.	200.0	200.0	30200.	100.0
21-JUL-97 13:45:48	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 13:45:48	Elem	Na3302	V_2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 13:45:49	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 13:45:49	Avg	27330.	190.7	191.8	369.4	90.14	298.9	187.2
21-JUL-97 13:45:50	SDev	64.	.8	.5	2.2	2.71	.5	.6
21-JUL-97 13:45:50	%RSD	.2338	.4305	.2378	.6027	3.006	.1525	.2938
21-JUL-97 13:45:50	#1	27380.	191.3	192.2	367.8	q88.23	299.2	186.8
21-JUL-97 13:45:51	#2	27290.	190.1	191.5	371.0	92.06	298.6	187.6
21-JUL-97 13:45:51	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:45:52	Value	30200.	200.0	200.0	400.0	100.0	300.0	200.0
21-JUL-97 13:45:52	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 13:45:52	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 13:45:52	Units	PPB	PPB	PPB	PPB			
21-JUL-97 13:45:53	Avg	90.53	185.6	700.5	1012.			
21-JUL-97 13:45:53	SDev	.39	4.0	2.9	3.			
21-JUL-97 13:45:53	%RSD	.4326	2.171	.4154	.2472			
21-JUL-97 13:45:53	#1	90.25	182.7	698.4	1010.			
21-JUL-97 13:45:53	#2	90.81	188.4	702.5	1014.			
21-JUL-97 13:45:54	Errors	QC Pass	QC Pass	QC Pass	QC Pass			
21-JUL-97 13:45:54	Value	100.0	200.0	700.0	1000.			
21-JUL-97 13:45:54	Range	10.00	10.00	10.00	10.00			

21-JUL-97 13:50:30	Method: CLP	Sample Name: CCB	Operator: JEW					
21-JUL-97 13:50:30	Run Time: 07/21/97	13:43:56						
21-JUL-97 13:50:30	Comment:							
21-JUL-97 13:50:31	Mode: CONC	Corr. Factor: 1						
21-JUL-97 13:50:31	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 13:50:31	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:50:31	Avg	6.050	-3.661	4.441	-1.180	-1.909	4.856	-9.828
21-JUL-97 13:50:31	SDev	5.789	1.481	.841	1.108	2.363	1.214	12.511

00015:

Instrument Log

ICP4--1MU₁₁

07/21/97 12:52

Watch file name: \$DISK3:[NEW]ICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 13:50:32	%RSD	95.69	40.45	18.94	93.84	123.7	25.00	127.3
21-JUL-97 13:50:32								
21-JUL-97 13:50:33	#1	1.957	-2.614	3.846	-1.964	-.2388	5.714	-.9818
21-JUL-97 13:50:33	#2	10.14	-4.708	5.036	-3.972	-3.580	3.997	-18.67
21-JUL-97 13:50:33	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97 13:50:34	Value							.0000
21-JUL-97 13:50:34	Range							200.0
21-JUL-97 13:50:34	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 13:50:35	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:50:35	Avg	-.1371	.0808	.0124	-.3045	2.231	-.0166	.0837
21-JUL-97 13:50:35	SDev	5.2369	.0761	.0077	.2663	1.106	.4858	.7169
21-JUL-97 13:50:36	%RSD	3821.	94.15	62.46	87.44	49.56	2920.	856.2
21-JUL-97 13:50:36								
21-JUL-97 13:50:36	#1	-3.840	.1346	.0069	-.1162	3.014	.3268	.5907
21-JUL-97 13:50:37	#2	3.566	.0270	.0178	-.4928	1.449	-.3601	-.4232
21-JUL-97 13:50:37	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:50:37	Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
21-JUL-97 13:50:38	Range	10.00	200.0	5.000	5.000	5000.	10.00	50.00
21-JUL-97 13:50:38	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664	Ag3280
21-JUL-97 13:50:38	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:50:39	Avg	-.6997	-12.86	5.512	-.2411	-.3665	-5.487	-.4620
21-JUL-97 13:50:39	SDev	1.1128	19.03	3.043	.0851	1.0158	22.331	1.0917
21-JUL-97 13:50:39	%RSD	159.0	148.1	55.21	35.30	277.2	407.0	236.3
21-JUL-97 13:50:39								
21-JUL-97 13:50:40	#1	.0872	.6032	7.663	-.1809	-1.085	10.30	.3099
21-JUL-97 13:50:40	#2	-1.487	-26.31	3.360	-.3013	.3519	-21.28	-1.234
21-JUL-97 13:50:40								
21-JUL-97 13:50:40	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:50:41	Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
21-JUL-97 13:50:41	Range	25.00	100.0	5000.	15.00	40.00	5000.	10.00
21-JUL-97 13:50:41								
21-JUL-97 13:50:42	Elem	Na3302	V_2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 13:50:42	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 13:50:42	Avg	-28.82	.0004	.0517	-.4149	.7036	2.613	.0831
21-JUL-97 13:50:43	SDev	189.06	.1300	.0006	.9400	1.019	1.597	.4859
21-JUL-97 13:50:43	%RSD	656.1	30780.	1.195	226.6	144.8	61.09	584.7
21-JUL-97 13:50:43								
21-JUL-97 13:50:43	#1	-162.5	-.0915	.0522	-1.080	-.0167	3.742	-.2605
21-JUL-97 13:50:44	#2	104.9	.0924	.0513	.2498	1.424	1.484	.4267
21-JUL-97 13:50:44								
21-JUL-97 13:50:44	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 13:50:44	Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
21-JUL-97 13:50:45	Range	5000.	50.00	20.00	3.000	5.000	60.00	100.0
21-JUL-97 13:50:45								
21-JUL-97 13:50:45	Elem	Tl1908	Sn1899	B_2496	Si2881			
21-JUL-97 13:50:45	Units	PPB	PPB	PPB	PPB			
21-JUL-97 13:50:46	Avg	-9.437	1.123	2.086	-5.512			
21-JUL-97 13:50:46	SDev	.289	.505	1.087	1.850			
21-JUL-97 13:50:46	%RSD	3.063	44.93	52.14	33.55			
21-JUL-97 13:50:46								
21-JUL-97 13:50:46	#1	-9.642	.7662	2.855	-4.204			
21-JUL-97 13:50:46	#2	-9.233	1.480	1.317	-6.820			
21-JUL-97 13:50:46								
21-JUL-97 13:50:47	Errors	QC Pass	QC Pass	QC Pass	QC Pass			
21-JUL-97 13:50:47	Value	.0000	.0000	.0000	.0000			
21-JUL-97 13:50:47	Range	10.00	100.0	100.0	100.0			

21-JUL-97 13:55:21	Method:	CLP	Sample Name:	PB433	Operator:	JJO		
21-JUL-97 13:55:22	Run Time:	07/21/97	13:48:49					
21-JUL-97 13:55:22	Comment:							
21-JUL-97 13:55:22	Mode:	CONC	Corr. Factor:	1				
21-JUL-97 13:55:22								
21-JUL-97 13:55:23	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 13:55:23	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:55:23	Avg	-3.120	-.6992	6.748	3.787	4.853	-.3732	-6.952
21-JUL-97 13:55:24	SDev	9.494	4.4731	4.901	8.765	3.922	6.6431	4.290
21-JUL-97 13:55:24	%RSD	304.3	639.8	72.63	231.5	80.82	1780.	61.70
21-JUL-97 13:55:24								
21-JUL-97 13:55:24	#1	-9.833	2.464	3.282	9.985	7.627	-5.071	-3.919
21-JUL-97 13:55:25	#2	3.593	-3.862	10.21	-2.411	2.080	4.324	-9.986
21-JUL-97 13:55:25								
21-JUL-97 13:55:25	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 13:55:26	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:55:26	Avg	-4.461	.1604	.0041	.1225	-1.917	.3612	.2797
21-JUL-97 13:55:26	SDev	.327	.2644	.0258	.3708	1.579	.5603	1.329
21-JUL-97 13:55:27	%RSD	7.337	164.8	627.1	302.7	82.38	155.1	475.0
21-JUL-97 13:55:27								
21-JUL-97 13:55:27	#1	-4.229	.3473	.0223	.3847	-.8002	.7573	1.219
21-JUL-97 13:55:27	#2	-4.692	-.0265	-.0141	-.1397	-3.033	-.0350	-.6598

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Instrument Log

ICP4--1MU₁₂
07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 13:55:28	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 13:55:28	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 13:55:28	Avg	-4589	.5517	1.758	-.1217	.5768	-25.05	.0042
21-JUL-97 13:55:29	SDev	1.9791	10.75	6.247	.1973	.3696	7.45	.7488
21-JUL-97 13:55:29	%RSD	431.3	1948.	355.3	162.1	64.08	29.72	17720.
21-JUL-97 13:55:29								
21-JUL-97 13:55:30	#1	.9406	8.152	6.176	.0178	.8382	-19.79	.5337
21-JUL-97 13:55:30	#2	-1.858	-7.048	-2.659	-.2612	.3155	-30.32	-.5253
21-JUL-97 13:55:30								
21-JUL-97 13:55:30	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 13:55:31	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 13:55:31	Avg	-266.0	-.0901	.3094	-1.493	4.784	1.378	-.3532
21-JUL-97 13:55:31	SDev	384.7	.2569	.3835	.178	4.209	3.125	1.8333
21-JUL-97 13:55:32	%RSD	144.6	285.0	124.0	11.92	87.99	226.8	519.0
21-JUL-97 13:55:32								
21-JUL-97 13:55:32	#1	-538.0	.0915	.5806	-1.619	7.760	-.8320	-1.650
21-JUL-97 13:55:32	#2	6.039	-.2718	.0382	-1.367	1.807	3.587	.9431
21-JUL-97 13:55:32								
21-JUL-97 13:55:33	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 13:55:33	Units	PPB	PPB	PPB	PPB			
21-JUL-97 13:55:33	Avg	3.314	-.2695	4.024	15.92			
21-JUL-97 13:55:33	SDev	3.465	2.7480	.496	1.55			
21-JUL-97 13:55:33	%RSD	104.6	1020.	12.33	9.750			
21-JUL-97 13:55:34								
21-JUL-97 13:55:34	#1	5.765	-2.213	4.374	17.02			
21-JUL-97 13:55:34	#2	.8639	1.674	3.673	14.83			

Method: CLP Sample Name: LCS-W433 Operator: JJO
Run Time: 07/21/97 13:53:35
Comment:
Mode: CONC Corr. Factor: 1

21-JUL-97 14:00:08	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 14:00:08	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:00:08	Avg	918.9	891.0	489.8	500.5	1902.	1909.	47920.
21-JUL-97 14:00:08	SDev	.4	8.2	4.3	4.0	2.	1.	251.
21-JUL-97 14:00:08	%RSD	.0427	.9206	.8757	.8049	.0942	.0573	.5242
21-JUL-97 14:00:09								
21-JUL-97 14:00:09	#1	919.2	885.2	486.8	503.3	1901.	1908.	47740.
21-JUL-97 14:00:09	#2	918.6	896.8	492.9	497.6	1903.	1910.	48100.
21-JUL-97 14:00:09								
21-JUL-97 14:00:09	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 14:00:09	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:00:09	Avg	968.3	459.8	457.6	464.5	47040.	447.5	437.9
21-JUL-97 14:00:09	SDev	1.4	2.6	1.5	.8	209.	1.4	1.3
21-JUL-97 14:00:09	%RSD	.1490	.5654	.3303	.1710	.4441	.3125	.2950
21-JUL-97 14:00:10								
21-JUL-97 14:00:10	#1	967.3	458.0	456.5	464.0	46900.	446.6	436.9
21-JUL-97 14:00:10	#2	969.3	461.7	458.7	465.1	47190.	448.5	438.8
21-JUL-97 14:00:10								
21-JUL-97 14:00:10	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 14:00:10	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:00:10	Avg	473.0	47250.	46830.	441.4	447.2	46440.	430.9
21-JUL-97 14:00:10	SDev	2.1	226.	190.	1.8	3.6	194.	.8
21-JUL-97 14:00:10	%RSD	.4409	.4788	.4063	.4191	.7977	.4168	.1820
21-JUL-97 14:00:11								
21-JUL-97 14:00:11	#1	471.5	47090.	46700.	440.1	444.7	46310.	430.3
21-JUL-97 14:00:11	#2	474.5	47410.	46970.	442.7	449.7	46580.	431.5
21-JUL-97 14:00:11								
21-JUL-97 14:00:11	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 14:00:11	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 14:00:11	Avg	46060.	457.2	453.8	900.3	496.9	1907.	898.4
21-JUL-97 14:00:11	SDev	252.	1.6	1.8	5.3	1.3	1.	5.7
21-JUL-97 14:00:11	%RSD	.5466	.3455	.4043	.5935	.2527	.0696	.6379
21-JUL-97 14:00:12								
21-JUL-97 14:00:12	#1	46240.	456.1	452.5	896.5	497.8	1906.	894.4
21-JUL-97 14:00:12	#2	45880.	458.3	455.0	904.1	496.0	1908.	902.5
21-JUL-97 14:00:12								
21-JUL-97 14:00:12	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 14:00:12	Units	PPB	PPB	PPB	PPB			
21-JUL-97 14:00:12	Avg	497.5	884.4	532.8	26.34			
21-JUL-97 14:00:12	SDev	11.8	3.5	3.8	.47			
21-JUL-97 14:00:12	%RSD	2.362	.4006	.7201	1.775			
21-JUL-97 14:00:13								
21-JUL-97 14:00:13	#1	505.8	881.9	530.1	26.67			
21-JUL-97 14:00:13	#2	489.2	886.9	535.5	26.01			

Method: CLP Sample Name: 334208 Operator: JJO
Run Time: 07/21/97 13:58:21
Comment:
Mode: CONC Corr. Factor: 1

00016

Instrument Log

ICP4--1MU¹³

07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 14:04:55	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 14:04:55	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:04:56	Avg	.4696	-.1281	5.016	3.027	.5822	2.181	-3.404
21-JUL-97 14:04:56	SDev	2.723	2.3151	2.933	1.058	3.382	4.827	6.634
21-JUL-97 14:04:56	%RSD	579.9	1807.	58.49	34.97	581.0	221.3	194.9
21-JUL-97 14:04:56								
21-JUL-97 14:04:57	#1	-1.456	1.509	2.941	3.776	2.974	-1.232	-8.095
21-JUL-97 14:04:57	#2	2.395	-1.765	7.090	2.279	-1.809	5.594	1.286
21-JUL-97 14:04:57								
21-JUL-97 14:04:57	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 14:04:57	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:04:58	Avg	-5.311	51.52	.1337	-.1140	114300.	.3989	.7439
21-JUL-97 14:04:58	SDev	1.682	.06	.0924	.2089	498.	.2178	.6400
21-JUL-97 14:04:59	%RSD	31.67	.1114	69.06	183.3	.4357	54.60	86.03
21-JUL-97 14:04:59								
21-JUL-97 14:04:59	#1	-6.501	51.48	.0684	.0338	114000.	.5529	.2914
21-JUL-97 14:05:00	#2	-4.122	51.56	.1991	-.2617	114700.	.2449	1.196
21-JUL-97 14:05:00								
21-JUL-97 14:05:00	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664	Ag3280
21-JUL-97 14:05:00	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:05:01	Avg	-1.012	76.78	12890.	25.00	.5596	349.3	.6035
21-JUL-97 14:05:01	SDev	.420	13.79	59.	.07	.3166	6.5	.0296
21-JUL-97 14:05:01	%RSD	41.49	17.96	.4545	.2840	56.58	1.852	4.908
21-JUL-97 14:05:01								
21-JUL-97 14:05:02	#1	-.7153	86.53	12850.	25.05	.3357	344.7	.6244
21-JUL-97 14:05:02	#2	-1.309	67.03	12940.	24.95	.7834	353.9	.5825
21-JUL-97 14:05:02								
21-JUL-97 14:05:02	Elem	Na3302	V_2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 14:05:03	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 14:05:03	Avg	7098.	-.5148	1.850	.0866	3.700	1.658	.0184
21-JUL-97 14:05:03	SDev	.225.	.6110	.138	.6373	.271	2.093	.2318
21-JUL-97 14:05:04	%RSD	3.167	118.7	7.470	736.0	7.318	126.2	1262.
21-JUL-97 14:05:04								
21-JUL-97 14:05:04	#1	6939.	-.9469	1.948	.5373	3.509	.1781	.1823
21-JUL-97 14:05:05	#2	7257.	-.0827	1.753	-.3641	3.892	3.138	-.1456
21-JUL-97 14:05:05								
21-JUL-97 14:05:05	Elem	Tl1908	Sn1899	B_2496	Si2881			
21-JUL-97 14:05:05	Units	PPB	PPB	PPB	PPB			
21-JUL-97 14:05:05	Avg	4.042	.8101	85.13	3784.			
21-JUL-97 14:05:05	SDev	3.406	3.852	.16	17.			
21-JUL-97 14:05:06	%RSD	84.25	475.5	.1913	.4451			
21-JUL-97 14:05:06								
21-JUL-97 14:05:06	#1	6.451	-1.914	85.02	3772.			
21-JUL-97 14:05:06	#2	1.634	3.534	85.25	3796.			

21-JUL-97 14:09:39	Method:	CLP	Sample Name:	334208L	Operator:	FLD		
21-JUL-97 14:09:39	Run Time:	07/21/97	14:03:07					
21-JUL-97 14:09:40	Comment:							
21-JUL-97 14:09:40	Mode:	CONC	Corr. Factor:	5				
21-JUL-97 14:09:40								
21-JUL-97 14:09:40	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 14:09:40	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:09:41	Avg	-5.891	6.470	20.63	-12.72	6.878	.5200	-53.86
21-JUL-97 14:09:41	SDev	14.390	8.698	56.09	20.27	32.25	16.49	11.05
21-JUL-97 14:09:42	%RSD	244.3	134.4	271.9	159.3	468.9	3171.	20.51
21-JUL-97 14:09:42								
21-JUL-97 14:09:42	#1	4.284	12.62	60.29	-27.05	-15.93	12.18	-61.67
21-JUL-97 14:09:43	#2	-16.07	.3197	-19.03	1.612	29.68	-11.14	-46.04
21-JUL-97 14:09:43								
21-JUL-97 14:09:43	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 14:09:43	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:09:44	Avg	-10.59	54.59	.2767	1.142	121400.	2.311	5.512
21-JUL-97 14:09:44	SDev	6.13	.32	.1145	.381	64.	.748	1.205
21-JUL-97 14:09:44	%RSD	57.88	.5780	41.40	33.34	.0530	32.34	21.86
21-JUL-97 14:09:44								
21-JUL-97 14:09:45	#1	-6.255	54.81	.1957	1.411	121500.	2.840	6.364
21-JUL-97 14:09:45	#2	-14.92	54.37	.3577	.8725	121400.	1.783	4.660
21-JUL-97 14:09:45								
21-JUL-97 14:09:46	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664	Ag3280
21-JUL-97 14:09:46	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:09:46	Avg	-1.349	111.3	13790.	26.19	-2.778	-255.4	9.058
21-JUL-97 14:09:47	SDev	6.414	48.5	14.	1.08	1.252	43.0	2.907
21-JUL-97 14:09:47	%RSD	475.4	43.61	.1001	4.118	45.08	16.84	32.10
21-JUL-97 14:09:47								
21-JUL-97 14:09:47	#1	-5.885	145.6	13780.	26.95	-1.893	-225.0	7.002
21-JUL-97 14:09:48	#2	3.186	76.98	13800.	25.43	-3.664	-285.8	11.11
21-JUL-97 14:09:48								
21-JUL-97 14:09:48	Elem	Na3302	V_2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 14:09:48	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 14:09:49	Avg	6973.	1.790	11.61	2.435	-1.551	2.688	-.5832
21-JUL-97 14:09:49	SDev	1996.	4.405	.39	10.59	5.185	.258	9.5720
21-JUL-97 14:09:49	%RSD	28.62	246.2	3.368	435.1	334.3	9.607	1641.
21-JUL-97 14:09:50								

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Instrument Log

ICP4--1MU¹⁴
07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 14:09:50	#1	8384.	4.904	11.88	9.925	2.115	2.870	6.185
21-JUL-97 14:09:50	#2	5561.	-1.325	11.33	-5.056	-5.217	2.505	-7.352
21-JUL-97 14:09:50	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 14:09:51	Units	PPB	PPB	PPB	PPB			
21-JUL-97 14:09:51	Avg	1.832	-12.09	92.83	3995.			
21-JUL-97 14:09:51	SDev	12.74	2.96	2.35	5.			
21-JUL-97 14:09:51	%RSD	695.3	24.47	2.533	.1341			
21-JUL-97 14:09:52	#1	10.84	-14.19	94.50	3991.			
21-JUL-97 14:09:52	#2	-7.175	-10.00	91.17	3999.			

Method: CLP Sample Name: 334444 Operator: FLD
Run Time: 07/21/97 14:07:53
Comment:
Mode: CONC Corr. Factor: 1

21-JUL-97 14:14:26	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 14:14:26	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:14:27	Avg	-2.054	-2.156	.8896	-1.854	.3649	3.472	-9.545
21-JUL-97 14:14:27	SDev	.408	5.2016	9.686	.956	4.114	.016	.041
21-JUL-97 14:14:28	%RSD	19.88	2412.	1089.	51.56	1127.	.4580	.4282
21-JUL-97 14:14:28	#1	-1.765	-3.894	-5.959	-1.178	3.274	3.461	-9.517
21-JUL-97 14:14:28	#2	-2.343	3.462	7.738	-2.530	-2.544	3.483	-9.574
21-JUL-97 14:14:29	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 14:14:29	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:14:29	Avg	1.524	50.29	-.0494	.0339	205900.	.5902	1.714
21-JUL-97 14:14:30	SDev	.491	.01	.0050	.2523	324.	.4745	.047
21-JUL-97 14:14:30	%RSD	32.22	.0257	10.05	743.7	.1574	80.39	2.748
21-JUL-97 14:14:31	#1	1.871	50.29	-.0459	.2124	205700.	.9257	1.747
21-JUL-97 14:14:31	#2	1.177	50.30	-.0529	-.1445	206100.	.2547	1.680
21-JUL-97 14:14:32	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 14:14:32	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:14:32	Avg	1.075	108.2	24600.	472.6	3.584	2671.	1.029
21-JUL-97 14:14:32	SDev	.322	7.3	16.	.4	.858	19.	.380
21-JUL-97 14:14:33	%RSD	29.98	6.699	.0645	.0839	23.95	.7279	36.89
21-JUL-97 14:14:33	#1	1.303	113.4	24590.	472.3	4.191	2657.	.7606
21-JUL-97 14:14:33	#2	.8472	103.1	24610.	472.9	2.977	2685.	1.297
21-JUL-97 14:14:34	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 14:14:34	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 14:14:34	Avg	40380.	-.1665	332.8	-.7969	-.9278	2.447	-.7271
21-JUL-97 14:14:35	SDev	85.	.6009	.9	3.3336	2.5911	1.359	.5719
21-JUL-97 14:14:35	%RSD	.2099	361.0	.2733	418.3	279.3	55.56	78.65
21-JUL-97 14:14:36	#1	40320.	.2584	332.2	-3.154	-2.760	3.408	-1.131
21-JUL-97 14:14:36	#2	40440.	-.5913	333.4	1.560	.9044	1.486	-.3227
21-JUL-97 14:14:37	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 14:14:37	Units	PPB	PPB	PPB	PPB			
21-JUL-97 14:14:37	Avg	3.404	-2.643	446.5	4958.			
21-JUL-97 14:14:37	SDev	.501	2.179	2.8	3.			
21-JUL-97 14:14:37	%RSD	14.71	82.43	.6215	.0582			
21-JUL-97 14:14:37	#1	3.758	-1.103	444.5	4956.			
21-JUL-97 14:14:38	#2	3.050	-4.184	448.4	4960.			

Method: CLP Sample Name: 334444L Operator: FLD
Run Time: 07/21/97 14:12:38
Comment:
Mode: CONC Corr. Factor: 5

21-JUL-97 14:19:12	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 14:19:12	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:19:12	Avg	12.16	-2.584	29.62	2.965	-15.57	14.04	58.14
21-JUL-97 14:19:13	SDev	21.45	2.995	28.49	36.84	38.73	.91	14.98
21-JUL-97 14:19:13	%RSD	176.5	115.9	96.18	1243.	248.8	6.479	25.77
21-JUL-97 14:19:13	#1	-3.012	-.4664	9.476	29.02	11.82	13.39	68.74
21-JUL-97 14:19:14	#2	27.33	-4.703	49.77	-23.09	-42.96	14.68	47.55
21-JUL-97 14:19:14	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 14:19:14	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:19:15	Avg	13.14	54.23	.1999	.4673	217900.	2.679	1.109
21-JUL-97 14:19:15	SDev	1.55	.07	.3115	.0587	158.	1.615	2.664
21-JUL-97 14:19:15	%RSD	11.78	.1201	155.9	12.55	.0723	60.26	240.3
21-JUL-97 14:19:16	#1	12.05	54.27	-.0204	.5088	217800.	3.821	-.7750

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Instrument Log

ICP4--1MU₁₅

07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 14:19:16	#2	14.24	54.18	.4201	.4258	218000.	1.538	2.992
21-JUL-97 14:19:16								
21-JUL-97 14:19:17	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 14:19:17	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:19:17	Avge	-.4768	85.91	26300.	512.2	1.575	1329.	1.477
21-JUL-97 14:19:18	SDev	.5750	31.22	52.	.9	1.966	100.	.150
21-JUL-97 14:19:18	%RSD	120.6	36.34	.1985	.1737	124.8	7.537	10.14
21-JUL-97 14:19:18								
21-JUL-97 14:19:18	#1	-.0702	108.0	26260.	511.5	.1848	1399.	1.583
21-JUL-97 14:19:19	#2	-.8833	63.83	26330.	512.8	2.965	1258.	1.372
21-JUL-97 14:19:19								
21-JUL-97 14:19:19	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 14:19:19	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 14:19:20	Avge	36920.	1.786	359.5	2.485	11.91	4.228	-3.133
21-JUL-97 14:19:20	SDev	1462.	4.379	2.4	5.146	15.06	12.29	3.570
21-JUL-97 14:19:21	%RSD	3.961	245.2	.6586	207.0	126.5	290.7	114.0
21-JUL-97 14:19:21								
21-JUL-97 14:19:21	#1	35880.	4.883	357.8	-1.153	22.56	12.92	-.6080
21-JUL-97 14:19:21	#2	37950.	-1.310	361.2	6.124	1.259	-4.463	-5.657
21-JUL-97 14:19:21								
21-JUL-97 14:19:21	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 14:19:22	Units	PPB	PPB	PPB	PPB			
21-JUL-97 14:19:22	Avge	2.692	-11.10	481.5	5231.			
21-JUL-97 14:19:22	SDev	8.590	2.95	3.0	4.			
21-JUL-97 14:19:22	%RSD	319.1	26.60	.6280	.0703			
21-JUL-97 14:19:22								
21-JUL-97 14:19:23	#1	-3.382	-13.18	483.6	5228.			
21-JUL-97 14:19:23	#2	8.766	-9.009	479.3	5234.			

Method: CLP Sample Name: 334448 Operator: FLD
Run Time: 07/21/97 14:17:24
Comment:

Mode: CONC Corr. Factor: 1

21-JUL-97 14:23:56	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 14:23:56	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:23:56	Avge	-.6325	-.0534	6.071	-.7113	1.863	1.256	153.5
21-JUL-97 14:23:56	SDev	.3394	1.3157	4.599	3.9144	3.276	3.339	3.9
21-JUL-97 14:23:56	%RSD	53.65	2462.	75.75	550.3	175.9	265.9	2.555
21-JUL-97 14:23:56								
21-JUL-97 14:23:57	#1	-.8725	.8769	2.819	2.057	4.179	-1.105	156.2
21-JUL-97 14:23:57	#2	-.3925	-.9838	9.323	-3.479	-.4537	3.617	150.7
21-JUL-97 14:23:57								
21-JUL-97 14:24:00	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 14:24:00	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:24:00	Avge	-1.251	75.08	.1571	.0827	181000.	.6842	-.4588
21-JUL-97 14:24:01	SDev	.391	.18	.0161	.2806	403.	.2371	.5915
21-JUL-97 14:24:01	%RSD	31.29	.2397	10.24	339.4	.2226	34.65	128.9
21-JUL-97 14:24:01								
21-JUL-97 14:24:01	#1	-1.527	74.95	.1684	.2811	180800.	.8518	.8770
21-JUL-97 14:24:02	#2	-.9739	75.21	.1457	-.1157	181300.	.5166	.0406
21-JUL-97 14:24:02								
21-JUL-97 14:24:02	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 14:24:02	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:24:03	Avge	-1.255	220.1	21140.	4.898	.7845	472.9	.7087
21-JUL-97 14:24:03	SDev	.240	5.2	39.	.038	.0182	9.5	.7008
21-JUL-97 14:24:04	%RSD	19.12	2.377	.1861	.7686	2.315	2.014	98.89
21-JUL-97 14:24:04								
21-JUL-97 14:24:04	#1	-1.085	223.7	21110.	4.924	.7974	466.2	1.204
21-JUL-97 14:24:04	#2	-1.425	216.4	21170.	4.871	.7717	479.6	.2132
21-JUL-97 14:24:04								
21-JUL-97 14:24:05	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 14:24:05	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 14:24:05	Avge	27690.	.5968	4.267	-.2279	1.560	1.467	-.4021
21-JUL-97 14:24:06	SDev	80.	.2392	.210	.7632	1.078	1.136	.8031
21-JUL-97 14:24:06	%RSD	.2886	40.07	4.923	334.8	69.09	77.44	199.7
21-JUL-97 14:24:06								
21-JUL-97 14:24:06	#1	27740.	.7659	4.415	.3117	2.322	.6639	-.9700
21-JUL-97 14:24:07	#2	27630.	.4277	4.118	-.7675	.7979	2.271	.1658
21-JUL-97 14:24:07								
21-JUL-97 14:24:07	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 14:24:07	Units	PPB	PPB	PPB	PPB			
21-JUL-97 14:24:08	Avge	.3808	.9322	104.2	3594.			
21-JUL-97 14:24:08	SDev	1.602	.6916	.9	8.			
21-JUL-97 14:24:08	%RSD	420.6	74.19	.8301	.2121			
21-JUL-97 14:24:08								
21-JUL-97 14:24:08	#1	1.513	1.421	103.6	3589.			
21-JUL-97 14:24:08	#2	-.7517	.4432	104.8	3599.			

Method: CLP Sample Name: 334450 Operator: FLD
Run Time: 07/21/97 14:22:09
Comment:

000164

Instrument Log

ICP4--1MU¹⁶
07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 14:28:45		Mode: CONC Corr. Factor: 1							
21-JUL-97 14:28:45	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082	
21-JUL-97 14:28:46	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
21-JUL-97 14:28:46	Avg	1.100	-1.200	3.798	-1.545	3.653	2.671	66.20	
21-JUL-97 14:28:47	SDev	.706	1.002	3.183	4.340	2.505	1.516	6.26	
21-JUL-97 14:28:47	%RSD	64.20	83.46	83.83	280.9	68.56	56.76	9.455	
21-JUL-97 14:28:47	#1	1.600	-1.909	1.547	-4.613	5.424	1.599	70.63	
21-JUL-97 14:28:48	#2	.6009	-.4920	6.049	1.524	1.882	3.742	61.78	
21-JUL-97 14:28:48	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	
21-JUL-97 14:28:49	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
21-JUL-97 14:28:49	Avg	-1.648	75.04	.1561	.3242	182500.	.4656	.4867	
21-JUL-97 14:28:50	SDev	.846	.01	.0362	.0989	127.	.0720	.3720	
21-JUL-97 14:28:50	%RSD	51.32	.0186	23.20	30.52	.0697	15.46	76.43	
21-JUL-97 14:28:50	#1	-2.246	75.05	.1817	.2542	182600.	.4147	.7497	
21-JUL-97 14:28:51	#2	-1.050	75.03	.1305	.3941	182400.	.5165	.2236	
21-JUL-97 14:28:51	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280	
21-JUL-97 14:28:52	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
21-JUL-97 14:28:52	Avg	-1.144	145.8	21270.	4.208	1.463	456.7	.6890	
21-JUL-97 14:28:52	SDev	.250	.6	16.	.032	.451	2.4	.1462	
21-JUL-97 14:28:53	%RSD	21.90	.4306	.0768	.7639	30.81	.5275	21.22	
21-JUL-97 14:28:53	#1	-1.321	146.3	21260.	4.185	1.144	458.4	.7924	
21-JUL-97 14:28:54	#2	-.9664	145.4	21280.	4.231	1.781	455.0	.5856	
21-JUL-97 14:28:54	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020	
21-JUL-97 14:28:54	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
21-JUL-97 14:28:55	Avg	28110.	.1731	8.057	-.4109	.2467	3.007	-.9685	
21-JUL-97 14:28:55	SDev	319.	.6023	.173	.4329	3.955	.177	1.6036	
21-JUL-97 14:28:56	%RSD	1.134	348.0	2.145	105.4	1603.	5.884	165.6	
21-JUL-97 14:28:56	#1	27880.	.5989	7.935	-.7170	-2.550	2.882	-2.102	
21-JUL-97 14:28:56	#2	28330.	-.2528	8.179	-.1048	3.043	3.133	.1654	
21-JUL-97 14:28:57	Elem	Tl1908	Sn1899	B 2496	Si2881				
21-JUL-97 14:28:57	Units	PPB	PPB	PPB	PPB				
21-JUL-97 14:28:57	Avg	-1.454	1.364	100.4	3464.				
21-JUL-97 14:28:58	SDev	.055	4.798	.1	5.				
21-JUL-97 14:28:58	%RSD	3.784	351.7	.1247	.1552				
21-JUL-97 14:28:58	#1	-1.493	4.757	100.3	3467.				
21-JUL-97 14:28:58	#2	-1.415	-2.029	100.5	3460.				

21-JUL-97 14:33:34	Method: CLP		Sample Name: 334452			Operator: FLD			
21-JUL-97 14:33:34	Run Time: 07/21/97		14:27:00						
21-JUL-97 14:33:34	Comment:								
21-JUL-97 14:33:35	Mode: CONC		Corr. Factor: 1						
21-JUL-97 14:33:35	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082	
21-JUL-97 14:33:35	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
21-JUL-97 14:33:36	Avg	-2.576	-2.706	7.931	-.1013	7.900	.8090	-25.14	
21-JUL-97 14:33:36	SDev	2.922	2.677	11.87	3.717	.233	1.132	4.27	
21-JUL-97 14:33:36	%RSD	113.4	98.94	149.7	3668.	2.950	139.9	17.00	
21-JUL-97 14:33:37	#1	-4.642	-.8126	-.4616	2.730	8.065	1.610	-28.16	
21-JUL-97 14:33:37	#2	-.5098	-4.598	16.32	-2.527	7.735	.0084	-22.12	
21-JUL-97 14:33:38	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	
21-JUL-97 14:33:38	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
21-JUL-97 14:33:39	Avg	-.7334	73.12	-.2750	-.1103	415900.	.1850	1.026	
21-JUL-97 14:33:39	SDev	5.5628	.58	.0727	.0591	3672.	.1180	.908	
21-JUL-97 14:33:39	%RSD	758.5	.7905	26.44	53.58	.8829	63.77	88.58	
21-JUL-97 14:33:39	#1	-4.667	73.53	-.3264	-.1521	418400.	.1016	.3832	
21-JUL-97 14:33:40	#2	3.200	72.71	-.2236	-.0685	413300.	.2684	1.668	
21-JUL-97 14:33:40	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280	
21-JUL-97 14:33:41	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
21-JUL-97 14:33:41	Avg	-1.616	637.4	81340.	1134.	1.857	35000.	.6944	
21-JUL-97 14:33:41	SDev	.172	12.2	744.	11.	.689	406.	.4293	
21-JUL-97 14:33:42	%RSD	10.62	1.916	.9142	.9593	37.09	1.160	61.82	
21-JUL-97 14:33:42	#1	-1.738	646.0	81870.	1142.	1.370	35290.	.3909	
21-JUL-97 14:33:42	#2	-1.495	628.7	80820.	1126.	2.343	34710.	.9980	
21-JUL-97 14:33:43	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020	
21-JUL-97 14:33:43	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB	
21-JUL-97 14:33:43	Avg	99610.	-.0902	9.599	-2.640	2.722	3.180	23.57	
21-JUL-97 14:33:44	SDev	550.	.2360	.075	.813	1.478	.833	.65	

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Instrument Log

ICP4--1MU₁₇

07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 14:33:44	%RSD	.5525	261.5	.7791	30.78	54.30	26.19	2.766
21-JUL-97 14:33:44								
21-JUL-97 14:33:45	#1	100000.	-.2571	9.652	-2.065	1.677	3.769	23.11
21-JUL-97 14:33:45	#2	99220.	.0766	9.546	-3.214	3.768	2.591	24.03
21-JUL-97 14:33:45								
21-JUL-97 14:33:45	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 14:33:46	Units	PPB	PPB	PPB	PPB			
21-JUL-97 14:33:46	Avge	-3.828	-1.286	492.8	5470.			
21-JUL-97 14:33:46	SDev	.966	1.195	2.4	49.			
21-JUL-97 14:33:46	%RSD	25.23	92.90	.4836	.9005			
21-JUL-97 14:33:46								
21-JUL-97 14:33:46	#1	-4.511	-2.131	494.5	5505.			
21-JUL-97 14:33:47	#2	-3.145	-.4413	491.1	5436.			
21-JUL-97 14:38:22	-----							
21-JUL-97 14:38:22	Method:	CLP	Sample Name:	CCVTR	Operator:			JJO
21-JUL-97 14:38:23	Run Time:	07/21/97	14:31:49					
21-JUL-97 14:38:23	Comment:							
21-JUL-97 14:38:23	Mode:	CONC	Corr. Factor:	1				
21-JUL-97 14:38:23								
21-JUL-97 14:38:23	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 14:38:24	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:38:24	Avge	385.1	370.9	96.89	93.90	304.0	305.8	29390.
21-JUL-97 14:38:25	SDev	1.8	2.2	1.18	1.17	.1	5.1	164.
21-JUL-97 14:38:25	%RSD	.4770	.6063	1.222	1.247	.0460	1.662	.5595
21-JUL-97 14:38:25								
21-JUL-97 14:38:25	#1	383.8	369.3	97.73	93.07	303.9	309.4	29280.
21-JUL-97 14:38:26	#2	386.4	372.5	96.05	94.73	304.1	302.3	29510.
21-JUL-97 14:38:26								
21-JUL-97 14:38:26	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97 14:38:26	Value							30200.
21-JUL-97 14:38:27	Range							10.00
21-JUL-97 14:38:27								
21-JUL-97 14:38:27	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 14:38:27	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:38:28	Avge	96.57	195.2	94.74	92.29	30090.	188.5	185.2
21-JUL-97 14:38:28	SDev	.74	1.1	.40	.53	114.	.7	.7
21-JUL-97 14:38:28	%RSD	.7694	.5870	.4267	.5782	.3790	.3624	.4019
21-JUL-97 14:38:28								
21-JUL-97 14:38:29	#1	96.04	194.4	94.46	91.91	30010.	188.1	184.6
21-JUL-97 14:38:29	#2	97.09	196.1	95.03	92.67	30170.	189.0	185.7
21-JUL-97 14:38:29								
21-JUL-97 14:38:30	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 14:38:30	Value	100.0	200.0	100.0	100.0	30200.	200.0	200.0
21-JUL-97 14:38:30	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 14:38:30								
21-JUL-97 14:38:31	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 14:38:31	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:38:31	Avge	193.9	30040.	29880.	187.7	183.6	27540.	97.26
21-JUL-97 14:38:32	SDev	1.3	132.	122.	.8	1.0	136.	.15
21-JUL-97 14:38:32	%RSD	.6910	.4402	.4073	.4006	.5280	.4940	.1493
21-JUL-97 14:38:32								
21-JUL-97 14:38:32	#1	193.0	29940.	29790.	187.1	184.2	27440.	97.16
21-JUL-97 14:38:33	#2	194.9	30130.	29960.	188.2	182.9	27640.	97.36
21-JUL-97 14:38:33								
21-JUL-97 14:38:33	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 14:38:33	Value	200.0	30200.	30200.	200.0	200.0	30200.	100.0
21-JUL-97 14:38:34	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 14:38:34								
21-JUL-97 14:38:34	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 14:38:35	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 14:38:35	Avge	27970.	191.5	192.8	375.7	94.90	305.3	189.1
21-JUL-97 14:38:35	SDev	7.	1.0	1.1	2.1	.39	3.3	2.9
21-JUL-97 14:38:36	%RSD	.0259	.5444	.5784	.5621	.4069	1.095	1.546
21-JUL-97 14:38:36								
21-JUL-97 14:38:36	#1	27960.	190.8	192.0	374.2	94.63	307.6	187.1
21-JUL-97 14:38:36	#2	27970.	192.2	193.6	377.1	95.17	302.9	191.2
21-JUL-97 14:38:36								
21-JUL-97 14:38:37	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 14:38:37	Value	30200.	200.0	200.0	400.0	100.0	300.0	200.0
21-JUL-97 14:38:38	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 14:38:38								
21-JUL-97 14:38:38	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 14:38:38	Units	PPB	PPB	PPB	PPB			
21-JUL-97 14:38:38	Avge	93.49	190.1	706.8	1022.			
21-JUL-97 14:38:38	SDev	1.92	.4	6.7	5.			
21-JUL-97 14:38:39	%RSD	2.055	.2093	.9426	.4551			
21-JUL-97 14:38:39								
21-JUL-97 14:38:39	#1	92.13	190.4	702.1	1019.			
21-JUL-97 14:38:39	#2	94.85	189.8	711.5	1025.			
21-JUL-97 14:38:39								
21-JUL-97 14:38:39	Errors	QC Pass	QC Pass	QC Pass	QC Pass			
21-JUL-97 14:38:40	Value	100.0	200.0	700.0	1000.			
21-JUL-97 14:38:40	Range	10.00	10.00	10.00	10.00			
21-JUL-97 14:43:15	-----							

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Instrument Log

ICP4--1MU¹⁸
07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

Time	Method	Sample Name	Operator
21-JUL-97 14:43:15	CLP	CCB	FLD
21-JUL-97 14:43:15	Run Time: 07/21/97	14:36:42	
21-JUL-97 14:43:16	Comment:		
21-JUL-97 14:43:16	Mode: CONC	Corr. Factor: 1	
21-JUL-97 14:43:16	Elem	2203/1	2203/2
21-JUL-97 14:43:16	Units	ppb	ppb
21-JUL-97 14:43:17	Avg	2.063	-.1836
21-JUL-97 14:43:17	SDev	6.503	.2852
21-JUL-97 14:43:18	%RSD	315.2	155.3
21-JUL-97 14:43:18	#1	-2.535	-.3853
21-JUL-97 14:43:18	#2	6.662	.0181
21-JUL-97 14:43:19	Errors	NOCHECK	NOCHECK
21-JUL-97 14:43:19	Value		
21-JUL-97 14:43:20	Range		
21-JUL-97 14:43:20	Elem	As1890	Ba4934
21-JUL-97 14:43:20	Units	ppb	ppb
21-JUL-97 14:43:21	Avg	2.106	.0270
21-JUL-97 14:43:21	SDev	.875	.0001
21-JUL-97 14:43:21	%RSD	41.54	.2767
21-JUL-97 14:43:21	#1	1.487	.0270
21-JUL-97 14:43:22	#2	2.724	.0271
21-JUL-97 14:43:22	Errors	QC Pass	QC Pass
21-JUL-97 14:43:23	Value	.0000	.0000
21-JUL-97 14:43:23	Range	10.00	200.0
21-JUL-97 14:43:23	Elem	Cu3247	Fe2714
21-JUL-97 14:43:24	Units	ppb	ppb
21-JUL-97 14:43:24	Avg	-.6779	-25.06
21-JUL-97 14:43:25	SDev	.0643	16.25
21-JUL-97 14:43:25	%RSD	9.486	64.82
21-JUL-97 14:43:25	#1	-.7234	-13.57
21-JUL-97 14:43:26	#2	-.6324	-36.55
21-JUL-97 14:43:26	Errors	QC Pass	QC Pass
21-JUL-97 14:43:26	Value	.0000	.0000
21-JUL-97 14:43:27	Range	25.00	100.0
21-JUL-97 14:43:27	Elem	Na3302	V 2924
21-JUL-97 14:43:28	Units	ppb	ppb
21-JUL-97 14:43:28	Avg	48.27	-1.085
21-JUL-97 14:43:28	SDev	162.7	.384
21-JUL-97 14:43:29	%RSD	337.0	35.34
21-JUL-97 14:43:29	#1	-66.75	-1.357
21-JUL-97 14:43:29	#2	163.3	-.8141
21-JUL-97 14:43:29	Errors	QC Pass	QC Pass
21-JUL-97 14:43:30	Value	.0000	.0000
21-JUL-97 14:43:30	Range	5000.	50.00
21-JUL-97 14:43:30	Elem	Tl1908	Sn1899
21-JUL-97 14:43:31	Units	PPB	PPB
21-JUL-97 14:43:31	Avg	-5.235	-4.246
21-JUL-97 14:43:31	SDev	6.389	.746
21-JUL-97 14:43:31	%RSD	122.0	17.57
21-JUL-97 14:43:31	#1	-9.752	-3.718
21-JUL-97 14:43:32	#2	-.7172	-4.773
21-JUL-97 14:43:32	Errors	QC Pass	QC Pass
21-JUL-97 14:43:32	Value	.0000	.0000
21-JUL-97 14:43:33	Range	10.00	100.0
21-JUL-97 14:43:33	Elem	B 2496	Si2881
21-JUL-97 14:43:31	Units	PPB	PPB
21-JUL-97 14:43:31	Avg	2.996	-4.061
21-JUL-97 14:43:31	SDev	.395	1.864
21-JUL-97 14:43:31	%RSD	13.17	45.91
21-JUL-97 14:43:31	#1	3.275	-5.379
21-JUL-97 14:43:32	#2	2.717	-2.742
21-JUL-97 14:43:32	Errors	QC Pass	QC Pass
21-JUL-97 14:43:32	Value	.0000	.0000
21-JUL-97 14:43:33	Range	100.0	100.0
21-JUL-97 14:48:07	Method	CLP	Sample Name: ICSA
21-JUL-97 14:48:07	Run Time: 07/21/97	14:41:35	Operator: FLD
21-JUL-97 14:48:08	Comment:		
21-JUL-97 14:48:08	Mode: CONC	Corr. Factor: 1	
21-JUL-97 14:48:08	Elem	2203/1	2203/2
21-JUL-97 14:48:08	Units	ppb	ppb
21-JUL-97 14:48:09	Avg	60.70	-23.04
21-JUL-97 14:48:09	SDev	7.81	3.41
21-JUL-97 14:48:10	%RSD	12.87	14.80
21-JUL-97 14:48:10	#1	66.22	-25.45
21-JUL-97 14:48:10	#2		-6.252

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Instrument Log

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Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97	14:48:10	#2	55.17	-20.63	-9.277	3.637	12.23	-3.752	444400.
21-JUL-97	14:48:11								
21-JUL-97	14:48:11	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97	14:48:11	Value							500000.
21-JUL-97	14:48:12	Range							20.00
21-JUL-97	14:48:12	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97	14:48:12	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97	14:48:13	Avg	-1.1224	3.501	.1544	-3.949	439600.	3.548	1.339
21-JUL-97	14:48:13	SDev	2.3676	.046	.0601	.102	526.	.469	.071
21-JUL-97	14:48:13	%RSD	1935.	1.321	38.94	2.583	.1196	13.22	5.335
21-JUL-97	14:48:13	#1	-1.796	3.534	.1119	-4.021	439200.	3.216	1.289
21-JUL-97	14:48:14	#2	1.552	3.468	.1970	-3.876	440000.	3.880	1.390
21-JUL-97	14:48:14								
21-JUL-97	14:48:14	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK
21-JUL-97	14:48:15	Value					500000.		
21-JUL-97	14:48:15	Range					20.00		
21-JUL-97	14:48:16	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97	14:48:16	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97	14:48:16	Avg	.4061	165400.	449000.	-1.076	2.381	-1178.	.8676
21-JUL-97	14:48:17	SDev	.3120	51.	389.	.020	.952	7.	.2228
21-JUL-97	14:48:17	%RSD	76.82	.0308	.0866	1.887	39.97	.6186	25.68
21-JUL-97	14:48:17	#1	.6267	165400.	448800.	-1.090	1.708	-1173.	.7101
21-JUL-97	14:48:18	#2	.1855	165400.	449300.	-1.061	3.054	-1183.	1.025
21-JUL-97	14:48:18	Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
21-JUL-97	14:48:18	Value		200000.	500000.				
21-JUL-97	14:48:19	Range		20.00	20.00				
21-JUL-97	14:48:19	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97	14:48:19	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97	14:48:20	Avg	-64.59	-.1339	19.51	4.875	-3.409	2.218	-.5155
21-JUL-97	14:48:20	SDev	257.06	.7025	.05	.327	3.893	.905	1.9674
21-JUL-97	14:48:21	%RSD	398.0	524.8	.2467	6.711	114.2	40.80	381.7
21-JUL-97	14:48:21	#1	-246.4	.3629	19.54	5.107	-6.162	2.858	-1.907
21-JUL-97	14:48:21	#2	117.2	-.6306	19.47	4.644	-.6566	1.578	.8757
21-JUL-97	14:48:21								
21-JUL-97	14:48:22	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
21-JUL-97	14:48:22	Value							
21-JUL-97	14:48:22	Range							
21-JUL-97	14:48:23	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97	14:48:23	Units	PPB	PPB	PPB	PPB			
21-JUL-97	14:48:23	Avg	.7595	.9296	238.5	-9.633			
21-JUL-97	14:48:23	SDev	1.716	1.966	1.9	.565			
21-JUL-97	14:48:23	%RSD	225.9	211.5	.7880	5.868			
21-JUL-97	14:48:23	#1	1.973	2.320	237.2	-10.03			
21-JUL-97	14:48:24	#2	-.4538	-.4604	239.8	-9.233			
21-JUL-97	14:48:24	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK			
21-JUL-97	14:48:24	Value							
21-JUL-97	14:48:25	Range							

21-JUL-97	14:52:59	Method:	CLP	Sample Name:	ICSAB4	Operator:	JJO		
21-JUL-97	14:53:00	Run Time:	07/21/97	14:46:27					
21-JUL-97	14:53:00	Comment:							
21-JUL-97	14:53:00	Mode:	CONC	Corr. Factor:	1				
21-JUL-97	14:53:01	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97	14:53:01	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97	14:53:01	Avg	99.03	14.45	35.75	39.48	534.4	528.8	447400.
21-JUL-97	14:53:02	SDev	1.44	.71	3.51	2.09	3.0	7.6	27.
21-JUL-97	14:53:02	%RSD	1.455	4.922	9.814	5.302	.5551	1.439	.0059
21-JUL-97	14:53:02	#1	98.01	14.95	38.23	40.96	536.5	523.4	447400.
21-JUL-97	14:53:03	#2	100.0	13.94	33.26	38.00	532.3	534.2	447400.
21-JUL-97	14:53:03								
21-JUL-97	14:53:03	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97	14:53:04	Value							482400.
21-JUL-97	14:53:04	Range							20.00
21-JUL-97	14:53:04	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97	14:53:05	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97	14:53:05	Avg	82.61	433.4	403.2	776.3	442500.	400.9	373.5
21-JUL-97	14:53:05	SDev	5.23	.0	.0	.7	108.	.2	.6
21-JUL-97	14:53:06	%RSD	6.329	.0004	.0037	.0940	.0244	.0523	.1533
21-JUL-97	14:53:06	#1	86.30	433.4	403.2	776.8	442600.	401.1	373.9

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Instrument Log

ICP4--1MU²⁰
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Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 14:53:06	#2	q78.91	433.4	403.2	775.8	442400.	400.8	373.1
21-JUL-97 14:53:06								
21-JUL-97 14:53:07	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 14:53:07	Value	101.0	500.0	480.0	938.0	491300.	478.0	451.0
21-JUL-97 14:53:07	Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00
21-JUL-97 14:53:07								
21-JUL-97 14:53:08	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664	Ag3280
21-JUL-97 14:53:08	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:53:09	Avge	462.2	167500.	448800.	393.7	779.4	-1201.	173.1
21-JUL-97 14:53:09	SDev	1.1	47.	16.	.0	1.0	2.	.7
21-JUL-97 14:53:09	%RSD	.2342	.0279	.0036	.0032	.1323	.1293	.4203
21-JUL-97 14:53:09								
21-JUL-97 14:53:10	#1	461.5	167500.	448800.	393.7	780.2	-1202.	173.6
21-JUL-97 14:53:10	#2	463.0	167500.	448700.	393.7	778.7	-1199.	172.6
21-JUL-97 14:53:10								
21-JUL-97 14:53:10	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
21-JUL-97 14:53:10	Value	521.0	187100.	500500.	477.0	938.0		200.0
21-JUL-97 14:53:11	Range	20.00	20.00	20.00	20.00	20.00		20.00
21-JUL-97 14:53:11								
21-JUL-97 14:53:11	Elem	Na3302	V_2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 14:53:12	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 14:53:12	Avge	36.50	411.3	832.8	42.63	38.24	530.7	817.9
21-JUL-97 14:53:12	SDev	218.8	.1	.8	.01	2.56	4.1	1.7
21-JUL-97 14:53:13	%RSD	599.3	.0329	.0957	.0127	6.706	.7703	.2113
21-JUL-97 14:53:13								
21-JUL-97 14:53:13	#1	191.2	411.4	832.2	42.63	40.05	527.8	816.7
21-JUL-97 14:53:14	#2	-118.2	411.2	833.3	42.64	q36.43	533.6	819.1
21-JUL-97 14:53:14								
21-JUL-97 14:53:14	Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 14:53:14	Value		483.0	989.0	51.00	46.00	620.0	952.0
21-JUL-97 14:53:15	Range		20.00	20.00	20.00	20.00	20.00	20.00
21-JUL-97 14:53:15								
21-JUL-97 14:53:15	Elem	Tl1908	Sn1899	B_2496	Si2881			
21-JUL-97 14:53:15	Units	PPB	PPB	PPB	PPB			
21-JUL-97 14:53:15	Avge	83.15	1210.	1517.	852.4			
21-JUL-97 14:53:16	SDev	2.69	3.	4.	1.1			
21-JUL-97 14:53:16	%RSD	3.235	.2429	.2761	.1279			
21-JUL-97 14:53:16								
21-JUL-97 14:53:16	#1	81.25	1208.	1514.	851.6			
21-JUL-97 14:53:16	#2	85.05	1212.	1520.	853.2			
21-JUL-97 14:53:16								
21-JUL-97 14:53:16	Errors	QC Pass	QC Pass	QC Pass	QC Pass			
21-JUL-97 14:53:17	Value	99.00	1453.	1757.	1014.			
21-JUL-97 14:53:17	Range	20.00	20.00	20.00	20.00			
21-JUL-97 14:57:50	-----							
21-JUL-97 14:57:50	Method:	CLP	Sample Name:	CRI	Operator: FLD			
21-JUL-97 14:57:51	Run Time:	07/21/97	14:51:19					
21-JUL-97 14:57:51	Comment:							
21-JUL-97 14:57:51	Mode:	CONC	Corr. Factor:	1				
21-JUL-97 14:57:51								
21-JUL-97 14:57:51	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 14:57:52	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:57:52	Avge	13.40	2.896	13.50	11.74	121.7	132.1	3947.
21-JUL-97 14:57:53	SDev	1.63	1.559	.43	3.61	1.7	4.8	15.
21-JUL-97 14:57:53	%RSD	12.18	53.81	3.162	30.78	1.363	3.611	.3739
21-JUL-97 14:57:53								
21-JUL-97 14:57:53	#1	12.25	3.999	13.19	14.29	120.6	128.7	3957.
21-JUL-97 14:57:54	#2	14.56	1.794	13.80	9.184	122.9	135.5	3936.
21-JUL-97 14:57:54								
21-JUL-97 14:57:54	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
21-JUL-97 14:57:54	Value							
21-JUL-97 14:57:55	Range							
21-JUL-97 14:57:55								
21-JUL-97 14:57:55	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 14:57:55	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:57:56	Avge	17.64	385.8	9.699	9.588	10370.	25.57	95.93
21-JUL-97 14:57:56	SDev	2.39	.6	.017	.158	27.	.59	.06
21-JUL-97 14:57:56	%RSD	13.56	.1532	.1747	1.652	.2567	2.320	.0616
21-JUL-97 14:57:56								
21-JUL-97 14:57:57	#1	19.33	386.2	9.688	9.700	10390.	25.99	95.97
21-JUL-97 14:57:57	#2	15.94	385.4	9.711	9.476	10350.	25.15	95.89
21-JUL-97 14:57:57								
21-JUL-97 14:57:58	Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
21-JUL-97 14:57:58	Value	20.00		10.00	10.00		20.00	100.0
21-JUL-97 14:57:58	Range	50.00		50.00	50.00		50.00	50.00
21-JUL-97 14:57:58								
21-JUL-97 14:57:59	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664	Ag3280
21-JUL-97 14:57:59	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 14:57:59	Avge	48.76	255.8	10080.	29.30	79.52	7653.	19.68
21-JUL-97 14:58:00	SDev	.18	18.7	34.	.07	.38	18.	.79
21-JUL-97 14:58:00	%RSD	.3697	7.310	.3401	.2327	.4733	.2318	4.034
21-JUL-97 14:58:00								
21-JUL-97 14:58:00	#1	48.63	269.0	10100.	29.35	79.79	7665.	20.24
21-JUL-97 14:58:01	#2	48.88	242.6	10060.	29.25	79.26	7640.	19.12

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Instrument Log

ICP4--1MU₂₁
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Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 14:58:01	Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass
21-JUL-97 14:58:01	Value	50.00			30.00	80.00		20.00
21-JUL-97 14:58:01								
21-JUL-97 14:58:02	Range	50.00			50.00	50.00		50.00
21-JUL-97 14:58:02								
21-JUL-97 14:58:02	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 14:58:03	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 14:58:03	Avge	8481.	99.68	47.76	6.415	12.34	128.7	19.41
21-JUL-97 14:58:03	SDev	19.	1.22	.19	.496	2.27	3.7	.01
21-JUL-97 14:58:04	%RSD	.2239	1.227	.4044	7.731	18.37	2.902	.0535
21-JUL-97 14:58:04								
21-JUL-97 14:58:04	#1	8495.	100.5	47.89	6.766	13.94	126.0	19.41
21-JUL-97 14:58:04	#2	8468.	98.82	47.62	6.065	10.73	131.3	19.42
21-JUL-97 14:58:04								
21-JUL-97 14:58:05	Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
21-JUL-97 14:58:05	Value		100.0	40.00	6.000	10.00	120.0	
21-JUL-97 14:58:05	Range		50.00	50.00	50.00	50.00	50.00	
21-JUL-97 14:58:05								
21-JUL-97 14:58:06	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 14:58:06	Units	PPB	PPB	PPB	PPB			
21-JUL-97 14:58:06	Avge	18.97	18.64	195.8	199.1			
21-JUL-97 14:58:06	SDev	1.73	4.83	.6	1.3			
21-JUL-97 14:58:07	%RSD	9.130	25.93	.3041	.6752			
21-JUL-97 14:58:07								
21-JUL-97 14:58:07	#1	20.19	22.06	195.4	200.0			
21-JUL-97 14:58:07	#2	17.74	15.22	196.2	198.1			
21-JUL-97 14:58:07								
21-JUL-97 14:58:07	Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK			
21-JUL-97 14:58:07	Value	20.00						
21-JUL-97 14:58:08	Range	50.00						
21-JUL-97 15:02:43								
21-JUL-97 15:02:44								
21-JUL-97 15:02:44	Method: CLP	Sample Name: CCVTR				Operator: JJO		
21-JUL-97 15:02:44	Run Time: 07/21/97	14:56:10						
21-JUL-97 15:02:44	Comment:							
21-JUL-97 15:02:44	Mode: CONC	Corr. Factor: 1						
21-JUL-97 15:02:44								
21-JUL-97 15:02:45	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 15:02:45	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 15:02:45	Avge	388.2	368.1	103.3	92.14	296.0	306.9	29390.
21-JUL-97 15:02:46	SDev	4.0	1.7	1.3	1.04	.4	.0	219.
21-JUL-97 15:02:46	%RSD	1.025	.4544	1.278	1.127	.1199	.0155	.7461
21-JUL-97 15:02:46								
21-JUL-97 15:02:47	#1	385.4	366.9	104.2	91.40	295.7	306.9	29240.
21-JUL-97 15:02:47	#2	391.1	369.3	102.4	92.87	296.2	306.8	29550.
21-JUL-97 15:02:47								
21-JUL-97 15:02:47	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97 15:02:48	Value							30200.
21-JUL-97 15:02:48	Range							10.00
21-JUL-97 15:02:48								
21-JUL-97 15:02:48	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 15:02:49	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 15:02:49	Avge	97.23	194.7	94.44	92.19	29960.	187.3	185.3
21-JUL-97 15:02:49	SDev	3.28	1.3	.69	.51	198.	1.6	.7
21-JUL-97 15:02:50	%RSD	3.375	.6851	.7332	.5496	.6601	.8552	.3971
21-JUL-97 15:02:50								
21-JUL-97 15:02:51	#1	94.91	193.7	93.95	91.83	29820.	186.2	184.8
21-JUL-97 15:02:51	#2	99.55	195.6	94.93	92.55	30100.	188.4	185.9
21-JUL-97 15:02:51								
21-JUL-97 15:02:51	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 15:02:51	Value	100.0	200.0	100.0	100.0	30200.	200.0	200.0
21-JUL-97 15:02:52	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 15:02:52								
21-JUL-97 15:02:52	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 15:02:52	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 15:02:53	Avge	193.0	29970.	29810.	187.1	183.7	27430.	96.64
21-JUL-97 15:02:53	SDev	1.9	217.	222.	1.3	.3	218.	.56
21-JUL-97 15:02:53	%RSD	.9799	.7233	.7442	.7005	.1624	.7963	.5750
21-JUL-97 15:02:53								
21-JUL-97 15:02:54	#1	191.6	29820.	29650.	186.2	183.5	27270.	96.25
21-JUL-97 15:02:54	#2	194.3	30130.	29970.	188.1	183.9	27580.	97.04
21-JUL-97 15:02:54								
21-JUL-97 15:02:55	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 15:02:55	Value	200.0	30200.	30200.	200.0	200.0	30200.	100.0
21-JUL-97 15:02:55	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 15:02:55								
21-JUL-97 15:02:56	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 15:02:56	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 15:02:56	Avge	27640.	191.7	192.0	374.8	95.86	303.3	189.7
21-JUL-97 15:02:57	SDev	68.	1.6	1.6	2.4	.25	.1	1.5
21-JUL-97 15:02:57	%RSD	.2471	.8183	.8074	.6512	.2632	.0285	.7984
21-JUL-97 15:02:57								
21-JUL-97 15:02:57	#1	27600.	190.6	190.9	373.1	95.68	303.2	188.6
21-JUL-97 15:02:58	#2	27690.	192.8	193.1	376.6	96.04	303.3	190.7
21-JUL-97 15:02:58								

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Instrument Log

ICP4--1MU²²
07/21/97 12:52

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

21-JUL-97 15:02:58	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 15:02:58	Value	30200.	200.0	200.0	400.0	100.0	300.0	200.0
21-JUL-97 15:02:59	Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21-JUL-97 15:02:59	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 15:02:59	Units	PPB	PPB	PPB	PPB			
21-JUL-97 15:02:59	Avg	90.94	188.0	704.3	1013.			
21-JUL-97 15:03:00	SDev	2.84	6.8	9.7	8.			
21-JUL-97 15:03:00	%RSD	3.124	3.605	1.371	.7673			
21-JUL-97 15:03:00	#1	Q88.93	183.2	697.5	1007.			
21-JUL-97 15:03:00	#2	92.94	192.8	711.1	1018.			
21-JUL-97 15:03:00	Errors	QC Pass	QC Pass	QC Pass	QC Pass			
21-JUL-97 15:03:01	Value	100.0	200.0	700.0	1000.			
21-JUL-97 15:03:01	Range	10.00	10.00	10.00	10.00			

21-JUL-97 15:07:36	Method: CLP	Sample Name: CCB	Operator: FLD					
21-JUL-97 15:07:37	Run Time: 07/21/97	15:01:04						
21-JUL-97 15:07:37	Comment:							
21-JUL-97 15:07:37	Mode: CONC	Corr. Factor: 1						
21-JUL-97 15:07:37	Elem	2203/1	2203/2	1960/1	1960/2	2068/1	2068/2	Al3082
21-JUL-97 15:07:38	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 15:07:38	Avg	3.305	-1.531	4.614	-.9369	-.3573	2.166	-2.781
21-JUL-97 15:07:39	SDev	3.081	.498	.193	9.5472	.4293	1.894	1.633
21-JUL-97 15:07:39	%RSD	93.23	32.55	4.192	1019.	120.2	87.43	58.70
21-JUL-97 15:07:39	#1	1.126	-1.883	4.477	5.814	-.0537	.8270	-3.936
21-JUL-97 15:07:40	#2	5.484	-1.178	4.750	-7.688	-.6609	3.506	-1.627
21-JUL-97 15:07:40	Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
21-JUL-97 15:07:41	Value							.0000
21-JUL-97 15:07:41	Range							200.0
21-JUL-97 15:07:41	Elem	As1890	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286
21-JUL-97 15:07:42	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 15:07:42	Avg	-1.635	-.1603	.0247	-.0453	2.534	.5228	.1535
21-JUL-97 15:07:42	SDev	.300	.1131	.0008	.2600	.531	.0765	.0421
21-JUL-97 15:07:43	%RSD	18.37	70.59	3.422	574.5	20.97	14.62	27.42
21-JUL-97 15:07:43	#1	-1.848	.2402	.0253	-.1386	2.158	.4688	.1833
21-JUL-97 15:07:43	#2	-1.423	.0803	.0241	-.2291	2.910	.5769	.1237
21-JUL-97 15:07:44	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 15:07:44	Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
21-JUL-97 15:07:45	Range	10.00	200.0	5.000	5.000	5000.	10.00	50.00
21-JUL-97 15:07:45	Elem	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K 7664	Ag3280
21-JUL-97 15:07:45	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
21-JUL-97 15:07:46	Avg	-.0652	-8.396	9.165	-.1619	.5099	-37.92	-.1599
21-JUL-97 15:07:46	SDev	.0055	7.233	1.743	.0844	.0608	1.04	.2802
21-JUL-97 15:07:46	%RSD	8.391	86.15	19.02	52.15	11.92	2.750	175.2
21-JUL-97 15:07:46	#1	-.0691	-13.51	10.40	-.1022	.4670	-38.65	.3581
21-JUL-97 15:07:47	#2	-.0613	-3.281	7.932	-.2216	.5529	-37.18	-.0382
21-JUL-97 15:07:47	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 15:07:48	Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
21-JUL-97 15:07:48	Range	25.00	100.0	5000.	15.00	40.00	5000.	10.00
21-JUL-97 15:07:48	Elem	Na3302	V 2924	Zn2138	Pb2203	Se1960	Sb2068	Mo2020
21-JUL-97 15:07:49	Units	ppb	ppb	ppb	ppb	ppb	ppb	PPB
21-JUL-97 15:07:49	Avg	225.1	.3641	.1540	.0920	.9235	1.336	.3342
21-JUL-97 15:07:50	SDev	168.9	.3847	.3102	1.358	6.300	1.120	.6092
21-JUL-97 15:07:50	%RSD	75.04	105.7	201.5	1477.	682.2	83.85	182.3
21-JUL-97 15:07:50	#1	105.6	.0921	-.0654	-.8685	Q5.378	.5440	.7649
21-JUL-97 15:07:51	#2	344.5	.6362	.3734	1.052	-3.531	2.128	-.0965
21-JUL-97 15:07:51	Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
21-JUL-97 15:07:51	Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
21-JUL-97 15:07:52	Range	5000.	50.00	20.00	3.000	5.000	60.00	100.0
21-JUL-97 15:07:52	Elem	Tl1908	Sn1899	B 2496	Si2881			
21-JUL-97 15:07:52	Units	PPB	PPB	PPB	PPB			
21-JUL-97 15:07:52	Avg	.8660	.0898	3.119	-.8268			
21-JUL-97 15:07:53	SDev	4.208	3.997	.431	1.5318			
21-JUL-97 15:07:53	%RSD	485.9	4453.	13.82	185.3			
21-JUL-97 15:07:53	#1	-2.110	-2.737	3.424	-1.910			
21-JUL-97 15:07:53	#2	3.842	2.916	2.814	.2564			
21-JUL-97 15:07:53	Errors	QC Pass	QC Pass	QC Pass	QC Pass			

000171

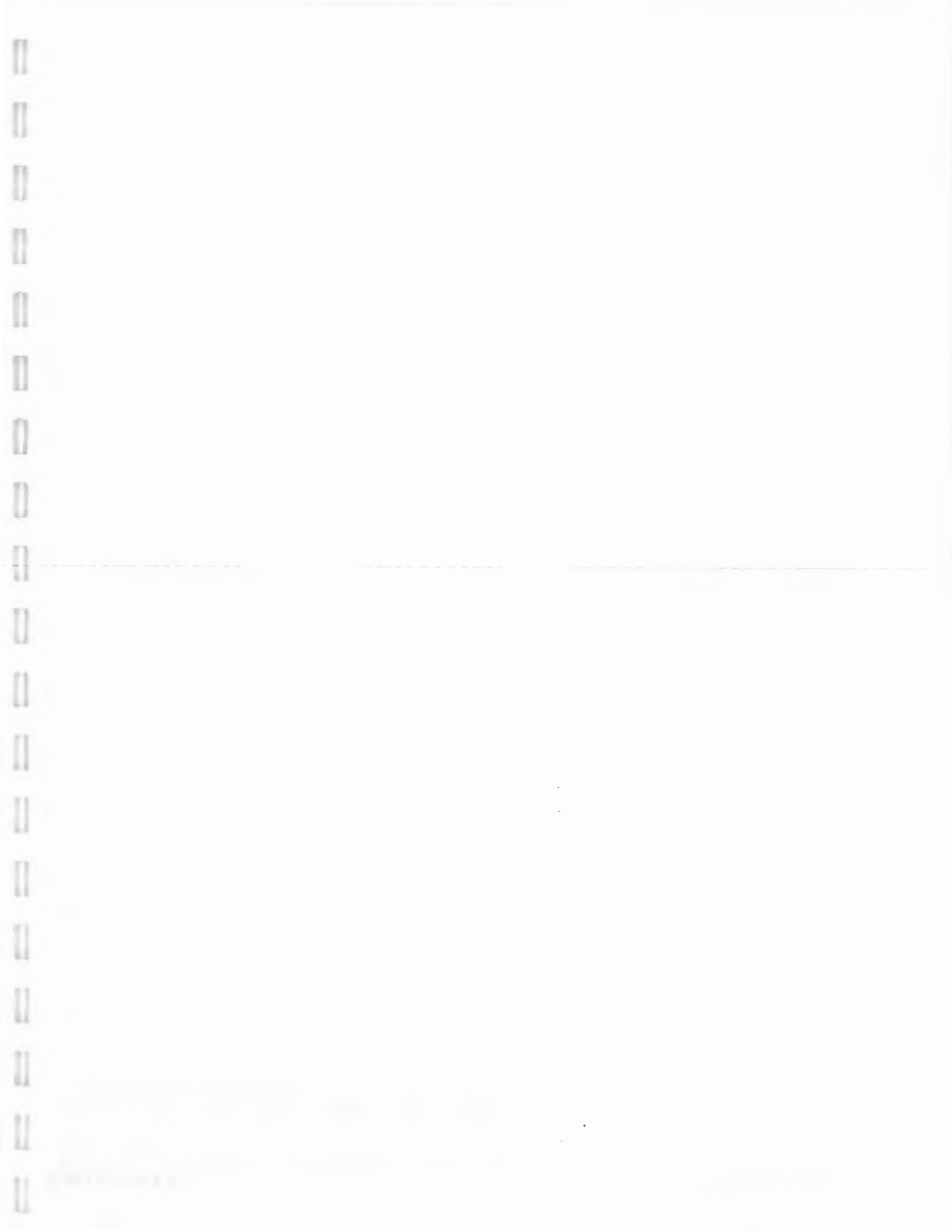
Instrument Log

Watch file name: \$DISK3:[NEWICP.DATA.LOGS]WATCH_ICP4.199707211252;1
Method: ILM02

ICP4--1MU₂₃
07/21/97 12:52

21-JUL-97	15:07:54	Value	.0000	.0000	.0000	.0000
21-JUL-97	15:07:54	Range	10.00	100.0	100.0	100.0
21-JUL-97	15:08:04	End Method	ILM02			

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SAMPLE PREPARATION



Sample Preservation Documentation

Date: 10/26/97

Sample Cust.: SCM

Client Code: ENG5C2

SDG: 65533

ETR: 65533

000173

SAMPLE ID	Ammonia pH < 2	COD pH < 2	Cyanide * pH > 12	Hardness pH < 2	Metals pH < 2	NO3/NO2 pH < 2	O&G pH < 2	Phenols pH < 2	Phosphate pH < 2	Sulfide ** pH > 10	TKN pH < 2	TOC pH < 2	TOX pH < 2	TPH pH < 2
334444					< 2	< 2								
334445												< 2		
334446						< 2								
334447						< 2	10/26/97					< 2		
334448					< 2	< 2								
334449												< 2		
334450					< 2	< 2								
334451												< 2		
334452					< 2	< 2								
334453												< 2		
334454						< 2								
334455												< 2		

* Not including Reactive Cyanide.

** Not including Reactive Sulfide

Additional Preservation By: _____ Date: _____

rep Method: ILMO2:2W Solid Water

W

Analyst

PK

Prep Date: 7/1/97

Prep Time: 0600

Batch YR

6.5479, 6.5491, 6.5533

Lab ID	Digested Amt	Final Vol (mL)	Color before digestion	Clarity before digestion	Texture	Artifacts	Color after digestion	Clarity after digestion	Client ID
B 433	100	100							
CS W									
334046			colorless	clear			colorless	clear	
334051			~	~					
334052			~	~					
334061			~	~					
334066			~	~					
334067			~	~					
334073			~	~					
334077			~	~					
334208			~	~					
334444			~	~					
334448			~	~					
334450			~	~					
334452	↓	↓	~	~			↓	↓	

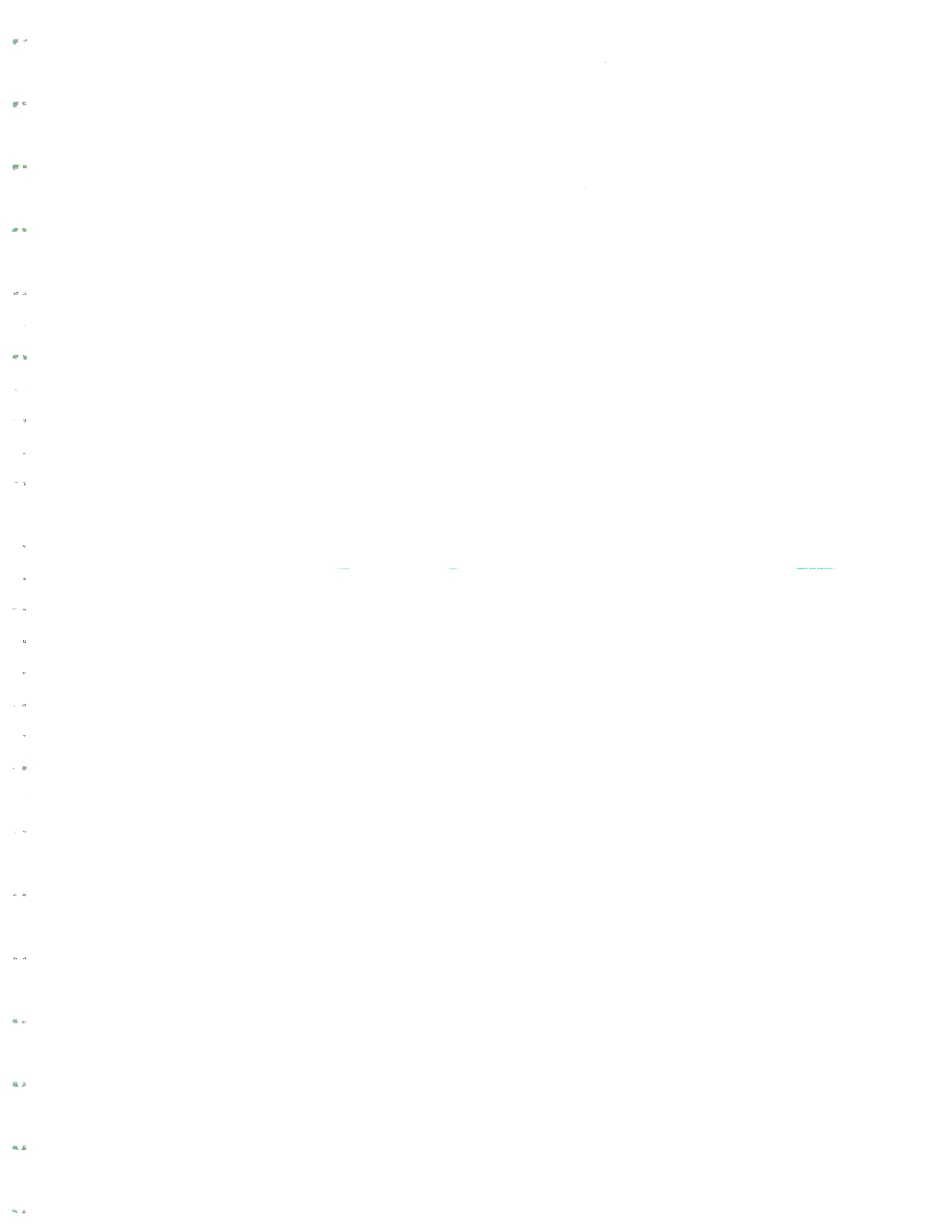
000174

Matrix Spike Analysis Spiked by: _____ On: _____ Witnessed by: _____
 mL of ILMO4 ICP Spiking Solution Lot Number _____ mL of 10 ppm Ag Spiking Solution Lot Number _____

ENGSC2 65479
 ITS Environmental Laboratories
 ~ 65502
 ~ 65533

VOLATILE ORGANIC ANALYSIS

QC SUMMARY



2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 93206

Lab Code: INCHVT

Case No.: 93206

SAS No.:

SDG No.: 65533

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKV7	96	96	92		0
02	AL121	92	94	90		0
03	AL129EV	96	96	96		0
04	AL118	96	94	100		0
05	AL117	96	96	100		0
06	AL122	94	92	102		0
07	AL119	92	92	100		0
08	AL120	94	92	100		0
09	AL122MS	92	90	102		0
10	AL122MSD	94	94	104		0
11	MBS	90	90	98		0
12	AL125	94	94	104		0
13	AL123	92	92	100		0
14	AL124	94	94	104		0
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)
 SMC2 (BFB) = Bromofluorobenzene (86-115)
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL .

Contract: 93206

Lab Code: INCHVT

Case No.: 93206

SAS No.:

SDG No.: 65533

Matrix Spike - EPA Sample No.: AL122

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	50	100	61-145
Trichloroethene	50	7	58	102	71-120
Benzene	50	0	50	100	76-127
Toluene	50	0	51	102	76-125
Chlorobenzene	50	0	50	100	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	50	50	100	0	14	61-145
Trichloroethene	50	58	102	0	14	71-120
Benzene	50	51	102	2	11	76-127
Toluene	50	51	102	0	13	76-125
Chlorobenzene	50	51	102	2	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM 3
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Matrix Spike - ENGSC2 Sample No.: MBS

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50		50	100	61-145
Trichloroethene	50		51	102	71-120
Benzene	50		51	102	76-127
Toluene	50		51	102	76-125
Chlorobenzene	50		51	102	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
 Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKV7

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Lab File ID: OIYB001DV Lab Sample ID: VBLKV7
 Date Analyzed: 06/30/97 Time Analyzed: 0924
 GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N
 Instrument ID: 0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	AL121	334456	O334456V	1125
02	AL129EV	334457	O334457V	1147
03	AL118	334458	O334458V	1213
04	AL117	334459	O334459V	1239
05	AL122	334454	O334454V	1305
06	AL119	334448	O334448V	1331
07	AL120	334450	O334450V	1357
08	AL122MS	334454MS	O334454MSV	1423
09	AL122MSD	334454MD	O334454MDV	1449
10	MBS	334461	O334461V	1515
11	AL125	334452	O334452DV	1541
12	AL123	334446	O334446DV	1607
13	AL124	334444	O334444DV	1634
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Lab File ID: OIT014PV BFB Injection Date: 06/20/97
 Instrument ID: O BFB Injection Time: 1311
 GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.7
75	30.0 - 60.0% of mass 95	51.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	72.5
175	5.0 - 9.0% of mass 174	5.4 (7.4)1
176	95.0 - 101.0% of mass 174	70.5 (97.2)1
177	5.0 - 9.0% of mass 176	5.0 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	OIT050HHV	06/20/97	1321
02	VSTD010	VSTD010	OIT010HHV	06/20/97	1423
03	VSTD020	VSTD020	OIT020HHV	06/20/97	1447
04	VSTD100	VSTD100	OIY100HV	06/20/97	1513
05	VSTD200	VSTD200	OIY200HV	06/20/97	1546
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Lab File ID: OIY006PV BFB Injection Date: 06/30/97
 Instrument ID: O BFB Injection Time: 0829
 GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	46.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.1 (7.0)1
176	95.0 - 101.0% of mass 174	70.7 (95.9)1
177	5.0 - 9.0% of mass 176	5.3 (7.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	OIY050DHV	06/30/97	0841
02	VBLKV7	VBLKV7	OIYB001DV	06/30/97	0924
03	AL121	334456	O334456V	06/30/97	1125
04	AL129EV	334457	O334457V	06/30/97	1147
05	AL118	334458	O334458V	06/30/97	1213
06	AL117	334459	O334459V	06/30/97	1239
07	AL122	334454	O334454V	06/30/97	1305
08	AL119	334448	O334448V	06/30/97	1331
09	AL120	334450	O334450V	06/30/97	1357
10	AL122MS	334454MS	O334454MSV	06/30/97	1423
11	AL122MSD	334454MD	O334454MDV	06/30/97	1449
12	MBS	334461	O334461V	06/30/97	1515
13	AL125	334452	O334452DV	06/30/97	1541
14	AL123	334446	O334446DV	06/30/97	1607
15	AL124	334444	O334444DV	06/30/97	1634
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Lab File ID (Standard): OIY050DHV Date Analyzed: 06/30/97
 Instrument ID: 0 Time Analyzed: 0841
 GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	426576	6.98	1786812	8.16	1556777	11.52
UPPER LIMIT	853152	7.48	3573624	8.66	3113554	12.02
LOWER LIMIT	213288	6.48	893406	7.66	778388	11.02
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKV7	421449	6.98	1803269	8.15	1538564	11.52
02 AL121	415110	6.98	1764234	8.16	1511379	11.52
03 AL129EV	378089	6.98	1590697	8.15	1344360	11.52
04 AL118	327416	6.98	1341313	8.15	1123463	11.52
05 AL117	322654	6.98	1326919	8.15	1131390	11.52
06 AL122	306878	6.98	1257242	8.15	1091726	11.52
07 AL119	304641	6.98	1266447	8.15	1096261	11.52
08 AL120	297994	6.98	1237672	8.15	1056339	11.52
09 AL122MS	299992	6.98	1293904	8.16	1121331	11.52
10 AL122MSD	291525	6.98	1239849	8.16	1076695	11.52
11 MBS	304430	6.98	1293890	8.15	1125983	11.52
12 AL125	296133	6.98	1258916	8.16	1088127	11.53
13 AL123	302564	6.98	1274505	8.15	1101179	11.53
14 AL124	290233	6.98	1189957	8.15	1018584	11.52
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

000182

Report Date : 14-Jan-1997 08:39

173
~~Inchcape~~ Environmental
INSTRUMENT DETECTION LIMIT SUMMARY REPORT

Method File: /chem/O.i/OHQO_OLM03.b/VOA_OLM03.m
Batch File: /chem/O.i/OHQO_OLM03.b
Inst ID: O.i
UNITS: UG/L
TRUE VALUE = 20 UG/L

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07
FILENAME:	O322381V	O322382V	O322383V	O322384V	O322385V	O322386V	O322387V
INJ. DATE:	13-JAN-97	13-JAN-97	13-JAN-97	13-JAN-97	13-JAN-97	13-JAN-97	13-JAN-97
INJ. TIME:	17:31	18:03	18:38	19:25	21:02	21:47	22:16

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
1 Chloromethane	19.39	21.71	20.77	21.66	21.35	19.73	20.96	20.79	0.92	2.88
2 Vinyl Chloride	17.88	19.86	19.72	20.12	19.94	18.58	19.57	19.38	0.83	2.60
3 Bromomethane	18.46	19.12	18.48	19.07	18.20	18.78	18.92	18.72	0.35	1.09
4 Chloroethane	17.94	18.48	18.09	18.94	18.45	19.24	18.35	18.50	0.46	1.43
5 Acetone	18.57	16.74	16.33	18.41	17.72	15.20	16.02	17.00	1.27	3.99
6 1,1-Dichloroethene	21.50	22.61	21.37	22.53	21.69	21.25	21.94	21.84	0.55	1.72
7 Methylene Chloride	21.60	21.88	21.18	22.11	21.41	21.08	20.96	21.46	0.43	1.34
8 Carbon Disulfide	19.82	20.72	19.52	20.89	19.91	19.51	19.80	20.02	0.56	1.75
9 trans-1,2-Dichloroethe	22.78	23.66	22.48	23.85	22.84	22.68	22.96	23.03	0.52	1.62
M 10 1,2-Dichloroethene (to	41.95	42.86	41.06	43.65	42.29	41.82	42.30	42.28	0.82	2.58
11 1,1-Dichloroethane	21.32	22.05	21.00	22.34	21.46	21.42	21.41	21.57	0.46	1.45
12 2-Butanone	16.00	16.12	15.01	16.84	16.32	16.26	16.40	16.14	0.56	1.77
13 cis-1,2-Dichloroethene	19.40	19.48	18.82	20.05	19.66	19.36	19.56	19.48	0.37	1.16
14 Chloroform	22.50	23.00	21.87	23.18	22.43	22.17	22.43	22.51	0.45	1.42
15 Bromochloromethane	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	0.00	0.00
16 1,1,1-Trichloroethane	22.92	23.62	22.55	23.32	22.96	22.68	22.96	23.00	0.37	1.15

Reviewer 1 Candace P. Camara Date: 1/22/97
Reviewer 2 _____ Date: _____

000183

^{ITS}
~~Incheape~~ Environmental
INSTRUMENT DETECTION LIMIT SUMMARY REPORT

Method File: /chem/O.i/OHQO_OLM03.b/VOA_OLM03.m
Batch File: /chem/O.i/OHQO_OLM03.b
Inst ID: O.i
UNITS: UG/L

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
17 Carbon Tetrachloride	22.92	23.49	22.62	23.35	22.87	22.82	22.79	22.98	0.32	1.00
18 1,2-Dichloroethane-d4	54.34	53.60	53.40	53.43	51.62	52.23	53.54	53.17	0.92	2.91
19 1,2-Dichloroethane	24.04	24.20	23.19	24.29	23.83	23.18	23.29	23.72	0.49	1.54
20 Benzene	21.05	21.89	20.99	21.73	21.24	21.18	21.55	21.37	0.35	1.10
21 1,4-Difluorobenzene	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	0.00	0.00
22 Trichloroethene	21.34	22.20	21.36	22.30	21.82	21.58	21.65	21.75	0.38	1.20
23 1,2-Dichloropropane	22.05	22.45	21.58	22.28	22.09	21.92	21.81	22.03	0.29	0.92
24 Bromodichloromethane	23.09	23.93	23.01	23.78	23.18	23.05	23.31	23.34	0.37	1.16
25 4-Methyl-2-Pentanone	16.13	16.76	15.58	16.28	17.20	16.48	16.53	16.42	0.51	1.59
26 cis-1,3-Dichloropropen	22.10	22.66	21.65	22.74	22.07	22.07	21.97	22.18	0.39	1.22
27 Toluene-d8	51.02	50.97	51.68	51.63	50.75	50.49	52.04	51.23	0.57	1.78
28 Toluene	21.69	22.06	21.48	22.54	22.24	21.87	22.08	22.00	0.35	1.11
29 trans-1,3-Dichloroprop	22.07	22.93	21.69	22.51	22.22	21.99	21.76	22.17	0.44	1.37
30 1,1,2-Trichloroethane	20.87	21.73	20.67	21.47	20.67	21.05	21.12	21.08	0.40	1.26
31 2-Hexanone	17.36	17.16	16.08	17.18	17.57	16.66	16.65	16.95	0.51	1.61
32 Tetrachloroethene	23.10	23.95	22.57	24.04	23.76	23.55	22.81	23.40	0.57	1.81
33 Dibromochloromethane	21.70	22.68	21.56	22.26	21.79	21.83	21.62	21.92	0.41	1.28
34 Chlorobenzene-d5	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	0.00	0.00
35 Chlorobenzene	21.13	21.69	20.88	21.63	21.52	21.01	20.90	21.25	0.35	1.10
36 Ethylbenzene	21.11	22.24	20.88	22.08	21.66	21.26	21.45	21.53	0.50	1.57
37 Xylene (m,p)	42.70	43.90	42.20	44.54	44.46	42.64	42.88	43.33	0.95	2.99
38 Xylene (total)	64.78	66.90	64.08	67.73	67.36	64.50	65.08	65.78	1.50	4.72

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

000134

^{ITS}
~~Inhouse~~ Environmental
INSTRUMENT DETECTION LIMIT SUMMARY REPORT

Method File: /chem/O.i/OHQO_OLM03.b/VOA_OLM03.m
Batch File: /chem/O.i/OHQO_OLM03.b
Inst ID: O.i
UNITS: UG/L

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
39 Xylene (o)	21.23	22.13	21.05	22.30	22.01	21.01	21.34	21.58	0.55	1.72
40 Styrene	21.32	22.06	20.88	22.00	21.80	20.94	20.97	21.42	0.52	1.64
41 Bromoform	21.45	22.47	20.96	21.57	21.64	21.61	21.50	21.60	0.45	1.41
42 1,1,2,2-Tetrachloroeth	21.78	22.61	20.96	22.32	22.67	22.38	21.78	22.07	0.61	1.91
43 Bromofluorobenzene	53.36	53.68	54.06	54.03	52.92	52.71	53.92	53.53	0.54	1.71
46 2-Chloroethylvinylethe	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
47 Vinyl Acetate	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
48 Trichlorofluoromethane	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
49 Acrolein	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
50 Acrylonitrile	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
51 Ethyl acetate	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
52 Hexane	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
53 Tetrahydrofuran	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

VOLATILE ORGANIC ANALYSIS
SUPPORTIVE DOCUMENTATION



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL124

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334444

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334444DV

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 28.1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	-----Chloromethane	280	U
74-83-9	-----Bromomethane	280	U
75-01-4	-----Vinyl Chloride	280	U
75-00-3	-----Chloroethane	280	U
75-09-2	-----Methylene Chloride	280	U
67-64-1	-----Acetone	280	U
75-15-0	-----Carbon Disulfide	280	U
75-35-4	-----1,1-Dichloroethene	280	U
75-34-3	-----1,1-Dichloroethane	280	U
540-59-0	-----1,2-Dichloroethene (total)	69	J
67-66-3	-----Chloroform	45	J
107-06-2	-----1,2-Dichloroethane	280	U
78-93-3	-----2-Butanone	280	U
71-55-6	-----1,1,1-Trichloroethane	280	U
56-23-5	-----Carbon Tetrachloride	280	U
75-27-4	-----Bromodichloromethane	280	U
78-87-5	-----1,2-Dichloropropane	280	U
10061-01-5	-----cis-1,3-Dichloropropene	280	U
79-01-6	-----Trichloroethene	2900	
124-48-1	-----Dibromochloromethane	280	U
79-00-5	-----1,1,2-Trichloroethane	280	U
71-43-2	-----Benzene	280	U
10061-02-6	-----trans-1,3-Dichloropropene	280	U
75-25-2	-----Bromoform	280	U
108-10-1	-----4-Methyl-2-Pentanone	280	U
591-78-6	-----2-Hexanone	280	U
127-18-4	-----Tetrachloroethene	280	U
79-34-5	-----1,1,2,2-Tetrachloroethane	280	U
108-88-3	-----Toluene	280	U
108-90-7	-----Chlorobenzene	280	U
100-41-4	-----Ethylbenzene	280	U
100-42-5	-----Styrene	280	U
1330-20-7	-----Xylene (total)	280	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

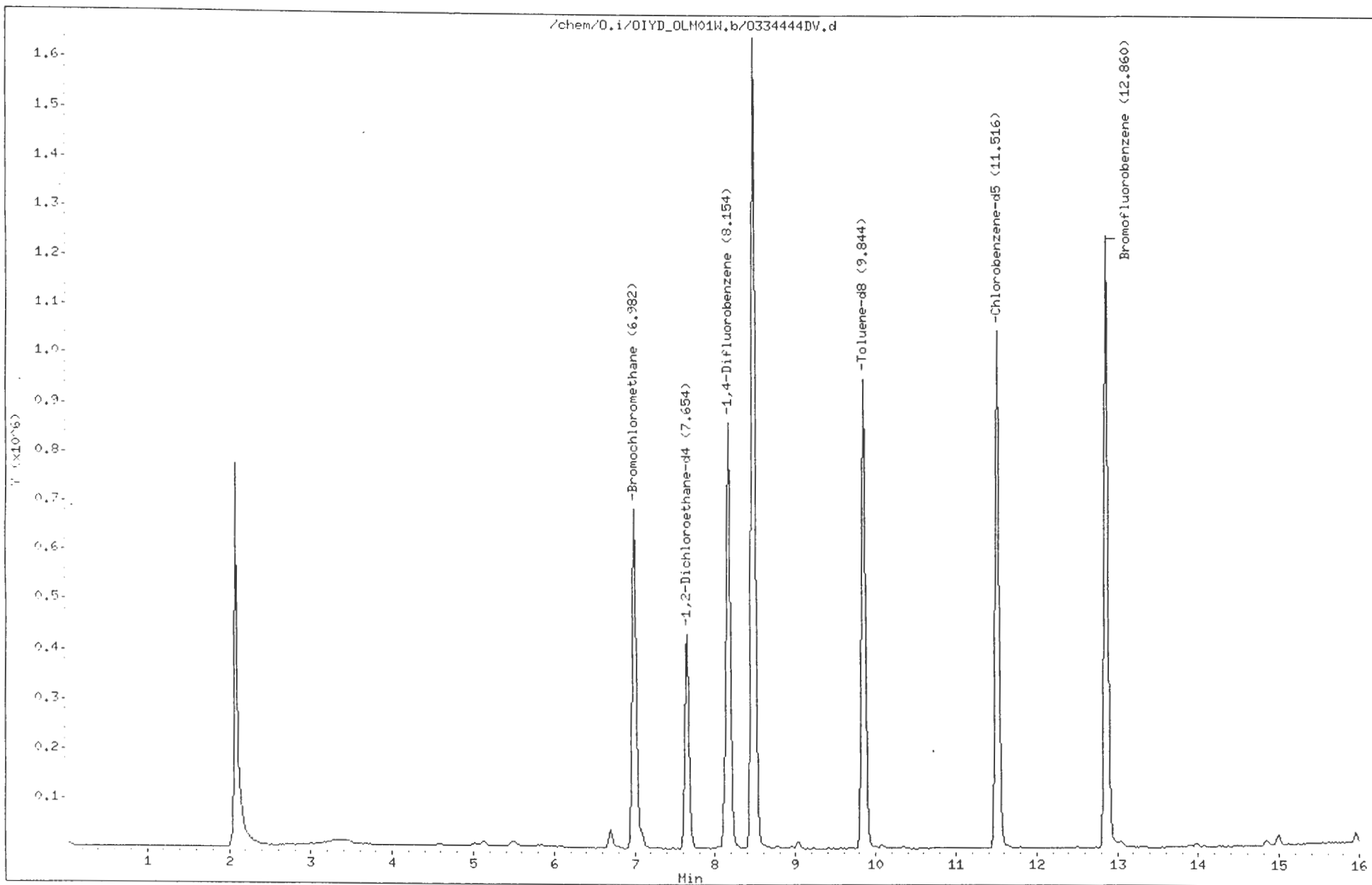
EPA SAMPLE NO.

AL124

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Matrix: (soil/water) WATER Lab Sample ID: 334444
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334444DV
 Level: (low/med) LOW Date Received: 06/26/97
 % Moisture: not dec. _____ Date Analyzed: 06/30/97
 GC Column: CAP ID: 0.53 (mm) Dilution Factor: 28.1
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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29.				
30.				



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334444DV.d
 Lab Smp Id: 334444 Client Smp ID: AL124
 Inj Date : 30-JUN-97 16:34:16
 Operator : MTP Inst ID: O.i
 Smp Info : L#334444 CLI#AL124 ETR#65533
 Misc Info : 178UL/5.0ML
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 13
 Dil Factor: 28.08999
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	62.00						
3 Bromomethane	94.00						
4 Chloroethane	64.00						
5 Acetone	43.00						
6 1,1-Dichloroethene	96.00						
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene (total)	96				20371	2.45766	69 (a)
11 1,1-Dichloroethane	63.00						
12 2-Butanone	43.00						
13 cis-1,2-Dichloroethene	96	6.706	6.708	(0.960)	20371	2.45310	69 (a)
14 Chloroform	83	7.085	7.088	(1.015)	29676	1.61069	45 (a)
* 15 Bromochloromethane	128	6.982	6.984	(1.000)	290233	50.0000	
16 1,1,1-Trichloroethane	97.00						

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
17 Carbon Tetrachloride	117.00							
S 18 1,2-Dichloroethane-d4	65		7.654	7.657	(1.006)	541794	52.1515	52(a)
19 1,2-Dichloroethane	62.00							
20 Benzene	78.00							
* 21 1,4-Difluorobenzene	114		8.154	8.158	(1.000)	1139957	50.0000	
22 Trichloroethene	1130		8.465	8.486	(1.038)	979325	104.066	2900
23 1,2-Dichloropropane	63.00							
24 Bromodichloromethane	93.00							
25 4-Methyl-2-Pentanone	43.00							
26 cis-1,3-Dichloropropene	75.00							
S 27 Toluene-d8	98		9.944	9.866	(0.955)	1113232	47.0874	47(a)
28 Toluene	91.00							
29 trans-1,3-Dichloropropene	75.00							
30 1,1,2-Trichloroethane	97.00							
31 2-Hexanone	43.00							
32 Tetrachloroethene	164.00							
33 Dibromochloromethane	129.00							
* 34 Chlorobenzene-d5	117		11.516	11.540	(1.000)	1019584	50.0000	
35 Chlorobenzene	112.00							
36 Ethylbenzene	106.00							
37 Xylene (m,p)	106.00							
M 38 Xylene (total)	106.00							
39 Xylene (o)	106.00							
40 Styrene	104.00							
41 Bromoform	173.00							
42 1,1,2,2-Tetrachloroethane	83.00							
S 43 Bromofluorobenzene	95		12.360	12.870	(1.117)	827104	46.7660	47(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334444DV.d
Lab Smp Id: 334444 Client Smp ID: AL124
Inj Date : 30-JUN-97 16:34:16
Operator : MTP Inst ID: O.i
Smp Info : L#334444 CLI#AL124 ETR#65533
Misc Info : 178UL/5.0ML
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 13
Dil Factor: 28.08999
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Date : 30-JUN-97 16:34:16

Client ID: AL124

Instrument: 0.1

Sample Info: L#334444 CLI#AL124 ETR#65533

Purge Volume: 5.0

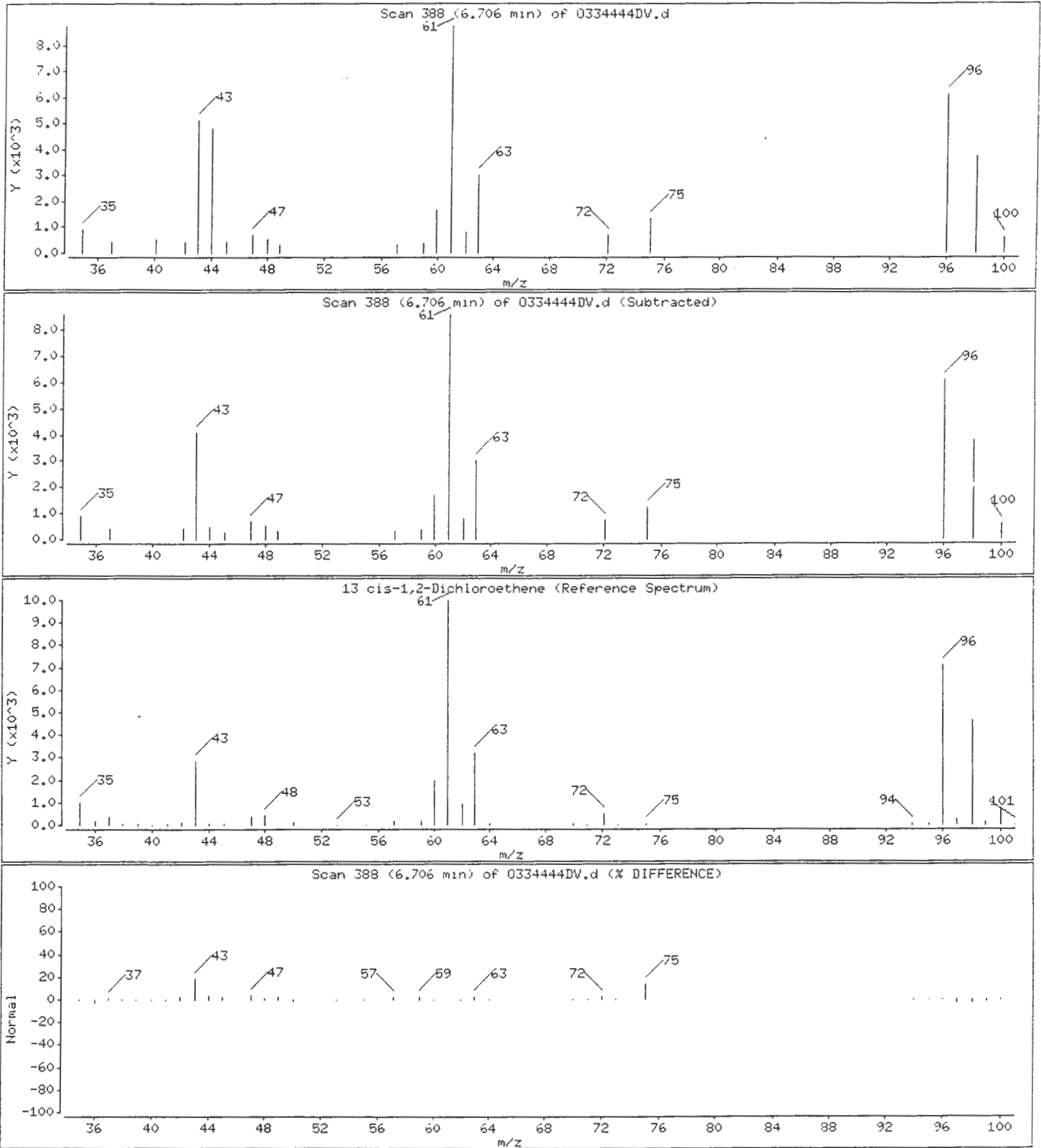
Operator: MTP

Column phase: CAP

Column diameter: 0.53

13 cis-1,2-Dichloroethene

Concentration: 69 ug/L



Date : 30-JUN-97 16:34:16

Client ID: AL124

Instrument: 0.i

Sample Info: L#334444 CLI#AL124 ETR#65533

Purge Volume: 5.0

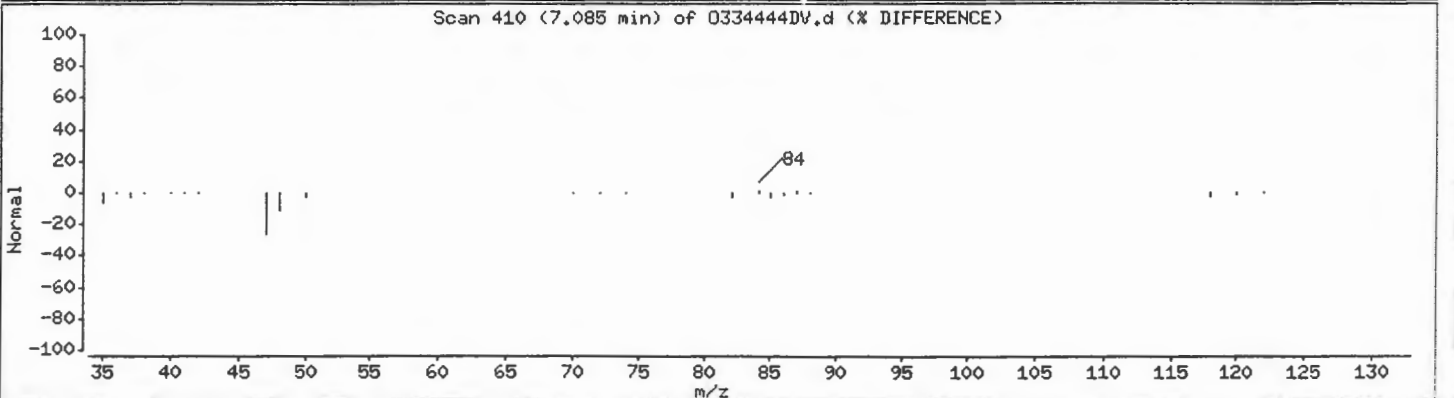
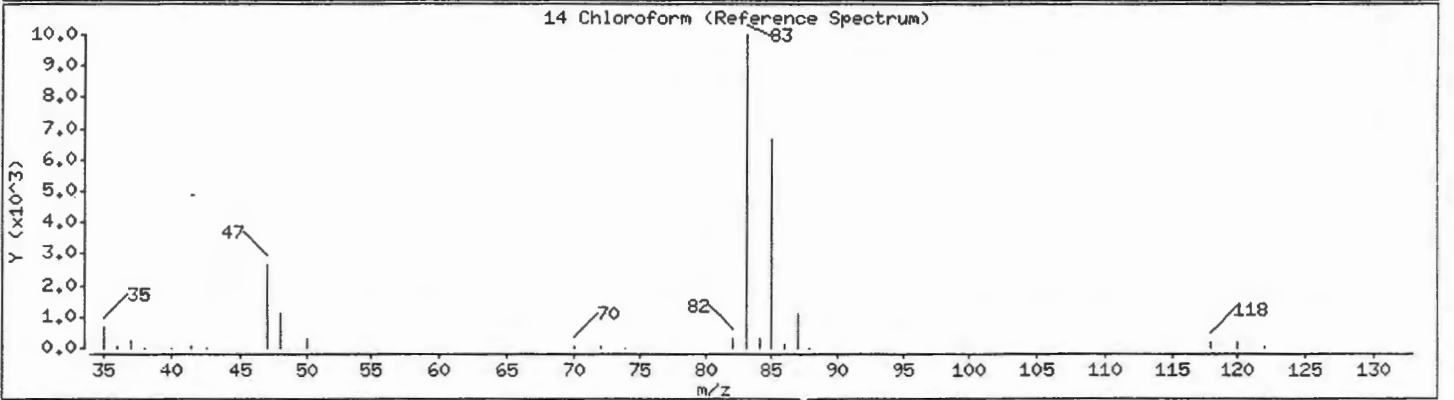
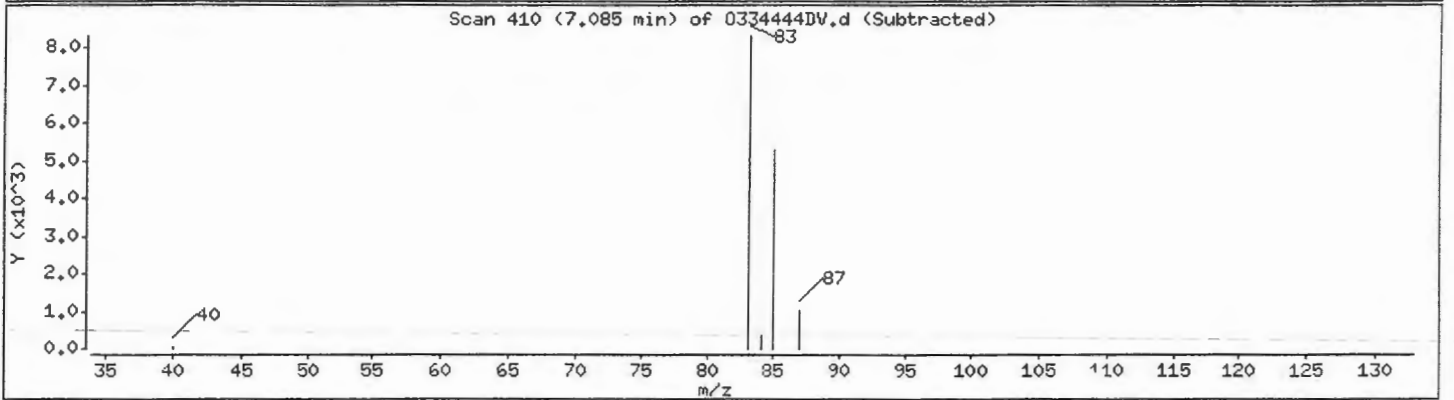
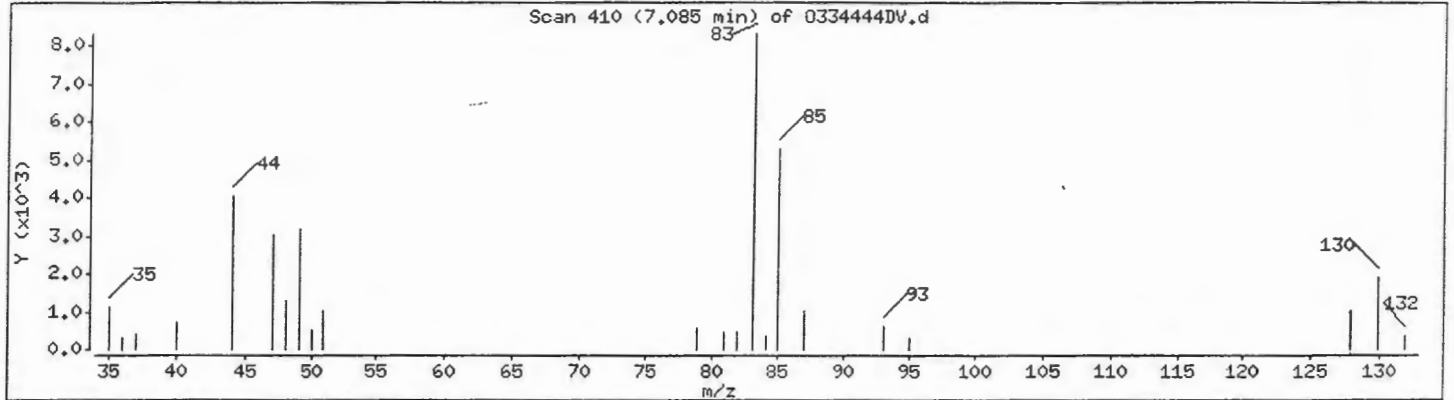
Operator: HTP

Column phase: CAP

Column diameter: 0.53

14 Chloroform

Concentration: 45 ug/L



Date : 30-JUN-97 16:34:16

Client ID: AL124

Instrument: 0.i

Sample Info: L#334444 CLI#AL124 ETR#65533

Purge Volume: 5.0

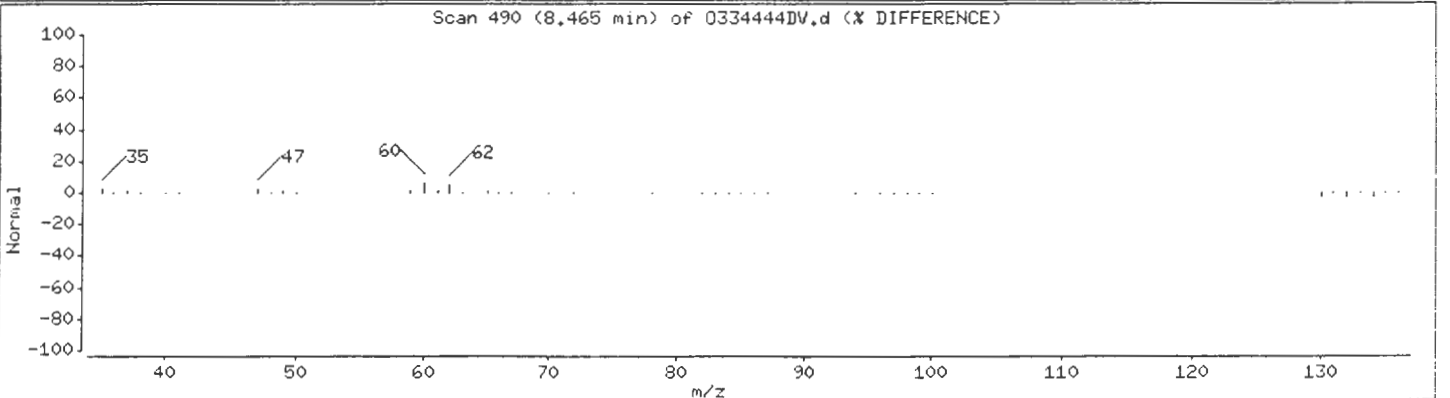
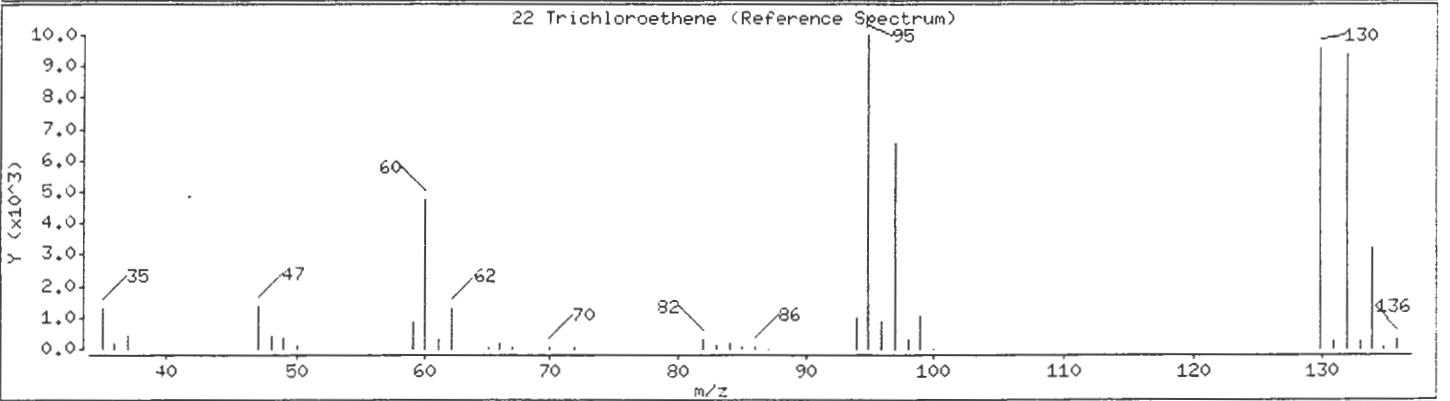
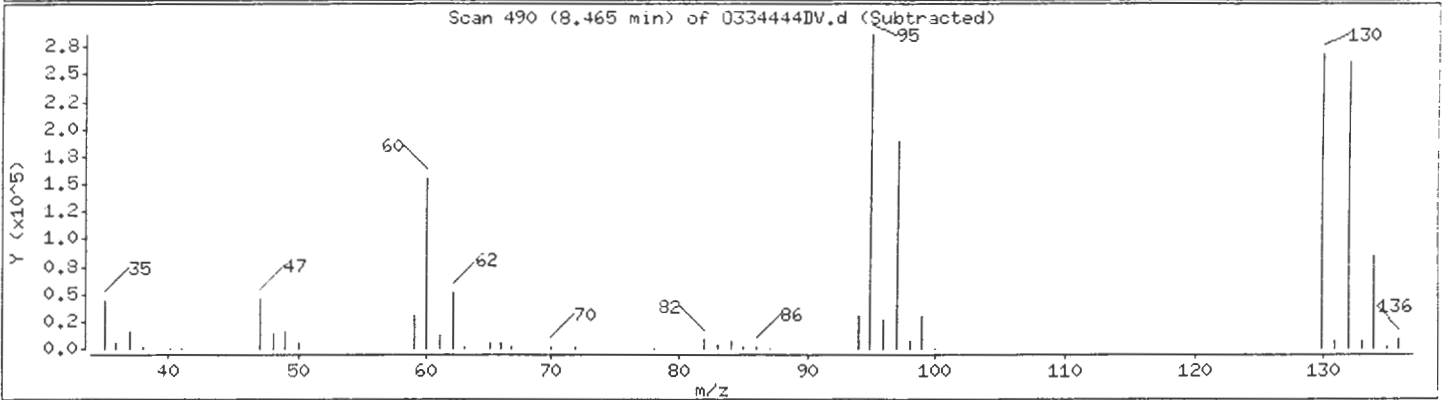
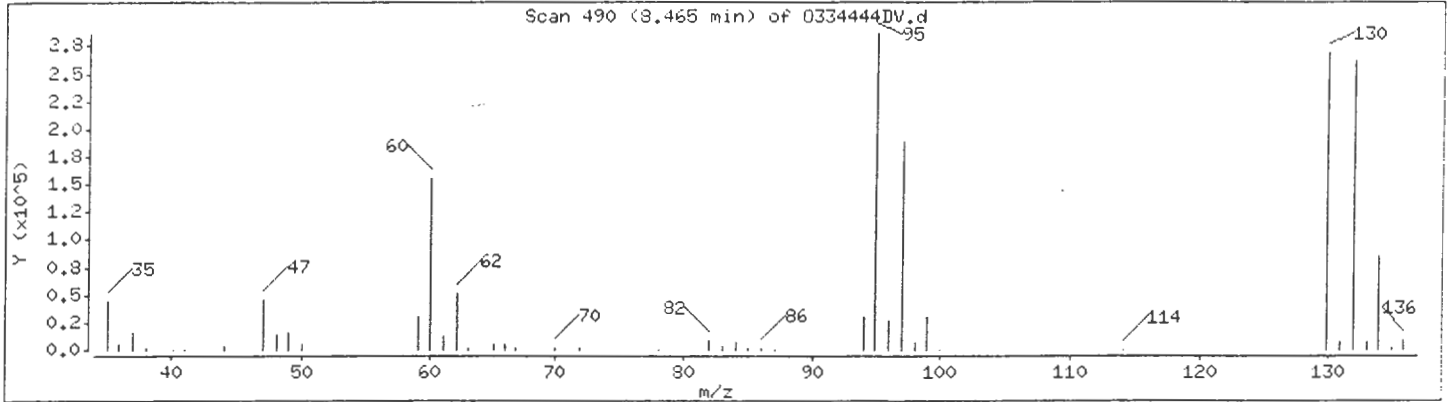
Operator: HTP

Column phase: CAP

Column diameter: 0.53

22 Trichloroethene

Concentration: 2900 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL123

Lab Name: ITS ENVIRONMENTAL

Contract: 93206

Lab Code: INCHVT

Case No.: 93206

SAS No.:

SDG No.: 65533

Matrix: (soil/water) WATER

Lab Sample ID: 334446

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: O334446DV

Level: (low/med) LOW

Date Received: 06/26/97

% Moisture: not dec. _____

Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 16.7

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	170	U
74-83-9	-----Bromomethane	170	U
75-01-4	-----Vinyl Chloride	70	J
75-00-3	-----Chloroethane	170	U
75-09-2	-----Methylene Chloride	170	U
67-64-1	-----Acetone	170	U
75-15-0	-----Carbon Disulfide	170	U
75-35-4	-----1,1-Dichloroethene	170	U
75-34-3	-----1,1-Dichloroethane	170	U
540-59-0	-----1,2-Dichloroethene (total)	2100	
67-66-3	-----Chloroform	170	U
107-06-2	-----1,2-Dichloroethane	170	U
78-93-3	-----2-Butanone	170	U
71-55-6	-----1,1,1-Trichloroethane	170	U
56-23-5	-----Carbon Tetrachloride	170	U
75-27-4	-----Bromodichloromethane	170	U
78-87-5	-----1,2-Dichloropropane	170	U
10061-01-5	-----cis-1,3-Dichloropropene	170	U
79-01-6	-----Trichloroethene	1400	
124-48-1	-----Dibromochloromethane	170	U
79-00-5	-----1,1,2-Trichloroethane	170	U
71-43-2	-----Benzene	170	U
10061-02-6	-----trans-1,3-Dichloropropene	170	U
75-25-2	-----Bromoform	170	U
108-10-1	-----4-Methyl-2-Pentanone	170	U
591-78-6	-----2-Hexanone	170	U
127-18-4	-----Tetrachloroethene	170	U
79-34-5	-----1,1,2,2-Tetrachloroethane	170	U
108-88-3	-----Toluene	170	U
108-90-7	-----Chlorobenzene	170	U
100-41-4	-----Ethylbenzene	170	U
100-42-5	-----Styrene	170	U
1330-20-7	-----Xylene (total)	170	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL123

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334446

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0334446DV

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 16.7

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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26.				
27.				
28.				
29.				
30.				

Date : 30-JUN-97 16:07:50

Client ID: AL123

Sample Info: L#334446 CLI#AL123 ETR#65533

Purge Volume: 5.0

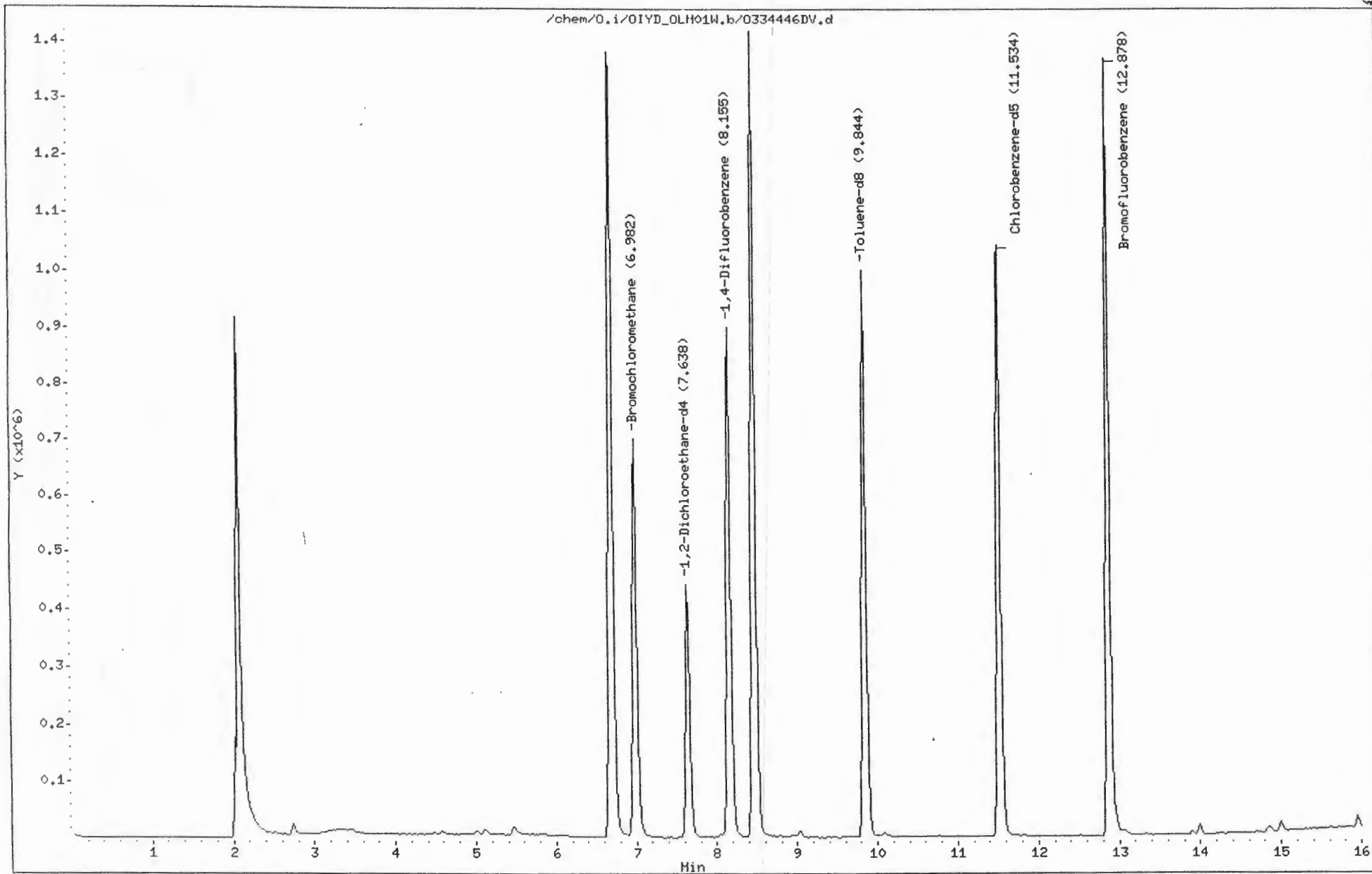
Column phase: CAP

Instrument: 0.i

Operator: HTP

Column diameter: 0.53

000196



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334446DV.d
 Lab Smp Id: 334446 Client Smp ID: AL123
 Inj Date : 30-JUN-97 16:07:50
 Operator : MTP Inst ID: O.i
 Smp Info : L#334446 CLI#AL123 ETR#65533
 Misc Info : 300UL/5.0ML
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 12
 Dil Factor: 16.66667
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vc	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	62	2.742	2.742	(0.393)	32648	4.23251	70(a)
3 Bromomethane	94.00						
4 Chloroethane	64.00						
5 Acetone	43.00						
6 1,1-Dichloroethene	96.00						
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene (total)	96				1068601	123.667	2100
11 1,1-Dichloroethane	63.00						
12 2-Butanone	43.00						
13 cis-1,2-Dichloroethene	96	6.706	6.708	(0.360)	1068601	123.438	2000
14 Chloroform	83.00						
* 15 Bromochloromethane	129	6.982	6.984	(1.000)	302564	50.0000	
16 1,1,1-Trichloroethane	97.00						

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
17 Carbon Tetrachloride	117.00							
\$ 18 1,2-Dichloroethane-d4	65		7.538	7.657	(1.094)	541478	49.9969	50 (a)
19 1,2-Dichloroethane	62.00							
20 Benzene	78.00							
* 21 1,4-Difluorobenzene	114		8.155	8.158	(1.000)	1274505	50.0000	
22 Trichloroethene	130		8.465	8.486	(1.038)	820471	81.4854	1400
23 1,2-Dichloropropane	63.00							
24 Bromodichloromethane	83.00							
25 4-Methyl-2-Pentanone	43.00							
26 cis-1,3-Dichloropropene	75.00							
\$ 27 Toluene-d8	98		9.844	9.866	(0.854)	1171018	45.8165	46 (a)
28 Toluene	91.00							
29 trans-1,3-Dichloropropene	75.00							
30 1,1,2-Trichloroethane	97.00							
31 2-Hexanone	43.00							
32 Tetrachloroethene	164.00							
33 Dibromochloromethane	129.00							
* 34 Chlorobenzene-d5	117		11.534	11.540	(1.000)	1101179	50.0000	
35 Chlorobenzene	112.00							
36 Ethylbenzene	106.00							
37 Xylene (m,p)	106.00							
M 38 Xylene (total)	106.00							
39 Xylene (o)	106.00							
40 Styrene	104.00							
41 Bromoform	173.00							
42 1,1,2,2-Tetrachloroethane	83.00							
\$ 43 Bromofluorobenzene	95		12.878	12.870	(1.117)	882974	46.1803	46 (a)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334446DV.d
Lab Smp Id: 334446 Client Smp ID: AL123
Inj Date : 30-JUN-97 16:07:50
Operator : MTP Inst ID: O.i
Smp Info : L#334446 CLI#AL123 ETR#65533
Misc Info : 300UL/5.0ML
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 12
Dil Factor: 16.66667
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Date : 30-JUN-97 16:07:50

Client ID: AL123

Instrument: 0.i

Sample Info: L#334446 CLI#AL123 ETR#65533

Purge Volume: 5.0

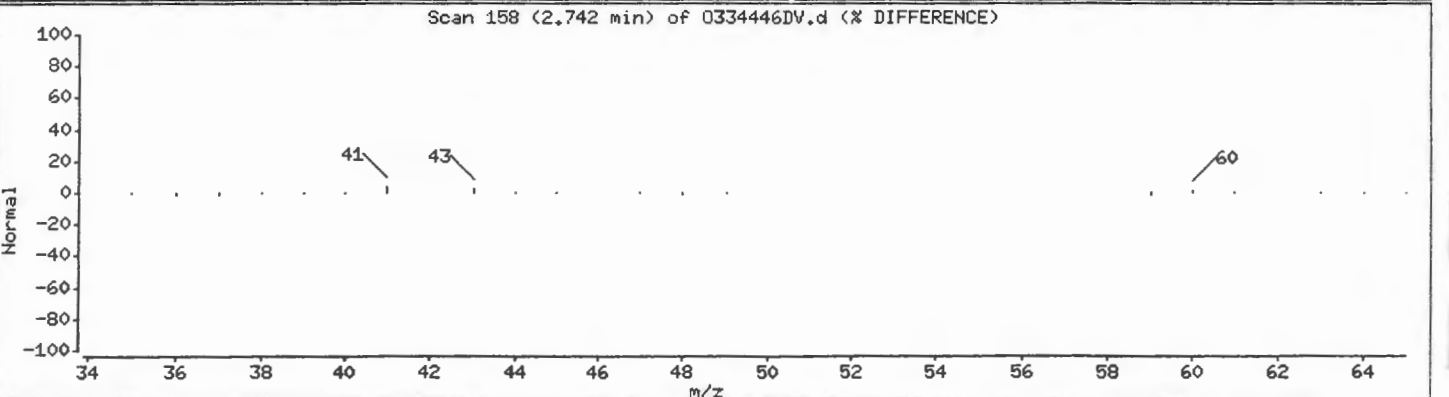
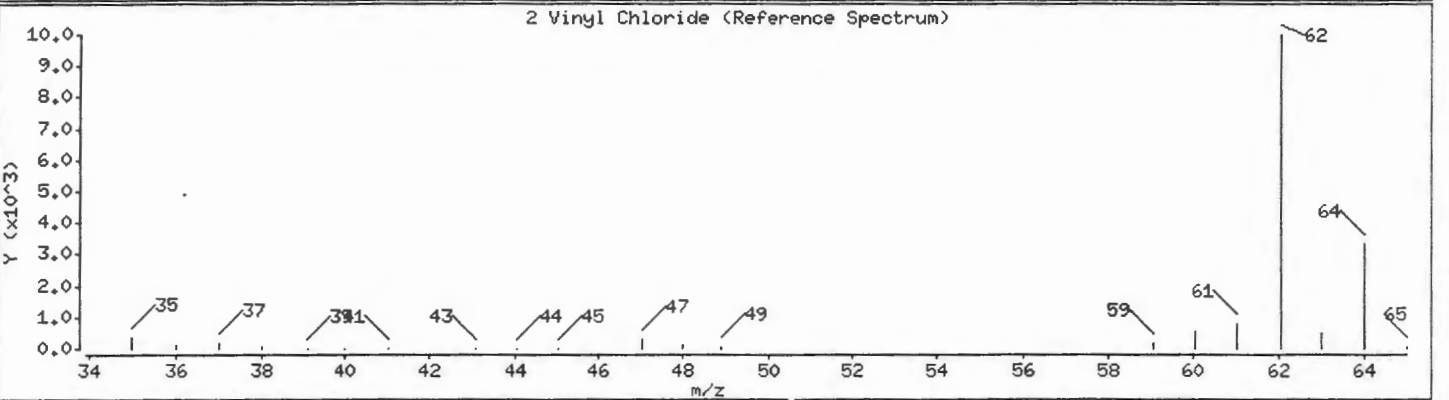
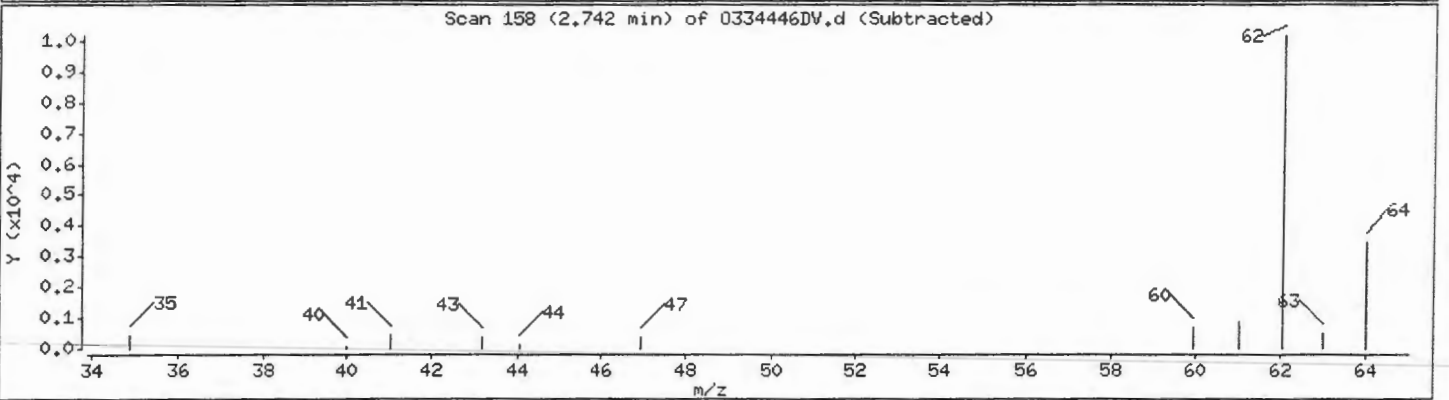
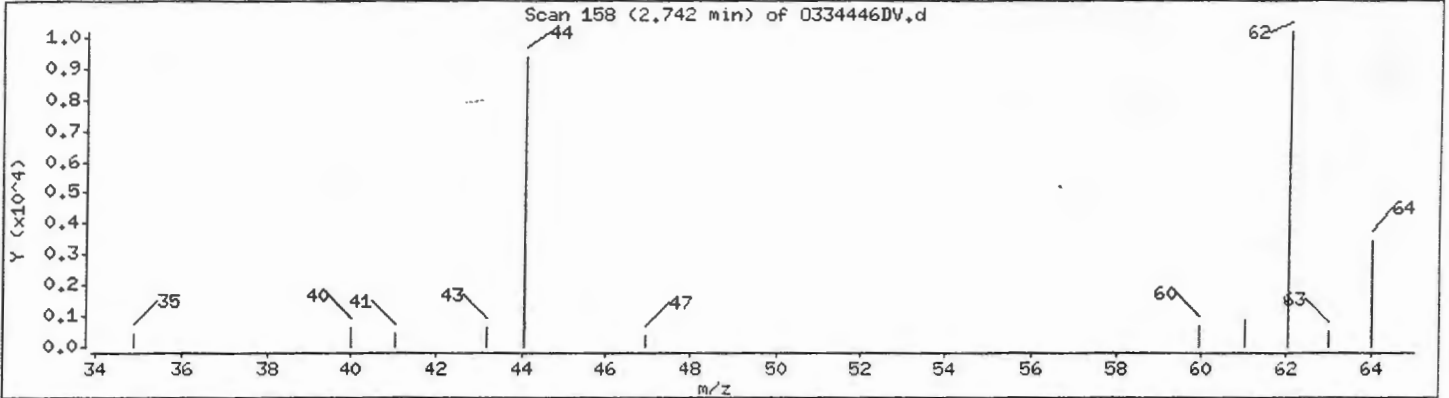
Operator: MTP

Column phase: CAP

Column diameter: 0.53

2 Vinyl Chloride

Concentration: 70 ug/L



Date : 30-JUN-97 16:07:50

Client ID: AL123

Instrument: 0.1

Sample Info: L#334446 CLI#AL123 ETR#65533

Purge Volume: 5.0

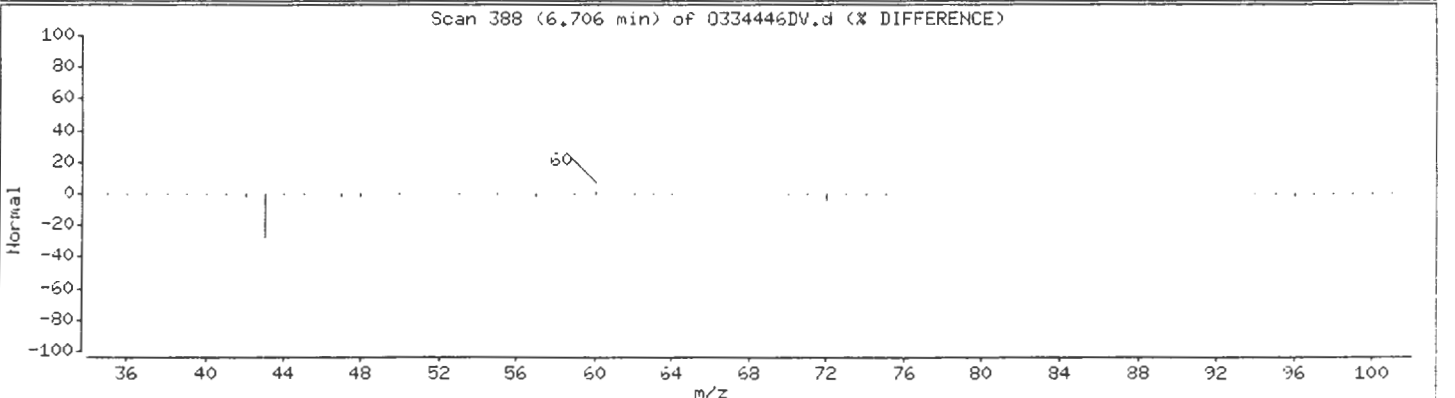
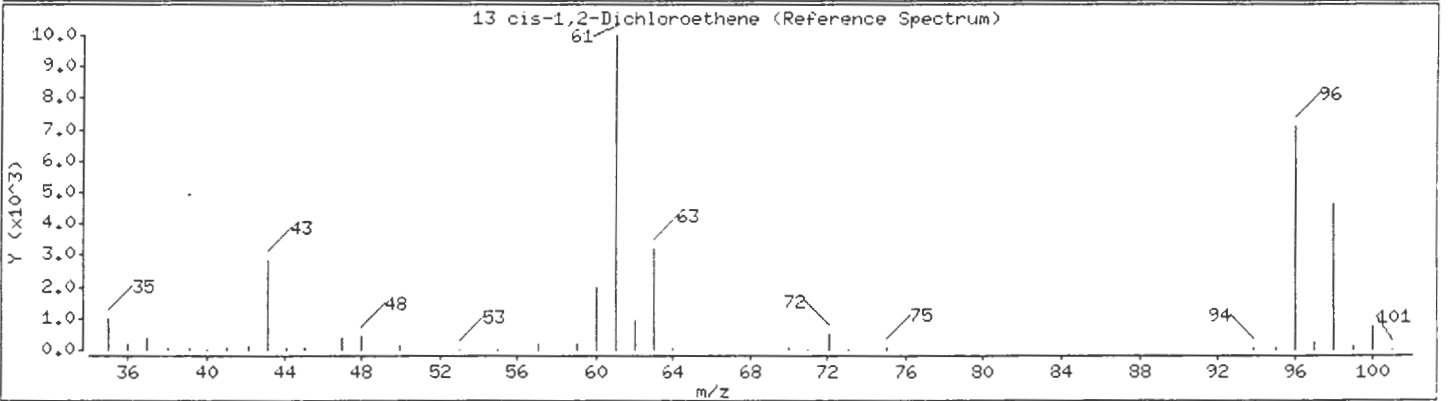
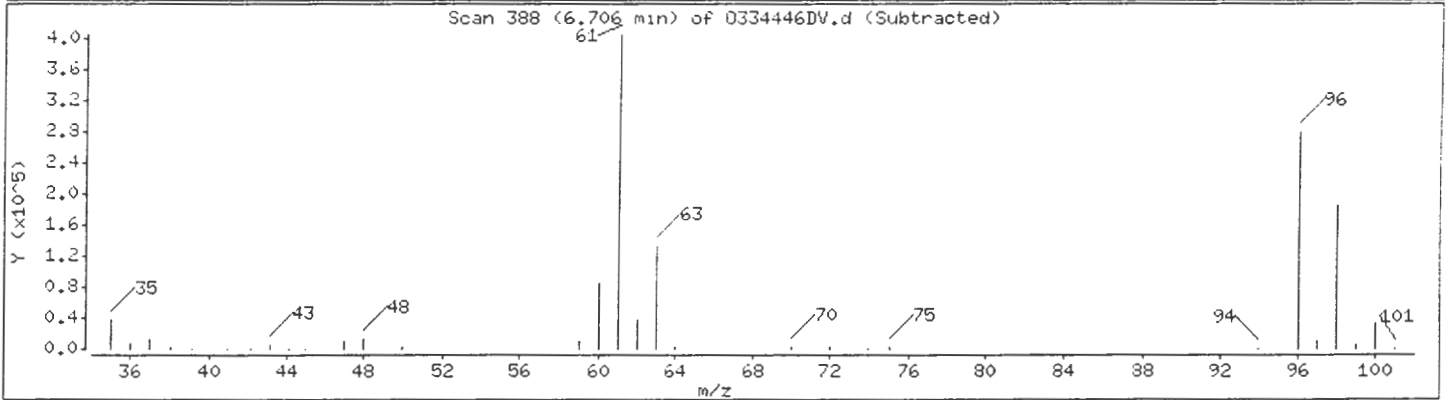
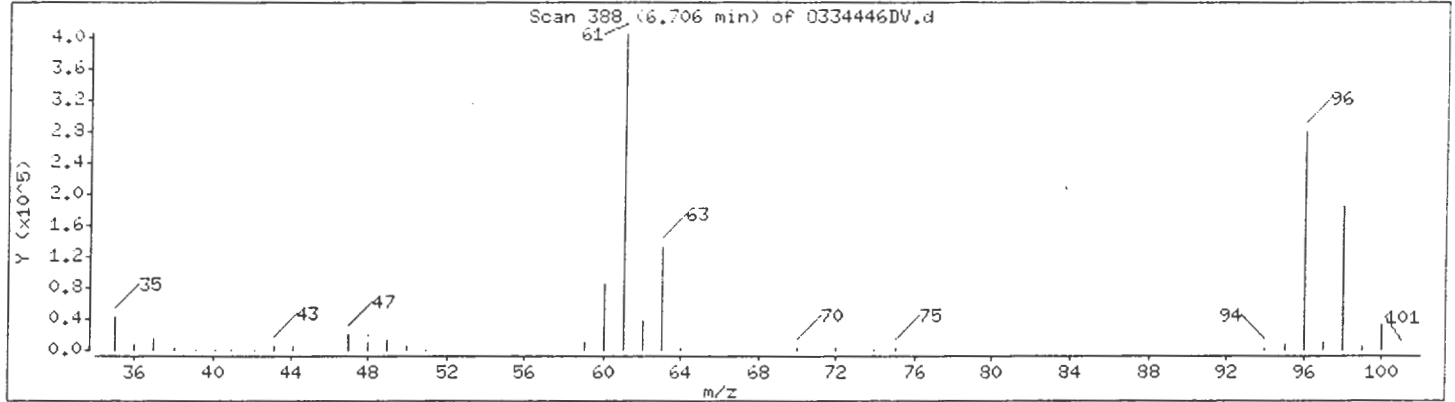
Operator: HTP

Column phase: CAP

Column diameter: 0.53

13 cis-1,2-Dichloroethene

Concentration: 2000 ug/L



Date : 30-JUN-97 16:07:50

Client ID: AL123

Instrument: 0.i

Sample Info: L#334446 CLI#AL123 ETR#65533

Purge Volume: 5.0

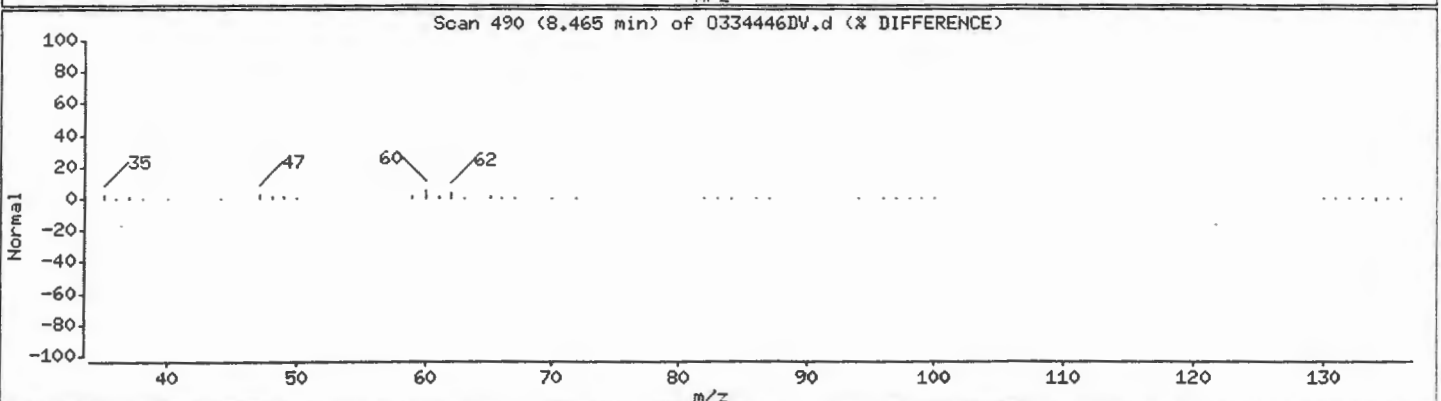
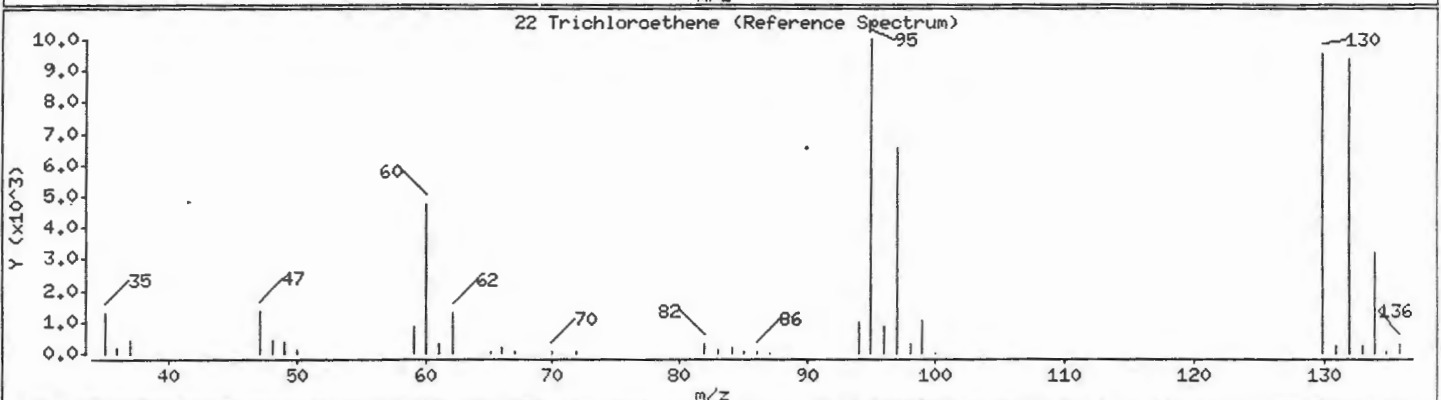
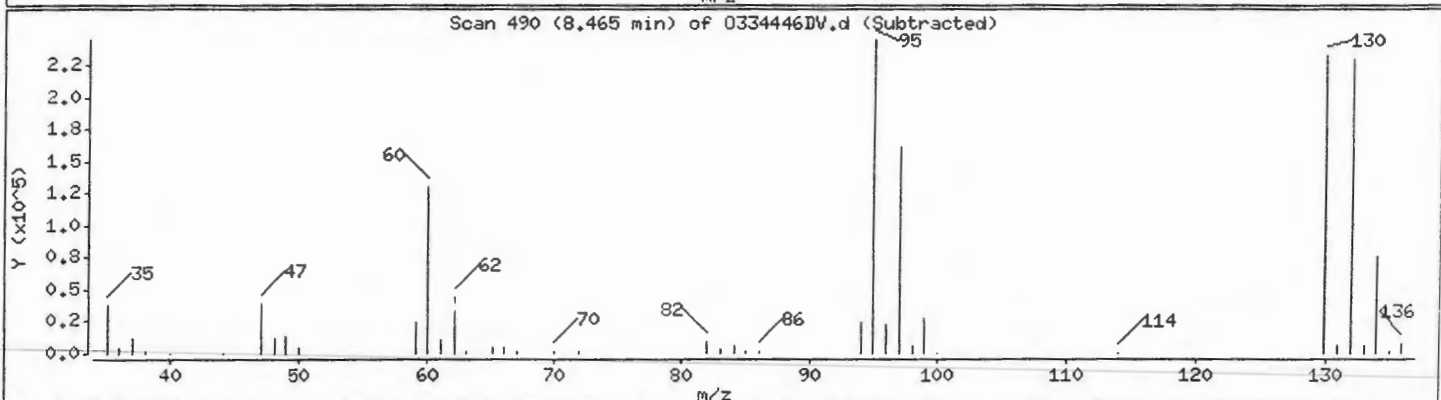
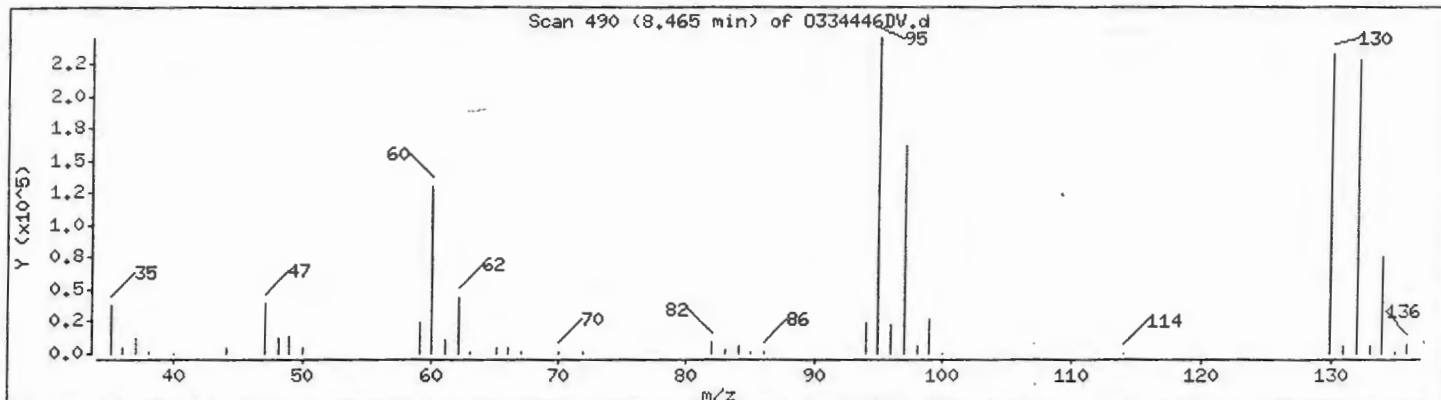
Operator: MTP

Column phase: CAP

Column diameter: 0.53

22 Trichloroethene

Concentration: 1400 ug/L



000202

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL113

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334448

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0334448V

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	150	
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	2	J
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	5	J
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

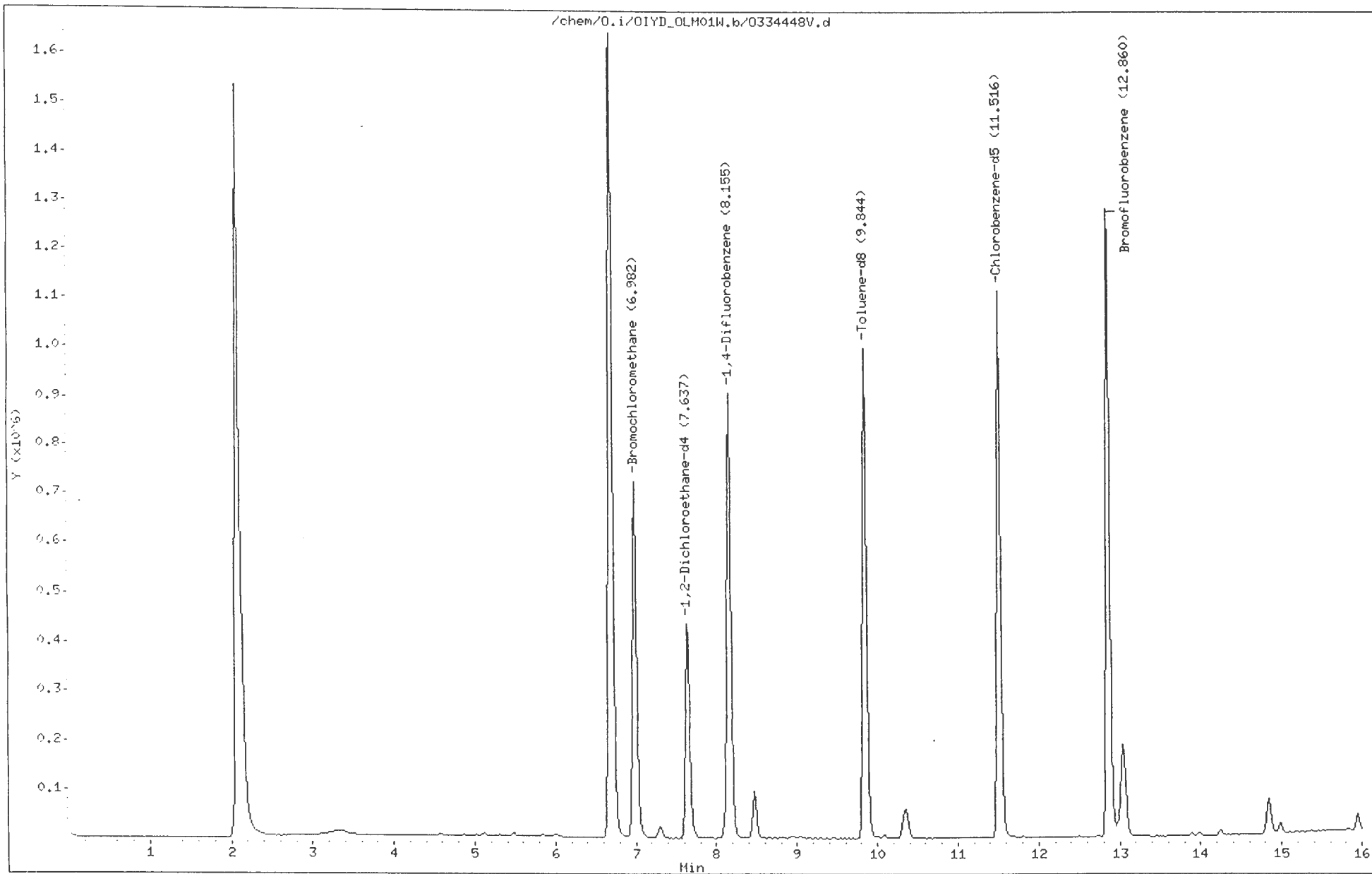
AL119

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Matrix: (soil/water) WATER Lab Sample ID: 334448
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334448V
 Level: (low/med) LOW Date Received: 06/26/97
 % Moisture: not dec. _____ Date Analyzed: 06/30/97
 GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE DERIVATIVE	13.03	8	J
2.				
3.				
4.				
5.				
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27.				
28.				
29.				
30.				

000205



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334448V.d
 Lab Smp Id: 334448 Client Smp ID: AL119
 Inj Date : 30-JUN-97 13:31:39
 Operator : MTP Inst ID: O.i
 Smp Info : L#334448 CLI#AL119 ETR#65533
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: $X * Uf / Vo$

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	62.00						
3 Bromomethane	94.00						
4 Chloroethane	64.00						
5 Acetone	43.00						
6 1,1-Dichloroethene	96.00						
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene (total)	96				1281876	147.338	150
11 1,1-Dichloroethane	63.00						
12 2-Butanone	43.00						
13 cis-1,2-Dichloroethene	96	5.706	6.708	(0.960)	1281876	147.064	150
14 Chloroform	83.00						
* 15 Bromochloromethane	128	6.982	6.984	(1.000)	304641	50.0000	
16 1,1,1-Trichloroethane	97	7.310	7.312	(0.896)	30146	1.92127	2(a)
17 Carbon Tetrachloride	117.00						

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							IN-COLUMN	FINAL
	MASS						ug/Li	ug/Li
=====	====		==	=====	=====	=====	=====	=====
\$ 18 1,2-Dichloroethane-d4	65		7.637	7.657	(1.094)	549897	50.4291	50
19 1,2-Dichloroethane	62.00		Compound Not Detected.					
20 Benzene	78.00		Compound Not Detected.					
* 21 1,4-Difluorobenzene	114		9.155	9.159	(1.000)	1066447	50.0000	
22 Trichloroethene	130		8.465	8.486	(1.038)	52211	5.21835	5.1a
23 1,2-Dichloropropane	63.00		Compound Not Detected.					
24 Bromodichloromethane	33.00		Compound Not Detected.					
25 4-Methyl-2-Pentanone	43.00		Compound Not Detected.					
26 cis-1,3-Dichloropropene	75.00		Compound Not Detected.					
\$ 27 Toluene-d8	98		9.844	9.866	(0.855)	1176458	46.2358	46
28 Toluene	91.00		Compound Not Detected.					
29 trans-1,3-Dichloropropene	75.00		Compound Not Detected.					
30 1,1,2-Trichloroethane	97.00		Compound Not Detected.					
31 2-Hexanone	43.00		Compound Not Detected.					
32 Tetrachloroethene	164.00		Compound Not Detected.					
33 Dibromochloromethane	129.00		Compound Not Detected.					
* 34 Chlorobenzene-d5	117		11.516	11.540	(1.000)	1096261	50.0000	
35 Chlorobenzene	112.00		Compound Not Detected.					
36 Ethylbenzene	106.00		Compound Not Detected.					
37 Xylene (m,p)	106.00		Compound Not Detected.					
M 38 Xylene (total)	106.00		Compound Not Detected.					
39 Xylene (o)	106.00		Compound Not Detected.					
40 Styrene	104.00		Compound Not Detected.					
41 Bromoform	173.00		Compound Not Detected.					
42 1,1,2,2-Tetrachloroethane	33.00		Compound Not Detected.					
\$ 43 Bromofluorobenzene	95		12.860	12.870	(1.117)	985642	46.5276	46

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334448V.d
Lab Smp Id: 334448 Client Smp ID: AL119
Inj Date : 30-JUN-97 13:31:39
Operator : MTP Inst ID: O.i
Smp Info : L#334448 CLI#AL119 ETR#65533
Misc Info : 100%
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

ISTD	RT	HEIGHT	AMOUNT
=====	====	=====	=====
* 34 Chlorobenzene-d5	11.516	1115519	50.000

CONCENTRATIONS				QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	-----	-----	-----	----	-----	-----	-----
Unknown siloxane derivative							
13.033	186118	8.34221560	8	0		0	34

Date : 30-JUN-97 13:31:39

Client ID: AL119

Instrument: D.1

Sample Info: L#334448 CLI#AL119 ETR#65533

Purge Volume: 5.0

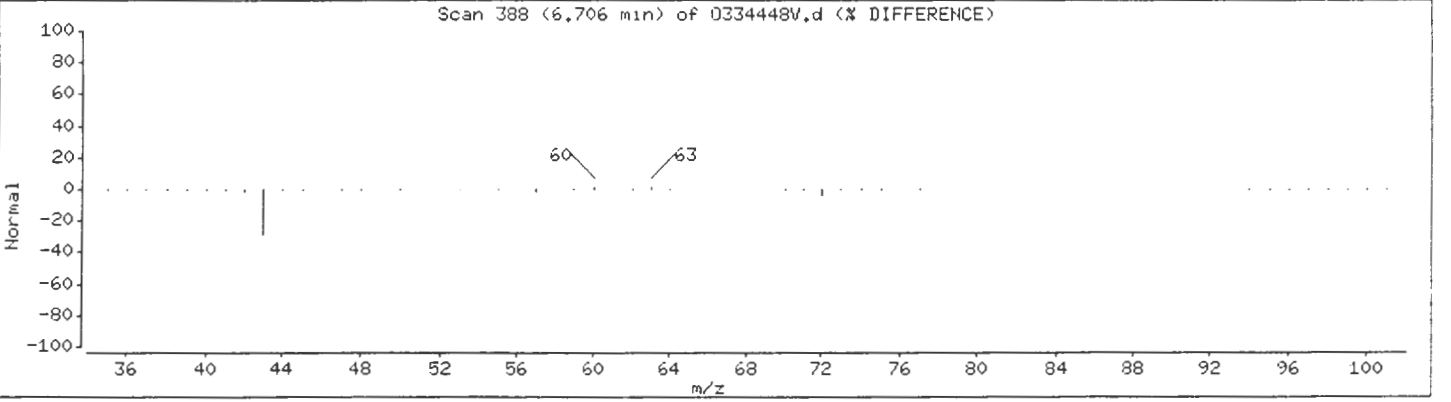
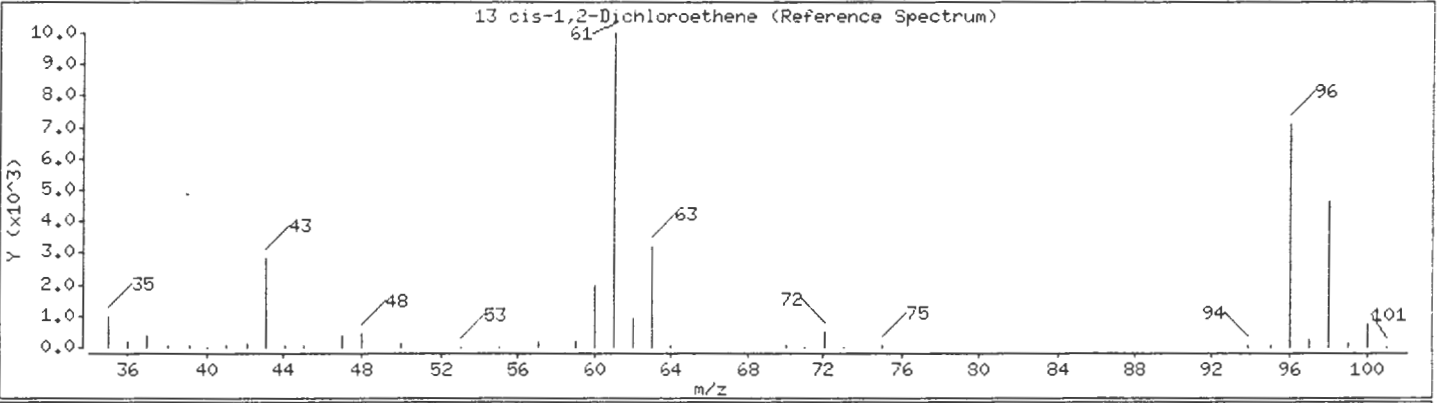
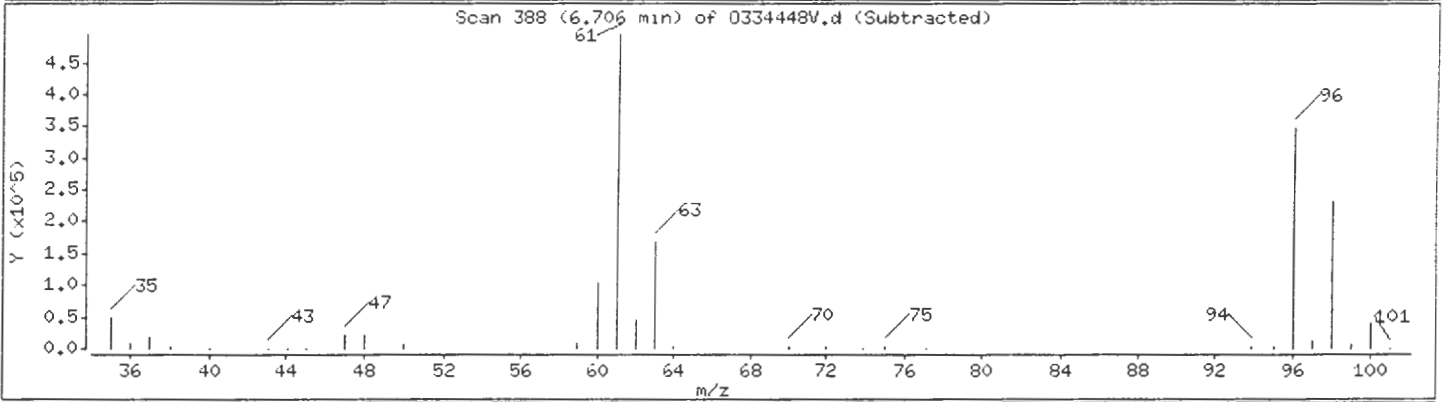
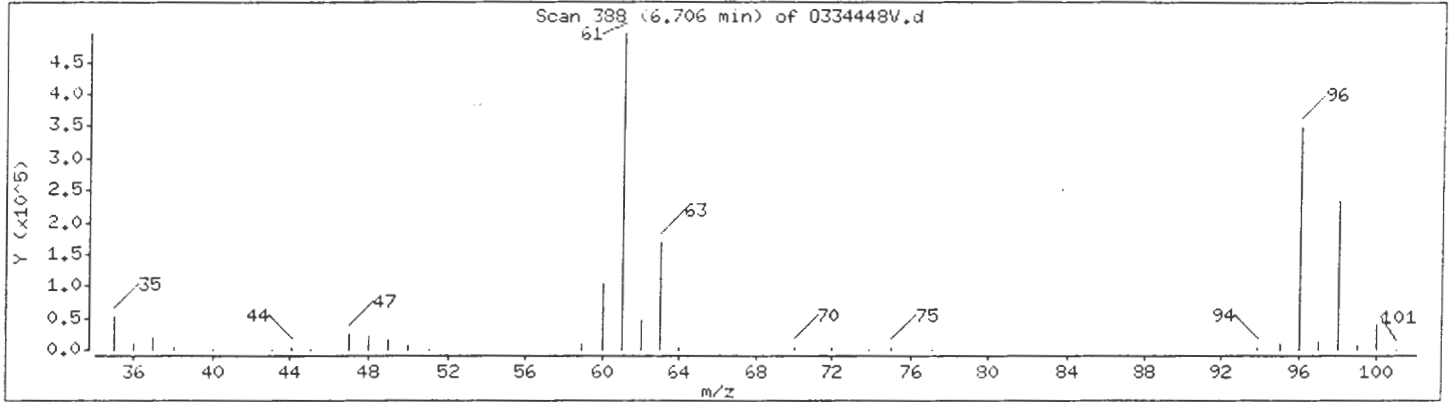
Operator: MTP

Column phase: CAP

Column diameter: 0.53

13 cis-1,2-Dichloroethene

Concentration: 150 ug/L



Date : 30-JUN-97 13:31:39

Client ID: AL119

Instrument: 0.i

Sample Info: L#334448 CLI#AL119 ETR#65533

Purge Volume: 5.0

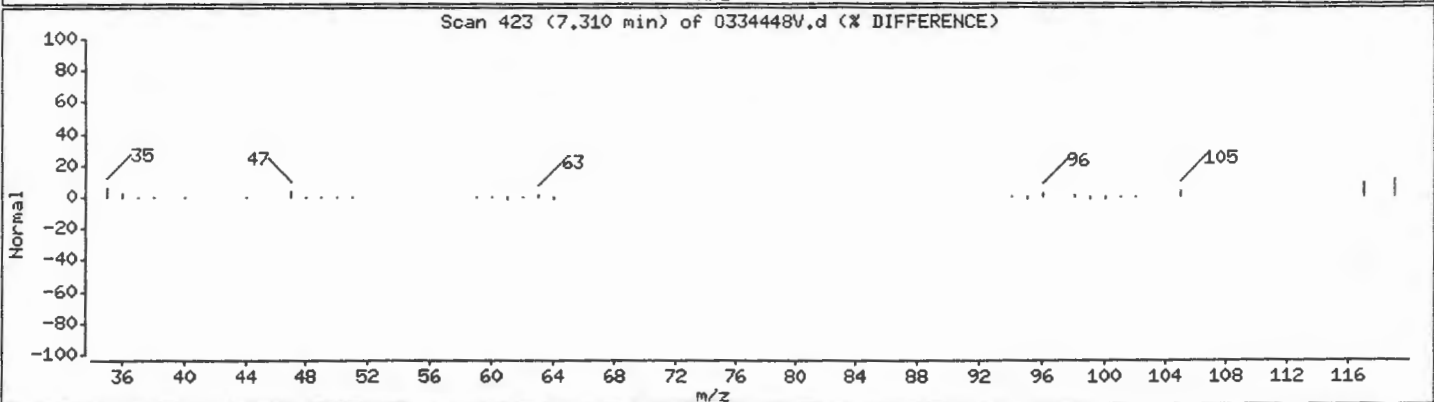
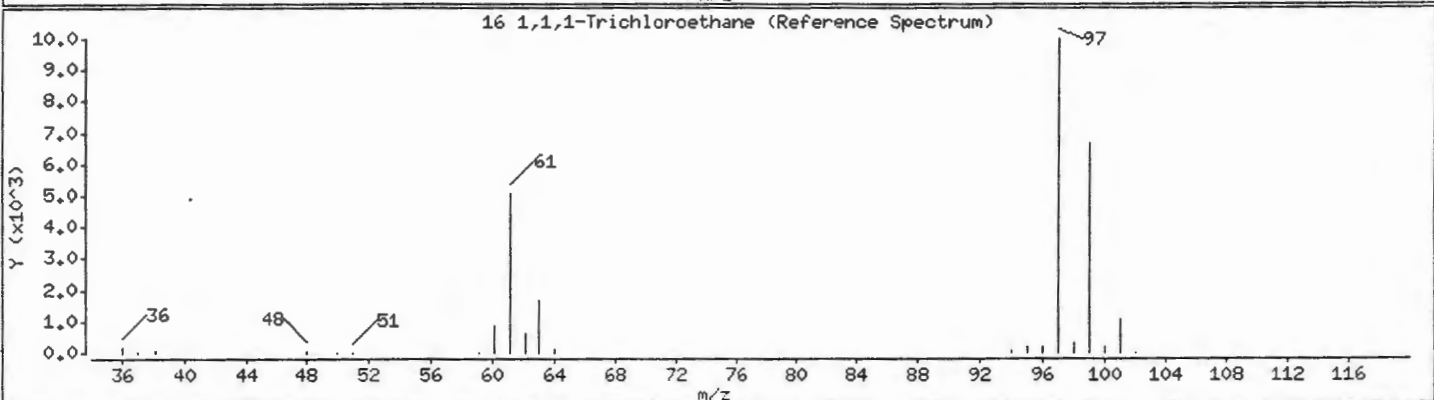
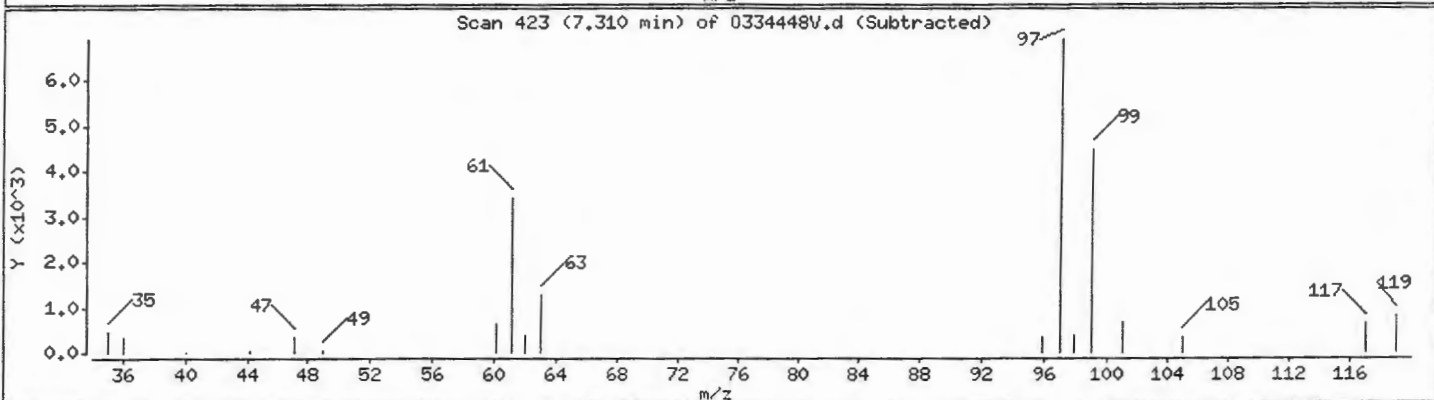
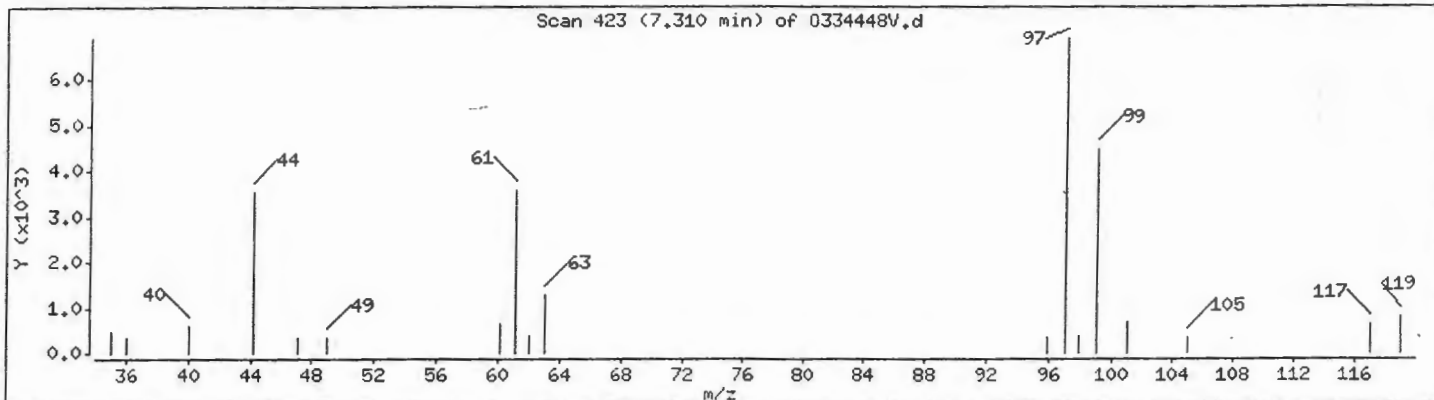
Operator: MTP

Column phase: CAP

Column diameter: 0.53

16 1,1,1-Trichloroethane

Concentration: 2 ug/L



Date : 30-JUN-97 13:31:39

Client ID: AL119

Instrument: 0.1

Sample Info: L#334448 CLI#AL119 ETR#65533

Purge Volume: 5.0

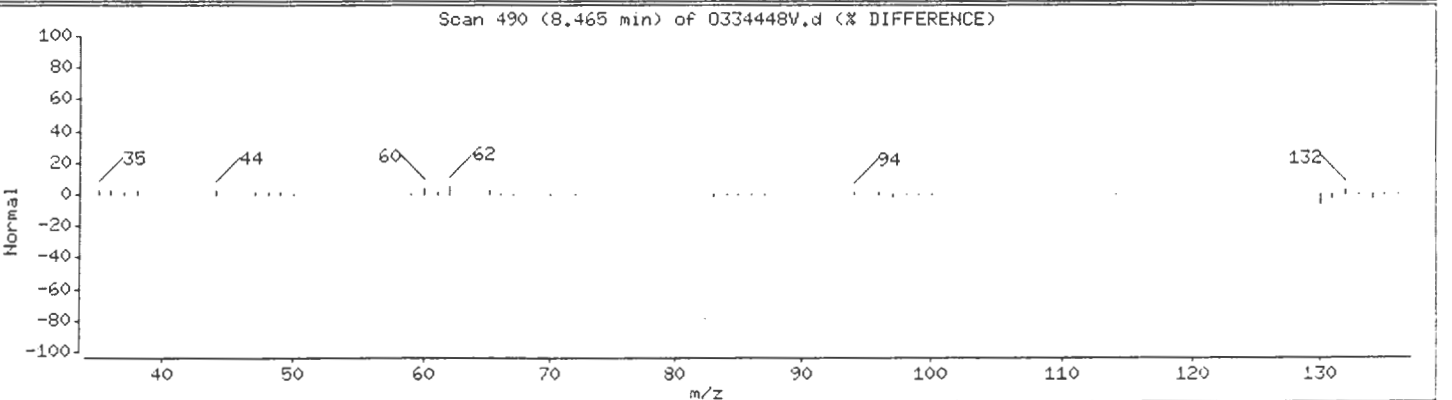
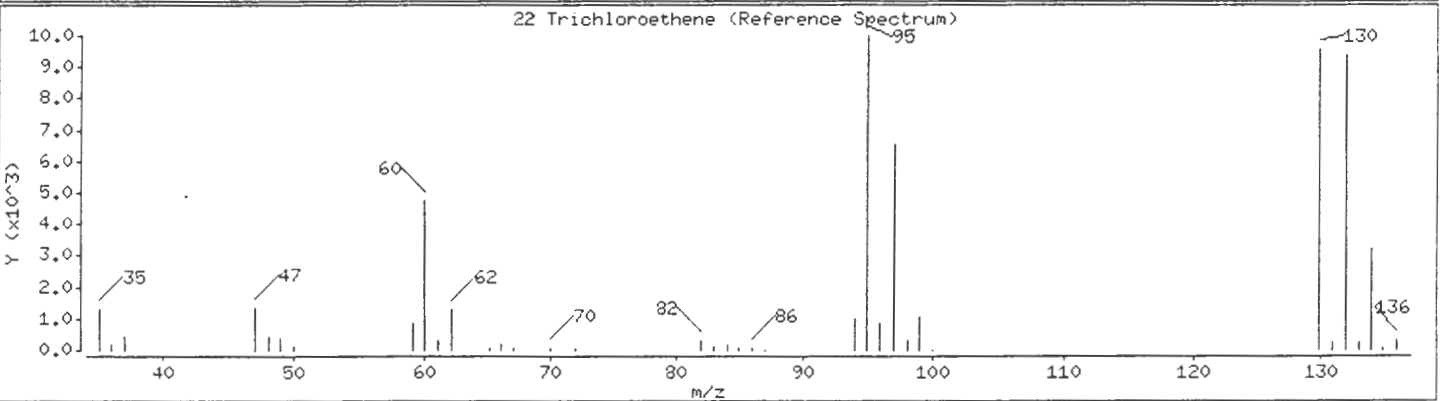
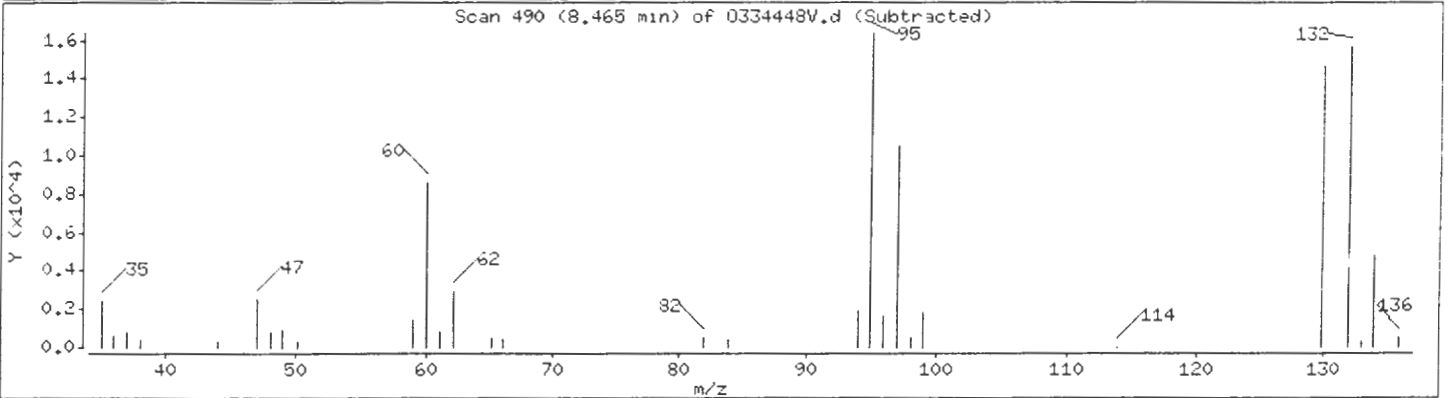
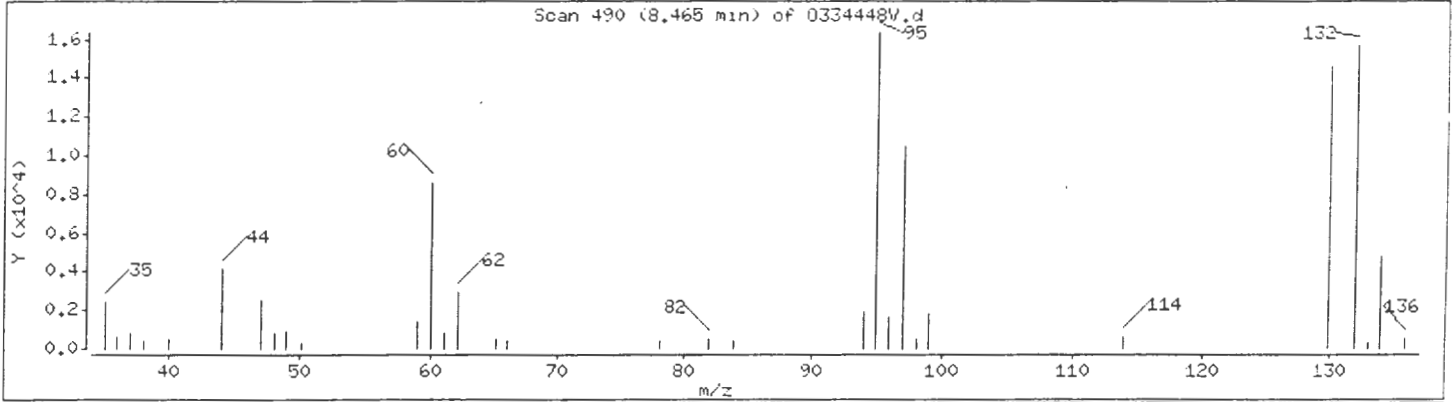
Operator: HTP

Column phase: CAP

Column diameter: 0.53

22 Trichloroethene

Concentration: 5 ug/L



Date : 30-JUN-97 13:31:39

Client ID: AL119

Instrument: O.i

Sample Info: L#334448 CLI#AL119 ETR#65533

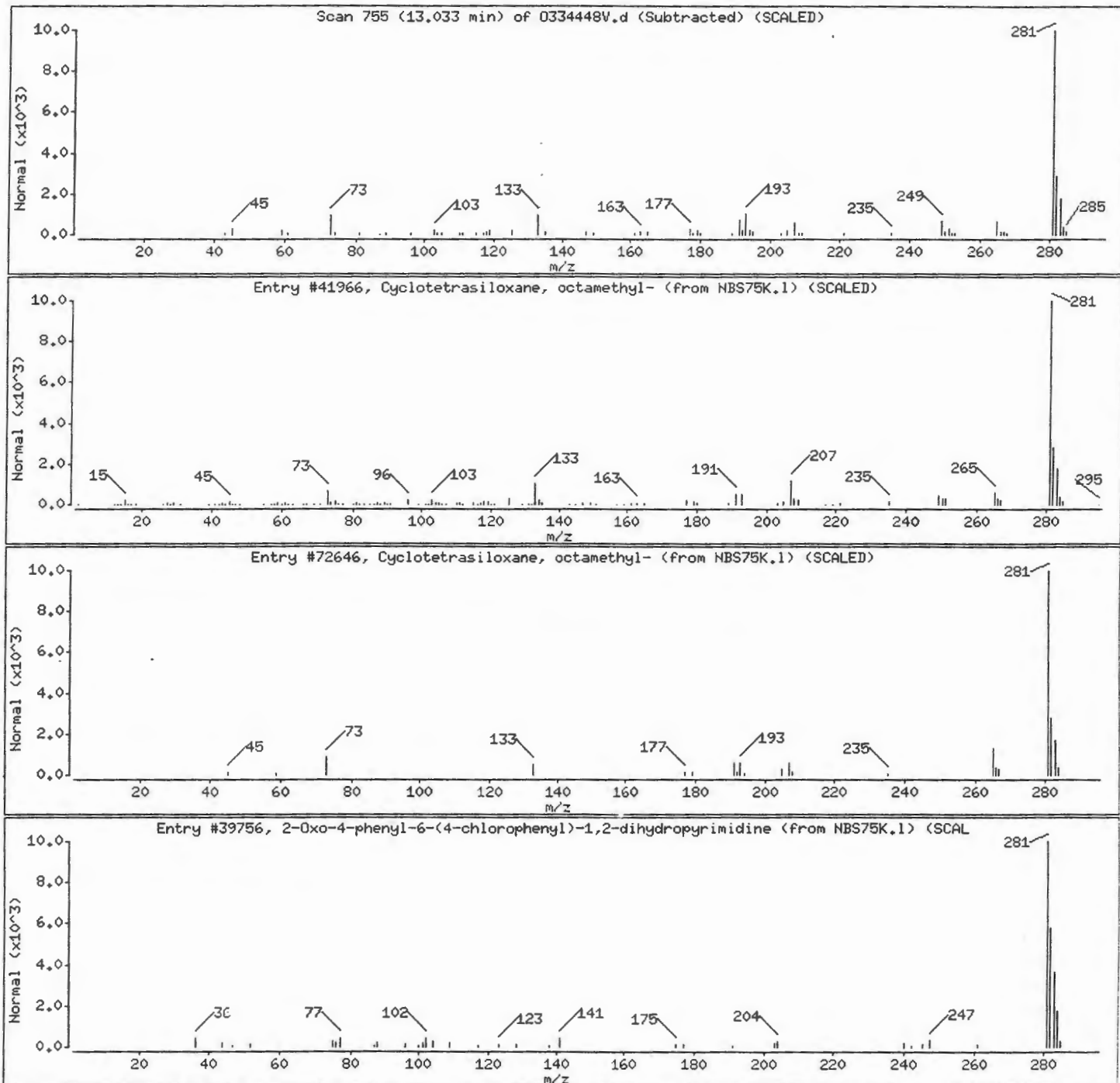
Purge Volume: 5.0

Operator: MTP

Column phase: CAP

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown siloxane derivative						
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.1	41966	86	C8H24O4Si4	296
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.1	72646	83	C8H24O4Si4	296
2-Oxo-4-phenyl-6-(4-chlorophenyl)-1,2-di	0-00-0	NBS75K.1	39756	9	C16H11ClN2O	282



LA
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL100

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93205 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334450

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334450V

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	140	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	2	J
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	5	J
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL120

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334450

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334450V

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

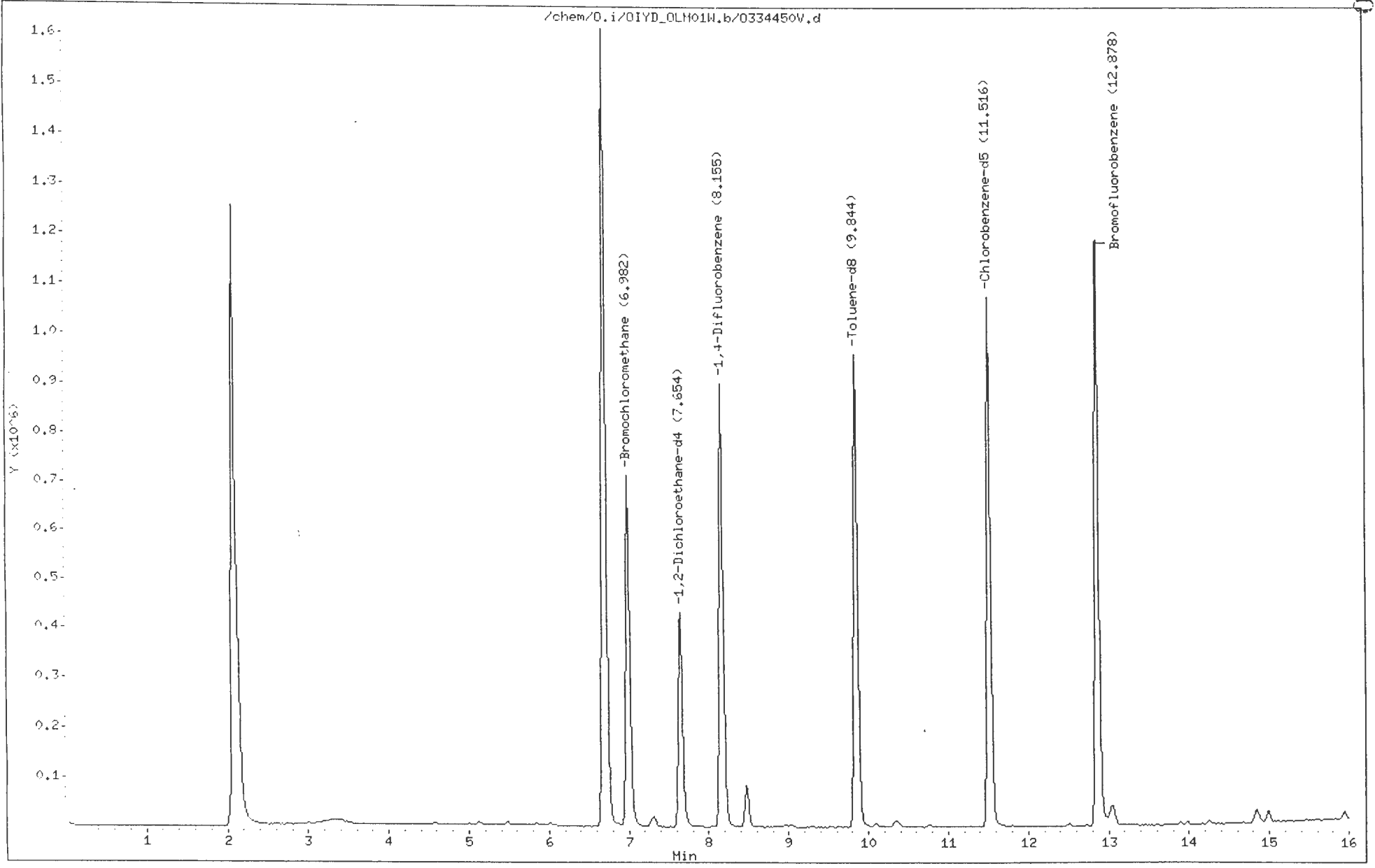
Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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29.				
30.				

Data File: /chem/0.i/01YD_OLH01W.b/0334450V.d
Date : 30-JUN-97 13:57:28
Client ID: AL120
Sample Info: L#334450 CLI#AL120 ETP#65533
Purge Volume: 5.0
Column phase: CAP

Instrument: 0.i
Operator: HTP
Column diameter: 0.53

000015



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334450V.d
 Lab Smp Id: 334450 Client Smp ID: AL120
 Inj Date : 30-JUN-97 13:57:28
 Operator : MTP Inst ID: O.i
 Smp Info : L#334450 CLI#AL120 ETR#65533
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	62.00						
3 Bromomethane	94.00						
4 Chloroethane	64.00						
5 Acetone	43.00						
6 1,1-Dichloroethene	96.00						
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene (total)	96				1184014	139.125	140
11 1,1-Dichloroethane	63.00						
12 2-Butanone	43.00						
13 cis-1,2-Dichloroethene	96	6.706	6.708	(0.960)	1184014	138.867	140
14 Chloroform	83.00						
* 15 Bromochloromethane	128	6.982	6.984	(1.000)	297994	50.0000	
16 1,1,1-Trichloroethane	97	7.310	7.312	(0.896)	27278	1.77891	2 (a)
17 Carbon Tetrachloride	117.00						

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 13 1,2-Dichloroethane-d4		65	7.654	7.657	(1.096)	539002	50.5315	50
19 1,2-Dichloroethane		62.00	Compound Not Detected.					
20 Benzene		78.00	Compound Not Detected.					
* 21 1,4-Difluorobenzene		114	8.155	8.159	(1.000)	1237672	50.0000	
22 Trichloroethene		130	8.482	8.486	(1.040)	48216	4.93110	5'a
23 1,2-Dichloropropane		63.00	Compound Not Detected.					
24 Bromodichloromethane		83.00	Compound Not Detected.					
25 4-Methyl-2-Pentanone		43.00	Compound Not Detected.					
26 cis-1,3-Dichloropropene		75.00	Compound Not Detected.					
\$ 27 Toluene-d8		98	9.844	9.866	(0.355)	1143968	46.6581	47
28 Toluene		91.00	Compound Not Detected.					
29 trans-1,3-Dichloropropene		75.00	Compound Not Detected.					
30 1,1,2-Trichloroethane		97.00	Compound Not Detected.					
31 2-Hexanone		43.00	Compound Not Detected.					
32 Tetrachloroethene		164.00	Compound Not Detected.					
33 Dibromochloromethane		129.00	Compound Not Detected.					
* 34 Chlorobenzene-d5		117	11.516	11.540	(1.000)	1056339	50.0000	
35 Chlorobenzene		112.00	Compound Not Detected.					
36 Ethylbenzene		106.00	Compound Not Detected.					
37 Xylene m,p		106.00	Compound Not Detected.					
M 38 Xylene (total)		106.00	Compound Not Detected.					
39 Xylene (o)		106.00	Compound Not Detected.					
40 Styrene		104.00	Compound Not Detected.					
41 Bromoform		173.00	Compound Not Detected.					
42 1,1,2,2-Tetrachloroethane		83.00	Compound Not Detected.					
\$ 43 Bromofluorobenzene		95	12.360	12.370	(1.117)	840187	45.8078	46

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334450V.d
Lab Smp Id: 334450 Client Smp ID: AL120
Inj Date : 30-JUN-97 13:57:28
Operator : MTP Inst ID: O.i
Smp Info : L#334450 CLI#AL120 ETR#65533
Misc Info : 100%
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Date : 30-JUN-97 13:57:28

Client ID: AL120

Instrument: 0.1

Sample Info: L#334450 CLI#AL120 ETR#65533

Purge Volume: 5.0

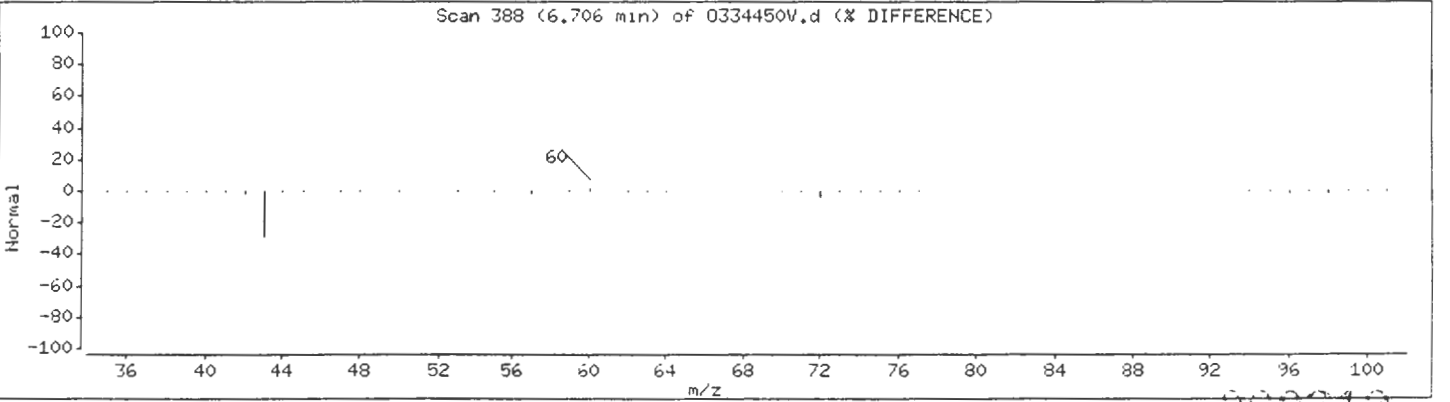
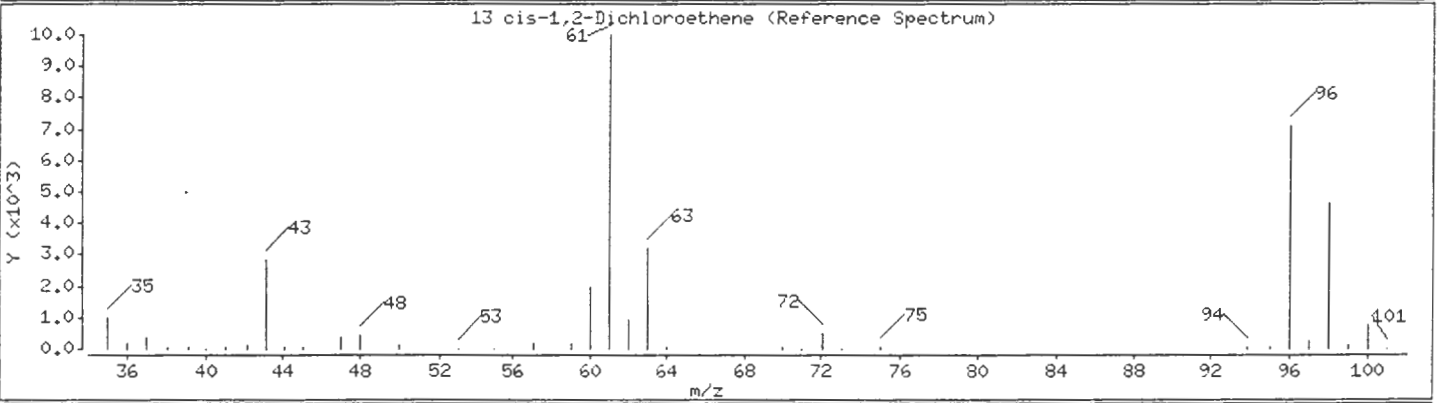
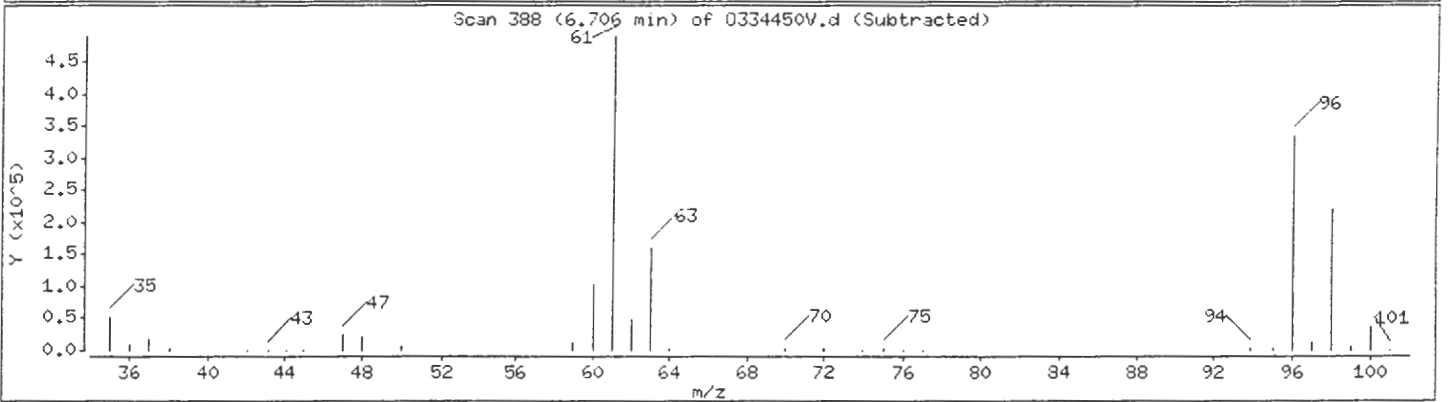
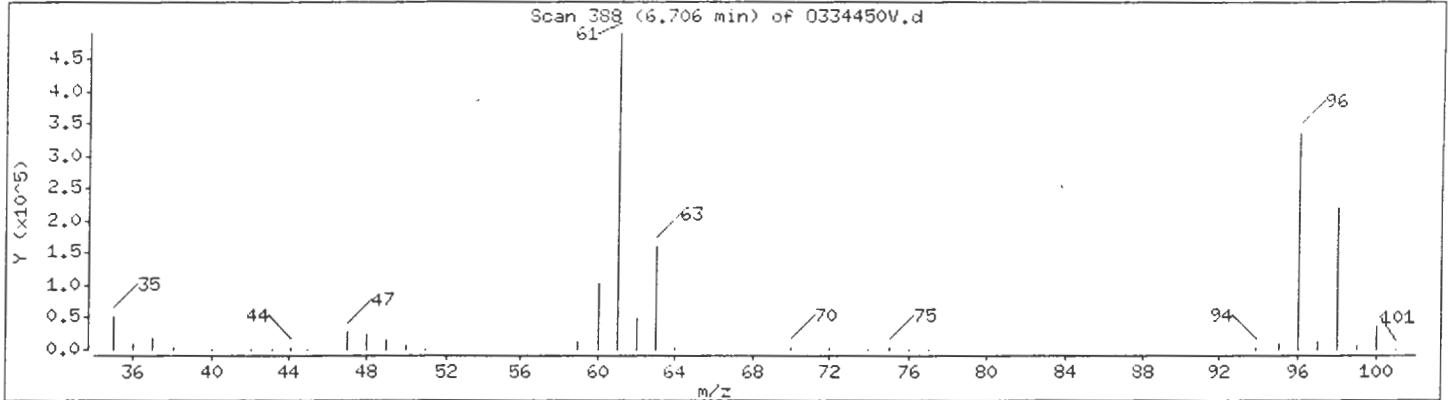
Operator: HTP

Column phase: CAP

Column diameter: 0.53

13 cis-1,2-Dichloroethene

Concentration: 140 ug/L



000213

Date : 30-JUN-97 13:57:28

Client ID: AL120

Instrument: 0.i

Sample Info: L#334450 CLI#AL120 ETR#65533

Purge Volume: 5.0

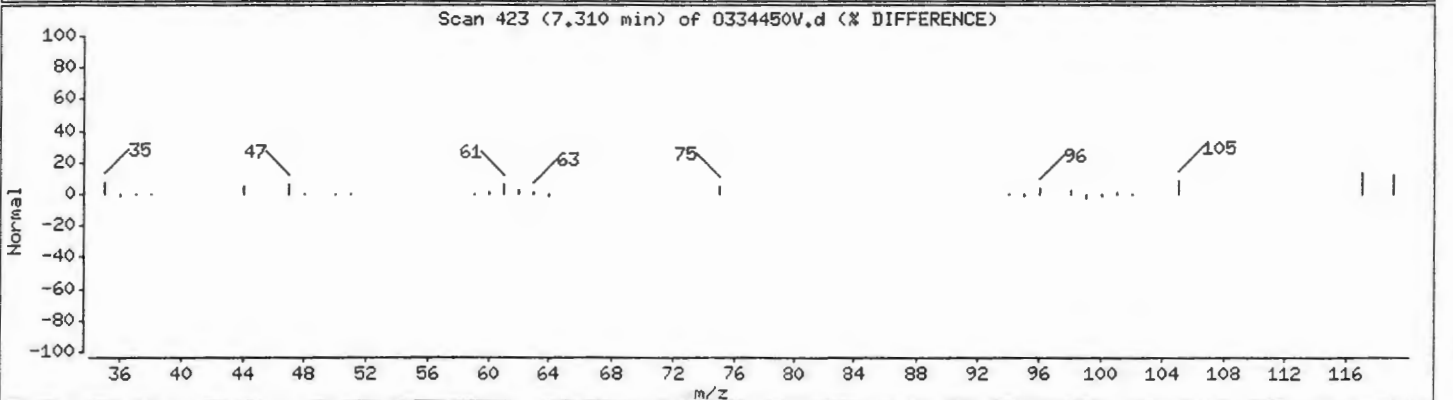
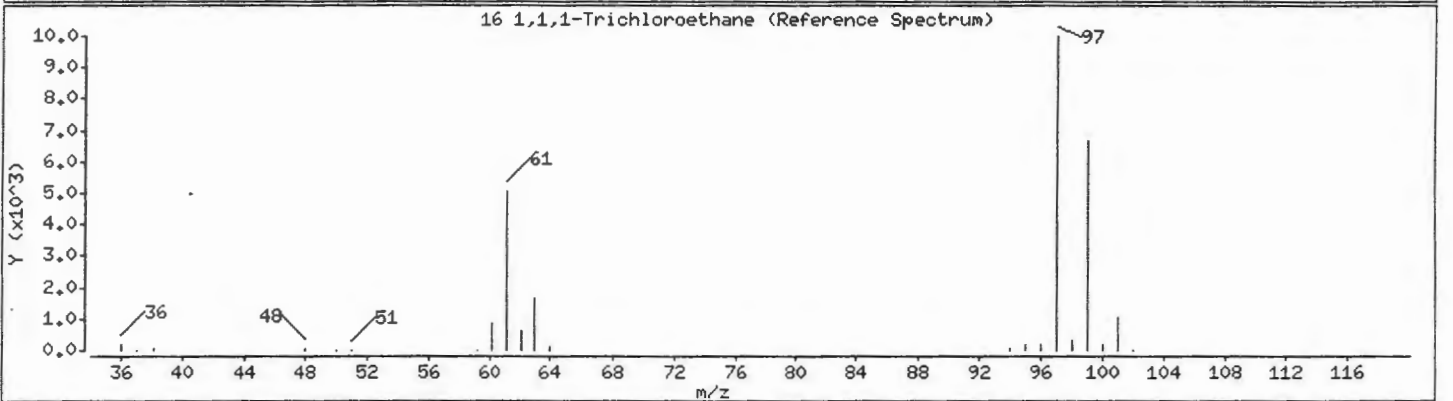
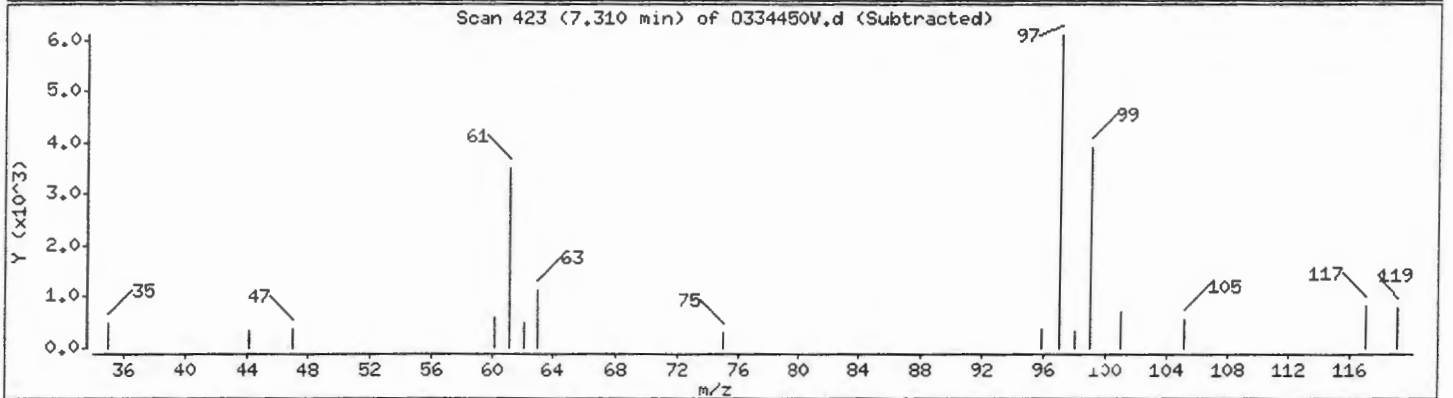
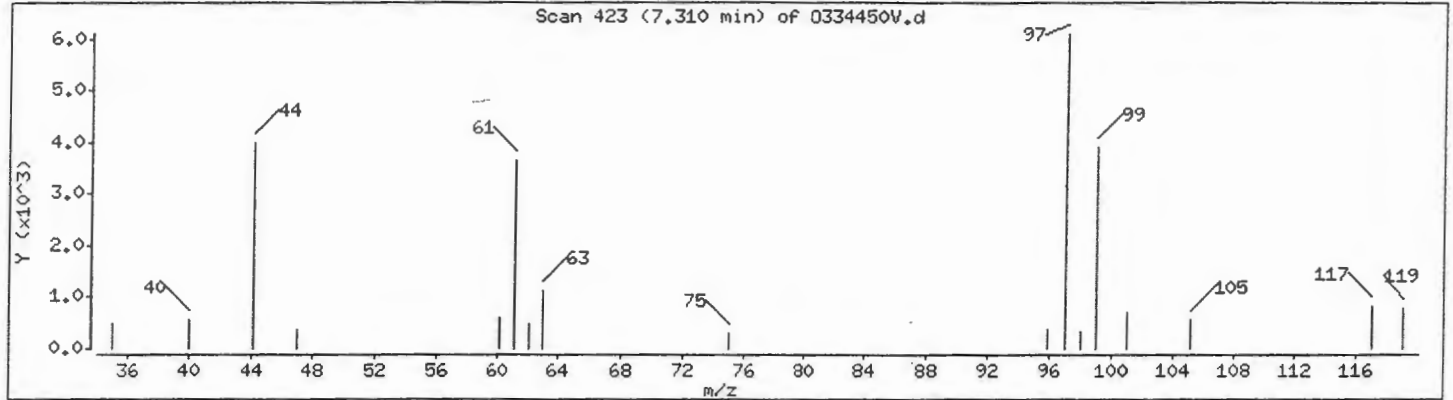
Operator: MTP

Column phase: CAP

Column diameter: 0.53

16 1,1,1-Trichloroethane

Concentration: 2 ug/L



Date : 30-JUN-97 13:57:28

Client ID: AL120

Instrument: 0.1

Sample Info: L#334450 CLI#AL120 ETR#65533

Purge Volume: 5.0

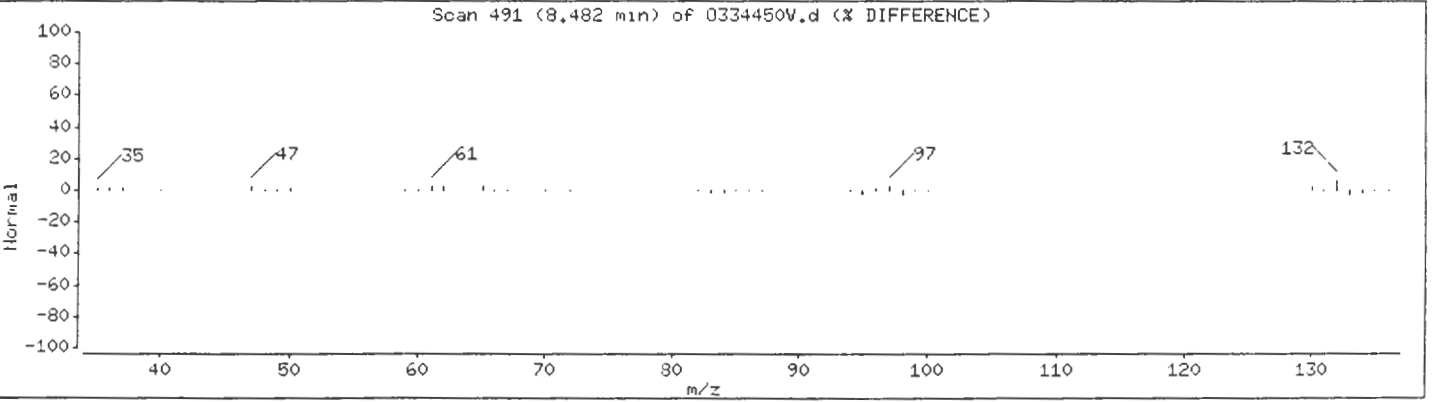
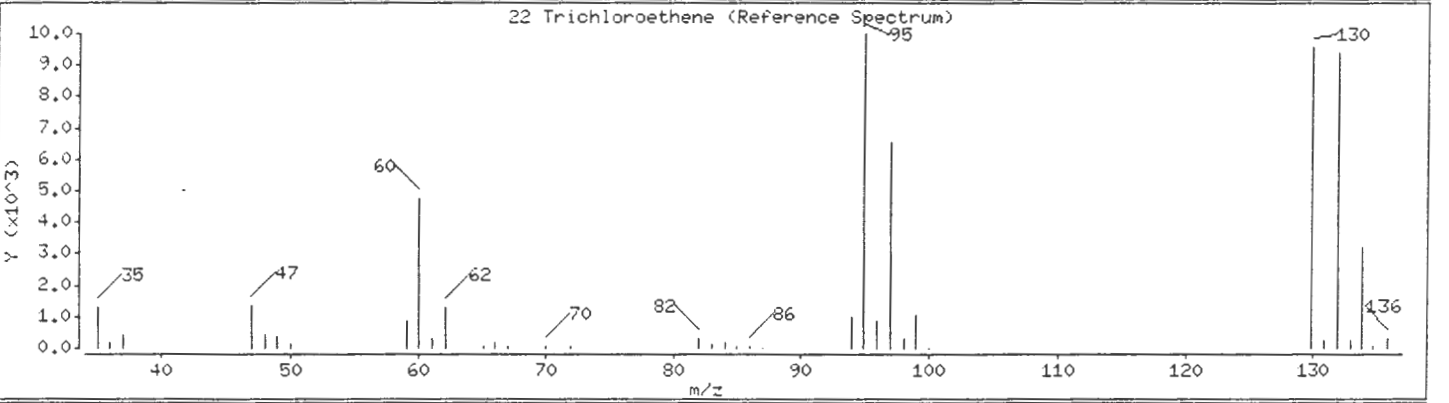
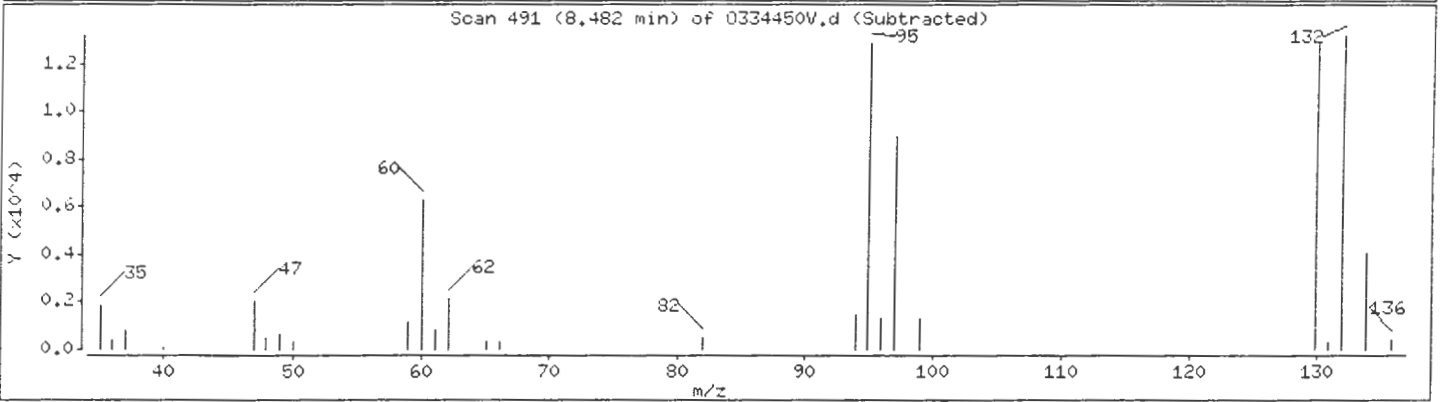
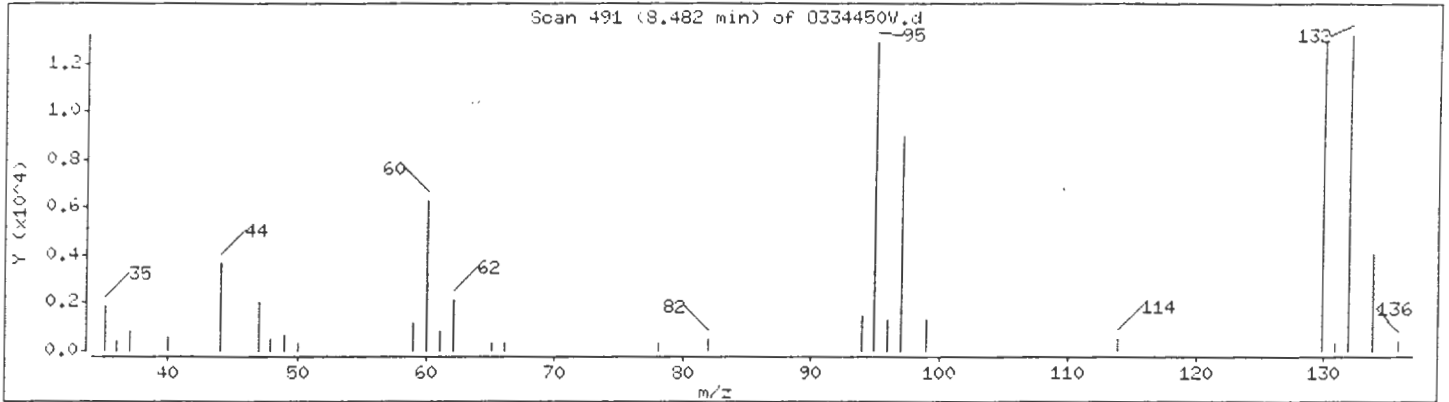
Operator: HTP

Column phase: CAP

Column diameter: 0.53

22 Trichloroethene

Concentration: 5 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL125

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334452

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0334452DV

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 5.6

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	56	U
74-83-9	Bromomethane	56	U
75-01-4	Vinyl Chloride	170	U
75-00-3	Chloroethane	56	U
75-09-2	Methylene Chloride	56	U
67-64-1	Acetone	47	J
75-15-0	Carbon Disulfide	56	U
75-35-4	1,1-Dichloroethene	56	U
75-34-3	1,1-Dichloroethane	56	U
540-59-0	1,2-Dichloroethene (total)	610	U
67-66-3	Chloroform	56	U
107-06-2	1,2-Dichloroethane	56	U
78-93-3	2-Butanone	130	U
71-55-6	1,1,1-Trichloroethane	56	U
56-23-5	Carbon Tetrachloride	56	U
75-27-4	Bromodichloromethane	56	U
78-87-5	1,2-Dichloropropane	56	U
10061-01-5	cis-1,3-Dichloropropene	56	U
79-01-6	Trichloroethene	20	J
124-48-1	Dibromochloromethane	56	U
79-00-5	1,1,2-Trichloroethane	56	U
71-43-2	Benzene	56	U
10061-02-6	trans-1,3-Dichloropropene	56	U
75-25-2	Bromoform	56	U
108-10-1	4-Methyl-2-Pentanone	56	U
591-78-6	2-Hexanone	56	U
127-18-4	Tetrachloroethene	56	U
79-34-5	1,1,2,2-Tetrachloroethane	56	U
108-88-3	Toluene	56	U
108-90-7	Chlorobenzene	56	U
100-41-4	Ethylbenzene	56	U
100-42-5	Styrene	56	U
1330-20-7	Xylene (total)	56	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL125

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334452

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0334452DV

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 5.6

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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000221

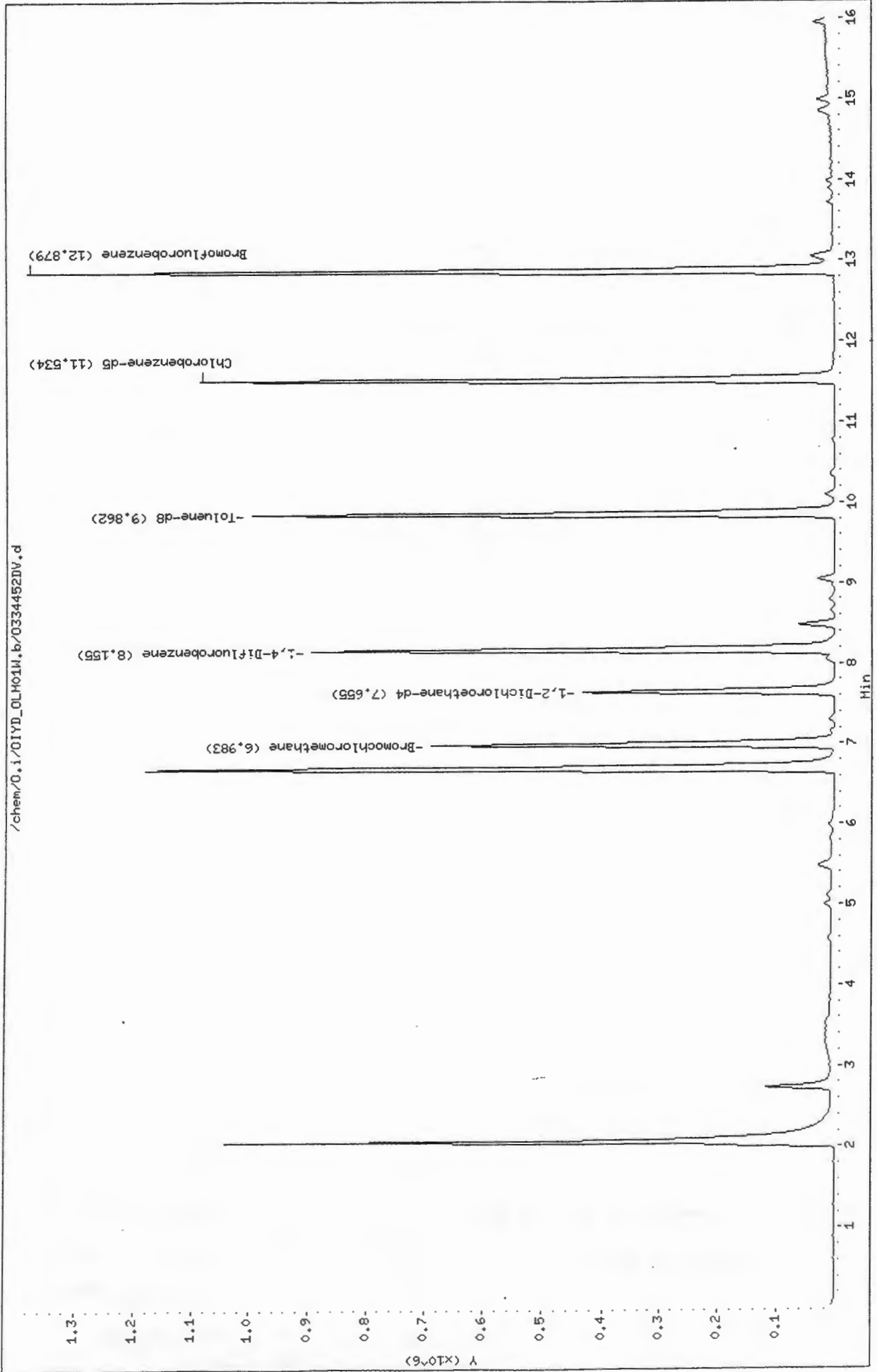
Data File: /chem/0.i/OIYD_OLM01M.b/0334452DV.d
Date : 30-JUN-97 15:41:26
Client ID: AL125
Sample Info: L#334452 CLI#AL125 ETR#65533
Purge Volume: 5.0
Column phase: CAP

Instrument: 0.i

Operator: MTP

Column diameter: 0.53

/chem/0.i/OIYD_OLM01M.b/0334452DV.d



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334452DV.d
 Lab Smp Id: 334452 Client Smp ID: AL125
 Inj Date : 30-JUN-97 15:41:26
 Operator : MTP Inst ID: O.i
 Smp Info : L#334452 CLI#AL125 ETR#65533
 Misc Info : 890UL/5.0ML
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 11
 Dil Factor: 5.61798
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: $X * Uf / Vo$

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	52	2.742	2.742	(0.393)	223352	29.5844	170
3 Bromomethane	94.00						
4 Chloroethane	54.00						
5 Acetone	43	4.559	4.552	(0.554)	18296	8.29744	47(a)
6 1,1-Dichloroethene	96.00						
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene total)	36				913879	108.058	610
11 1,1-Dichloroethane	53.00						
12 2-Butanone	43	6.707	6.703	(0.950)	92671	23.9846	130
13 cis-1,2-Dichloroethene	36	6.559	6.703	(0.958)	913879	107.858	600
14 Chloroform	83.00						
* 15 Bromochloromethane	128	6.983	6.984	(1.000)	296133	50.0000	
16 1,1,1-Trichloroethane	97.00						

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
17 Carbon Tetrachloride	117.00							
\$ 18 1,2-Dichloroethane-d4	65		7.655	7.657	(1.096)	546730	51.5781	52 (a)
19 1,2-Dichloroethane	62.00							
20 Benzene	78.00							
* 21 1,4-Difluorobenzene	114		8.155	8.158	(1.000)	1258916	50.0000	
22 Trichloroethene	130		8.483	8.486	(1.040)	36448	3.66467	20 (a)
23 1,2-Dichloropropane	63.00							
24 Bromodichloromethane	83.00							
25 4-Methyl-2-Pentanone	43.00							
26 cis-1,3-Dichloropropene	75.00							
\$ 27 Toluene-d8	98		9.862	9.866	(0.855)	1182912	46.8370	47 (a)
28 Toluene	91.00							
29 trans-1,3-Dichloropropene	75.00							
30 1,1,2-Trichloroethane	97.00							
31 2-Hexanone	43.00							
32 Tetrachloroethene	164.00							
33 Dibromochloromethane	129.00							
* 34 Chlorobenzene-d5	117		11.534	11.540	(1.000)	1088127	50.0000	
35 Chlorobenzene	112.00							
36 Ethylbenzene	106.00							
37 Xylene (m,p)	106.00							
M 38 Xylene (total)	106.00							
39 Xylene (o)	106.00							
40 Styrene	104.00							
41 Bromoform	173.00							
42 1,1,2,2-Tetrachloroethane	83.00							
\$ 43 Bromofluorobenzene	95		12.879	12.870	(1.117)	883725	46.7740	47 (a)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334452DV.d
Lab Smp Id: 334452 Client Smp ID: AL125
Inj Date : 30-JUN-97 15:41:26
Operator : MTP Inst ID: O.i
Smp Info : L#334452 CLI#AL125 ETR#65533
Misc Info : 890UL/5.0ML
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 11
Dil Factor: 5.61798
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Date : 30-JUN-97 15:41:26

Client ID: AL125

Instrument: 0.i

Sample Info: L#334452 CLI#AL125 ETR#65533

Purge Volume: 5.0

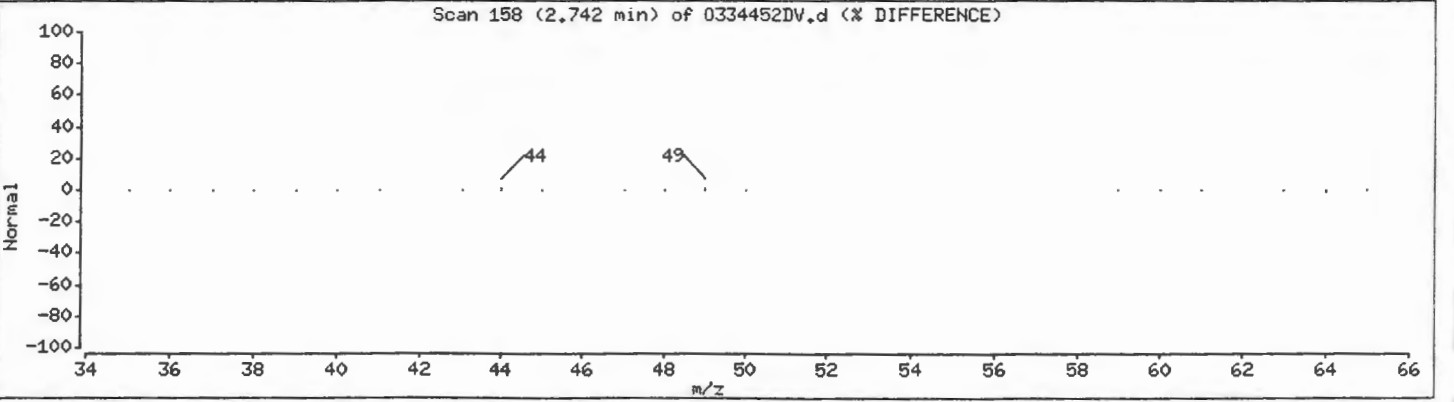
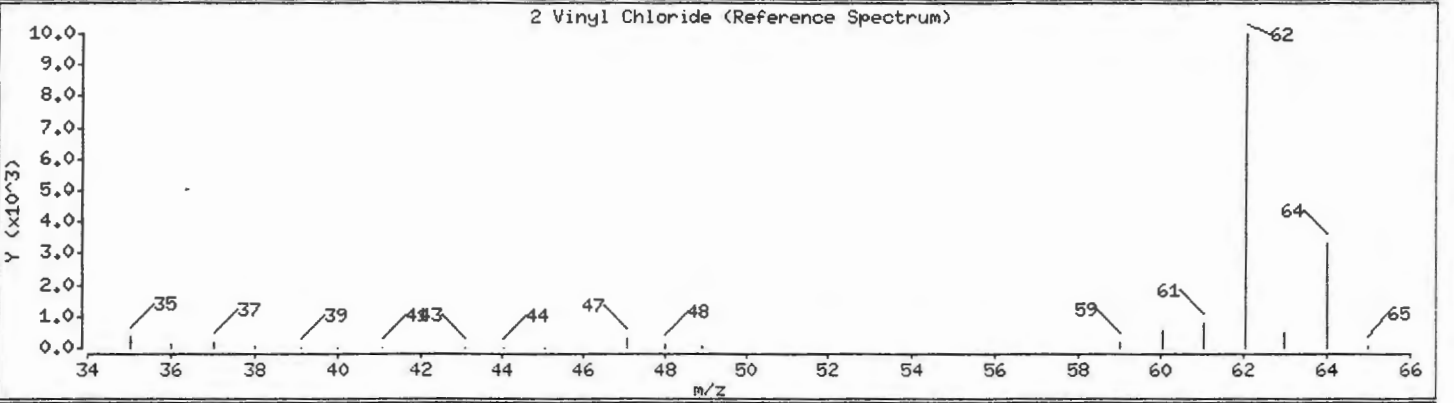
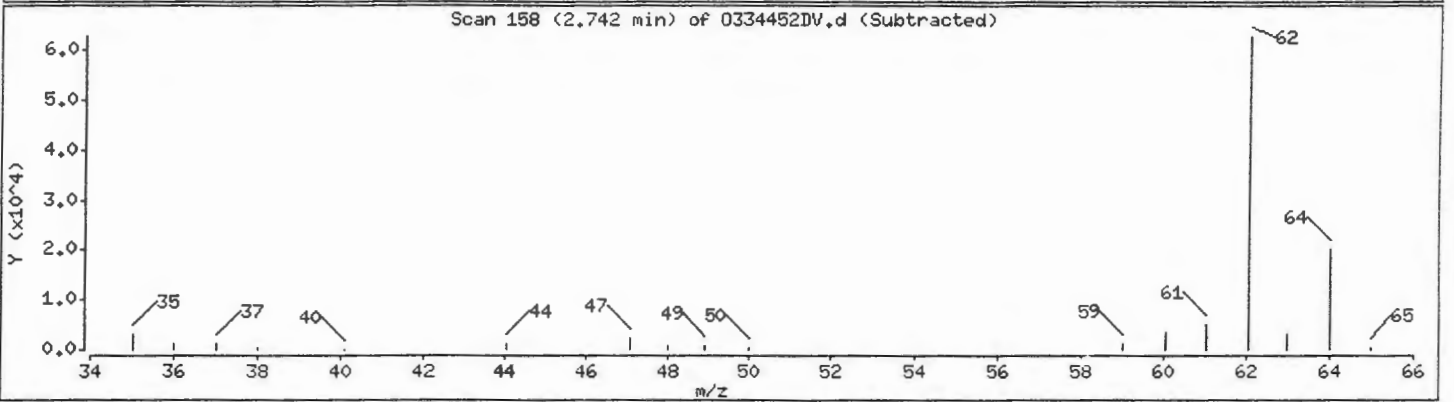
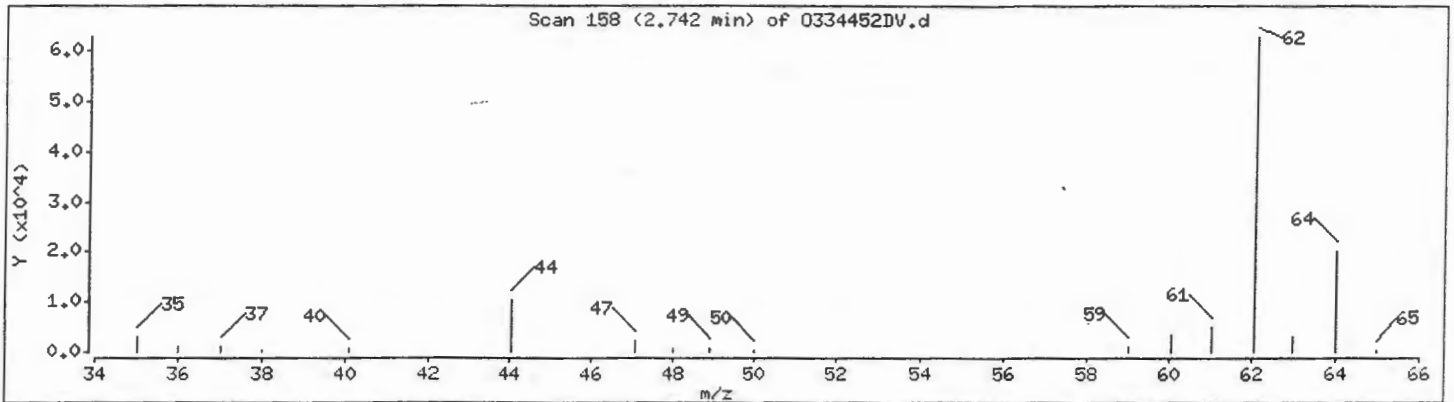
Operator: MTP

Column phase: CAP

Column diameter: 0.53

2 Vinyl Chloride

Concentration: 170 ug/L



Date : 30-JUN-97 15:41:26

Client ID: AL125

Instrument: 0.1

Sample Info: L#334452 CLI#AL125 ETR#65533

Purge Volume: 5.0

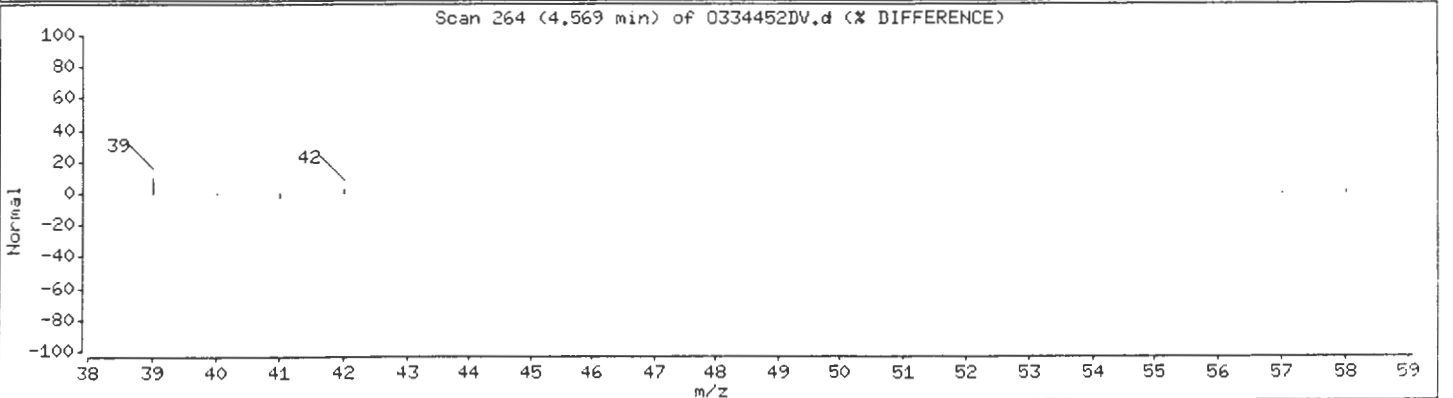
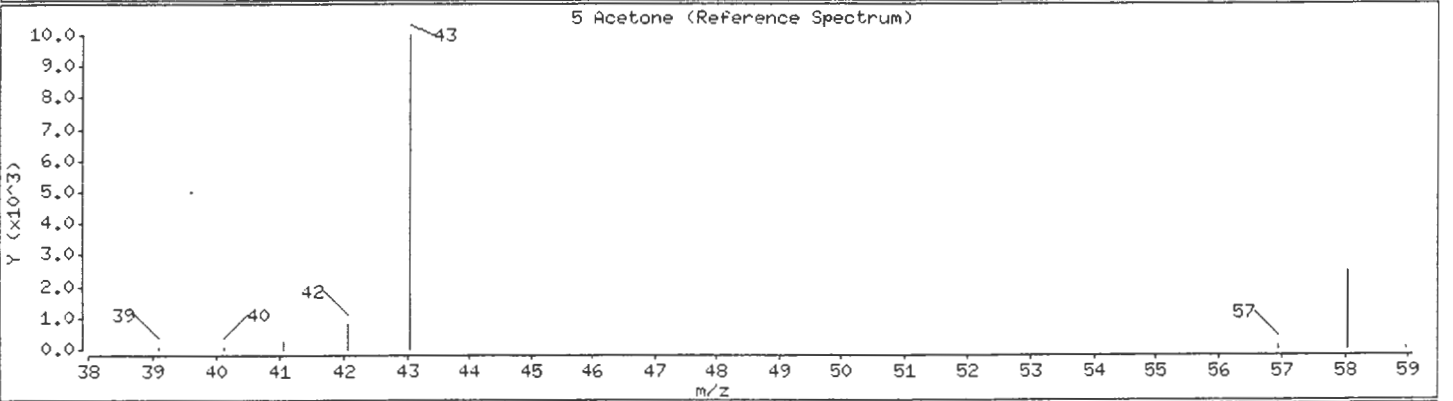
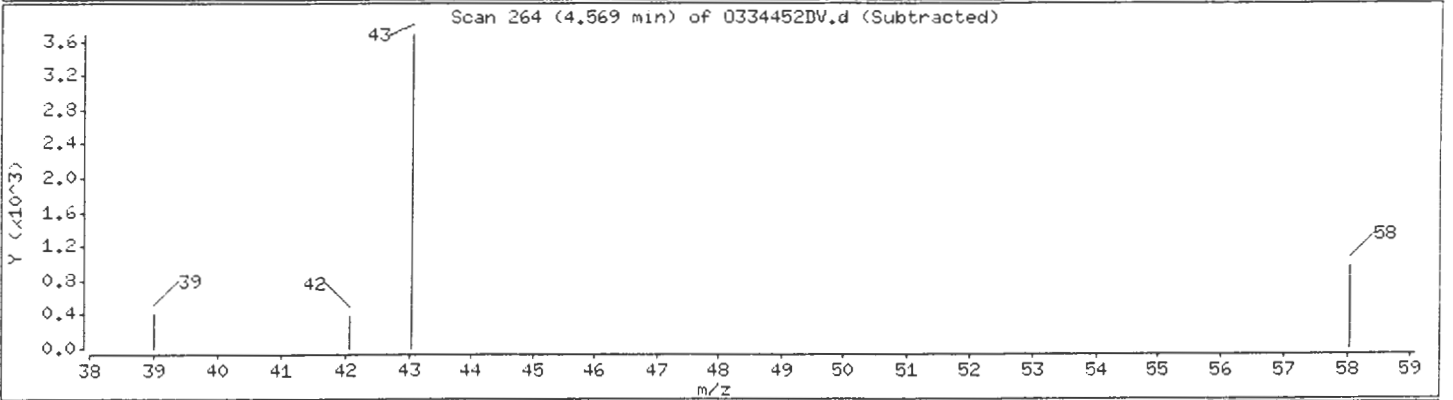
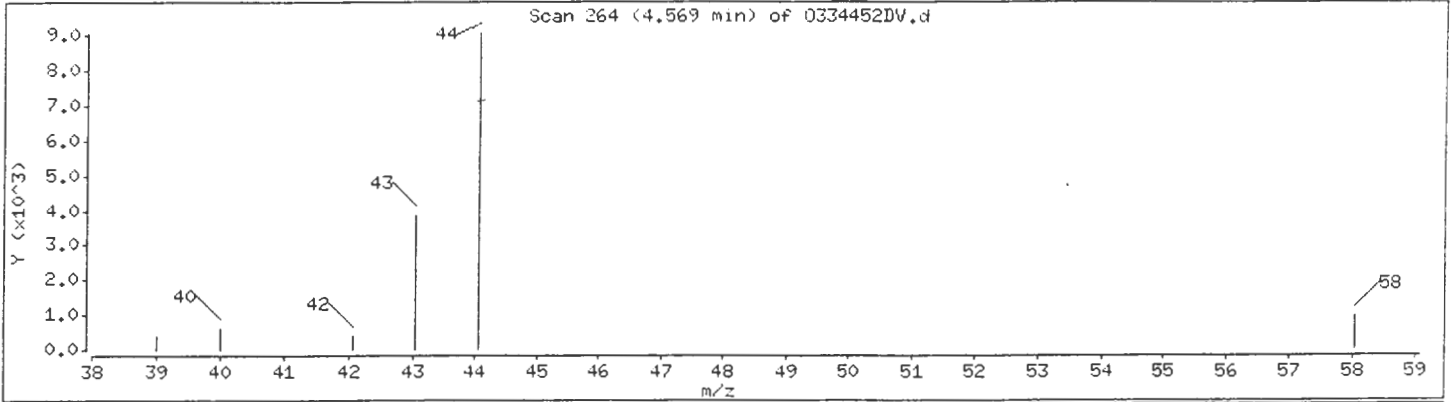
Operator: HTP

Column phase: CAP

Column diameter: 0.53

5 Acetone

Concentration: 47 ug/L



Date : 30-JUN-97 15:41:26

Client ID: AL125

Instrument: 0.i

Sample Info: L#334452 CLI#A1.125 ETR#65533

Purge Volume: 5.0

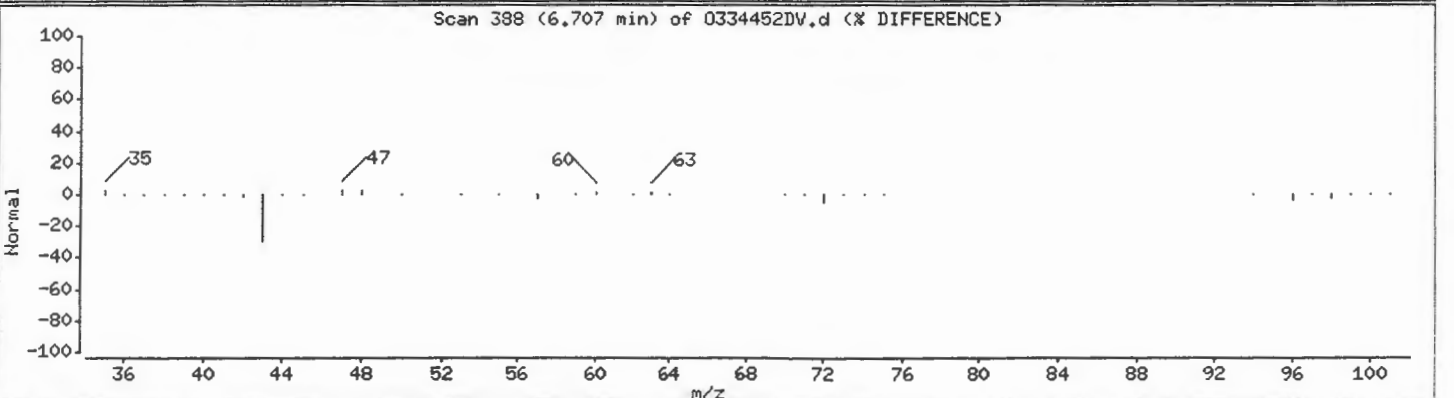
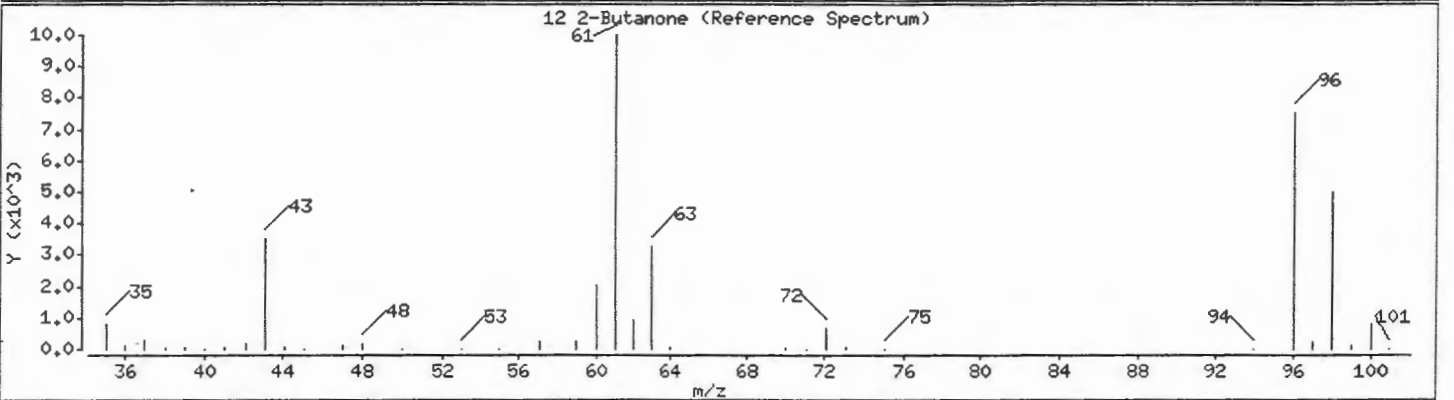
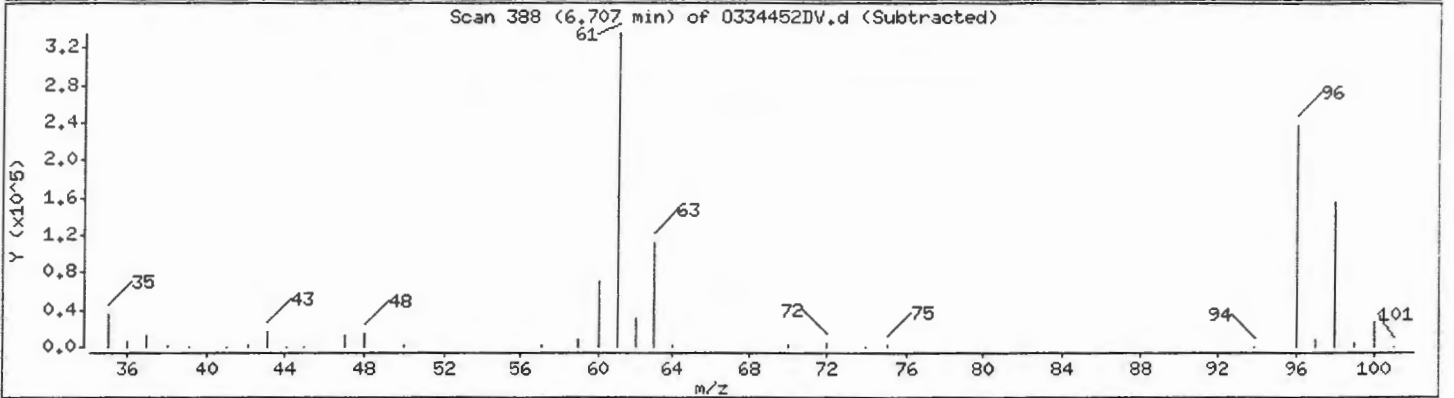
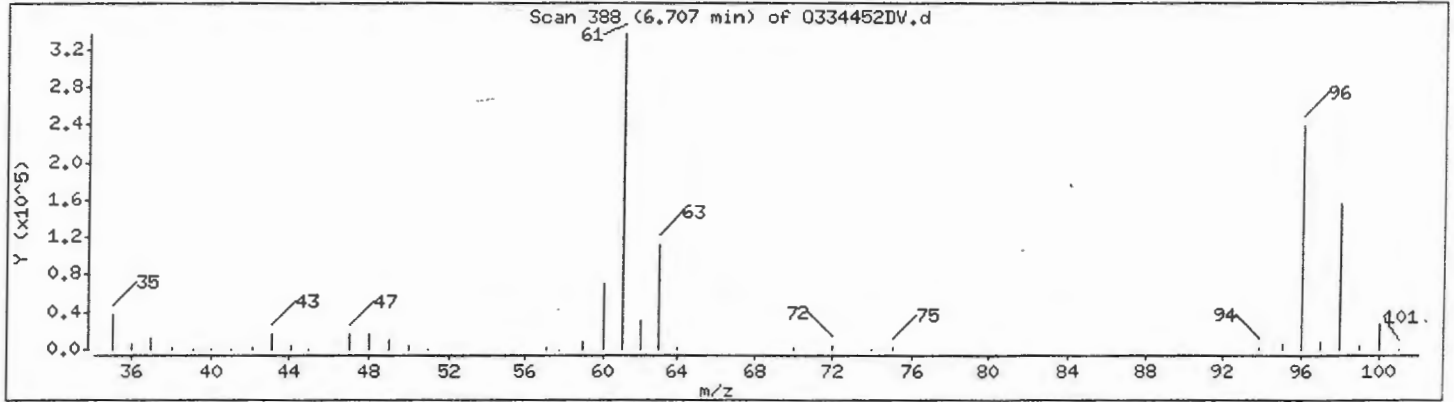
Operator: MTP

Column phase: CAP

Column diameter: 0.53

12 2-Butanone

Concentration: 130 ug/L



Date : 30-JUN-97 15:41:26

Client ID: AL125

Instrument: 0.i

Sample Info: L#334452 CLI#AL125 ETR#65533

Purge Volume: 5.0

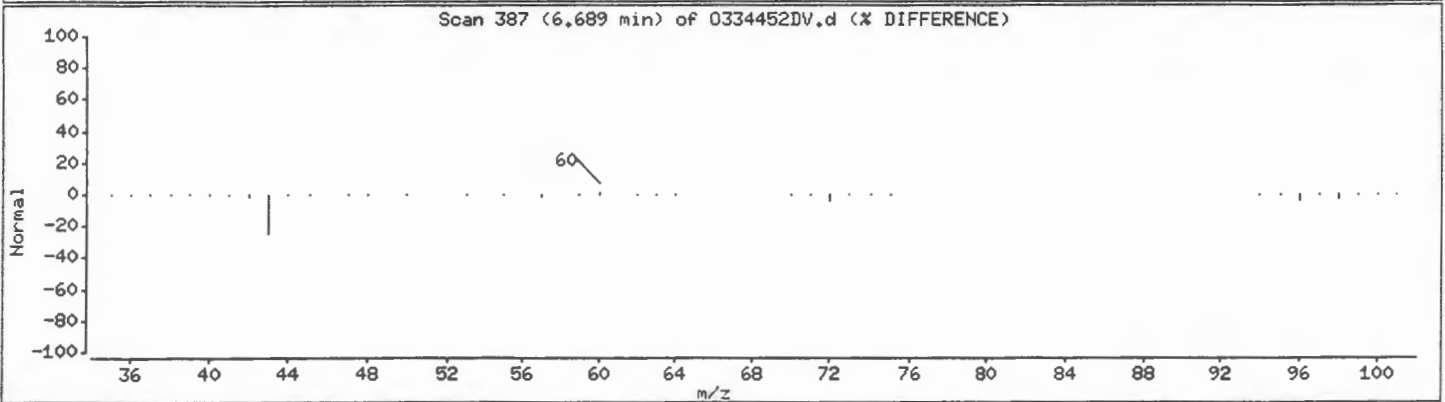
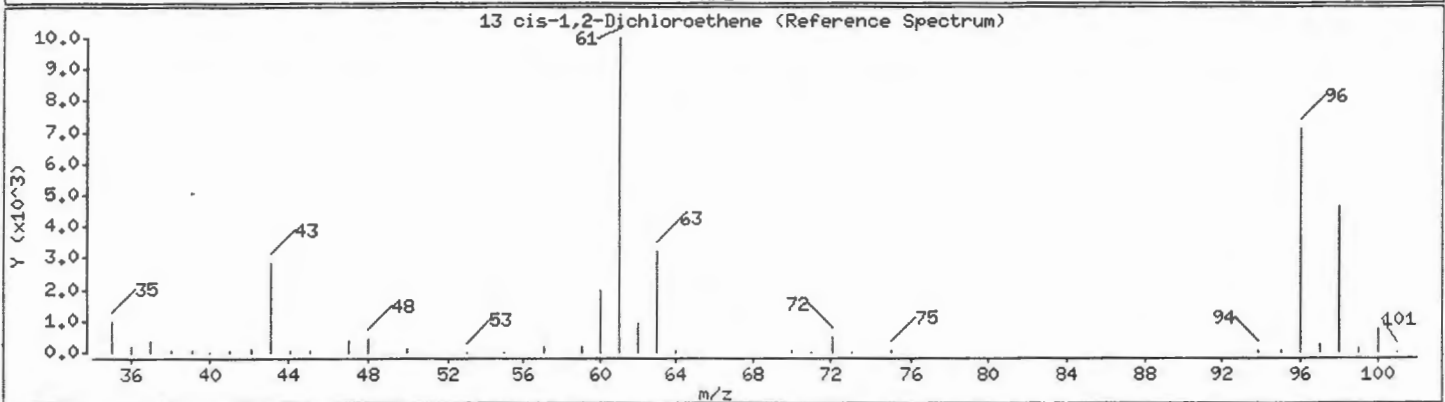
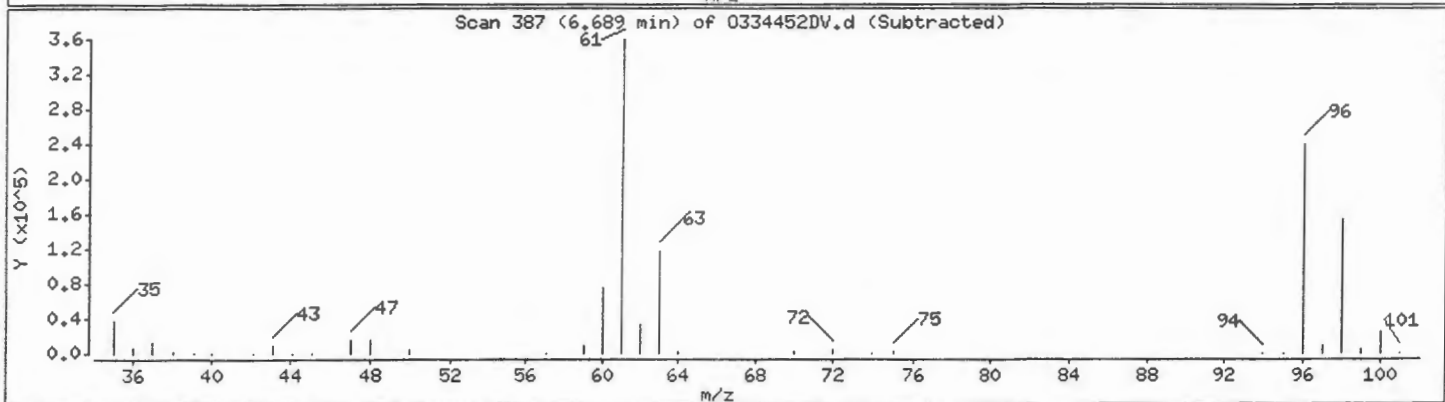
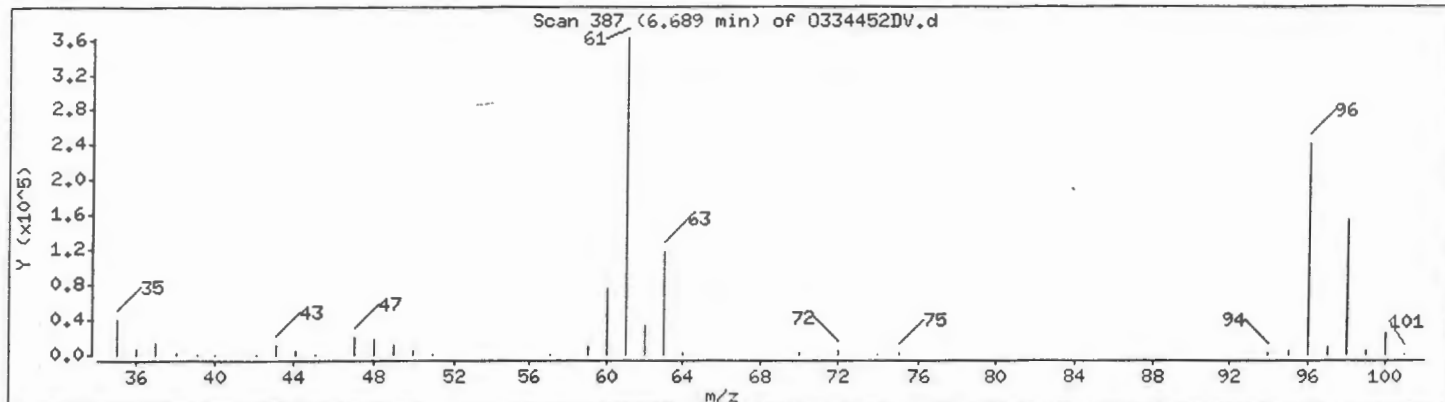
Operator: HTP

Column phase: CAP

Column diameter: 0.53

13 cis-1,2-Dichloroethene

Concentration: 600 ug/L



Date : 30-JUN-97 15:41:26

Client ID: AL125

Instrument: O.i

Sample Info: L#334452 CLI#AL125 ETR#65533

Purge Volume: 5.0

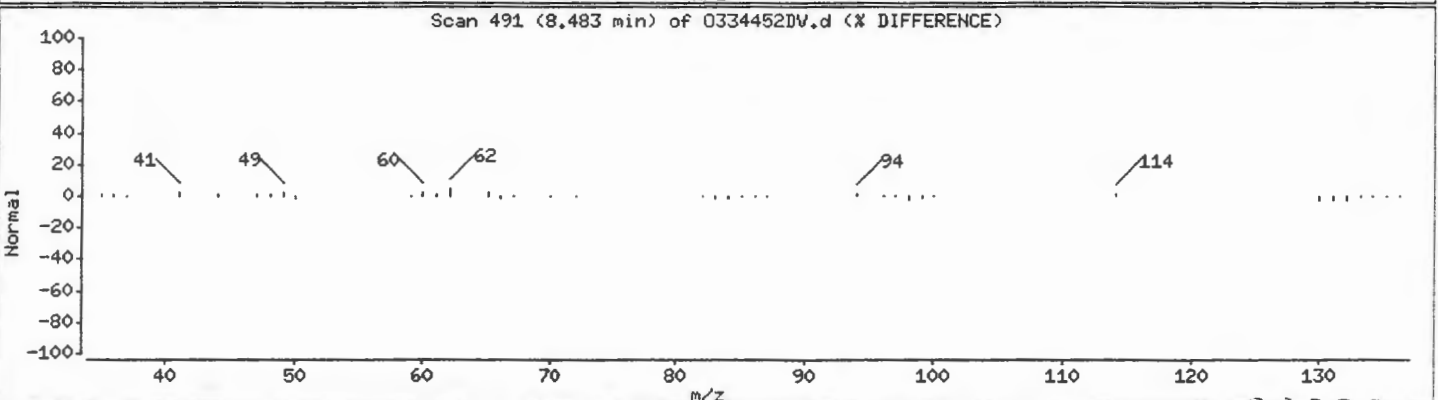
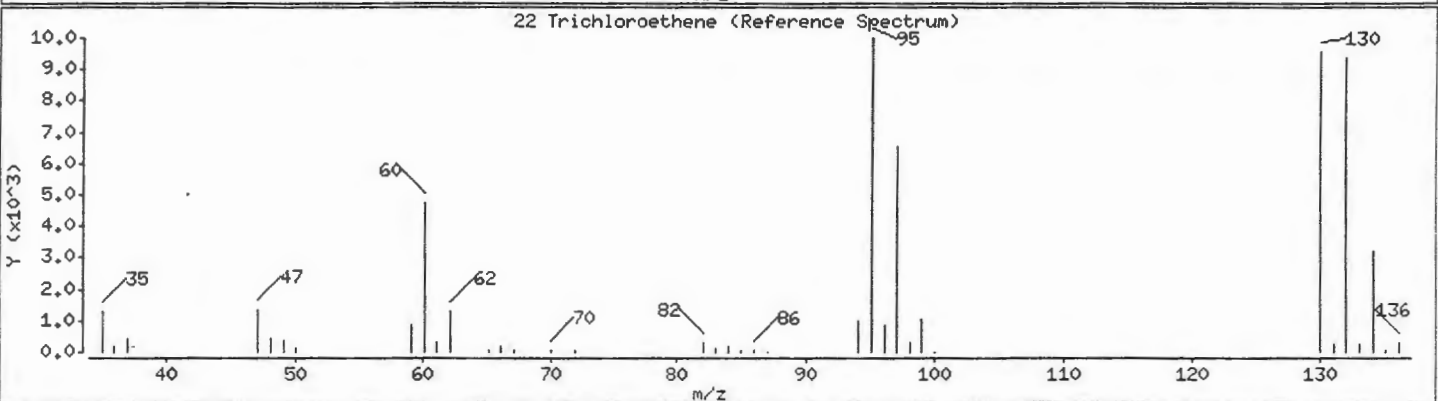
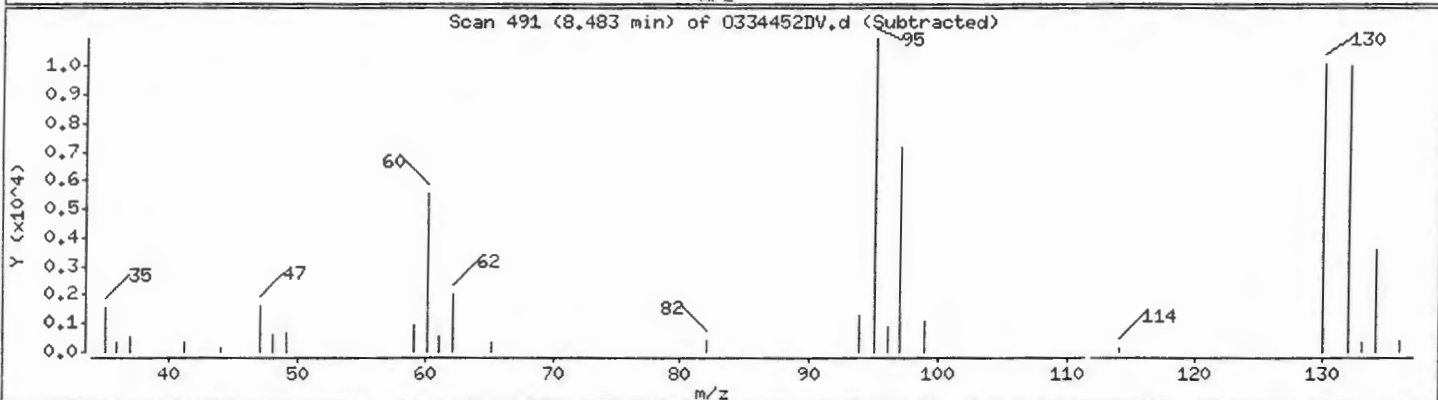
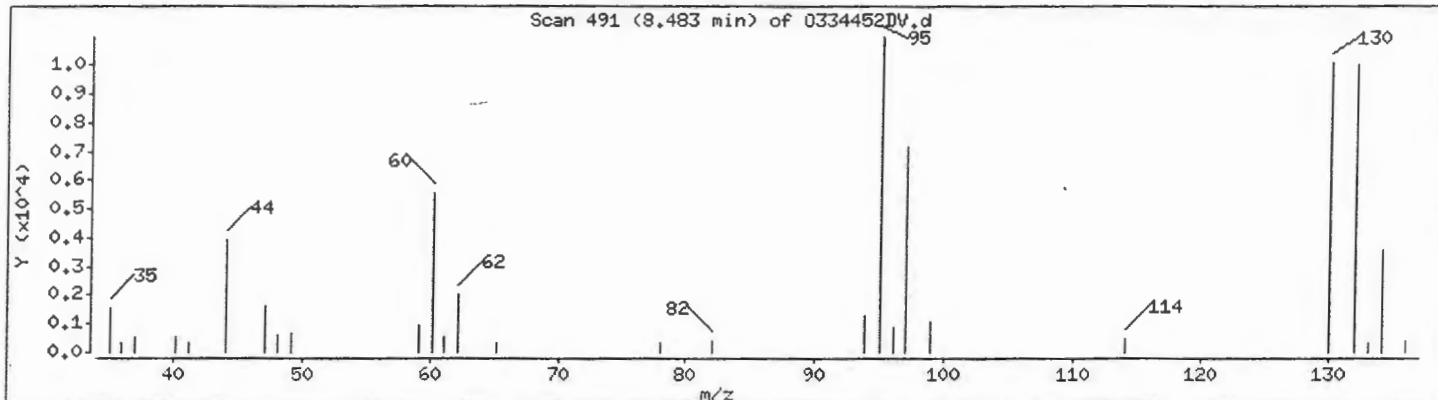
Operator: HTP

Column phase: CAP

Column diameter: 0.53

22 Trichloroethene

Concentration: 20 ug/L



000232

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL122

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93205 SAS No.: SDG No.: 65533
 Matrix: (soil/water) WATER Lab Sample ID: 334454
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0334454V
 Level: (low/med) LOW Date Received: 06/26/97
 % Moisture: not dec. _____ Date Analyzed: 06/30/97
 GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	140	
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	7	J
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL122

Lab Name: ITS ENVIRONMENTAL

Contract: 93206

Lab Code: INCHVT

Case No.: 93206

SAS No.:

SDG No.: 65533

Matrix: (soil/water) WATER

Lab Sample ID: 334454

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: 0334454V

Level: (low/med) LOW

Date Received: 06/26/97

% Moisture: not dec. _____

Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

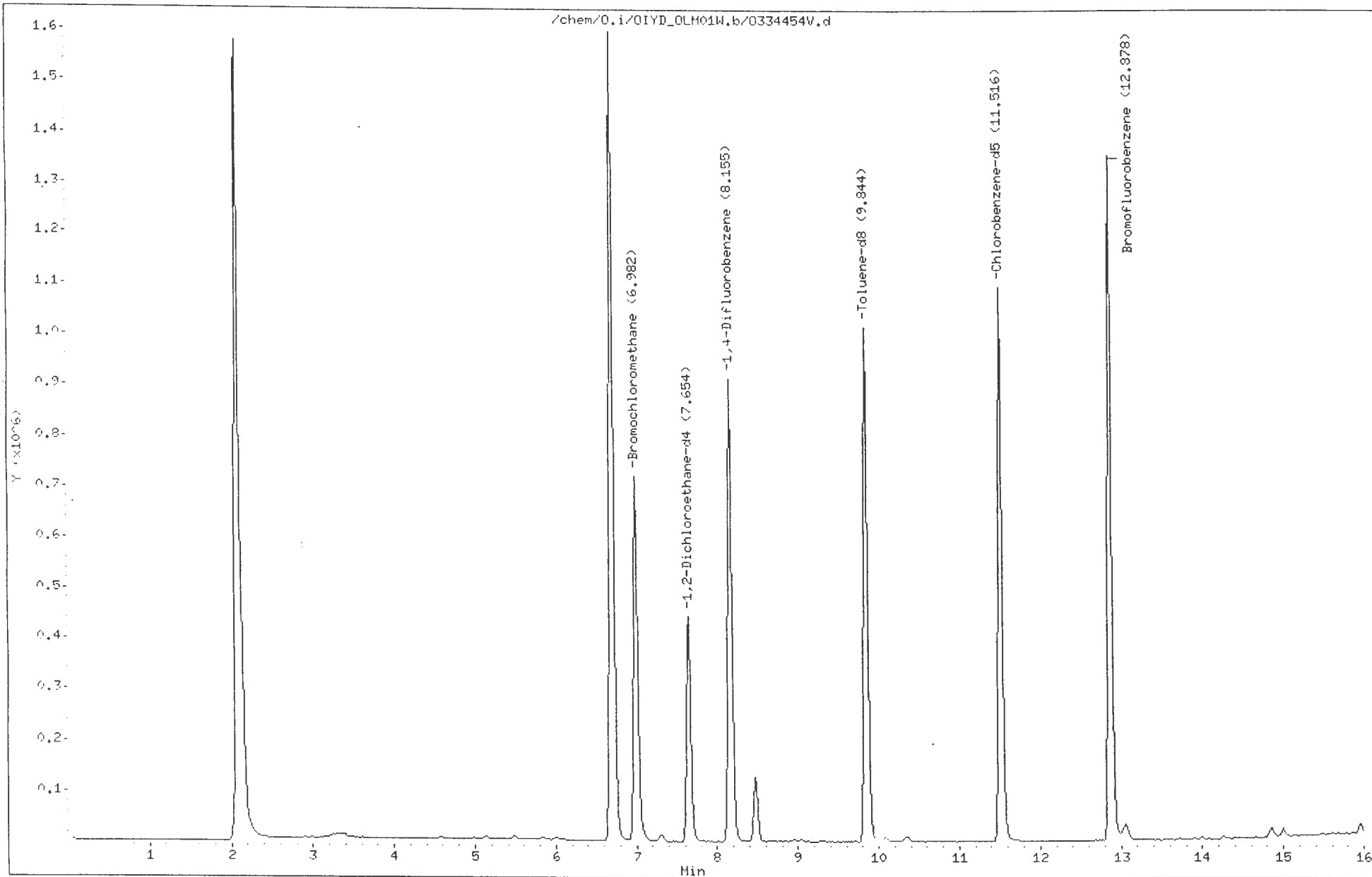
Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

000035



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334454V.d
 Lab Smp Id: 334454 Client Smp ID: AL122
 Inj Date : 30-JUN-97 13:05:29
 Operator : MTP Inst ID: O.i
 Smp Info : L#334454 CLI#AL122 ETR#65533
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: $X * Uf / Vo$

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00							
2 Vinyl Chloride	62.00							
3 Bromomethane	94.00							
4 Chloroethane	64.00							
5 Acetone	43.00							
6 1,1-Dichloroethene	96.00							
7 Methylene Chloride	94.00							
8 Carbon Disulfide	76.00							
9 trans-1,2-Dichloroethene	96.00							
M 10 1,2-Dichloroethene (total)	96				1197013	135.440	140	
11 1,1-Dichloroethane	63.00							
12 2-Butanone	43.00							
13 cis-1,2-Dichloroethene	96		6.706	6.708	(0.960)	1197013	135.188	140
14 Chloroform	83.00							
* 15 Bromochloromethane	128		6.982	6.984	(1.000)	306878	50.0000	
16 1,1,1-Trichloroethane	97.00							

000236

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						IN-TOLUMN	FINAL
	MASS					ug/L	ug/L
-----	----	==	=====	=====	=====	-----	-----
17 Carbon Tetrachloride	117.00				Compound Not Detected.		
S 18 1,2-Dichloroethane-34	65	7.654	7.657	1.006	555920	50.5088	51
19 1,2-Dichloroethane	62.00				Compound Not Detected.		
20 Benzene	78.00				Compound Not Detected.		
* 21 1,4-Difluorobenzene	114	9.155	9.159	1.000	1257242	50.0000	
22 Trichloroethene	130	9.465	9.486	1.039	73676	7.41763	7 a
23 1,2-Dichloropropane	63.00				Compound Not Detected.		
24 Bromodichloromethane	83.00				Compound Not Detected.		
25 4-Methyl-2-Pentanone	43.00				Compound Not Detected.		
26 cis-1,3-Dichloropropene	75.00				Compound Not Detected.		
S 27 Toluene-d8	98	9.844	9.866	0.355	1202125	47.4408	47
28 Toluene	91.00				Compound Not Detected.		
29 trans-1,3-Dichloropropene	75.00				Compound Not Detected.		
30 1,1,2-Trichloroethane	97.00				Compound Not Detected.		
31 2-Hexanone	43.00				Compound Not Detected.		
32 Tetrachloroethene	164.00				Compound Not Detected.		
33 Dibromochloromethane	129.00				Compound Not Detected.		
* 34 Chlorobenzene-d5	117	11.516	11.540	1.000	1091726	50.0000	
35 Chlorobenzene	112.00				Compound Not Detected.		
36 Ethylbenzene	106.00				Compound Not Detected.		
37 Xylene (m,p)	106.00				Compound Not Detected.		
M 38 Xylene (total)	106.00				Compound Not Detected.		
39 Xylene (o)	106.00				Compound Not Detected.		
40 Styrene	104.00				Compound Not Detected.		
41 Bromoform	173.00				Compound Not Detected.		
42 1,1,2,2-Tetrachloroethane	83.00				Compound Not Detected.		
S 43 Bromofluorobenzene	95	12.879	12.870	1.119	980604	46.4551	46

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334454V.d
Lab Smp Id: 334454 Client Smp ID: AL122
Inj Date : 30-JUN-97 13:05:29
Operator : MTP Inst ID: O.i
Smp Info : L#334454 CLI#AL122 ETR#65533
Misc Info : 100%
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Date : 30-JUN-97 13:05:29

Client ID: AL122

Instrument: 0.1

Sample Info: L#334454 CLI#AL122 ETR#65533

Purge Volume: 5.0

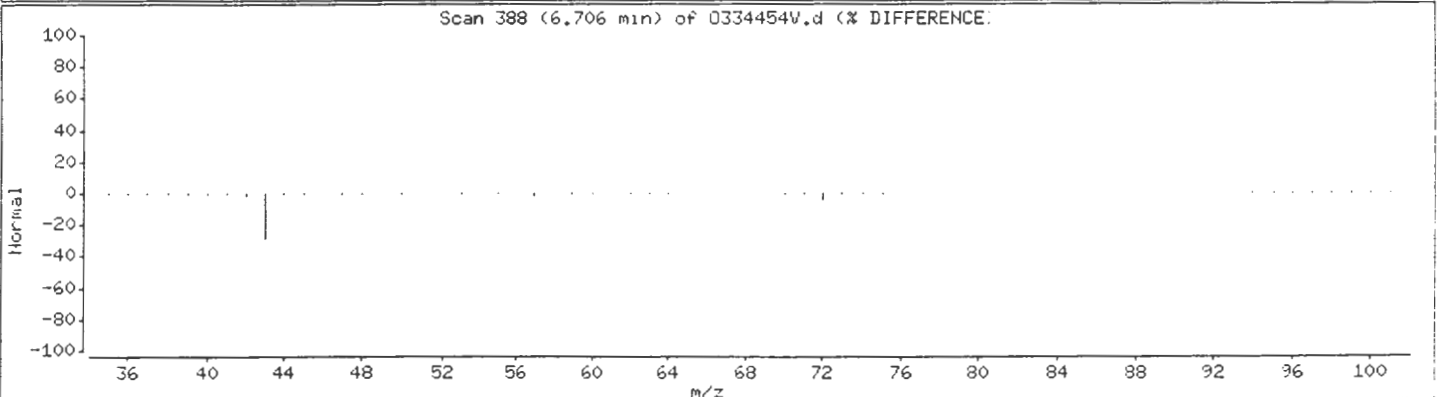
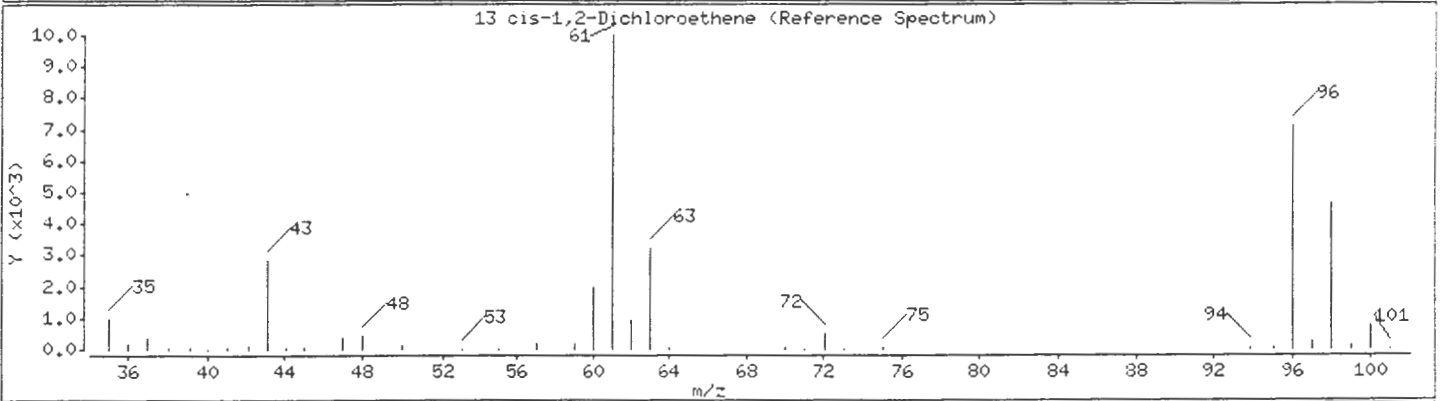
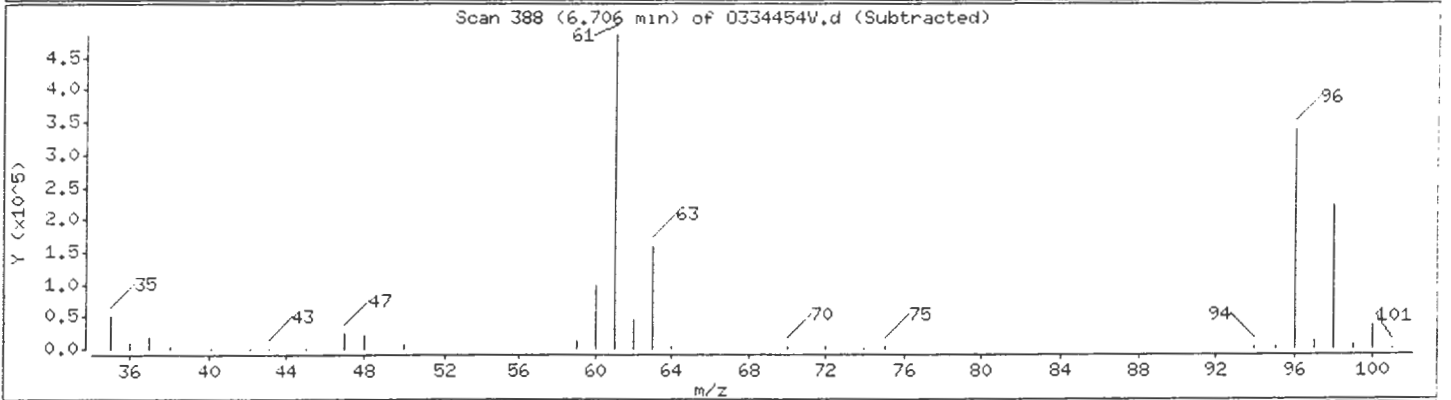
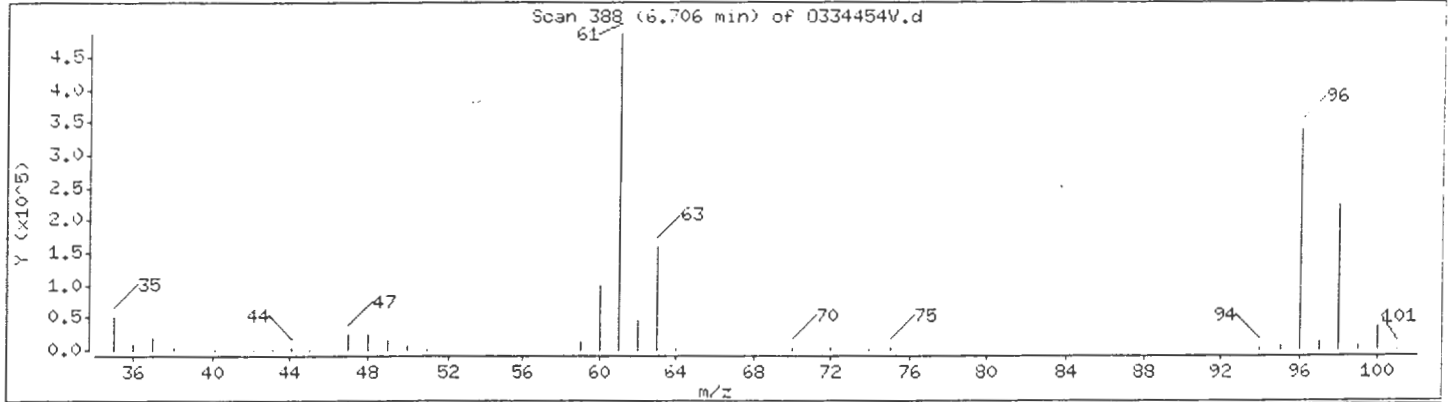
Operator: HTP

Column phase: CAP

Column diameter: 0.53

13 cis-1,2-Dichloroethene

Concentration: 140 ug/L



Date : 30-JUN-97 13:05:29

Client ID: AL122

Instrument: O.i

Sample Info: L#334454 CLI#AL122 ETR#65533

Purge Volume: 5.0

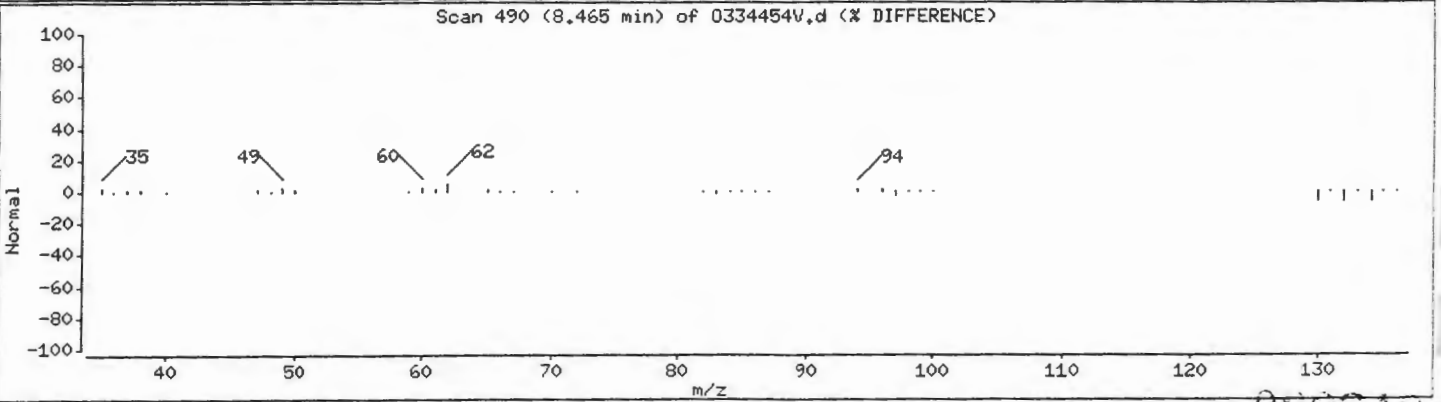
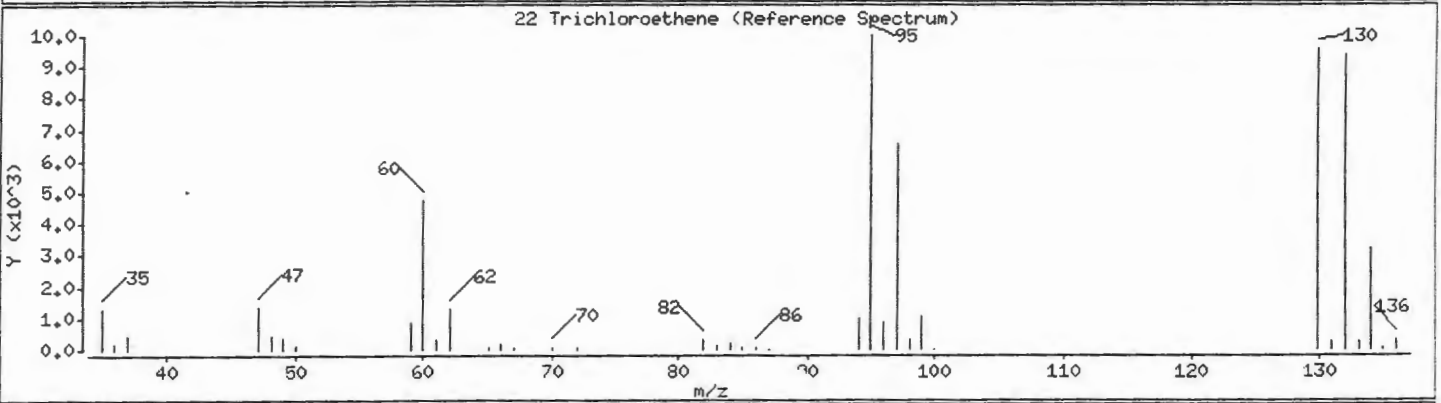
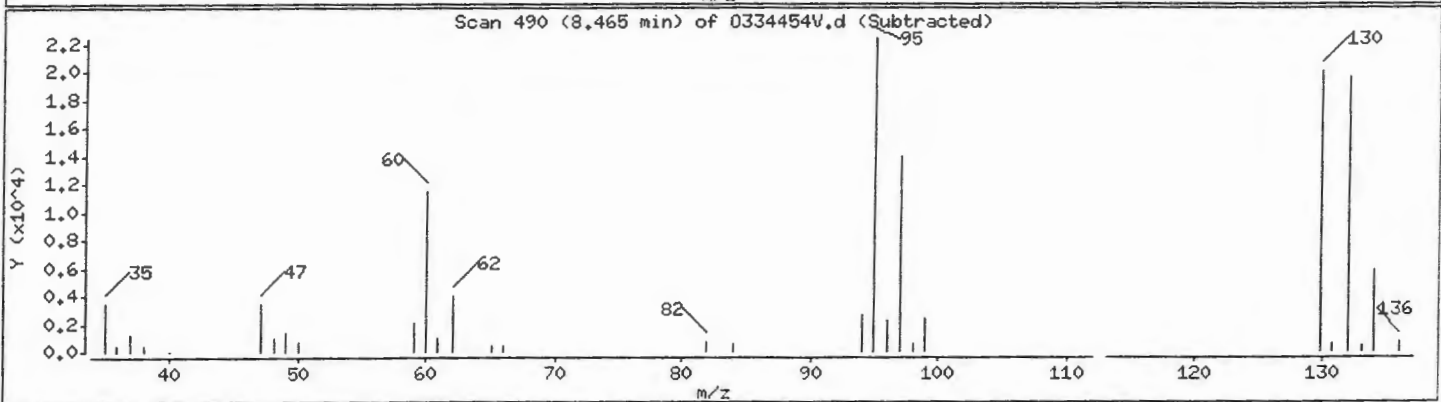
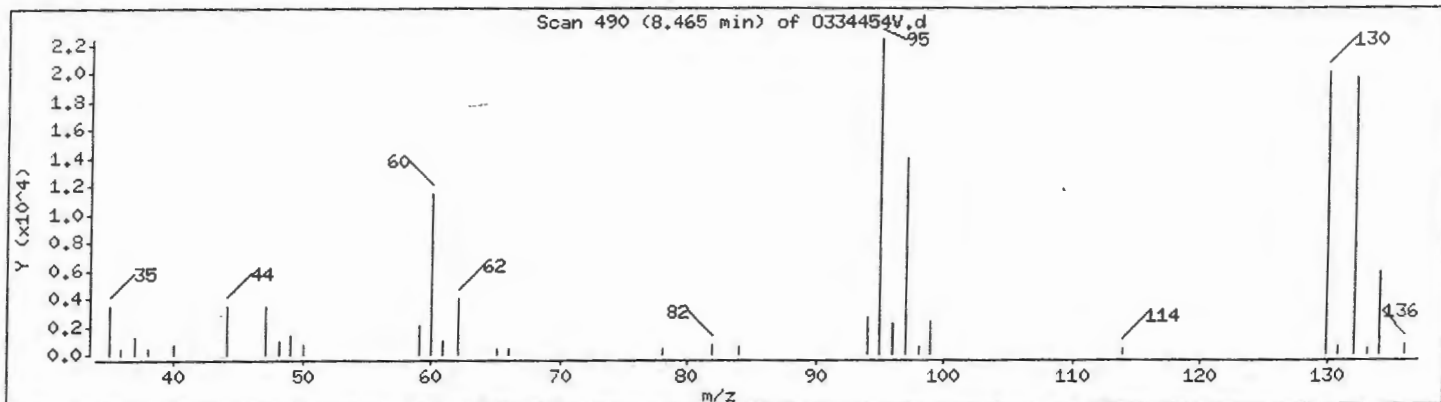
Operator: MTP

Column phase: CAP

Column diameter: 0.53

22 Trichloroethene

Concentration: 7 ug/L



000210

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL121

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Matrix: (soil/water) WATER Lab Sample ID: 334456
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0334456V
 Level: (low/med) LOW Date Received: 06/26/97
 % Moisture: not dec. _____ Date Analyzed: 06/30/97
 GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	Q
74-87-3	-----Chloromethane	10 U
74-83-9	-----Bromomethane	10 U
75-01-4	-----Vinyl Chloride	10 U
75-00-3	-----Chloroethane	10 U
75-09-2	-----Methylene Chloride	10 U
67-64-1	-----Acetone	6 J
75-15-0	-----Carbon Disulfide	10 U
75-35-4	-----1,1-Dichloroethene	10 U
75-34-3	-----1,1-Dichloroethane	10 U
540-59-0	-----1,2-Dichloroethene (total)	10 U
67-66-3	-----Chloroform	10 U
107-06-2	-----1,2-Dichloroethane	10 U
78-93-3	-----2-Butanone	10 U
71-55-6	-----1,1,1-Trichloroethane	10 U
56-23-5	-----Carbon Tetrachloride	10 U
75-27-4	-----Bromodichloromethane	10 U
78-87-5	-----1,2-Dichloropropane	10 U
10061-01-5	-----cis-1,3-Dichloropropene	10 U
79-01-6	-----Trichloroethene	10 U
124-48-1	-----Dibromochloromethane	10 U
79-00-5	-----1,1,2-Trichloroethane	10 U
71-43-2	-----Benzene	10 U
10061-02-6	-----trans-1,3-Dichloropropene	10 U
75-25-2	-----Bromoform	10 U
108-10-1	-----4-Methyl-2-Pentanone	10 U
591-78-6	-----2-Hexanone	10 U
127-18-4	-----Tetrachloroethene	10 U
79-34-5	-----1,1,2,2-Tetrachloroethane	10 U
108-88-3	-----Toluene	10 U
108-90-7	-----Chlorobenzene	10 U
100-41-4	-----Ethylbenzene	10 U
100-42-5	-----Styrene	10 U
1330-20-7	-----Xylene (total)	10 U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL121

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334456

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0334456V

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

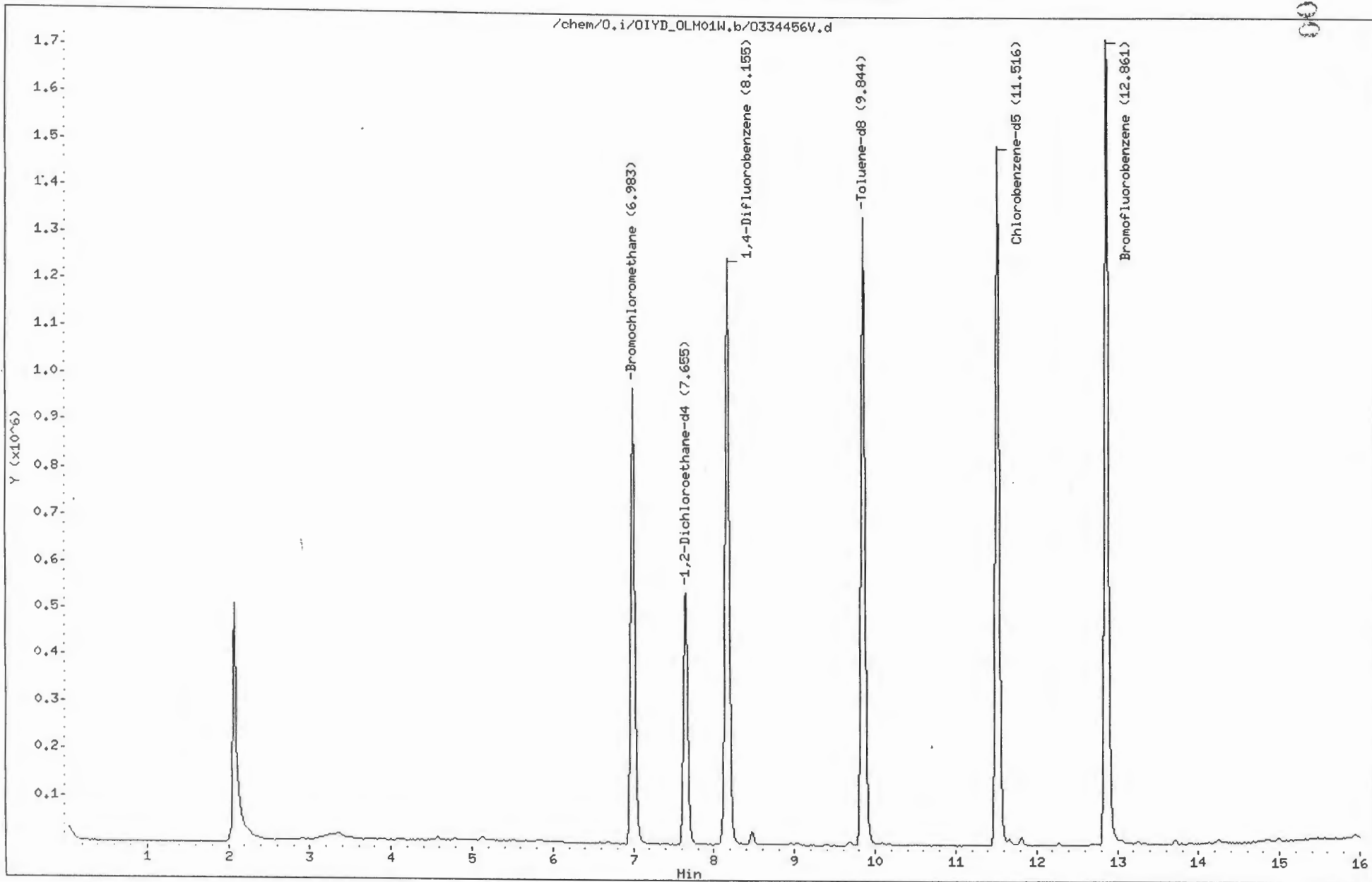
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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000243

000242



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334456V.d
 Lab Smp Id: 334456 Client Smp ID: AL121
 Inj Date : 30-JUN-97 11:25:30
 Operator : MTP Inst ID: O.i
 Smp Info : L#334456 CLI#AL121 ETR#65533
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: $X * Uf / Vo$

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	62.00						
3 Bromomethane	94.00						
4 Chloroethane	64.00						
5 Acetone	43	4.569	4.552	(0.654)	20161	6.52265	6 (a)
6 1,1-Dichloroethene	96.00						
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene (total)	96.00						
11 1,1-Dichloroethane	63.00						
12 2-Butanone	43.00						
13 cis-1,2-Dichloroethene	96.00						
14 Chloroform	83.00						
* 15 Bromochloromethane	128	6.983	6.984	(1.000)	415110	50.0000	
16 1,1,1-Trichloroethane	97.00						

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					ug/L	ug/L
=====	=====	==	=====	=====	=====	=====	=====
17 Carbon Tetrachloride	117.00				Compound Not Detected.		
\$ 18 1,2-Dichloroethane-d4	65	7.655	7.657	(1.006)	673223	45.2949	45
19 1,2-Dichloroethane	62.00				Compound Not Detected.		
20 Benzene	78.00				Compound Not Detected.		
* 21 1,4-Difluorobenzene	114	8.155	8.158	(1.000)	1764234	50.0000	
22 Trichloroethene	130.00				Compound Not Detected.		
23 1,2-Dichloropropane	63.00				Compound Not Detected.		
24 Bromodichloromethane	83.00				Compound Not Detected.		
25 4-Methyl-2-Pentanone	43.00				Compound Not Detected.		
26 cis-1,3-Dichloropropene	75.00				Compound Not Detected.		
\$ 27 Toluene-d8	98	9.844	9.866	(0.355)	1630806	46.4884	46
28 Toluene	91.00				Compound Not Detected.		
29 trans-1,3-Dichloropropene	75.00				Compound Not Detected.		
30 1,1,2-Trichloroethane	97.00				Compound Not Detected.		
31 2-Hexanone	43.00				Compound Not Detected.		
32 Tetrachloroethene	164.00				Compound Not Detected.		
33 Dibromochloromethane	129.00				Compound Not Detected.		
* 34 Chlorobenzene-d5	117	11.516	11.540	(1.000)	1511379	50.0000	
35 Chlorobenzene	112.00				Compound Not Detected.		
36 Ethylbenzene	106.00				Compound Not Detected.		
37 Xylene (m,p)	106.00				Compound Not Detected.		
M 38 Xylene (total)	106.00				Compound Not Detected.		
39 Xylene (o)	106.00				Compound Not Detected.		
40 Styrene	104.00				Compound Not Detected.		
41 Bromoform	173.00				Compound Not Detected.		
42 1,1,2,2-Tetrachloroethane	83.00				Compound Not Detected.		
\$ 43 Bromofluorobenzene	95	12.861	12.870	(1.117)	1224223	46.6503	47

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation (BLOQ).

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334456V.d
Lab Smp Id: 334456 Client Smp ID: AL121
Inj Date : 30-JUN-97 11:25:30
Operator : MTP Inst ID: O.i
Smp Info : L#334456 CLI#AL121 ETR#65533
Misc Info : 100%
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Date : 30-JUN-97 11:25:30

Client ID: AL121

Instrument: 0.1

Sample Info: L#334456 CLI#AL121 ETR#65533

Purge Volume: 5.0

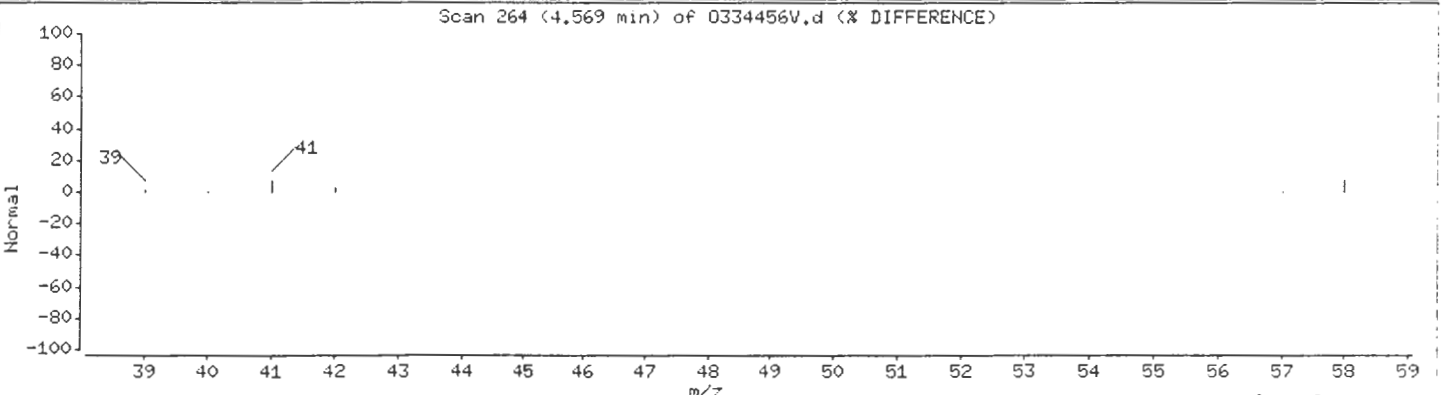
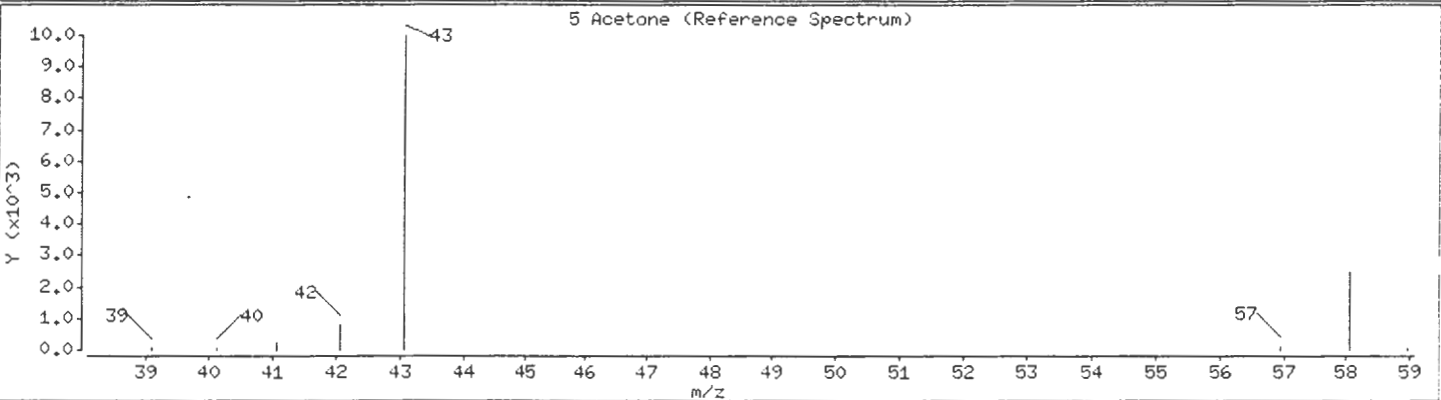
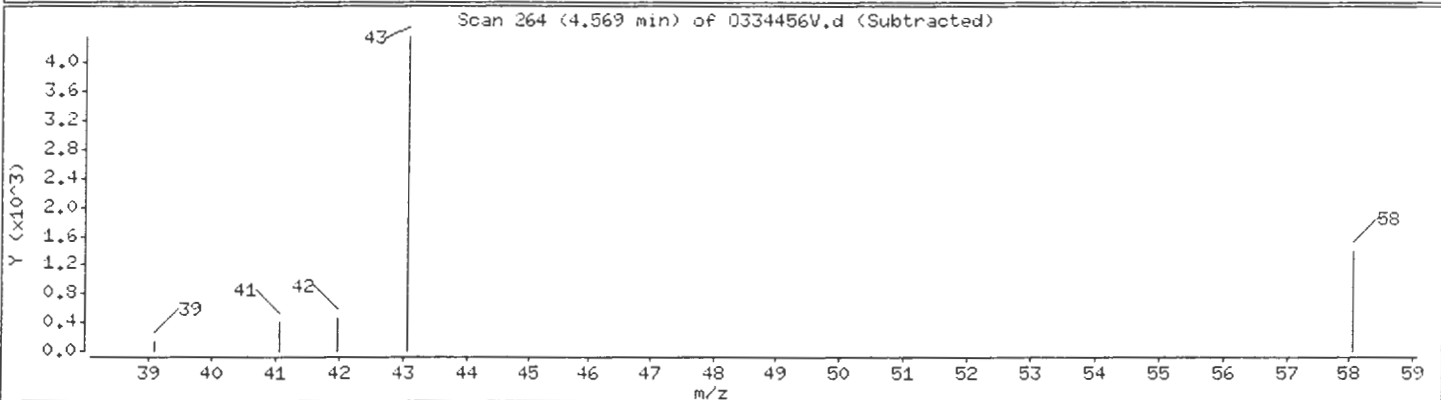
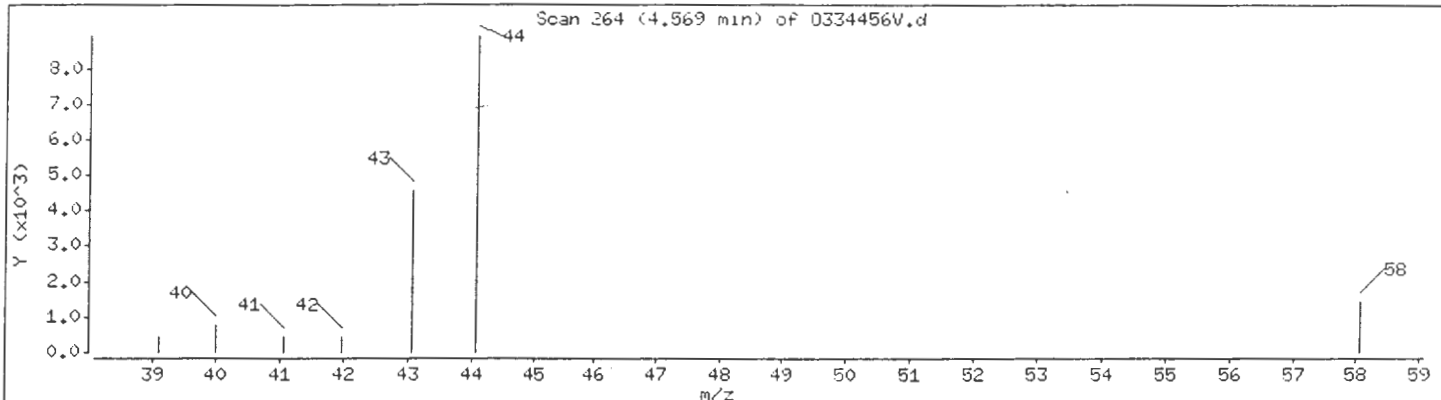
Operator: MTP

Column phase: CAP

Column diameter: 0.53

5 Acetone

Concentration: 6 ug/L



000024

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL129EV

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334457

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334457V

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL129EV

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334457

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334457V

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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26.				
27.				
28.				
29.				
30.				

Date : 30-JUN-97 11:47:39

Client ID: AL129EV

Sample Info: L#334457 CLI#AL129EV ETR#65533

Purge Volume: 5.0

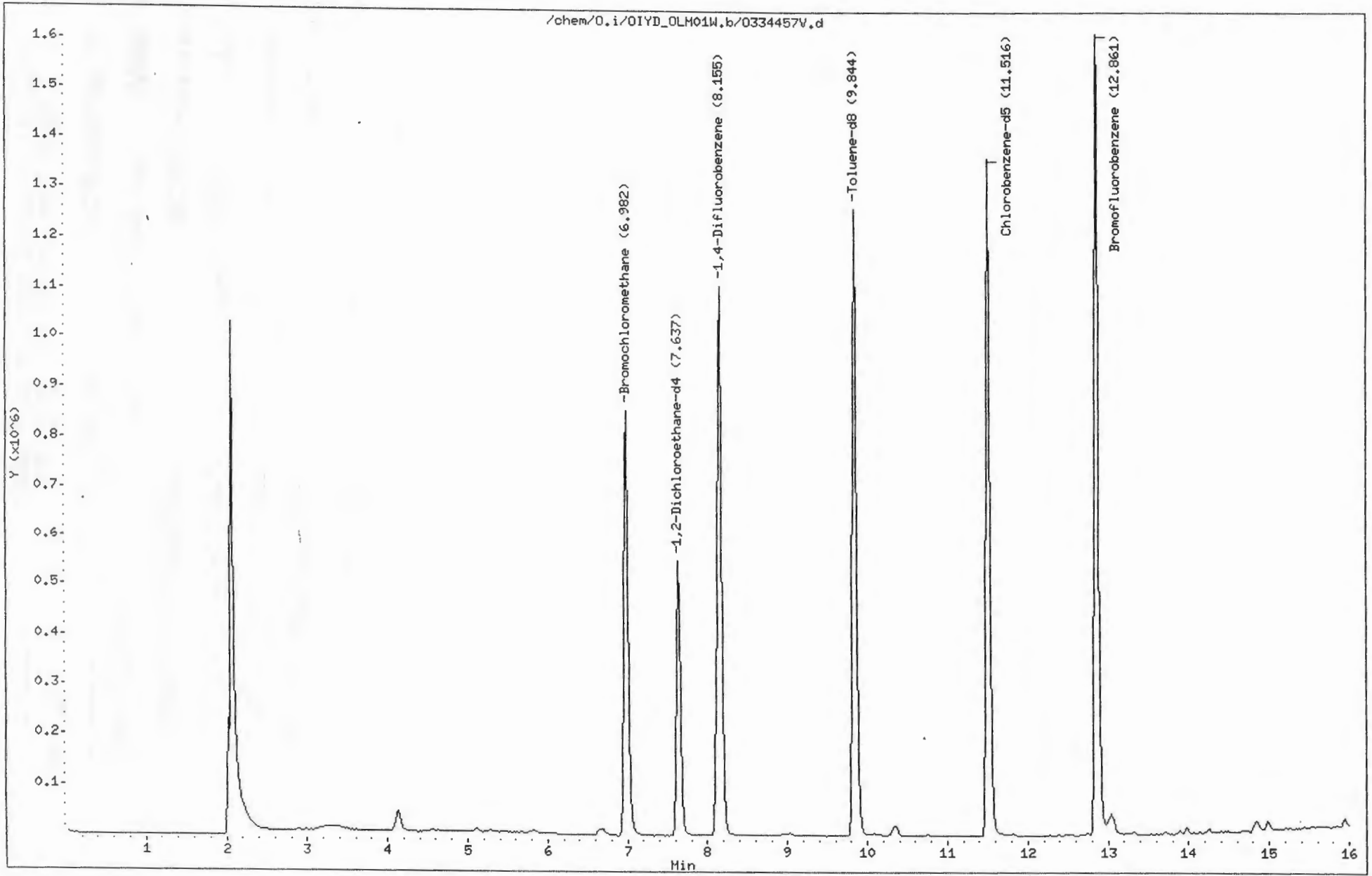
Column phase: CAP

Instrument: 0.i

Operator: MTP

Column diameter: 0.53

000250



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334457V.d
 Lab Smp Id: 334457 Client Smp ID: AL129EV
 Inj Date : 30-JUN-97 11:47:39
 Operator : MTP Inst ID: O.i
 Smp Info : L#334457 CLI#AL129EV ETR#65533
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	62.00						
3 Bromomethane	94.00						
4 Chloroethane	64.00						
5 Acetone	43.00						
6 1,1-Dichloroethene	96.00						
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene (total)	96.00						
11 1,1-Dichloroethane	63.00						
12 2-Butanone	43.00						
13 cis-1,2-Dichloroethene	96.00						
14 Chloroform	83.00						
* 15 Bromochloromethane	128	6.982	6.984	(1.000)	378089	50.0000	
16 1,1,1-Trichloroethane	97.00						

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	==	=====	=====	=====	=====	=====	
17 Carbon Tetrachloride	117.00		Compound Not Detected.					
S 18 1,2-Dichloroethane-d4	65	7.637	7.657	(1.094)	650812	48.0885	48	
19 1,2-Dichloroethane	62.00		Compound Not Detected.					
20 Benzene	78.00		Compound Not Detected.					
* 21 1,4-Difluorobenzene	114	8.155	8.158	(1.000)	1590697	50.0000		
22 Trichloroethene	130.00		Compound Not Detected.					
23 1,2-Dichloropropane	63.00		Compound Not Detected.					
24 Bromodichloromethane	83.00		Compound Not Detected.					
25 4-Methyl-2-Pentanone	43.00		Compound Not Detected.					
26 cis-1,3-Dichloropropene	75.00		Compound Not Detected.					
S 27 Toluene-d8	98	9.844	9.866	(0.855)	1503683	48.1900	48	
28 Toluene	91.00		Compound Not Detected.					
29 trans-1,3-Dichloropropene	75.00		Compound Not Detected.					
30 1,1,2-Trichloroethane	97.00		Compound Not Detected.					
31 2-Hexanone	43.00		Compound Not Detected.					
32 Tetrachloroethene	164.00		Compound Not Detected.					
33 Dibromochloromethane	129.00		Compound Not Detected.					
* 34 Chlorobenzene-d5	117	11.516	11.540	(1.000)	1344360	50.0000		
35 Chlorobenzene	112.00		Compound Not Detected.					
36 Ethylbenzene	106.00		Compound Not Detected.					
37 Xylene (m,p)	106.00		Compound Not Detected.					
M 38 Xylene (total)	106.00		Compound Not Detected.					
39 Xylene (o)	106.00		Compound Not Detected.					
40 Styrene	104.00		Compound Not Detected.					
41 Bromoform	173.00		Compound Not Detected.					
42 1,1,2,2-Tetrachloroethane	83.00		Compound Not Detected.					
S 43 Bromofluorobenzene	95	12.861	12.870	(1.117)	1121979	48.065	48	

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334457V.d
Lab Smp Id: 334457 Client Smp ID: AL129EV
Inj Date : 30-JUN-97 11:47:39
Operator : MTP Inst ID: O.i
Smp Info : L#334457 CLI#AL129EV ETR#65533
Misc Info : 100%
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL118

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Matrix: (soil/water) WATER Lab Sample ID: 334458
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334458V
 Level: (low/med) LOW Date Received: 06/26/97
 % Moisture: not dec. _____ Date Analyzed: 06/30/97
 GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL118

Lab Name: ITS ENVIRONMENTAL

Contract: 93206

Lab Code: INCHVT

Case No.: 93206

SAS No.:

SDG No.: 65533

Matrix: (soil/water) WATER

Lab Sample ID: 334458

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: 0334458V

Level: (low/med) LOW

Date Received: 06/26/97

% Moisture: not dec. _____

Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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26.				
27.				
28.				
29.				
30.				

Date : 30-JUN-97 12:13:22

Client ID: AL118

Sample Info: L#334458 CLI#AL118 ETR#65533

Purge Volume: 5.0

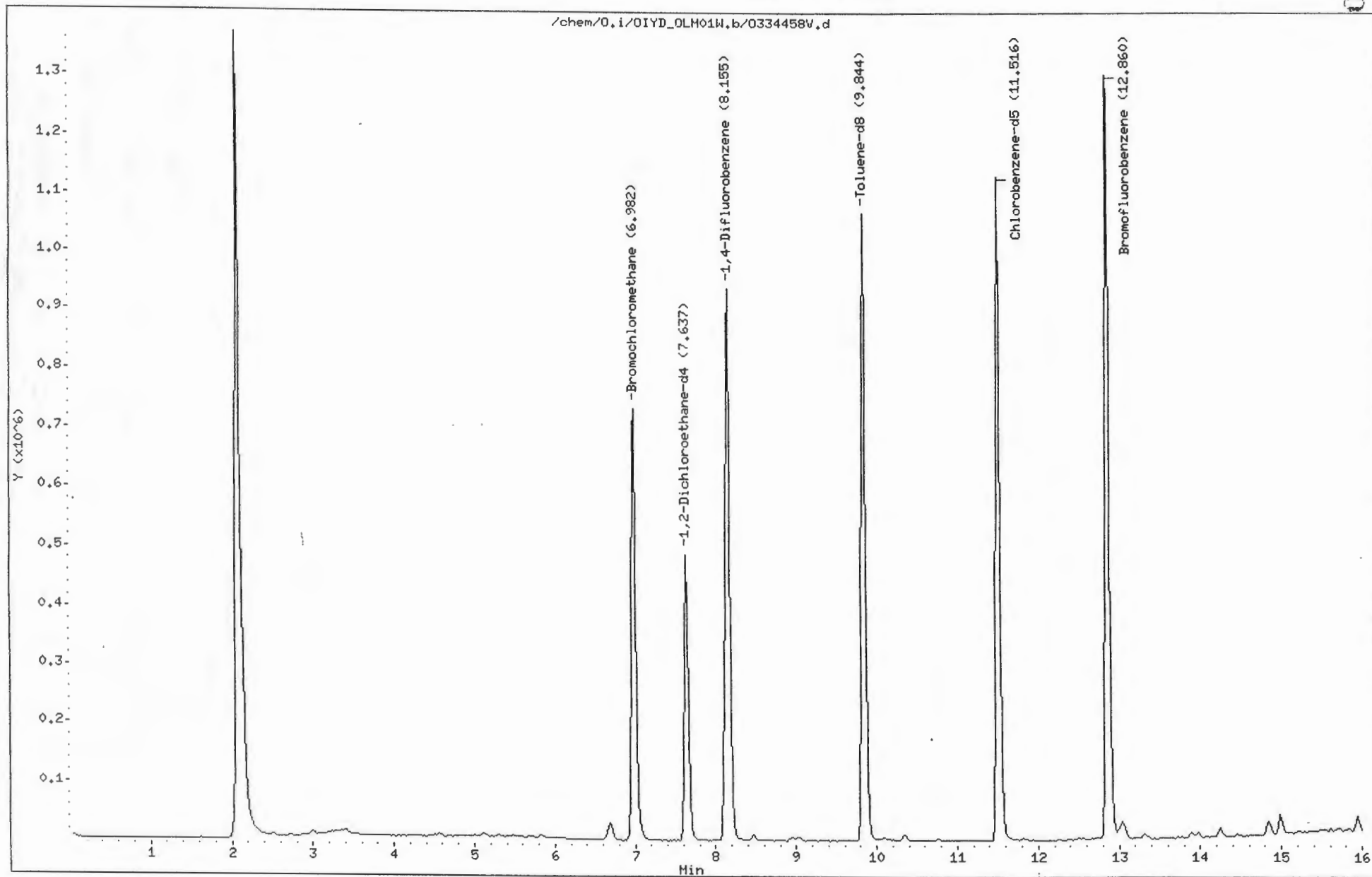
Column phase: CAP

Instrument: 0.i

Operator: HTP

Column diameter: 0.53

000256



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334458V.d
 Lab Smp Id: 334458 Client Smp ID: AL118
 Inj Date : 30-JUN-97 12:13:22
 Operator : MTP Inst ID: O.i
 Smp Info : L#334458 CLI#AL118 ETR#65533
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00							
2 Vinyl Chloride	52.00							
3 Bromomethane	94.00							
4 Chloroethane	64.00							
5 Acetone	43		4.552	4.552	(0.652)	12508	5.13054	5(a)
6 1,1-Dichloroethene	96.00							
7 Methylene Chloride	84.00							
8 Carbon Disulfide	76.00							
9 trans-1,2-Dichloroethene	96.00							
M 10 1,2-Dichloroethene (total)	96.00							
11 1,1-Dichloroethane	63.00							
12 2-Butanone	43.00							
13 cis-1,2-Dichloroethene	96.00							
14 Chloroform	83.00							
* 15 Bromochloromethane	128		6.982	6.984	(1.000)	327416	50.0000	
16 1,1,1-Trichloroethane	97.00							

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
17 Carbon Tetrachloride	117.00				Compound Not Detected.		
\$ 18 1,2-Dichloroethane-d4	65	7.637	7.657	(1.094)	587374	50.1181	50
19 1,2-Dichloroethane	62.00				Compound Not Detected.		
20 Benzene	78.00				Compound Not Detected.		
* 21 1,4-Difluorobenzene	114	8.155	8.158	(1.000)	1341313	50.0000	
22 Trichloroethene	130.00				Compound Not Detected.		
23 1,2-Dichloropropane	63.00				Compound Not Detected.		
24 Bromodichloromethane	83.00				Compound Not Detected.		
25 4-Methyl-2-Pentanone	43.00				Compound Not Detected.		
26 cis-1,3-Dichloropropene	75.00				Compound Not Detected.		
\$ 27 Toluene-d8	98	9.844	9.866	(0.855)	1263437	48.4519	48
28 Toluene	91.00				Compound Not Detected.		
29 trans-1,3-Dichloropropene	75.00				Compound Not Detected.		
30 1,1,2-Trichloroethane	97.00				Compound Not Detected.		
31 2-Hexanone	43.00				Compound Not Detected.		
32 Tetrachloroethene	164.00				Compound Not Detected.		
33 Dibromochloromethane	129.00				Compound Not Detected.		
* 34 Chlorobenzene-d5	117	11.516	11.540	(1.000)	1123463	50.0000	
35 Chlorobenzene	112.00				Compound Not Detected.		
36 Ethylbenzene	106.00				Compound Not Detected.		
37 Xylene (m,p)	106.00				Compound Not Detected.		
M 38 Xylene (total)	106.00				Compound Not Detected.		
39 Xylene (o)	106.00				Compound Not Detected.		
40 Styrene	104.00				Compound Not Detected.		
41 Bromoform	173.00				Compound Not Detected.		
42 1,1,2,2-Tetrachloroethane	83.00				Compound Not Detected.		
\$ 43 Bromofluorobenzene	95	12.860	12.870	(1.117)	921942	47.2620	47

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334458V.d
Lab Smp Id: 334458 Client Smp ID: AL118
Inj Date : 30-JUN-97 12:13:22
Operator : MTP Inst ID: O.i
Smp Info : L#334458 CLI#AL118 ETR#65533
Misc Info : 100%
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Date : 30-JUN-97 12:13:22

Client ID: AL118

Instrument: 0,i

Sample Info: L#334458 CLI#AL118 ETR#65533

Purge Volume: 5.0

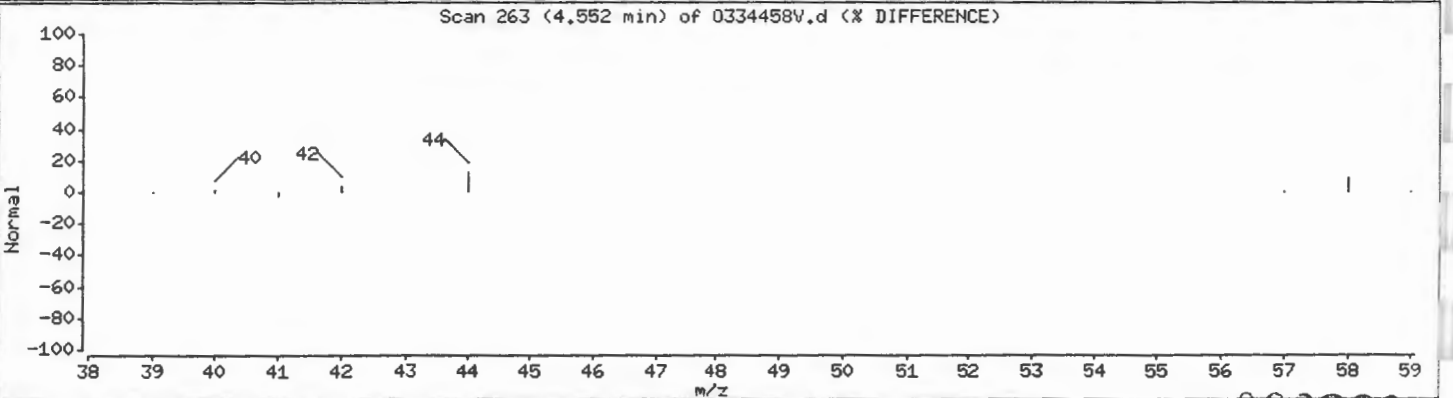
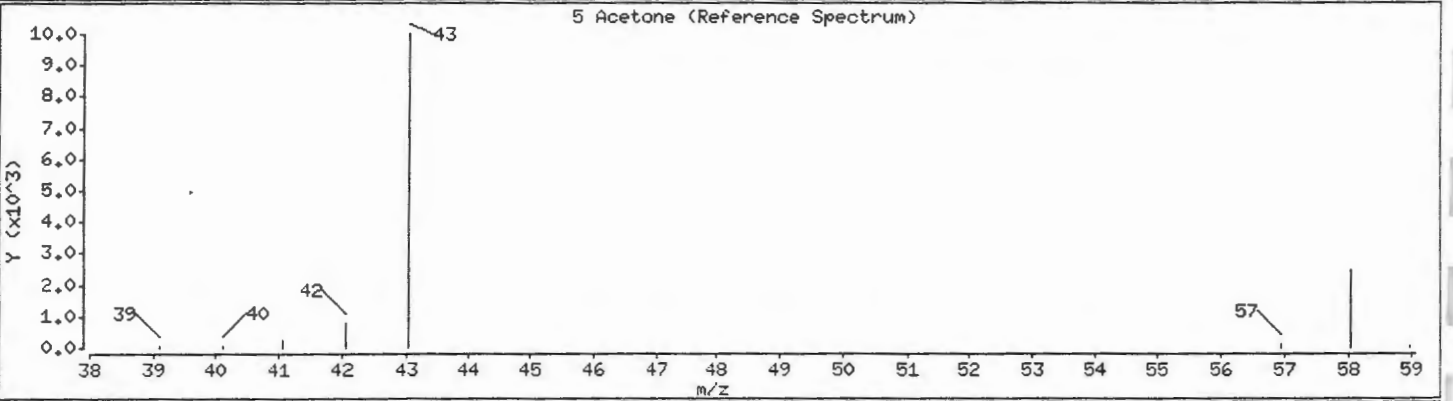
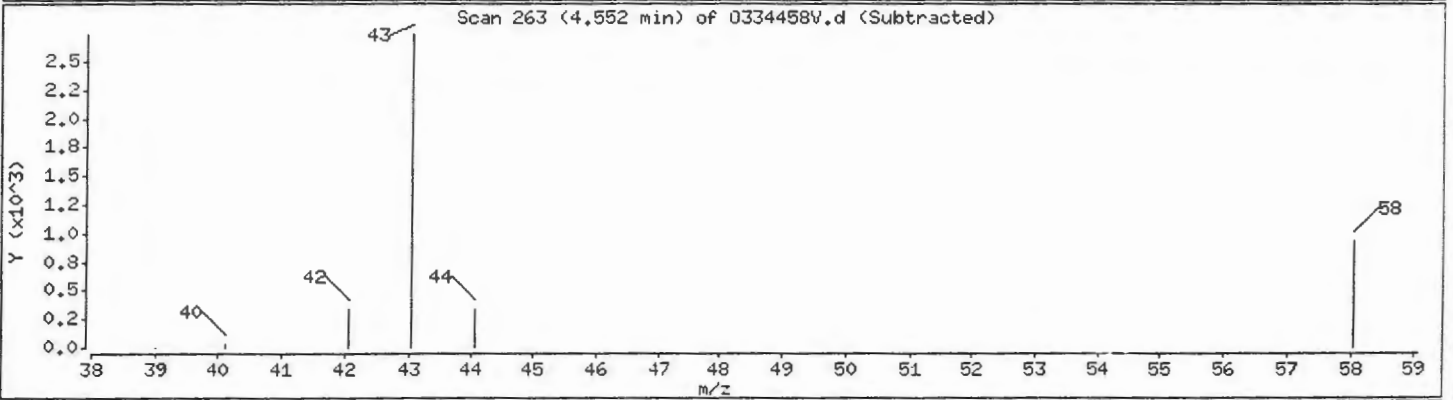
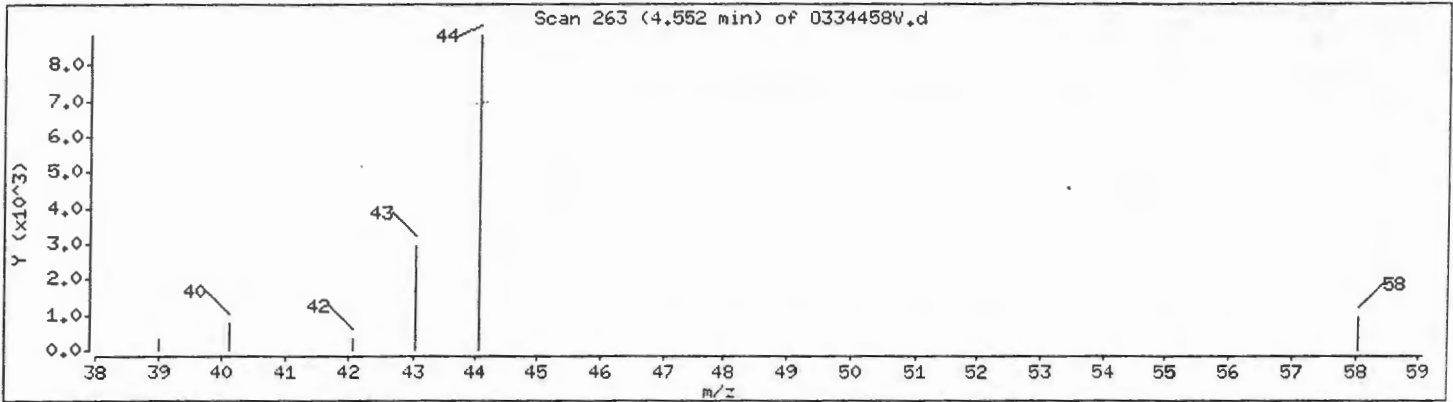
Operator: MTP

Column phase: CAP

Column diameter: 0,53

5 Acetone

Concentration: 5 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL117

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Matrix: (soil/water) WATER Lab Sample ID: 334459
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334459V
 Level: (low/med) LOW Date Received: 06/26/97
 % Moisture: not dec. _____ Date Analyzed: 06/30/97
 GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	5	J
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	100	
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	26	
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL117

Lab Name: ITS ENVIRONMENTAL

Contract: 93206

Lab Code: INCHVT

Case No.: 93206

SAS No.:

SDG No.: 65533

Matrix: (soil/water) WATER

Lab Sample ID: 334459

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: O334459V

Level: (low/med) LOW

Date Received: 06/26/97

% Moisture: not dec. _____

Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

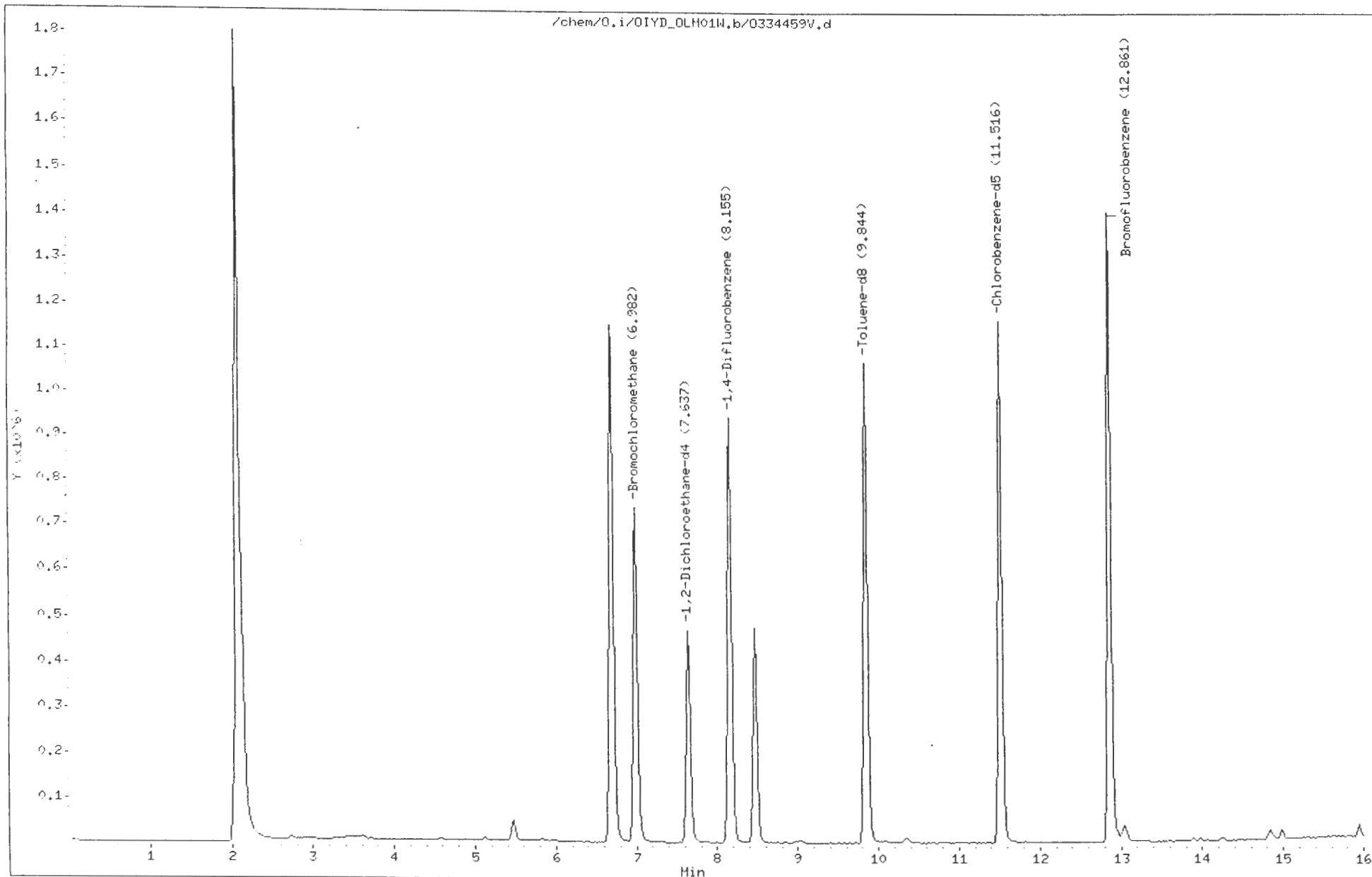
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: /chem/0.1/01YD_OLH01W,b/0334459W.d
Date : 30-JUN-97 12:39:43
Client ID: AL117
Sample Info: L#334459 CLI#AL117 ETP#65533
Purge Volume: 5.0
Column phase: CAP

Instrument: 0.i
Operator: HTP
Column diameter: 0.53

000000



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334459V.d
 Lab Smp Id: 334459 Client Smp ID: AL117
 Inj Date : 30-JUN-97 12:39:43
 Operator : MTP Inst ID: O.i
 Smp Info : L#334459 CLI#AL117 ETR#65533
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00							
2 Vinyl Chloride	62.00							
3 Bromomethane	94.00							
4 Chloroethane	64.00							
5 Acetone	43		4.569	4.552	(0.654)	11216	4.66848	5 (a)
6 1,1-Dichloroethene	96.00							
7 Methylene Chloride	84.00							
8 Carbon Disulfide	76.00							
9 trans-1,2-Dichloroethene	96		5.482	5.484	(0.785)	30665	3.33404	3 (a)
M 10 1,2-Dichloroethene (total)	96					937124	101.699	100
11 1,1-Dichloroethane	63.00							
12 2-Butanone	43.00							
13 cis-1,2-Dichloroethene	96		6.706	6.708	(0.960)	906459	98.1885	98
14 Chloroform	83.00							
* 15 Bromochloromethane	128		6.982	6.984	(1.000)	322654	50.0000	
16 1,1,1-Trichloroethane	97.00							

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	DN-COLUMN ug/L	FINAL ug/L
17 Carbon Tetrachloride	117.00					Compound Not Detected.		
S 18 1,0-Dichloroethane-d4	65		7.637	7.657	1.004	474637	49.7549	50
19 1,2-Dichloroethane	62.00					Compound Not Detected.		
20 Benzene	78.00					Compound Not Detected.		
* 21 1,4-Difluorobenzene	114		8.155	8.158	1.000	1326919	50.0000	
22 Trichloroethene	130		8.465	8.486	1.038	170982	25.8496	26
23 1,2-Dichloropropane	63.00					Compound Not Detected.		
24 Bromodichloromethane	83.00					Compound Not Detected.		
25 4-Methyl-2-Pentanone	43.00					Compound Not Detected.		
26 cis-1,3-Dichloropropene	75.00					Compound Not Detected.		
S 27 Toluene-d8	98		9.344	9.366	(0.855)	1256741	47.8575	48
28 Toluene	91.00					Compound Not Detected.		
29 trans-1,3-Dichloropropene	75.00					Compound Not Detected.		
30 1,1,2-Trichloroethane	97.00					Compound Not Detected.		
31 2-Hexanone	43.00					Compound Not Detected.		
32 Tetrachloroethene	164.00					Compound Not Detected.		
33 Dibromochloromethane	129.00					Compound Not Detected.		
* 34 Chlorobenzene-d5	117		11.516	11.540	1.000	1131390	50.0000	
35 Chlorobenzene	112.00					Compound Not Detected.		
36 Ethylbenzene	106.00					Compound Not Detected.		
37 Xylene (m,p)	106.00					Compound Not Detected.		
M 38 Xylene (total)	106.00					Compound Not Detected.		
39 Xylene (o)	106.00					Compound Not Detected.		
40 Styrene	104.00					Compound Not Detected.		
41 Bromoform	173.00					Compound Not Detected.		
42 1,1,2,2-Tetrachloroethane	83.00					Compound Not Detected.		
S 43 Bromofluorobenzene	95		12.861	12.870	(1.117)	242660	47.9855	48

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334459V.d
Lab Smp Id: 334459 Client Smp ID: AL117
Inj Date : 30-JUN-97 12:39:43
Operator : MTP Inst ID: O.i
Smp Info : L#334459 CLI#AL117 ETR#65533
Misc Info : 100%
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Date : 30-JUN-97 12:39:43

Client ID: AL117

Instrument: 0.1

Sample Info: L#334459 CLI#AL117 ETR#65533

Purge Volume: 5.0

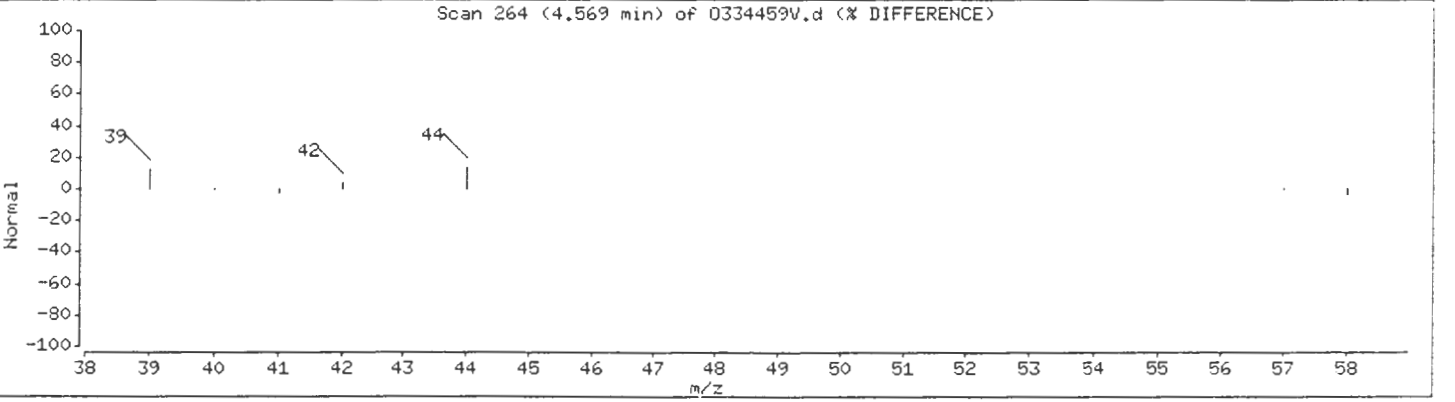
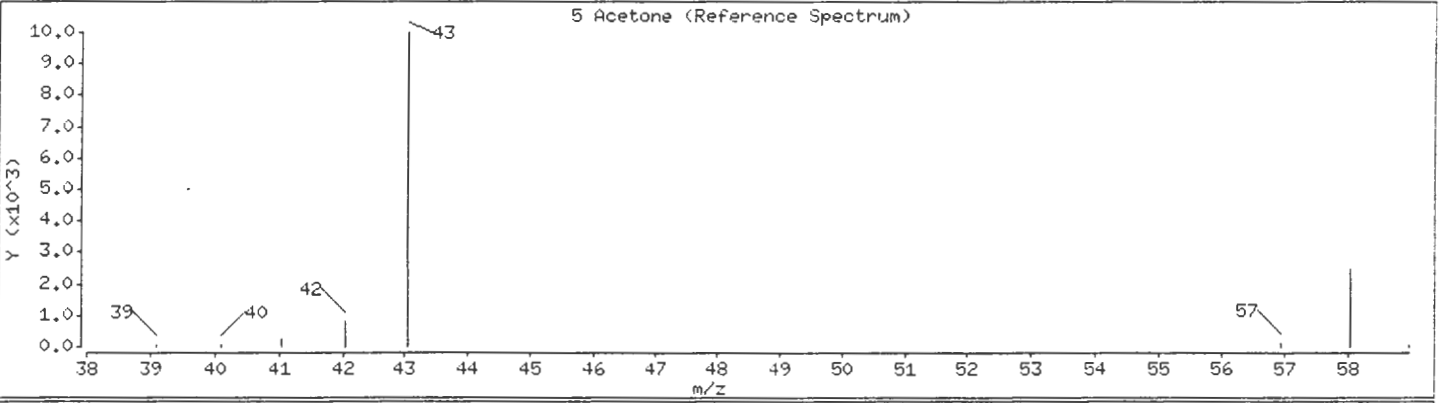
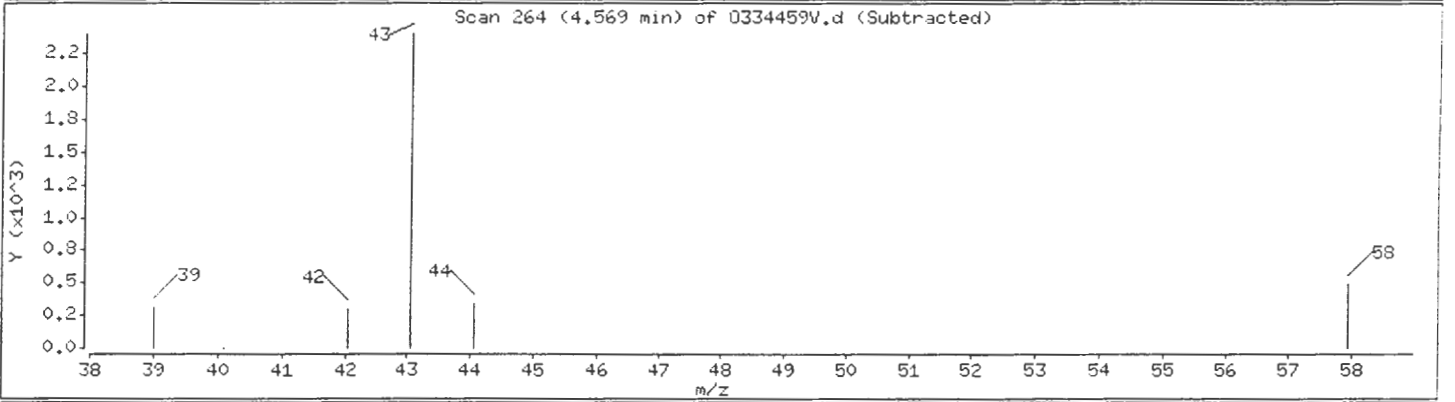
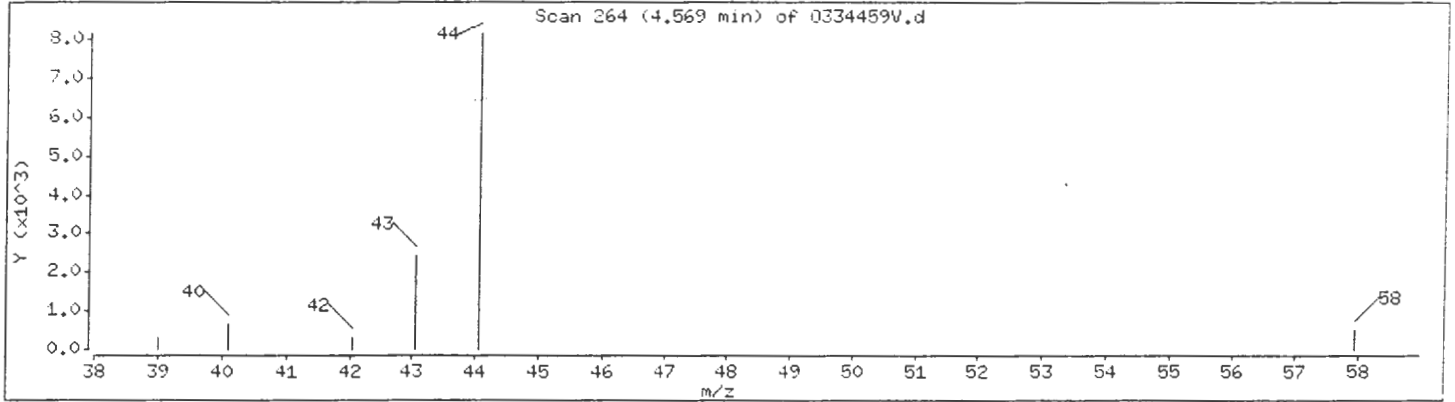
Operator: HTP

Column phase: CAP

Column diameter: 0.53

5 Acetone

Concentration: 5 ug/L



Date : 30-JUN-97 12:39:43

Client ID: AL117

Instrument: 0.i

Sample Info: L#334459 CLI#AL117 ETR#65533

Purge Volume: 5.0

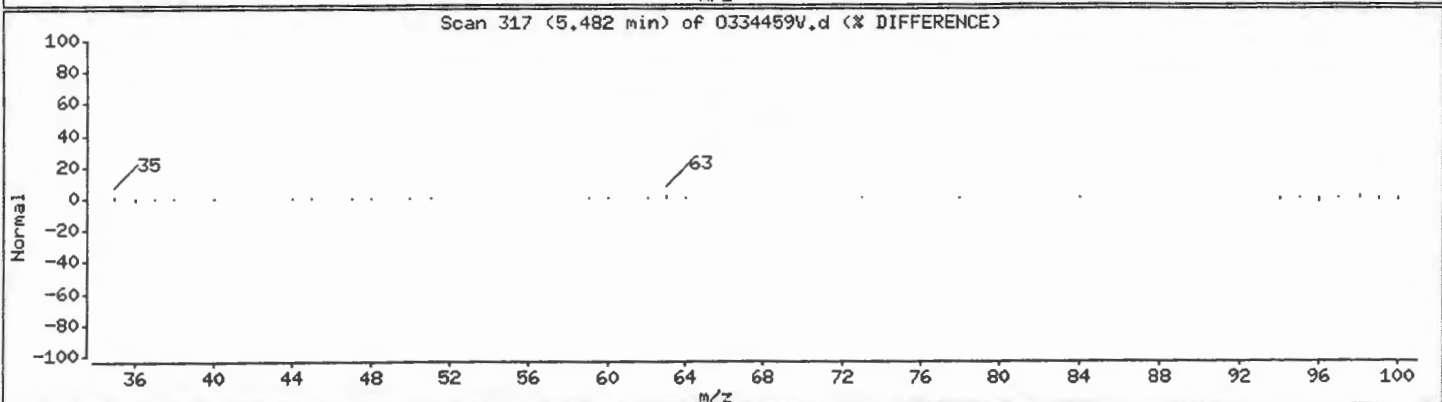
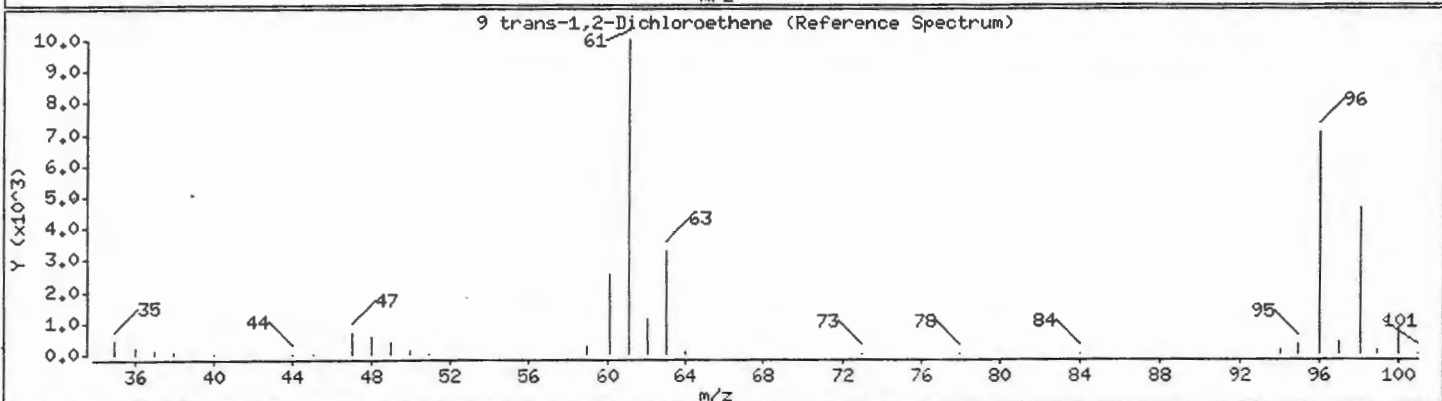
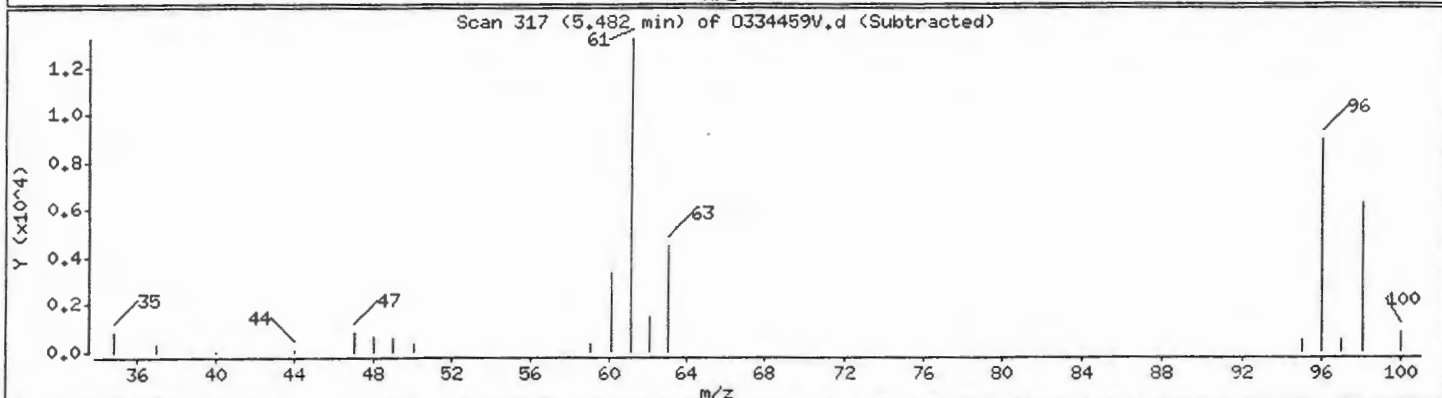
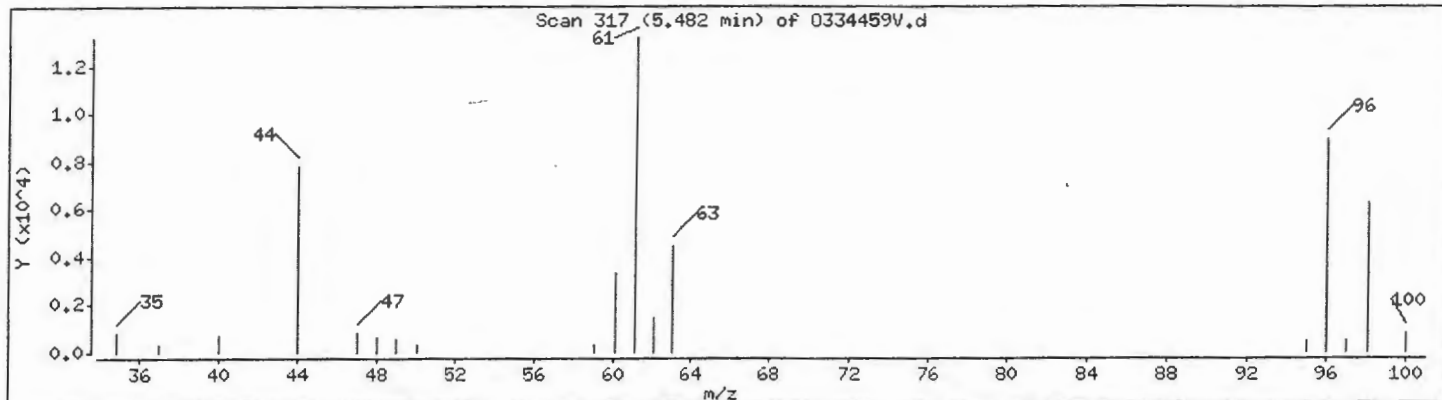
Operator: MTP

Column phase: CAP

Column diameter: 0.53

9 trans-1,2-Dichloroethene

Concentration: 3 ug/L



Date : 30-JUN-97 12:39:43

Client ID: AL117

Instrument: 0.i

Sample Info: L#334459 CLI#AL117 ETR#65533

Purge Volume: 5.0

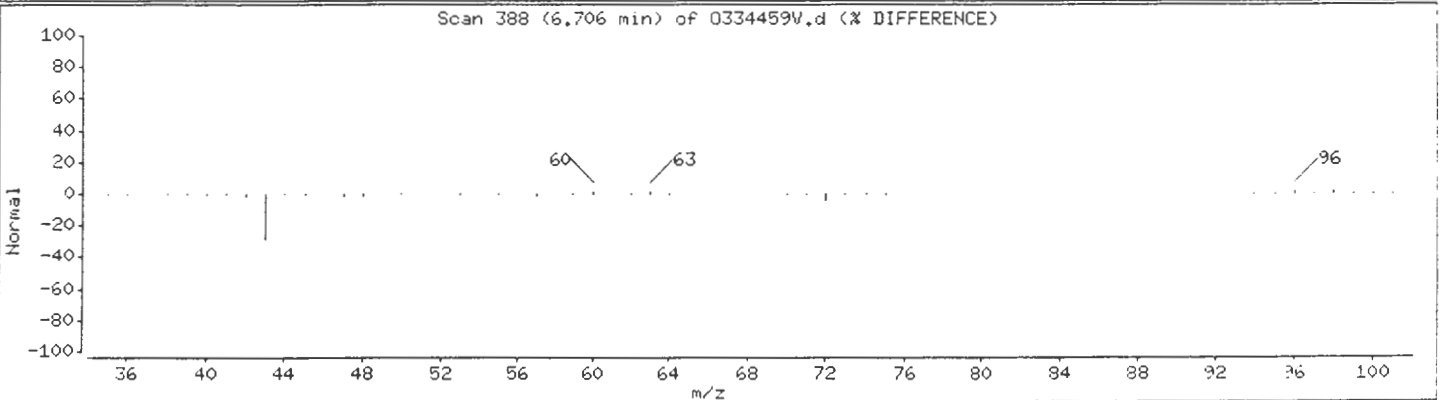
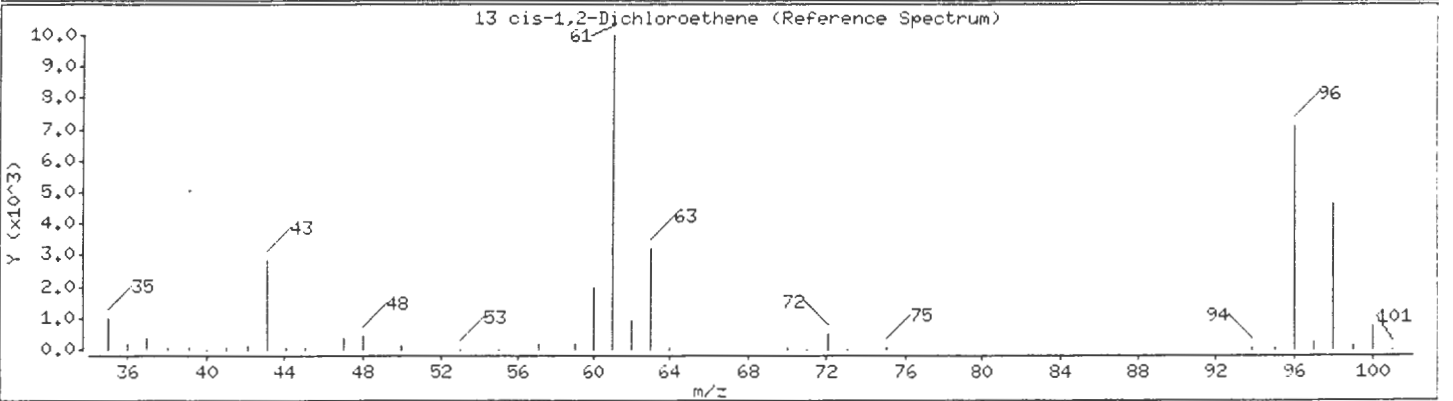
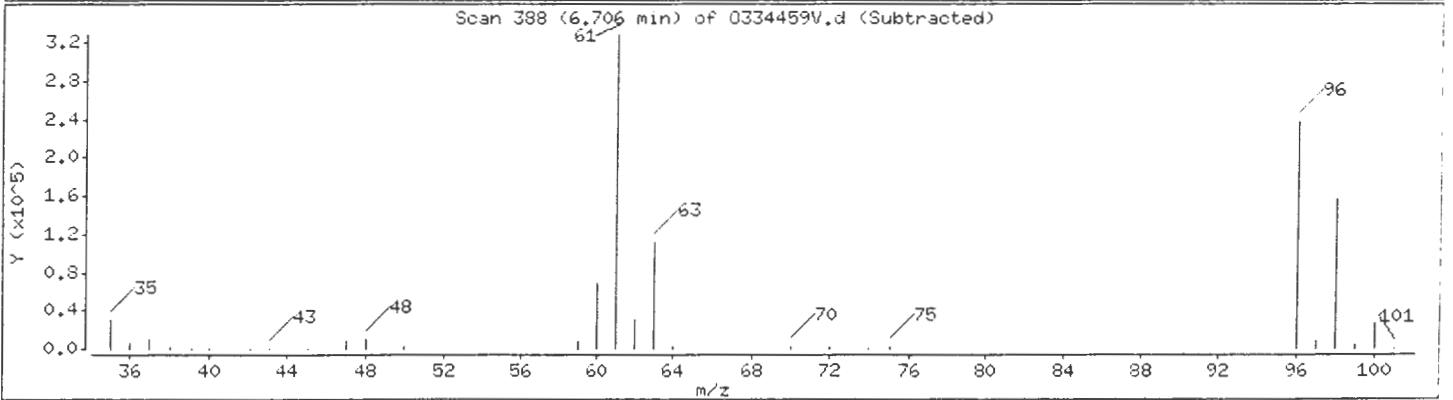
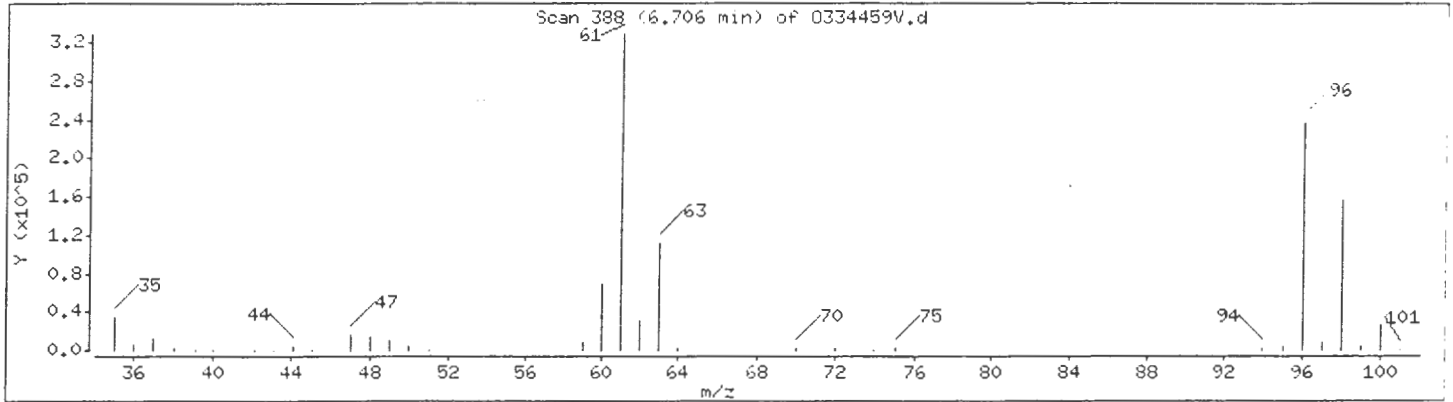
Operator: MTP

Column phase: CAP

Column diameter: 0.53

13 cis-1,2-Dichloroethene

Concentration: 98 ug/L



Date : 30-JUN-97 12:39:43

Client ID: AL117

Instrument: 0.i

Sample Info: L#334459 CLI# 0117 ETR#65533

Purge Volume: 5.0

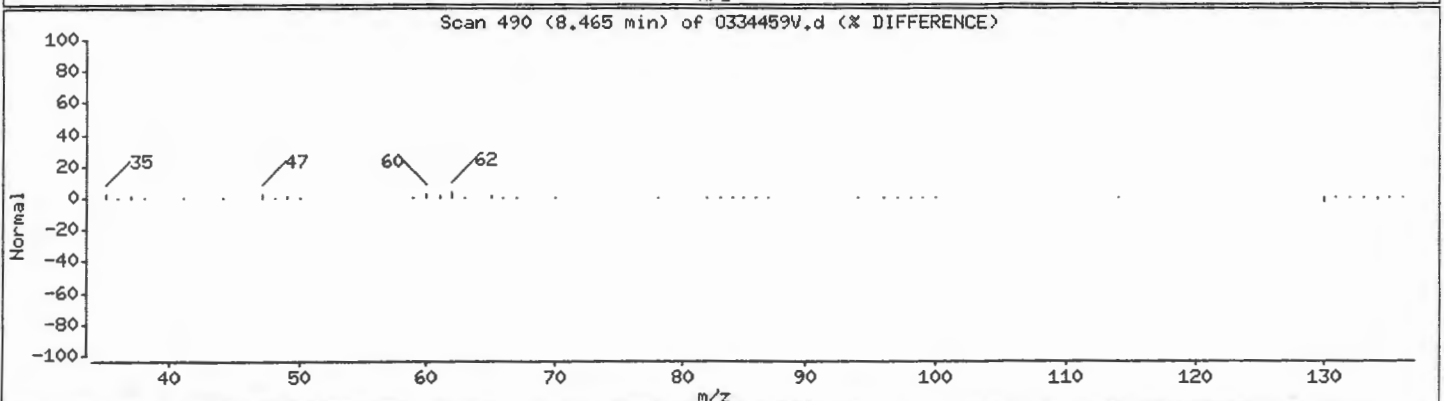
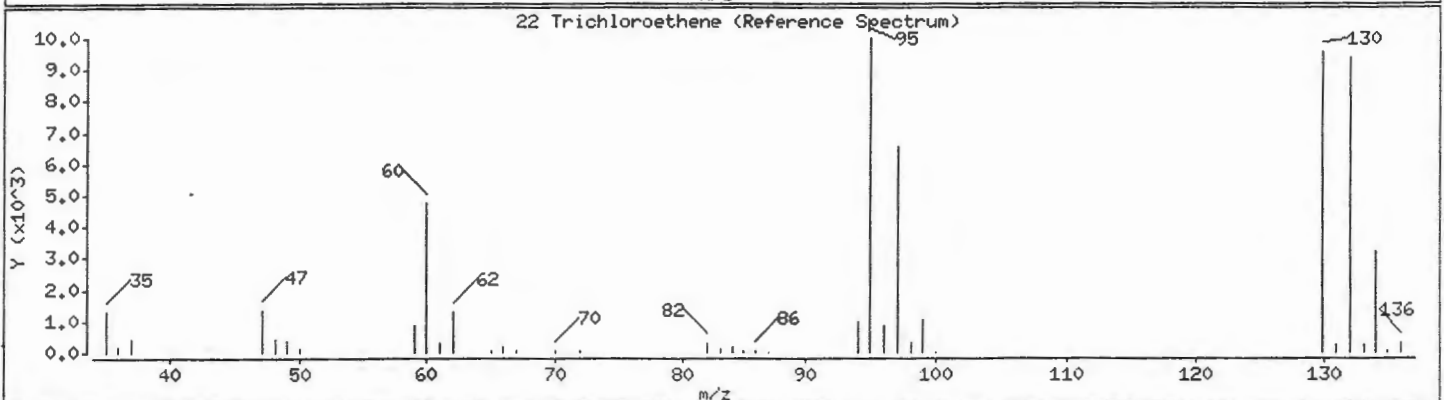
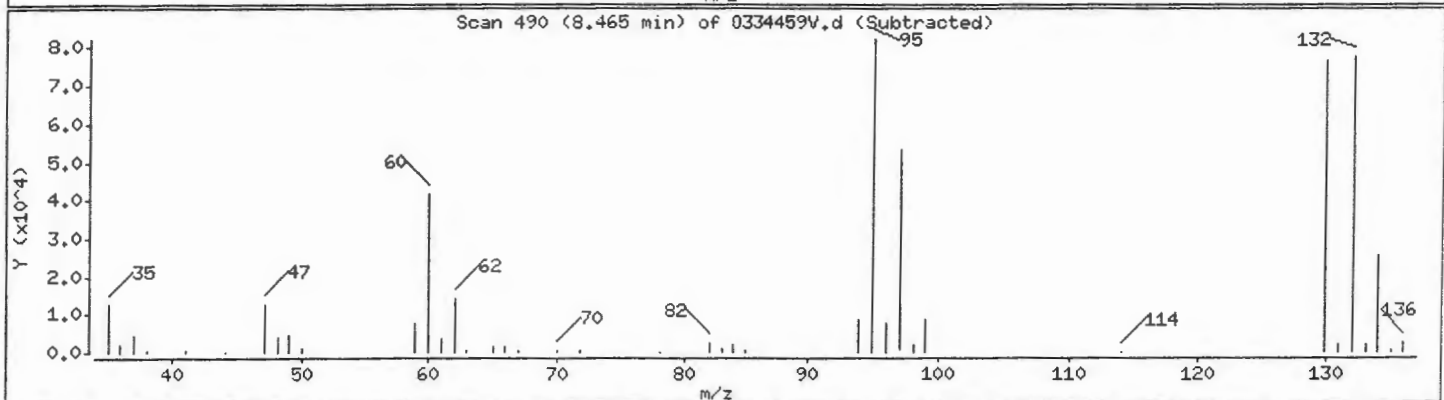
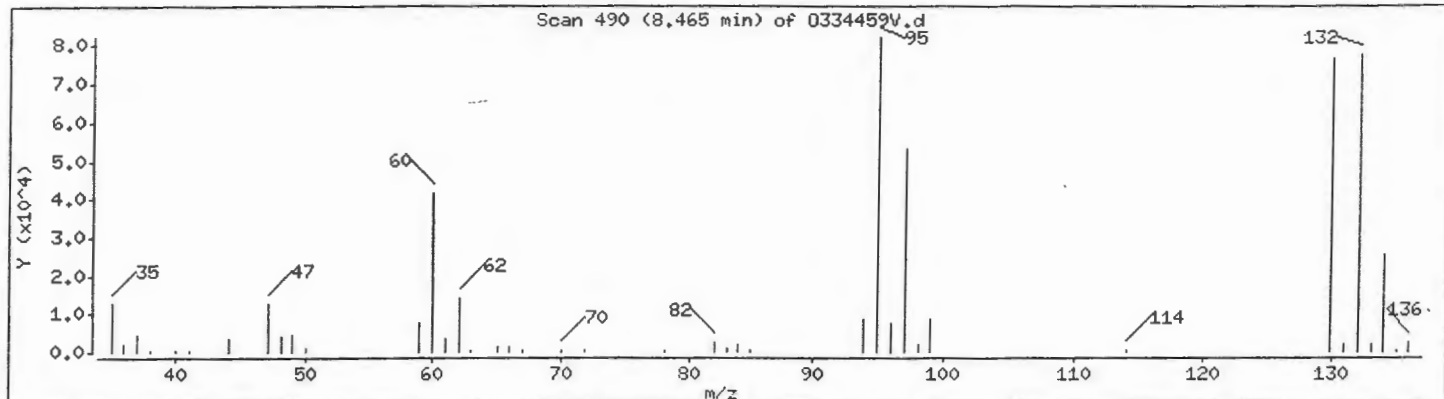
Operator: MTP

Column phase: CAP

Column diameter: 0.53

22 Trichloroethene

Concentration: 26 ug/L



**VOLATILE ORGANIC ANALYSIS
STANDARDS**

THE UNIVERSITY OF CHICAGO
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5A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Instrument ID: 0 Calibration Date(s): 06/20/97 06/20/97
 Heated Purge: (Y/N) N Calibration Time(s): 1321 1546
 GC Column: CAP ID: 0.53 (mm)

LAB FILE ID:	RRF10 =OIT010HHV	RRF20 =OIT020HHV					
RRF50 =OIT050HHV	RRF100=OIY100HV	RRF200=OIY200HV					
COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Chloromethane	1.884	1.669	1.673	1.681	1.713	1.724	5.3
Bromomethane	* 1.612	1.259	1.448	1.210	1.473	1.400	11.8*
Vinyl Chloride	* 1.808	1.624	1.616	1.628	1.683	1.672	4.8*
Chloroethane	1.084	0.871	0.970	0.831	0.833	0.918	11.8
Methylene Chloride	1.593	1.366	1.450	1.291	1.497	1.439	8.1
Acetone	0.842	0.408	0.541	0.552	0.348	0.538	35.4
Carbon Disulfide	4.700	3.941	4.377	3.808	4.508	4.267	8.9
1,1-Dichloroethene	* 1.562	1.324	1.460	1.267	1.503	1.423	8.7*
1,1-Dichloroethane	* 3.037	2.657	2.764	2.600	2.731	2.758	6.1*
1,2-Dichloroethene (total)	1.682	1.450	1.553	1.418	1.534	1.527	6.7
Chloroform	* 3.619	3.190	3.172	3.102	3.111	3.239	6.7*
1,2-Dichloroethane	* 2.280	2.045	2.022	2.059	2.010	2.083	5.4*
2-Butanone	1.011	0.651	0.726	0.704	0.587	0.736	22.1
1,1,1-Trichloroethane	* 0.714	0.673	0.650	0.672	0.646	0.671	4.0*
Carbon Tetrachloride	* 0.614	0.601	0.587	0.624	0.603	0.606	2.3*
Bromodichloromethane	* 0.834	0.785	0.790	0.812	0.791	0.802	2.5*
1,2-Dichloropropane	0.444	0.402	0.409	0.401	0.400	0.411	4.6
cis-1,3-Dichloropropene	* 0.649	0.594	0.608	0.603	0.599	0.611	3.6*
Trichloroethene	* 0.443	0.403	0.416	0.412	0.411	0.417	3.6*
Dibromochloromethane	* 0.712	0.682	0.695	0.793	0.760	0.728	6.4*
1,1,2-Trichloroethane	* 0.399	0.364	0.373	0.414	0.399	0.390	5.3*
Benzene	* 0.954	0.862	0.885	0.855	0.847	0.881	4.9*
trans-1,3-Dichloropropene	* 0.582	0.533	0.537	0.593	0.564	0.562	4.7*
Bromoform	* 0.646	0.637	0.610	0.722	0.681	0.659	6.6*
4-Methyl-2-Pentanone	0.500	0.416	0.406	0.372	0.383	0.415	12.1
2-Hexanone	0.463	0.284	0.352	0.366	0.274	0.348	21.8
Tetrachloroethene	* 0.497	0.466	0.469	0.457	0.458	0.469	3.4*
1,1,2,2-Tetrachloroethane	* 0.818	0.784	0.694	0.718	0.696	0.742	7.5*
Toluene	* 1.223	1.138	1.114	0.969	1.056	1.100	8.6*
Chlorobenzene	* 0.994	0.912	0.924	0.899	0.901	0.926	4.2*
Ethylbenzene	* 0.460	0.419	0.421	0.416	0.415	0.426	4.4*
Styrene	* 0.992	0.974	0.938	0.905	0.882	0.938	4.9*
Xylene (total)	* 0.577	0.578	0.531	0.525	0.513	0.545	5.6*
Toluene-d8	1.206	1.101	1.081	0.949	1.032	1.074	8.8
Bromofluorobenzene	* 0.966	0.924	0.865	0.946	0.812	0.883	7.0*
1,2-Dichloroethane-d4	2.138	1.884	1.848	1.895	1.851	1.923	6.3

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.

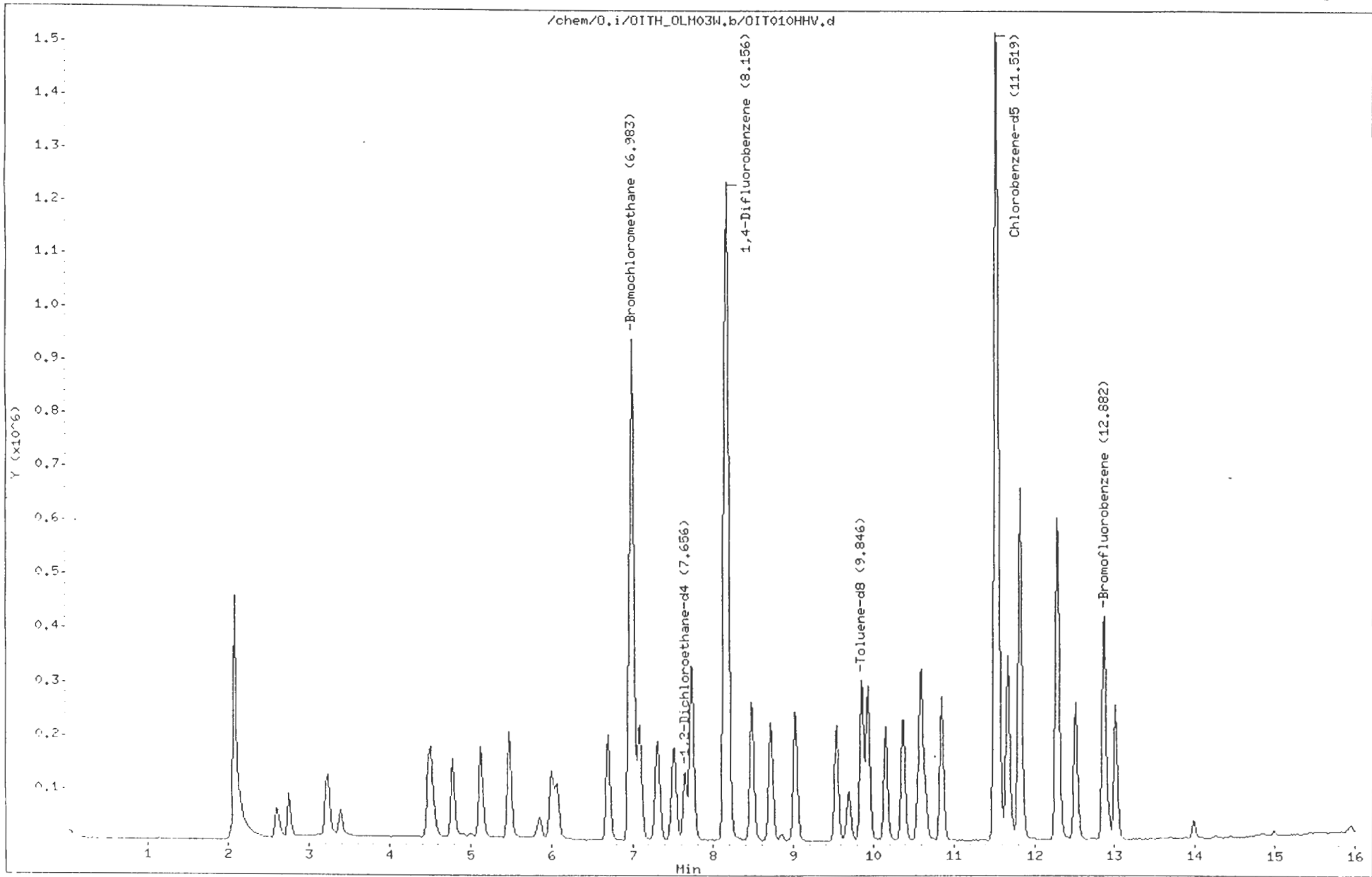
7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Instrument ID: O Calibration Date: 06/30/97 Time: 0841
 Lab File ID: OIY050DHV Init. Calib. Date(s): 06/20/97 06/20/97
 Heated Purge: (Y/N) N Init. Calib. Times: 1321 1546
 GC Column: CAP ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.724	1.322		23.3	
Bromomethane	1.400	1.159	0.100	17.2	25.0
Vinyl Chloride	1.672	1.275	0.100	23.7	25.0
Chloroethane	0.918	0.788		14.2	
Methylene Chloride	1.439	1.292		10.2	
Acetone	0.538	0.372		30.8	
Carbon Disulfide	4.267	3.776		11.5	
1,1-Dichloroethene	1.423	1.246	0.100	12.4	25.0
1,1-Dichloroethane	2.758	2.465	0.200	10.6	25.0
1,2-Dichloroethene (total)	1.527	1.428		6.5	
Chloroform	3.239	3.174	0.200	2.0	25.0
1,2-Dichloroethane	2.083	1.803	0.100	13.4	25.0
2-Butanone	0.736	0.652		11.4	
1,1,1-Trichloroethane	0.671	0.619	0.100	7.7	25.0
Carbon Tetrachloride	0.606	0.569	0.100	6.1	25.0
Bromodichloromethane	0.802	0.757	0.200	5.6	25.0
1,2-Dichloropropane	0.411	0.390		5.1	
cis-1,3-Dichloropropene	0.611	0.577	0.200	5.6	25.0
Trichloroethene	0.417	0.395	0.300	5.3	25.0
Dibromochloromethane	0.728	0.672	0.100	7.7	25.0
1,1,2-Trichloroethane	0.390	0.366	0.100	6.2	25.0
Benzene	0.881	0.848	0.500	3.7	25.0
trans-1,3-Dichloropropene	0.562	0.513	0.100	8.7	25.0
Bromoform	0.659	0.607	0.100	7.9	25.0
4-Methyl-2-Pentanone	0.415	0.464		-11.8	
2-Hexanone	0.348	0.331		4.9	
Tetrachloroethene	0.469	0.462	0.200	1.5	25.0
1,1,2,2-Tetrachloroethane	0.742	0.724	0.500	2.4	25.0
Toluene	1.100	1.107	0.400	-0.6	25.0
Chlorobenzene	0.926	0.900	0.500	2.8	25.0
Ethylbenzene	0.426	0.406	0.100	4.7	25.0
Styrene	0.938	0.888	0.300	5.3	25.0
Xylene (total)	0.545	0.497	0.300	8.8	25.0
Toluene-d8	1.074	1.160		-8.0	
Bromofluorobenzene	0.883	0.868	0.200	1.7	25.0
1,2-Dichloroethane-d4	1.923	1.790		6.9	

All other compounds must meet a minimum RRF of 0.010.

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~~000273~~
273



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OITH_OLM03W.b/OIT010HHV.d
 Lab Smp Id: VSTD010 Client Smp ID: VSTD010
 Inj Date : 20-JUN-97 14:23:00 MS Autotune Date:
 Operator : MTP Inst ID: O.i
 Smp Info : VSTD010 CRV#OIY
 Misc Info :
 Comment :
 Method : /chem/O.i/OITH_OLM03W.b/VOA_OLM03.m
 Meth Date : 27-Jun-97 14:11:06 cmp Quant Type: ISTD
 Cal Date : 20-JUN-97 13:21:00 Cal File: OIT050HHV.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000 Compound Sublist: OLM.sub
 Integrator: HP RTE
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
1 Chloromethane	50		2.587	2.587	(0.370)	147515	10.0000	11
2 Vinyl Chloride	62		2.742	2.742	(0.393)	141591	10.0000	11
3 Bromomethane	94		3.225	3.208	(0.462)	126256	10.0000	12
4 Chloroethane	64		3.380	3.363	(0.484)	84862	10.0000	12
5 Acetone	43		4.552	4.552	(0.652)	65943	10.0000	16
6 1,1-Dichloroethene	96		4.500	4.483	(0.644)	122320	10.0000	11
7 Methylene Chloride	84		5.121	5.122	(0.733)	124745	10.0000	11
8 Carbon Disulfide	76		4.776	4.759	(0.684)	368053	10.0000	11
9 trans-1,2-Dichloroethene	96		5.483	5.484	(0.785)	134682	10.0000	11
M 10 1,2-Dichloroethene (total)	96					263327	20.0000	22
11 1,1-Dichloroethane	63		6.000	6.001	(0.859)	237770	10.0000	11
12 2-Butanone	72		6.707	6.708	(0.960)	12640	10.0000	12(a)
13 cis-1,2-Dichloroethene	96		6.707	6.708	(0.960)	128645	10.0000	11
14 Chloroform	83		7.086	7.088	(1.015)	283394	10.0000	11
* 15 Bromochloromethane	128		6.983	6.984	(1.000)	391501	50.0000	
16 1,1,1-Trichloroethane	97		7.311	7.312	(0.896)	247718	10.0000	11

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	==	=====	=====	=====	=====	=====
17 Carbon Tetrachloride	117	7.518	7.519	(0.922)	213219	10.0000	10
\$ 18 1,2-Dichloroethane-d4	65	7.656	7.657	(1.096)	167429	10.0000	11
19 1,2-Dichloroethane	62	7.742	7.744	(1.109)	178534	10.0000	11
20 Benzene	78	7.725	7.727	(0.947)	331138	10.0000	11
* 21 1,4-Difluorobenzene	114	8.156	8.158	(1.000)	1735347	50.0000	
22 Trichloroethene	130	8.484	8.486	(1.040)	153690	10.0000	11
23 1,2-Dichloropropane	63	8.708	8.710	(1.068)	154182	10.0000	11
24 Bromodichloromethane	83	9.018	9.038	(1.106)	289510	10.0000	10
25 4-Methyl-2-Pentanone	43	9.691	9.693	(0.841)	152323	10.0000	12
26 cis-1,3-Dichloropropene	75	9.536	9.538	(1.169)	225289	10.0000	11
\$ 27 Toluene-d8	98	9.846	9.866	(0.855)	367681	10.0000	11
28 Toluene	91	9.932	9.935	(0.862)	372785	10.0000	11
29 trans-1,3-Dichloropropene	75	10.157	10.160	(1.245)	202104	10.0000	10
30 1,1,2-Trichloroethane	97	10.321	10.384	(1.273)	138558	10.0000	10
31 2-Hexanone	43	10.640	10.643	(0.924)	140388	10.0000	13
32 Tetrachloroethene	164	10.588	10.591	(0.919)	151379	10.0000	10
33 Dibromochloromethane	129	10.847	10.851	(1.330)	246981	10.0000	10
* 34 Chlorobenzene-d5	117	11.519	11.540	(1.000)	1524081	50.0000	
35 Chlorobenzene	112	11.553	11.575	(1.003)	303063	10.0000	11
36 Ethylbenzene	106	11.674	11.679	(1.014)	140148	10.0000	11
37 Xylene (m,p)	106	11.813	11.817	(1.026)	351909	20.0000	21
M 38 Xylene (total)	106				527811	10.0000	32
39 Xylene (o)	106	12.278	12.283	(1.066)	175902	10.0000	10
40 Styrene	104	12.296	12.300	(1.067)	302495	10.0000	10
41 Bromoform	173	12.520	12.524	(1.535)	224081	10.0000	10
42 1,1,2,2-Tetrachloroethane	83	13.003	13.008	(1.129)	249361	10.0000	11
\$ 43 Bromofluorobenzene	95	12.865	12.870	(1.117)	294405	10.0000	11

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Date : 20-JUN-1997 14:47

Client ID: VSTD020

Sample Info: VSTD020 CRV#01Y

Purge Volume: 5.0

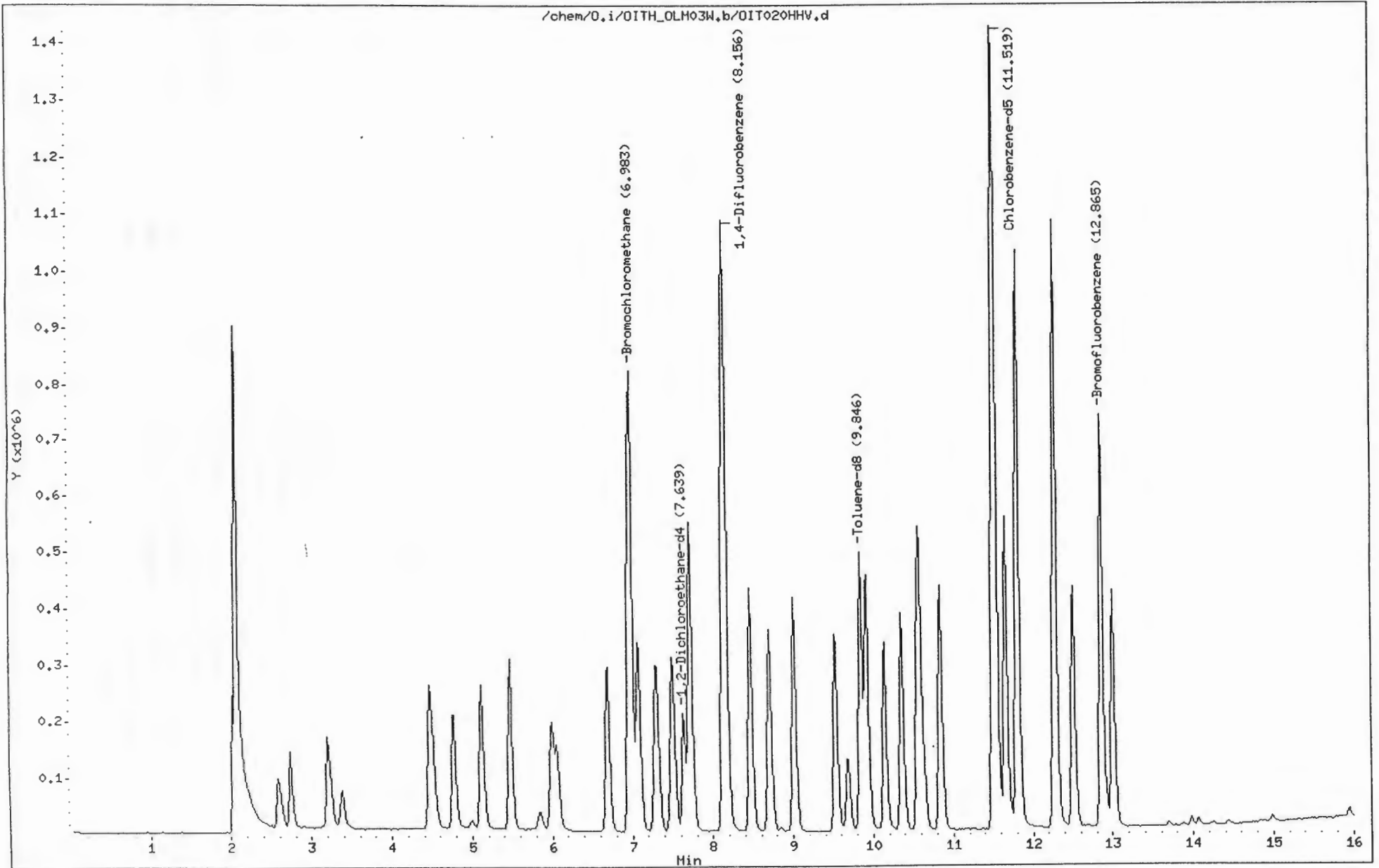
Column phase: DB-624

Instrument: 0.i

Operator: HTP

Column diameter: 0.53

000276



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OITH_OLM03W.b/OIT020HHV.d
 Lab Smp Id: VSTD020 Client Smp ID: VSTD020
 Inj Date : 20-JUN-97 14:47:00 MS Autotune Date:
 Operator : MTP Inst ID: O.i
 Smp Info : VSTD020 CRV#OIY
 Misc Info :
 Comment :
 Method : /chem/O.i/OITH_OLM03W.b/VOA_OLM03.m
 Meth Date : 27-Jun-97 14:11:14 cmp Quant Type: ISTD
 Cal Date : 20-JUN-97 13:21:00 Cal File: OIT050HHV.d
 Als bottle: 2 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT	SIG					AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)
=====	====	==	=====	=====	=====	=====	=====	
1 Chloromethane	50		2.587	2.587	(0.370)	233196	20.0000	19
2 Vinyl Chloride	62		2.742	2.742	(0.393)	226976	20.0000	19
3 Bromomethane	94		3.207	3.208	(0.459)	175942	20.0000	18
4 Chloroethane	64		3.380	3.363	(0.484)	121685	20.0000	19
5 Acetone	43		4.535	4.552	(0.649)	57012	20.0000	15
6 1,1-Dichloroethene	96		4.483	4.483	(0.642)	184969	20.0000	19
7 Methylene Chloride	84		5.121	5.122	(0.733)	190861	20.0000	19
8 Carbon Disulfide	76		4.776	4.759	(0.684)	550712	20.0000	18
9 trans-1,2-Dichloroethene	96		5.483	5.484	(0.785)	203051	20.0000	19
M 10 1,2-Dichloroethene (total)	96					405342	40.0000	38
11 1,1-Dichloroethane	63		6.000	6.001	(0.859)	371245	20.0000	19
12 2-Butanone	72		6.707	6.708	(0.960)	16084	20.0000	18
13 cis-1,2-Dichloroethene	96		6.707	6.708	(0.960)	202291	20.0000	19
14 Chloroform	83		7.069	7.088	(1.012)	445777	20.0000	20
* 15 Bromochloromethane	128		6.983	6.984	(1.000)	349333	50.0000	
16 1,1,1-Trichloroethane	97		7.311	7.312	(0.896)	409143	20.0000	20

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON COL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
17 Carbon Tetrachloride	117	7.500	7.519	(0.920)	365049	20.0000	20
\$ 18 1,2-Dichloroethane-d4	65	7.639	7.657	(1.094)	263271	20.0000	20
19 1,2-Dichloroethane	62	7.725	7.744	(1.106)	285782	20.0000	20
20 Benzene	78	7.725	7.727	(0.947)	524203	20.0000	20
* 21 1,4-Difluorobenzene	114	8.156	8.158	(1.000)	1519519	50.0000	
22 Trichloroethene	130	8.467	8.486	(1.038)	245121	20.0000	19
23 1,2-Dichloropropane	63	8.708	8.710	(1.068)	244413	20.0000	20
24 Bromodichloromethane	83	9.019	9.038	(1.106)	477236	20.0000	20
25 4-Methyl-2-Pentanone	43	9.674	9.693	(0.840)	219477	20.0000	20
26 cis-1,3-Dichloropropene	75	9.518	9.538	(1.167)	360791	20.0000	19
\$ 27 Toluene-d8	98	9.846	9.866	(0.855)	580222	20.0000	20
28 Toluene	91	9.933	9.935	(0.862)	599576	20.0000	21
29 trans-1,3-Dichloropropene	75	10.157	10.160	(1.245)	324209	20.0000	19
30 1,1,2-Trichloroethane	97	10.364	10.384	(1.271)	221227	20.0000	19
31 2-Hexanone	43	10.640	10.643	(0.924)	149800	20.0000	16
32 Tetrachloroethene	164	10.571	10.591	(0.918)	245824	20.0000	20
33 Dibromochloromethane	129	10.847	10.851	(1.330)	414495	20.0000	19
* 34 Chlorobenzene-d5	117	11.519	11.540	(1.000)	1317534	50.0000	
35 Chlorobenzene	112	11.554	11.575	(1.003)	480653	20.0000	20
36 Ethylbenzene	106	11.675	11.679	(1.014)	220803	20.0000	20
37 Xylene (m,p)	106	11.813	11.817	(1.026)	561629	40.0000	39
M 38 Xylene (total)	106				866238	20.0000	60
39 Xylene (o)	106	12.279	12.283	(1.066)	304609	20.0000	21
40 Styrene	104	12.279	12.300	(1.066)	513518	20.0000	21
41 Bromoform	173	12.520	12.524	(1.535)	387205	20.0000	19
42 1,1,2,2-Tetrachloroethane	83	13.004	13.008	(1.129)	413472	20.0000	21
\$ 43 Bromofluorobenzene	95	12.865	12.870	(1.117)	486747	20.0000	21

Date : 20-JUN-1997 13:21

Client ID: VSTD050

Instrument: 0.i

Sample Info: VSTD050 CRV#01Y

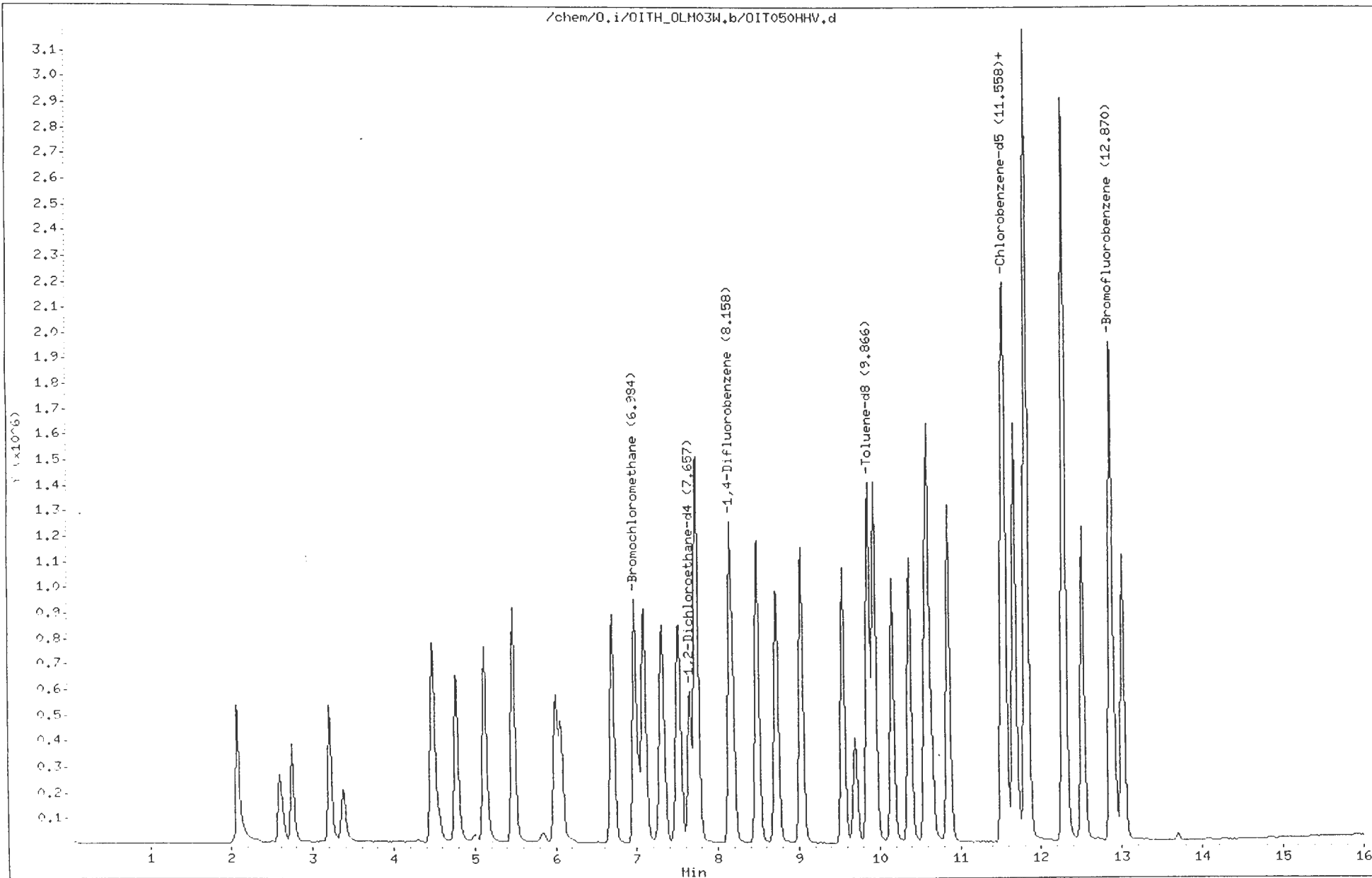
Operator: MTP

Purge Volume: 5.0

Column diameter: 0.53

Column phase: DB-624

000279



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OITH_OLM03W.b/OIT050HHV.d
 Lab Smp Id: VSTD050 Client Smp ID: VSTD050
 Inj Date : 20-JUN-97 13:21:00 MS Autotune Date: @
 Operator : MTP Inst ID: O.i
 Smp Info : VSTD050 CRV#OIY
 Misc Info :
 Comment :
 Method : /chem/O.i/OITH_OLM03W.b/VOA_OLM03.m
 Meth Date : 27-Jun-97 14:10:59 cmp Quant Type: ISTD
 Cal Date : 20-JUN-97 13:21:00 Cal File: OIT050HHV.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ug/L)	ON-COL (ug/L)
1 Chloromethane	50		50	2.587	2.587	(0.370)	670328	50.0000	48
2 Vinyl Chloride	62		62	2.742	2.742	(0.393)	647285	50.0000	48
3 Bromomethane	94		94	3.208	3.208	(0.459)	580000	50.0000	52
4 Chloroethane	64		64	3.363	3.363	(0.481)	388462	50.0000	53
5 Acetone	43		43	4.552	4.552	(0.652)	216704	50.0000	50
6 1,1-Dichloroethene	96		96	4.483	4.483	(0.642)	584915	50.0000	51
7 Methylene Chloride	84		84	5.122	5.122	(0.733)	581065	50.0000	50
8 Carbon Disulfide	76		76	4.759	4.759	(0.681)	1753214	50.0000	51
9 trans-1,2-Dichloroethene	96		96	5.484	5.484	(0.785)	631422	50.0000	51
M 10 1,2-Dichloroethene (total)	96		96				1244547	100.000	100
11 1,1-Dichloroethane	63		63	6.001	6.001	(0.859)	1107080	50.0000	50
12 2-Butanone	72		72	6.708	6.708	(0.960)	53257	50.0000	51
13 cis-1,2-Dichloroethene	96		96	6.708	6.708	(0.960)	613125	50.0000	51
14 Chloroform	83		83	7.088	7.088	(1.015)	1270637	50.0000	49
* 15 Bromochloromethane	128		128	6.984	6.984	(1.000)	400571	50.0000	
16 1,1,1-Trichloroethane	97		97	7.312	7.312	(0.896)	1151102	50.0000	48

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	DN-COL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
17 Carbon Tetrachloride	117	7.519	7.519	(0.922)	1040150	50.0000	48
\$ 18 1,2-Dichloroethane-d4	65	7.657	7.657	(1.096)	740337	50.0000	48
19 1,2-Dichloroethane	62	7.744	7.744	(1.109)	809794	50.0000	48
20 Benzene	78	7.727	7.727	(0.947)	1568352	50.0000	50
* 21 1,4-Difluorobenzene	114	8.158	8.158	(1.000)	1771265	50.0000	
22 Trichloroethene	130	8.486	8.486	(1.040)	736879	50.0000	50
23 1,2-Dichloropropane	63	8.710	8.710	(1.068)	723840	50.0000	50
24 Bromodichloromethane	83	9.038	9.038	(1.108)	1398725	50.0000	49
25 4-Methyl-2-Pentanone	43	9.693	9.693	(0.840)	649223	50.0000	49
26 cis-1,3-Dichloropropene	75	9.538	9.538	(1.169)	1076180	50.0000	50
\$ 27 Toluene-d8	98	9.866	9.866	(0.855)	1728010	50.0000	50
28 Toluene	91	9.935	9.935	(0.861)	1781036	50.0000	51
29 trans-1,3-Dichloropropene	75	10.160	10.160	(1.245)	951034	50.0000	48
30 1,1,2-Trichloroethane	97	10.384	10.384	(1.273)	660341	50.0000	48
31 2-Hexanone	43	10.643	10.643	(0.922)	552436	50.0000	50
32 Tetrachloroethene	164	10.591	10.591	(0.918)	749371	50.0000	50
33 Dibromochloromethane	129	10.851	10.851	(1.330)	1230981	50.0000	48
* 34 Chlorobenzene-d5	117	11.540	11.540	(1.000)	1597996	50.0000	
35 Chlorobenzene	112	11.575	11.575	(1.003)	1475764	50.0000	50
36 Ethylbenzene	106	11.679	11.679	(1.012)	673004	50.0000	49
37 Xylene (m,p)	106	11.817	11.817	(1.024)	1745311	100.0000	100
M 38 Xylene (total)	106				2594220	50.0000	150
39 Xylene (o)	106	12.283	12.283	(1.064)	848909	50.0000	49
40 Styrene	104	12.300	12.300	(1.066)	1499062	50.0000	50
41 Bromoform	173	12.524	12.524	(1.535)	1081403	50.0000	46
42 1,1,2,2-Tetrachloroethane	83	13.008	13.008	(1.127)	1109226	50.0000	47
\$ 43 Bromofluorobenzene	95	12.870	12.870	(1.115)	1382406	50.0000	49

Date : 20-JUN-1997 15:13

Client ID: VSTD100

Sample Info: VSTD100 CRV#01Y

Purge Volume: 5.0

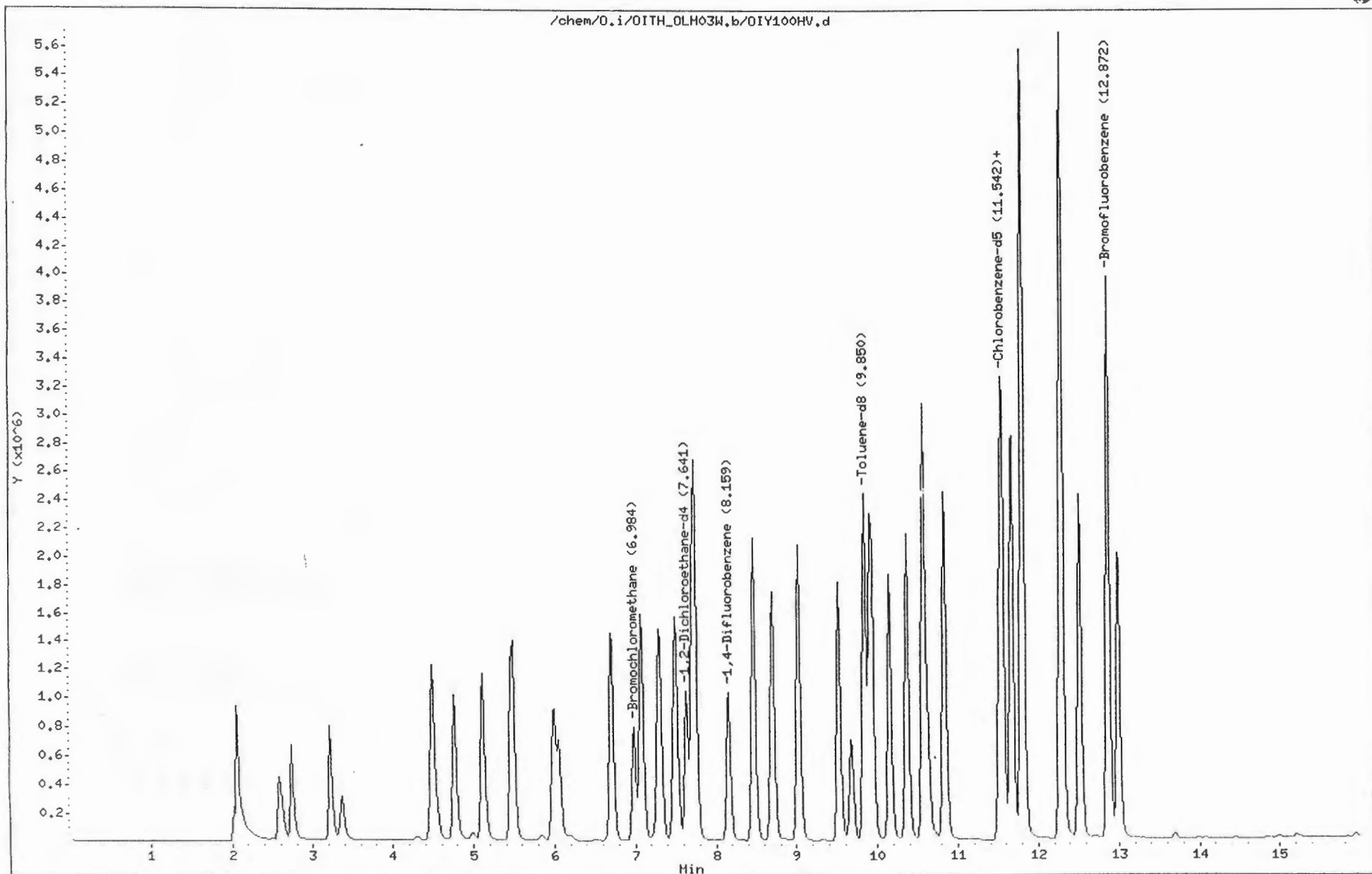
Column phase: DB-624

Instrument: 0.i

Operator: HTP

Column diameter: 0.53

000282



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OITH_OLM03W.b/OIY100HV.d
 Lab Smp Id: VSTD100 Client Smp ID: VSTD100
 Inj Date : 20-JUN-97 15:13:00 MS Autotune Date:
 Operator : MTP Inst ID: O.i
 Smp Info : VSTD100 CRV#OIY
 Misc Info :
 Comment :
 Method : /chem/O.i/OITH_OLM03W.b/VOA_OLM03.m
 Meth Date : 27-Jun-97 14:11:25 cmp Quant Type: ISTD
 Cal Date : 20-JUN-97 13:21:00 Cal File: OIT050HHV.d
 Als bottle: 3 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ug/L)	ON-COL (ug/L)
1 Chloromethane	50		2.587	2.587	(0.370)	1162933	100.000	97	
2 Vinyl Chloride	62		2.742	2.742	(0.393)	1126956	100.000	97	
3 Bromomethane	94		3.207	3.208	(0.459)	837310	100.000	86	
4 Chloroethane	64		3.363	3.363	(0.481)	575007	100.000	90	
5 Acetone	43		4.535	4.552	(0.649)	382105	100.000	100	
6 1,1-Dichloroethene	96		4.483	4.483	(0.642)	876685	100.000	89	
7 Methylene Chloride	84		5.121	5.122	(0.733)	893197	100.000	90	
8 Carbon Disulfide	76		4.759	4.759	(0.681)	2635353	100.000	89	
9 trans-1,2-Dichloroethene	96		5.484	5.484	(0.785)	970661	100.000	90	
M 10 1,2-Dichloroethene (total)	96					1962724	200.000	180	
11 1,1-Dichloroethane	63		5.984	6.001	(0.857)	1799289	100.000	94	
12 2-Butanone	72		6.708	6.708	(0.960)	88543	100.000	98	
13 cis-1,2-Dichloroethene	96		6.691	6.708	(0.958)	992063	100.000	95	
14 Chloroform	83		7.071	7.088	(1.012)	2146639	100.000	96	
* 15 Bromochloromethane	128		6.984	6.984	(1.000)	346010	50.0000		
16 1,1,1-Trichloroethane	97		7.295	7.312	(0.894)	2002649	100.000	100	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
17 Carbon Tetrachloride	117	7.502	7.519	(0.920)	1858951	100.000	100
\$ 18 1,2-Dichloroethane-d4	65	7.641	7.657	(1.094)	1311287	100.000	98
19 1,2-Dichloroethane	62	7.727	7.744	(1.106)	1425066	100.000	99
20 Benzene	78	7.727	7.727	(0.947)	2546406	100.000	97
* 21 1,4-Difluorobenzene	114	8.159	8.158	(1.000)	1488977	50.0000	
22 Trichloroethene	130	8.469	8.486	(1.038)	1227512	100.000	99
23 1,2-Dichloropropane	63	8.711	8.710	(1.068)	1193734	100.000	97
24 Bromodichloromethane	83	9.022	9.038	(1.106)	2417234	100.000	100
25 4-Methyl-2-Pentanone	43	9.677	9.693	(0.840)	1132938	100.000	90
26 cis-1,3-Dichloropropene	75	9.522	9.538	(1.167)	1795782	100.000	99
\$ 27 Toluene-d8	98	9.850	9.866	(0.855)	2890630	100.000	88
28 Toluene	91	9.919	9.935	(0.861)	2952160	100.000	88
29 trans-1,3-Dichloropropene	75	10.144	10.160	(1.243)	1765575	100.000	100
30 1,1,2-Trichloroethane	97	10.368	10.384	(1.271)	1233062	100.000	110
31 2-Hexanone	43	10.627	10.643	(0.922)	1115025	100.000	100
32 Tetrachloroethene	164	10.576	10.591	(0.918)	1391910	100.000	97
33 Dibromochloromethane	129	10.835	10.851	(1.328)	2361680	100.000	110
* 34 Chlorobenzene-d5	117	11.525	11.540	(1.000)	1522852	50.0000	
35 Chlorobenzene	112	11.560	11.575	(1.003)	2739020	100.000	97
36 Ethylbenzene	106	11.681	11.679	(1.014)	1268045	100.000	98
37 Xylene (m,p)	106	11.802	11.817	(1.024)	3189091	200.000	190
M 38 Xylene (total)	106				4789419	100.000	290
39 Xylene (o)	106	12.285	12.283	(1.066)	1600328	100.000	96
40 Styrene	104	12.285	12.300	(1.066)	2757118	100.000	96
41 Bromoform	173	12.510	12.524	(1.533)	2151559	100.000	110
42 1,1,2,2-Tetrachloroethane	83	12.993	13.008	(1.127)	2188254	100.000	97
\$ 43 Bromofluorobenzene	95	12.872	12.870	(1.117)	2577381	100.000	96

Date : 20-JUN-97 15:46:00

Client ID: VSTD200

Sample Info: VSTD200 CRV#01Y

Purge Volume: 5.0

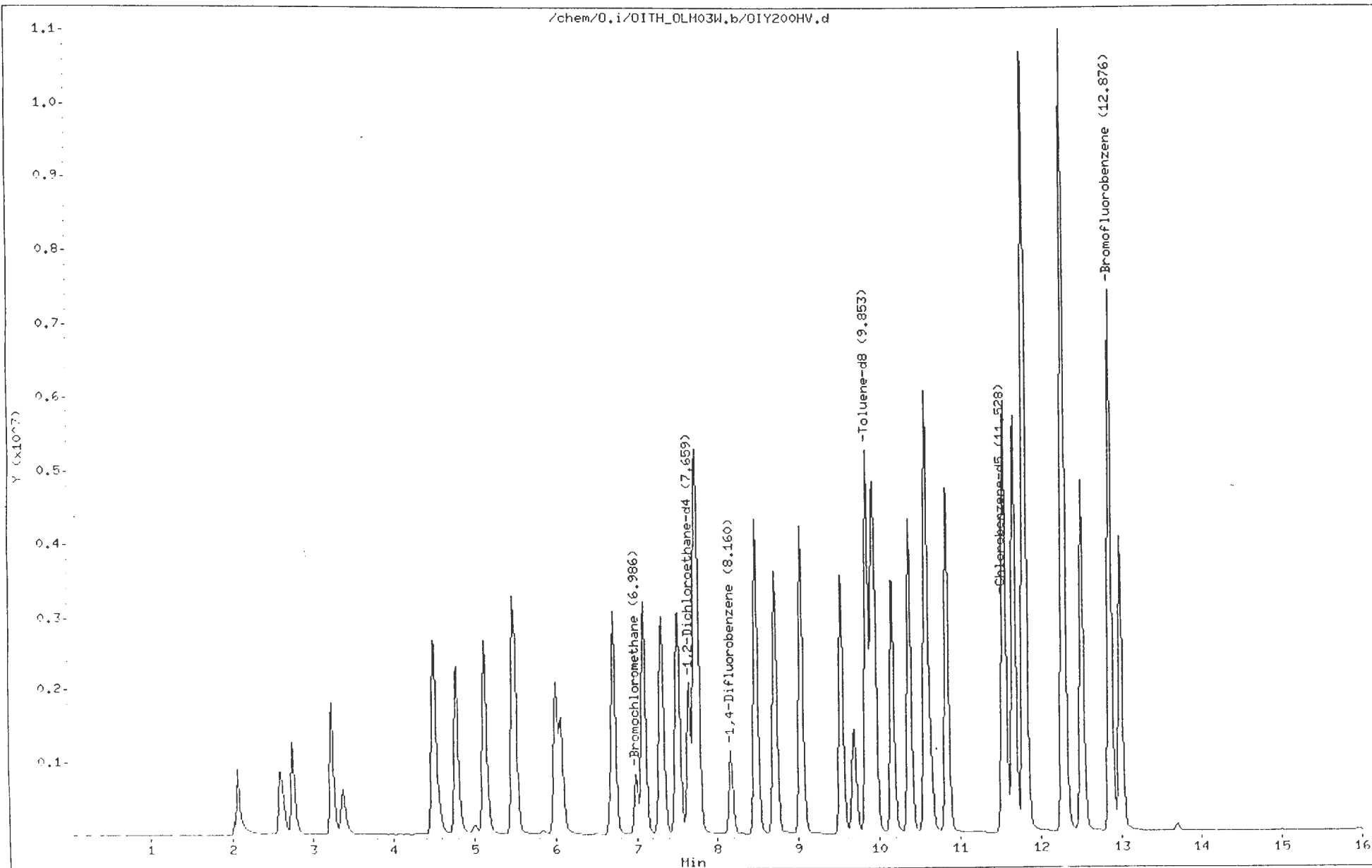
Column phase: DB-624

Instrument: 0,i

Operator: HTP

Column diameter: 0.53

000005



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OITH_OLM03W.b/OIY200HV.d
 Lab Smp Id: VSTD200 Client Smp ID: VSTD200
 Inj Date : 20-JUN-97 15:46:00 MS Autotune Date:
 Operator : MTP Inst ID: O.i
 Smp Info : VSTD200 CRV#OIY
 Misc Info :
 Comment :
 Method : /chem/O.i/OITH_OLM03W.b/VOA_OLM03.m
 Meth Date : 27-Jun-97 14:11:35 cmp Quant Type: ISTD
 Cal Date : 20-JUN-97 13:21:00 Cal File: OIT050HHV.d
 Als bottle: 4 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 Chloromethane	50	2.587	2.587	(0.370)	2451586	200.000	200
2 Vinyl Chloride	62	2.742	2.742	(0.393)	2409630	200.000	200(A)
3 Bromomethane	94	3.225	3.208	(0.462)	2109135	200.000	210(A)
4 Chloroethane	64	3.363	3.363	(0.481)	1193505	200.000	180
5 Acetone	43	4.553	4.552	(0.652)	498937	200.000	130
6 1,1-Dichloroethene	96	4.484	4.483	(0.642)	2151588	200.000	210(A)
7 Methylene Chloride	84	5.122	5.122	(0.733)	2143274	200.000	210(A)
8 Carbon Disulfide	76	4.777	4.759	(0.684)	6454784	200.000	210(A)
9 trans-1,2-Dichloroethene	96	5.485	5.484	(0.785)	2289536	200.000	210(A)
M 10 1,2-Dichloroethene (total)	96				4393943	400.000	400(A)
11 1,1-Dichloroethane	63	6.002	6.001	(0.859)	3909530	200.000	200
12 2-Butanone	72	6.710	6.708	(0.960)	164105	200.000	180(Q)
13 cis-1,2-Dichloroethene	96	6.710	6.708	(0.960)	2104407	200.000	200
14 Chloroform	83	7.090	7.088	(1.015)	4453990	200.000	190
* 15 Bromochloromethane	128	6.986	6.984	(1.000)	357923	50.0000	
16 1,1,1-Trichloroethane	97	7.314	7.312	(0.896)	4088023	200.000	190

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	==	=====	=====	=====	=====	=====
17 Carbon Tetrachloride	117	7.521	7.519 (0.922)	3819292	200.000	200	
\$ 18 1,2-Dichloroethane-d4	65	7.659	7.657 (1.096)	2650720	200.000	190	
19 1,2-Dichloroethane	62	7.746	7.744 (1.109)	2877057	200.000	190	
20 Benzene	78	7.746	7.727 (0.949)	5360776	200.000	190	
* 21 1,4-Difluorobenzene	114	8.160	8.158 (1.000)	1582462	50.0000		
22 Trichloroethene	130	8.471	8.486 (1.038)	2602996	200.000	200	
23 1,2-Dichloropropane	63	8.713	8.710 (1.068)	2532338	200.000	190	
24 Bromodichloromethane	83	9.024	9.038 (1.106)	5010072	200.000	200	
25 4-Methyl-2-Pentanone	43	9.697	9.693 (0.841)	2345568	200.000	180	
26 cis-1,3-Dichloropropene	75	9.524	9.538 (1.167)	3794323	200.000	200	
\$ 27 Toluene-d8	98	9.853	9.866 (0.855)	6319007	200.000	190	
28 Toluene	91	9.939	9.935 (0.862)	6469195	200.000	190	
29 trans-1,3-Dichloropropene	75	10.164	10.160 (1.245)	3571471	200.000	200(A)	
30 1,1,2-Trichloroethane	97	10.371	10.384 (1.271)	2524880	200.000	200(A)	
31 2-Hexanone	43	10.648	10.643 (0.924)	1681828	200.000	160	
32 Tetrachloroethene	164	10.579	10.591 (0.918)	2805880	200.000	200	
33 Dibromochloromethane	129	10.838	10.851 (1.328)	4809542	200.000	210(A)	
* 34 Chlorobenzene-d5	117	11.528	11.540 (1.000)	1531207	50.0000		
35 Chlorobenzene	112	11.563	11.575 (1.003)	5520299	200.000	190	
36 Ethylbenzene	106	11.684	11.679 (1.014)	2539652	200.000	190	
37 Xylene (m,p)	106	11.823	11.817 (1.026)	6389117	400.000	390	
M 38 Xylene (total)	106			9529396	200.000	570	
39 Xylene (o)	106	12.289	12.283 (1.066)	3140279	200.000	190	
40 Styrene	104	12.289	12.300 (1.066)	5403149	200.000	190	
41 Bromoform	173	12.513	12.524 (1.533)	4308649	200.000	210(A)	
42 1,1,2,2-Tetrachloroethane	83	12.997	13.008 (1.127)	4266311	200.000	190	
\$ 43 Bromofluorobenzene	95	12.876	12.870 (1.117)	4973958	200.000	180	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.

ITS Environmental

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-1997 13:21
 End Cal Date : 20-JUN-1997 15:46
 Quant Method : ISTD
 Target Version : 3.30
 Integrator : HP RTE
 Method file : /chem/O.i/OITH_OLM03W.b/VOA_OLM03.m
 Cal Date : 20-Jun-1997 16:57 operator
 Curve Type : Average

Calibration File Names:

Level 1: /chem/O.i/OITH_OLM03W.b/OIT010HHV.d
 Level 2: /chem/O.i/OITH_OLM03W.b/OIT020HHV.d
 Level 3: /chem/O.i/OITH_OLM03W.b/OIT050HHV.d
 Level 4: /chem/O.i/OITH_OLM03W.b/OIY100HV.d
 Level 5: /chem/O.i/OITH_OLM03W.b/OIY200HV.d

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
1 Chloromethane	1.88397	1.66887	1.67343	1.68049	1.71237	1.72382	5.286
2 Vinyl Chloride	1.80831	1.62435	1.61591	1.62850	1.68306	1.67203	4.823
3 Bromomethane	1.61246	1.25913	1.44793	1.20995	1.47318	1.40053	11.773
4 Chloroethane	1.08380	0.87084	0.96977	0.83091	0.83363	0.91779	11.823
5 Acetone	0.84218	0.40801	0.54099	0.55216	0.34849	0.53837	35.432
6 1,1-Dichloroethene	1.56219	1.32373	1.46020	1.26685	1.50283	1.42316	8.703
7 Methylene Chloride	1.59316	1.36590	1.45059	1.29071	1.49702	1.43948	8.116
8 Carbon Disulfide	4.70054	3.94117	4.37679	3.80820	4.50850	4.26704	8.885
9 trans-1,2-Dichloroethene	1.72007	1.45313	1.57630	1.40265	1.59918	1.55027	8.104
M 10 1,2-Dichloroethene (total)	1.68152	1.45041	1.55347	1.41811	1.53453	1.52761	6.736
11 1,1-Dichloroethane	3.03665	2.65681	2.76375	2.60005	2.73071	2.75759	6.111
12 2-Butanone	0.16143	0.11511	0.13295	0.12795	0.11462	0.13041	14.641
13 cis-1,2-Dichloroethene	1.64297	1.44769	1.53063	1.43358	1.46987	1.50495	5.688
14 Chloroform	3.61933	3.19020	3.17206	3.10199	3.11100	3.23892	6.670
16 1,1,1-Trichloroethane	0.71374	0.67315	0.64988	0.67249	0.64583	0.67102	4.022
17 Carbon Tetrachloride	0.61434	0.60060	0.58724	0.62424	0.60338	0.60596	2.320
19 1,2-Dichloroethane	2.28012	2.04520	2.02160	2.05928	2.00955	2.08315	5.368
20 Benzene	0.95410	0.86245	0.88544	0.85509	0.84690	0.88080	4.930
22 Trichloroethene	0.44282	0.40329	0.41602	0.41220	0.41123	0.41711	3.620
23 1,2-Dichloropropane	0.44424	0.40212	0.40866	0.40086	0.40006	0.41119	4.568
24 Bromodichloromethane	0.83416	0.78518	0.78968	0.81171	0.79150	0.80244	2.548
25 4-Methyl-2-Pentanone	0.49972	0.41645	0.40627	0.37198	0.38296	0.41548	12.114
26 cis-1,3-Dichloropropene	0.64912	0.59359	0.60758	0.60303	0.59943	0.61055	3.629
28 Toluene	1.22298	1.13769	1.11454	0.96929	1.05622	1.10014	8.594
29 trans-1,3-Dichloropropene	0.58232	0.53341	0.53692	0.59288	0.56423	0.56195	4.723

ITS Environmental
INITIAL CALIBRATION DATA

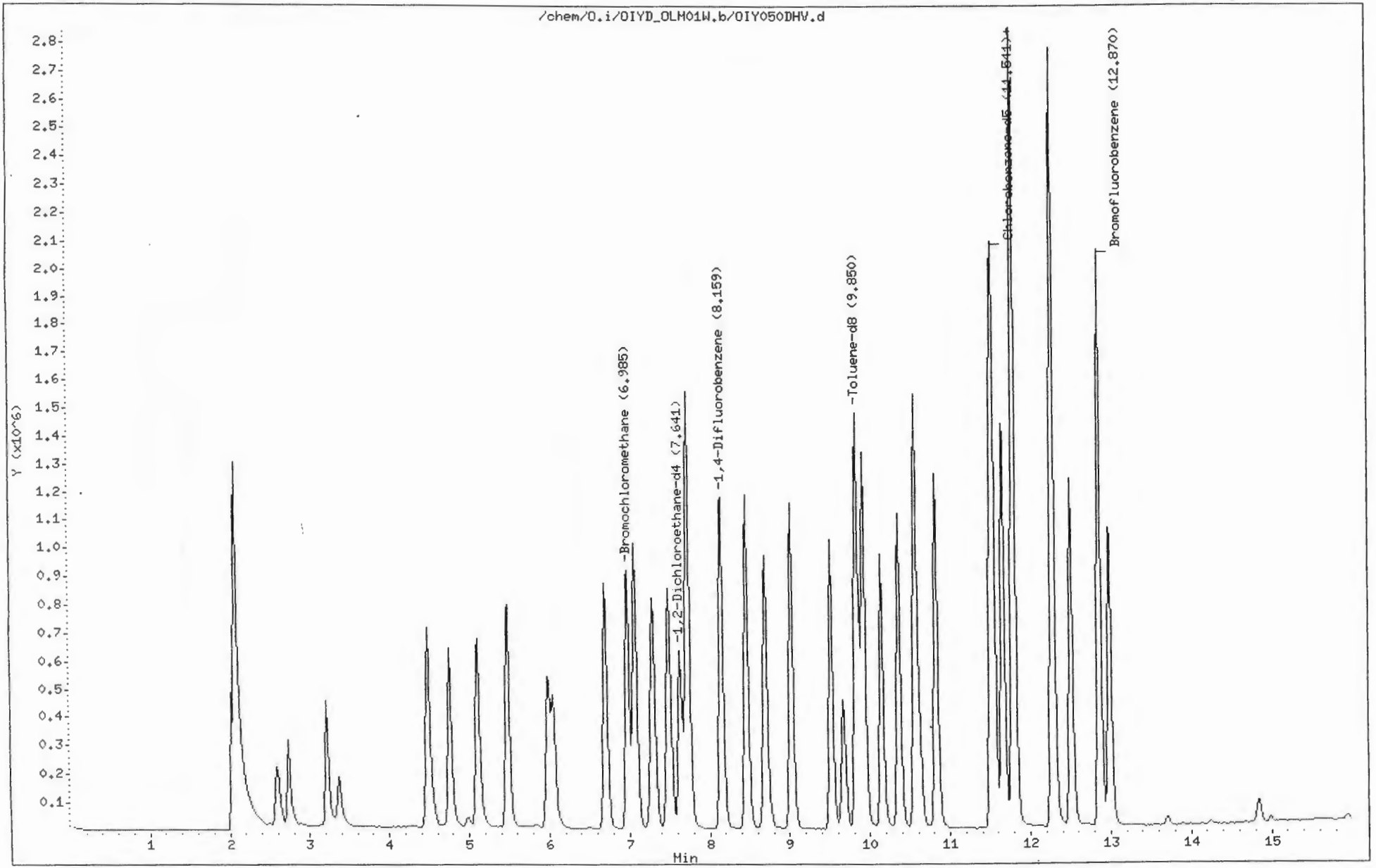
Start Cal Date : 20-JUN-1997 13:21
 End Cal Date : 20-JUN-1997 15:46
 Quant Method : ISTD
 Target Version : 3.30
 Integrator : HP RTE
 Method file : /chem/O.i/OITH_OLM03W.b/VOA_OLM03.m
 Cal Date : 20-Jun-1997 16:57 operator
 Curve Type : Average

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	RRF	% RSD
30 1,1,2-Trichloroethane	0.39922	0.36398	0.37281	0.41406	0.39888	0.38979	5.313
31 2-Hexanone	0.46057	0.28424	0.34571	0.36610	0.27459	0.34624	21.633
32 Tetrachloroethene	0.49662	0.46645	0.46894	0.45701	0.45812	0.46943	3.420
33 Dibromochloromethane	0.71162	0.68195	0.69497	0.79305	0.75982	0.72828	6.412
35 Chlorobenzene	0.99425	0.91203	0.92351	0.89931	0.90130	0.92608	4.245
36 Ethylbenzene	0.45978	0.41897	0.42115	0.41634	0.41465	0.42618	4.446
37 Xylene (m,p)	0.57725	0.53284	0.54609	0.52354	0.52158	0.54026	4.227
M 38 Xylene (total)	0.57708	0.57799	0.53123	0.52544	0.51271	0.54489	5.606
39 Xylene (o)	0.57708	0.57799	0.53123	0.52544	0.51271	0.54489	5.606
40 Styrene	0.99238	0.97439	0.93809	0.90525	0.88217	0.93846	4.904
41 Bromoform	0.64564	0.63705	0.61053	0.72250	0.68069	0.65928	6.573
42 1,1,2,2-Tetrachloroethane	0.81807	0.78456	0.69414	0.71847	0.69656	0.74236	7.532
46 2-Chloroethylvinylether	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
47 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
48 Trichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
49 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
50 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
51 Ethyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
52 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
53 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
\$ 18 1,2-Dichloroethane-d4	2.13830	1.88410	1.84820	1.89487	1.85146	1.92339	6.334
\$ 27 Toluene-d8	1.20624	1.10096	1.08136	0.94908	1.03170	1.07387	8.793
\$ 43 Bromofluorobenzene	0.96584	0.92359	0.86509	0.84623	0.81210	0.88257	6.987

Data File: /chem/0.i/OIYD_OLM01W.b/OIY050DHV.d
Date : 30-JUN-97 08:41:25
Client ID: VSTD050
Sample Info: VSTD050 CRV#OIYD
Purge Volume: 5.0
Column phase: CAP

Instrument: 0.i
Operator:
Column diameter: 0.53

000250



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/OIY050DHSV.d
 Lab Smp Id: VSTD050 Client Smp ID: VSTD050
 Inj Date : 30-JUN-97 08:41:25
 Operator : Inst ID: O.i
 Smp Info : VSTD050 CRV#OIYD
 Misc Info :
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 08:06:13 Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHSV.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/L)	ON-COL (ug/L)
1 Chloromethane	50	2.587	2.587	(0.370)	563972	50.0000	38
2 Vinyl Chloride	62	2.742	2.742	(0.393)	543760	50.0000	38
3 Bromomethane	94	3.208	3.208	(0.459)	494596	50.0000	41
4 Chloroethane	64	3.363	3.363	(0.481)	336036	50.0000	43
5 Acetone	43	4.536	4.552	(0.649)	158815	50.0000	34
6 1,1-Dichloroethene	96	4.484	4.483	(0.642)	531706	50.0000	44
7 Methylene Chloride	84	5.122	5.122	(0.733)	551333	50.0000	45
8 Carbon Disulfide	76	4.760	4.759	(0.681)	1610596	50.0000	44
9 trans-1,2-Dichloroethene	96	5.484	5.484	(0.785)	607997	50.0000	46
M 10 1,2-Dichloroethene (total)	96				1218260	100.0000	93
11 1,1-Dichloroethane	63	5.984	6.001	(0.857)	1051352	50.0000	45
12 2-Butanone	43	6.709	6.708	(0.960)	278286	50.0000	44
13 cis-1,2-Dichloroethene	96	6.691	6.708	(0.958)	610263	50.0000	48
14 Chloroform	83	7.071	7.088	(1.012)	1353984	50.0000	49
* 15 Bromochloromethane	128	6.985	6.984	(1.000)	426576	50.0000	
16 1,1,1-Trichloroethane	97	7.295	7.312	(0.894)	1106886	50.0000	46

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
17 Carbon Tetrachloride	117	7.503	7.519	(0.920)	1016153	50.0000	47
\$ 18 1,2-Dichloroethane-d4	65	7.641	7.657	(1.094)	763461	50.0000	46
19 1,2-Dichloroethane	62	7.727	7.744	(1.106)	769152	50.0000	43
20 Benzene	78	7.727	7.727	(0.947)	1515699	50.0000	48
* 21 1,4-Difluorobenzene	114	8.159	8.158	(1.000)	1786812	50.0000	
22 Trichloroethene	130	8.469	8.486	(1.038)	705815	50.0000	47
23 1,2-Dichloropropane	63	8.711	8.710	(1.068)	696032	50.0000	47
24 Bromodichloromethane	83	9.021	9.038	(1.106)	1353432	50.0000	47
25 4-Methyl-2-Pentanone	43	9.677	9.693	(0.840)	723215	50.0000	56
26 cis-1,3-Dichloropropene	75	9.521	9.538	(1.167)	1030616	50.0000	47
\$ 27 Toluene-d8	98	9.850	9.866	(0.855)	1806676	50.0000	54
28 Toluene	91	9.919	9.935	(0.861)	1722786	50.0000	50
29 trans-1,3-Dichloropropene	75	10.143	10.160	(1.243)	917365	50.0000	46
30 1,1,2-Trichloroethane	97	10.368	10.384	(1.271)	653270	50.0000	47
31 2-Hexanone	43	10.627	10.643	(0.922)	514803	50.0000	48
32 Tetrachloroethene	164	10.575	10.591	(0.918)	718960	50.0000	49
33 Dibromochloromethane	129	10.834	10.851	(1.328)	1201090	50.0000	46
* 34 Chlorobenzene-d5	117	11.524	11.540	(1.000)	1556777	50.0000	
35 Chlorobenzene	112	11.558	11.575	(1.003)	1401926	50.0000	49
36 Ethylbenzene	106	11.679	11.679	(1.014)	631828	50.0000	48
37 Xylene (m,p)	106	11.800	11.817	(1.024)	1588299	100.000	94
M 38 Xylene (total)	106				2362614	50.0000	140
39 Xylene (o)	106	12.266	12.283	(1.064)	774315	50.0000	46
40 Styrene	104	12.284	12.300	(1.066)	1382238	50.0000	47
41 Bromoform	173	12.508	12.524	(1.533)	1084555	50.0000	46
42 1,1,2,2-Tetrachloroethane	83	12.992	13.008	(1.127)	1127935	50.0000	49
\$ 43 Bromofluorobenzene	95	12.870	12.870	(1.117)	1351542	50.0000	49

ITS Environmental

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: O.i Injection Date: 30-JUN-97 08:41:25
 Lab File ID: OIY050DHV.d Init. Calibration Date(s): 06/20/97 06/20/97
 Analysis Type: WATER Init. Calibration Times: 13:21:11 15:46:57
 Lab Sample ID: VSTD050 Method File: /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Quant Type: ISTD

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
1 Chloromethane	1.724	1.322	0.010	23.3	40.0
2 Vinyl Chloride	1.672	1.275	0.100	23.8	25.0
3 Bromomethane	1.401	1.159	0.100	17.2	25.0
4 Chloroethane	0.918	0.788	0.010	14.2	40.0
5 Acetone	0.538	0.372	0.010	30.8	40.0
6 1,1-Dichloroethene	1.423	1.246	0.100	12.4	25.0
7 Methylene Chloride	1.439	1.292	0.010	10.2	40.0
8 Carbon Disulfide	4.267	3.776	0.010	11.5	40.0
9 trans-1,2-Dichloroethene	1.550	1.425	0.000	8.1	40.0
M 10 1,2-Dichloroethene (total)	1.528	1.428	0.010	6.5	40.0
11 1,1-Dichloroethane	2.758	2.465	0.200	10.6	25.0
12 2-Butanone	0.736	0.652	0.010	11.3	40.0
13 cis-1,2-Dichloroethene	1.505	1.431	0.010	4.9	40.0
14 Chloroform	3.239	3.174	0.200	2.0	25.0
16 1,1,1-Trichloroethane	0.671	0.619	0.100	7.7	25.0
17 Carbon Tetrachloride	0.606	0.569	0.100	6.1	25.0
\$ 18 1,2-Dichloroethane-d4	1.923	1.790	0.010	6.9	40.0
19 1,2-Dichloroethane	2.083	1.803	0.100	13.4	25.0
20 Benzene	0.881	0.848	0.500	3.7	25.0
22 Trichloroethene	0.417	0.395	0.300	5.3	25.0
23 1,2-Dichloropropane	0.411	0.390	0.010	5.3	40.0
24 Bromodichloromethane	0.802	0.757	0.200	5.6	25.0
25 4-Methyl-2-Pentanone	0.415	0.465	0.010	-11.8	40.0
26 cis-1,3-Dichloropropene	0.611	0.577	0.200	5.5	25.0
\$ 27 Toluene-d8	1.074	1.161	0.010	-8.1	40.0
28 Toluene	1.100	1.107	0.400	-0.6	25.0
29 trans-1,3-Dichloropropene	0.562	0.513	0.100	8.6	25.0
30 1,1,2-Trichloroethane	0.390	0.366	0.100	6.2	25.0
31 2-Hexanone	0.348	0.331	0.010	5.0	40.0
32 Tetrachloroethene	0.469	0.462	0.200	1.6	25.0
33 Dibromochloromethane	0.728	0.672	0.100	7.7	25.0
35 Chlorobenzene	0.926	0.901	0.500	2.8	25.0
36 Ethylbenzene	0.426	0.406	0.100	4.8	25.0
37 Xylene (m,p)	0.540	0.510	0.300	5.6	25.0
M 38 Xylene (total)	0.545	0.497	0.300	8.7	25.0
39 Xylene (o)	0.545	0.497	0.300	8.7	25.0

ITS Environmental

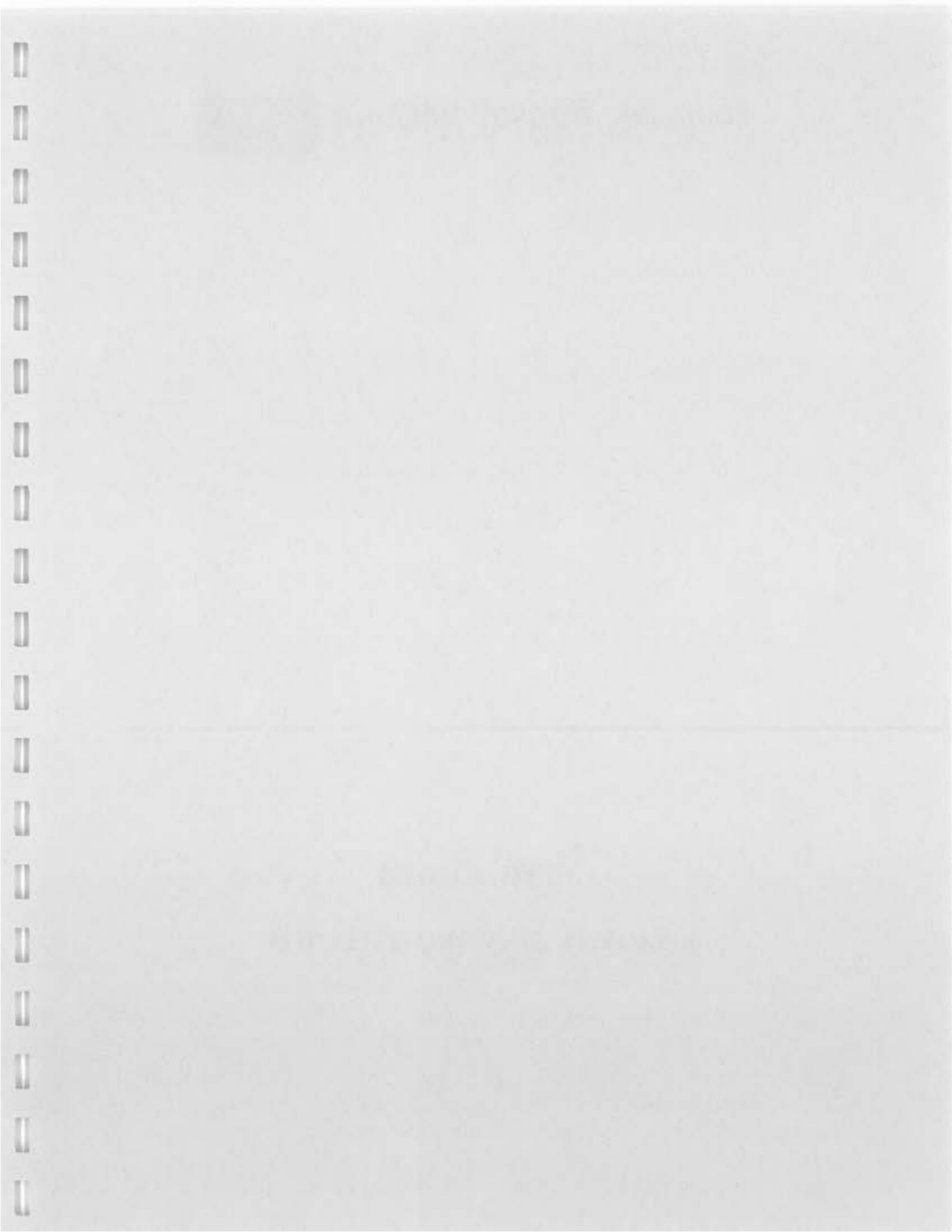
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: O.i Injection Date: 30-JUN-97 08:41:25
Lab File ID: OIY050DHFV.d Init. Calibration Date(s): 06/20/97 06/20/97
Analysis Type: WATER Init. Calibration Times: 13:21:11 15:46:57
Lab Sample ID: VSTD050 Method File: /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Quant Type: ISTD

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
40 Styrene	0.938	0.888	0.300	5.4	25.0
41 Bromoform	0.659	0.607	0.100	7.9	25.0
42 1,1,2,2-Tetrachloroethane	0.742	0.725	0.500	2.4	25.0
\$ 43 Bromofluorobenzene	0.883	0.868	0.200	1.6	25.0

VOLATILE ORGANIC ANALYSIS

RAW QC DATA



Date : 20-JUN-97 13:11

Client ID: BFBO14

Instrument: 0.i

Sample Info: 50NG BFBO14

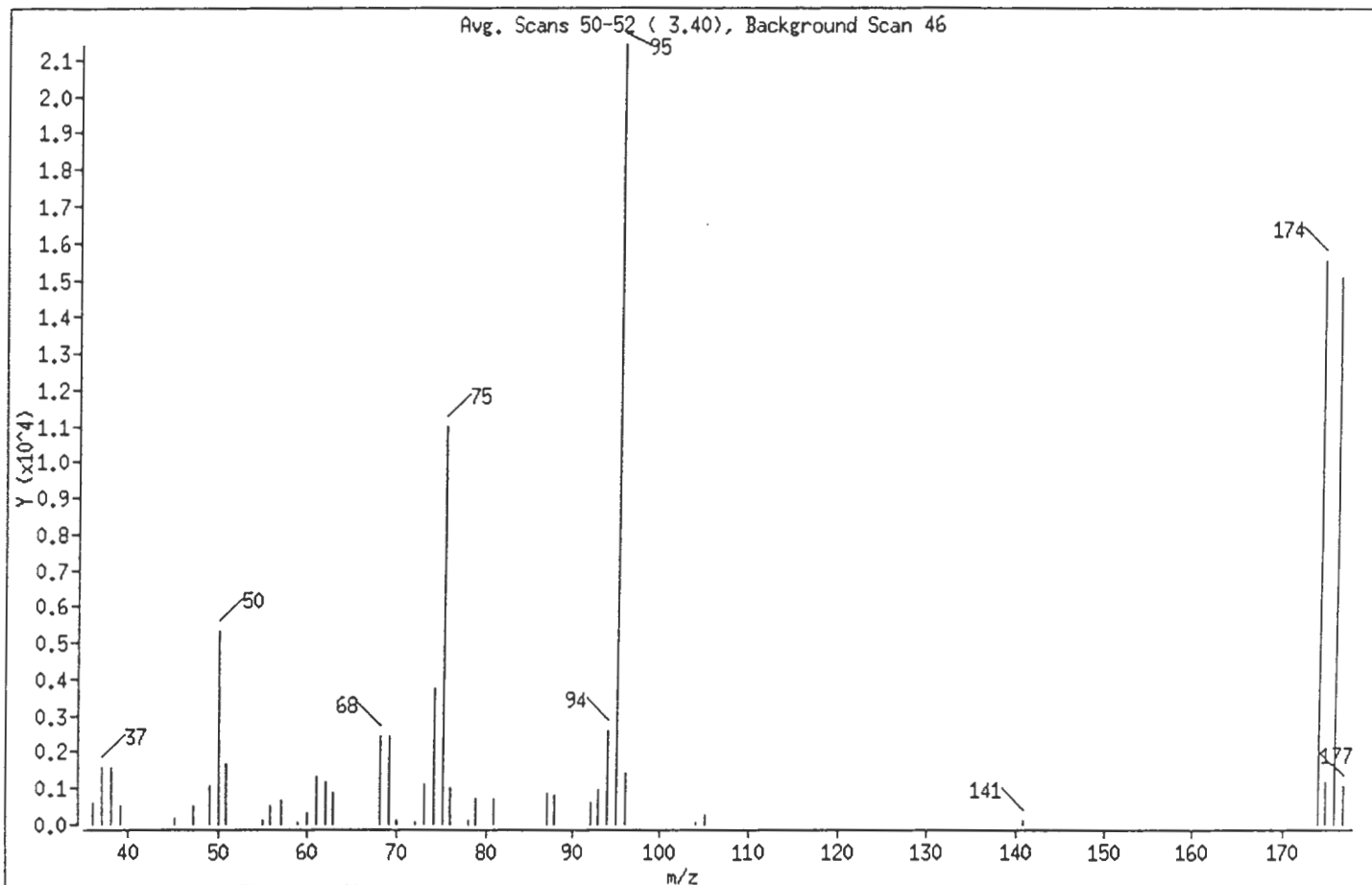
Volume Injected (uL): 2.0

Operator:

Column phase: CAP

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.74
75	30.00 - 60.00% of mass 95	51.21
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	72.52
175	5.00 - 9.00% of mass 174	5.40 (7.45)
176	95.00 - 101.00% of mass 174	70.46 (97.15)
177	5.00 - 9.00% of mass 176	4.97 (7.05)

000295

Date : 20-JUN-97 13:11

Client ID: BFB014

Instrument: 0.i

Sample Info: 50NG BFB014

Volume Injected (uL): 2.0

Operator:

Column phase: CAP

Column diameter: 0.53

Data File: OIT014PV.d
 Spectrum : Avg. Scans 50-52 (3.40), Background Scan 46
 Largest m/z: 95.00
 Number of peaks: 42

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	593	57.05	647	74.05	3742	95.00	21400
37.10	1566	59.05	35	75.05	10959	96.10	1417
38.00	1548	60.05	283	76.05	991	104.05	39
39.10	489	61.05	1324	78.00	83	105.05	278
45.05	168	62.05	1144	78.90	709	141.00	101
47.15	494	63.00	866	80.90	716	173.95	15520
49.00	1074	68.00	2443	87.05	868	174.95	1156
50.00	5295	69.10	2438	88.05	808	175.95	15078
51.00	1694	69.95	116	92.00	631	176.95	1063
55.00	106	72.05	59	93.00	936		
55.95	498	73.05	1088	94.00	2573		

Date : 20-JUN-97 13:11

Client ID: BFBO14

Instrument: 0.i

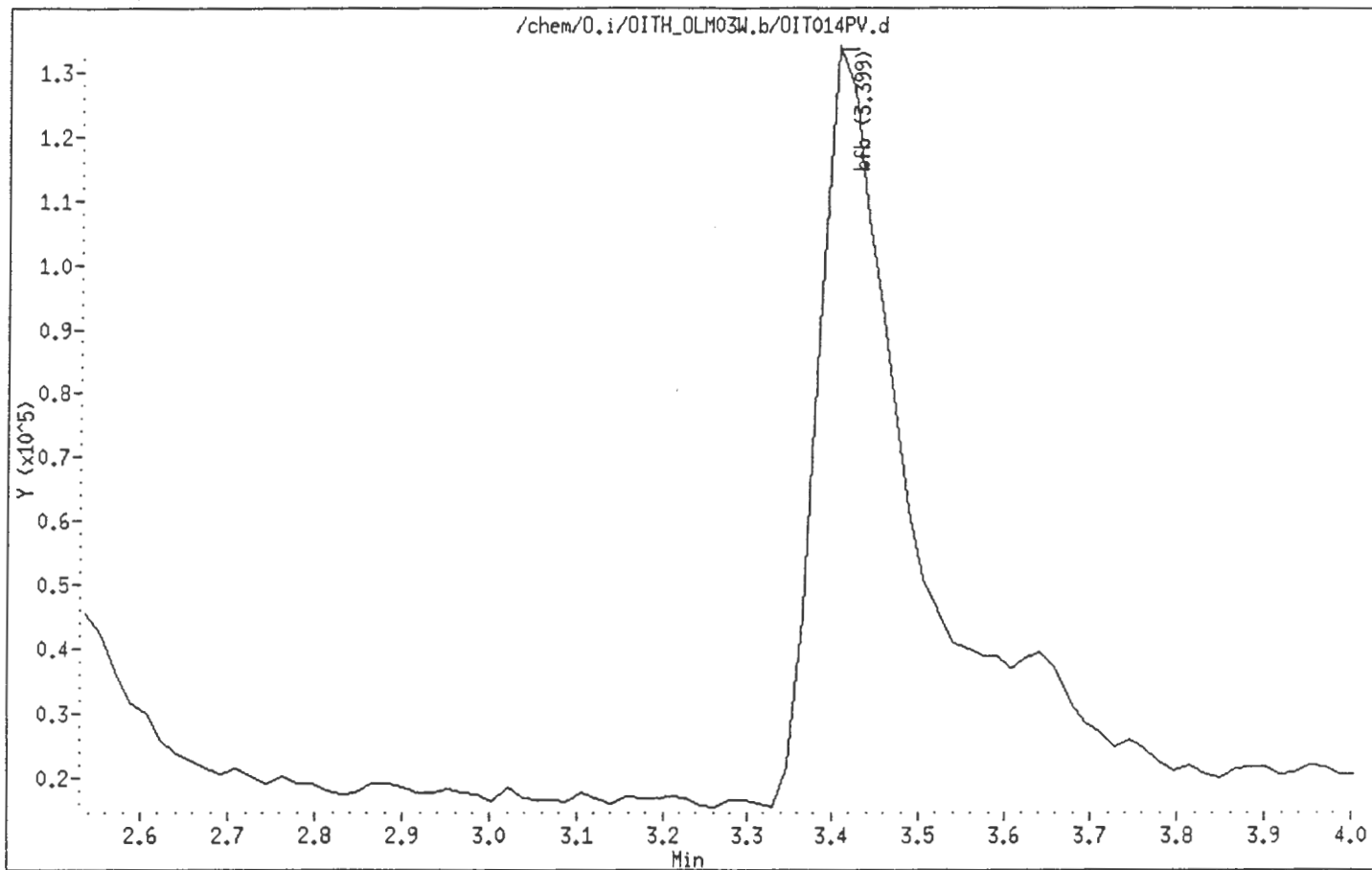
Sample Info: 5ONG BFBO14

Volume Injected (uL): 2.0

Operator:

Column phase: CAP

Column diameter: 0.53



Date : 30-JUN-97 08:29:56

Client ID: BFB006

Instrument: O.i

Sample Info: 50NG BFB006

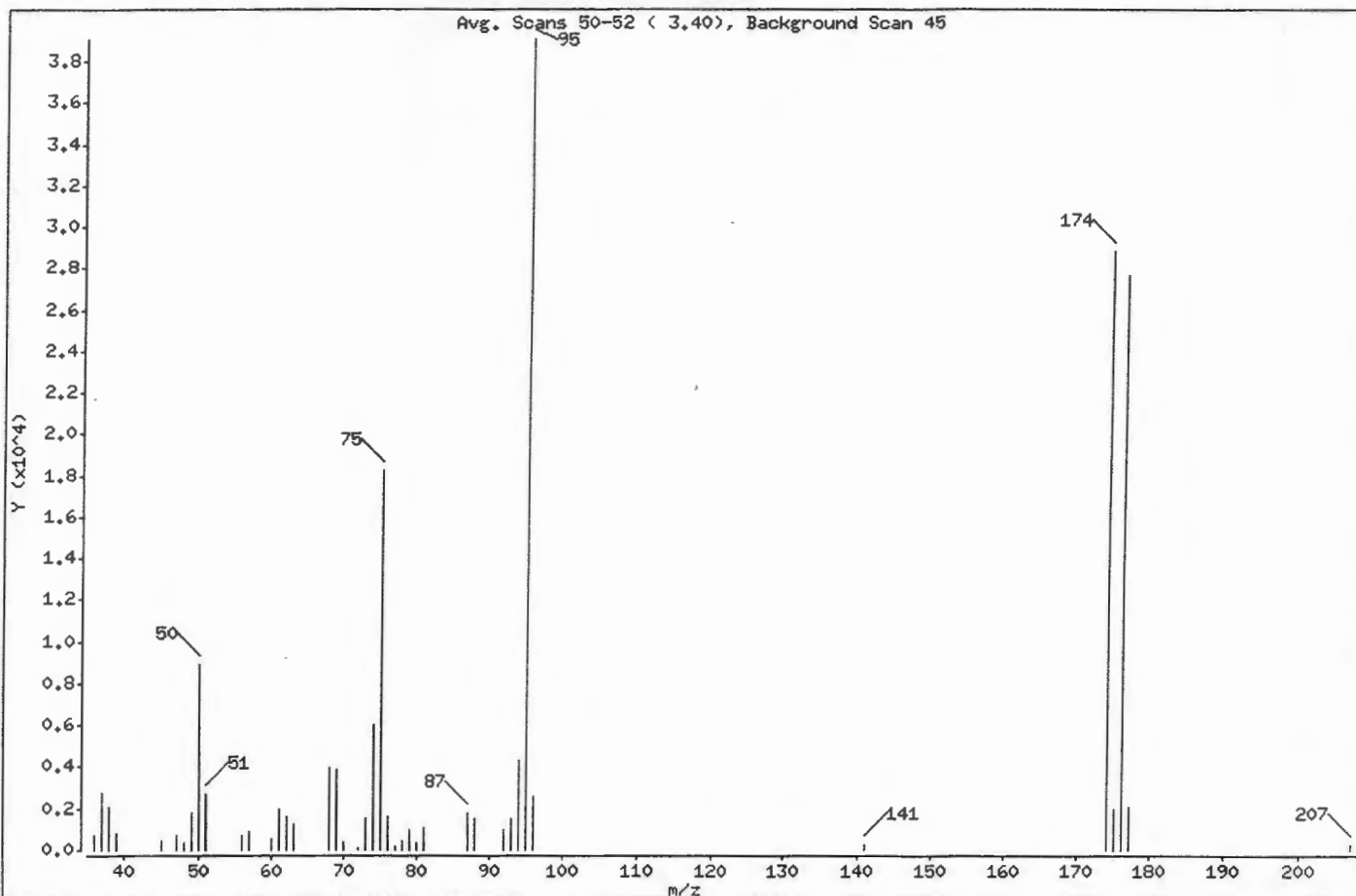
Volume Injected (uL): 2.0

Operator:

Column phase: CAP

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.83
75	30.00 - 60.00% of mass 95	46.79
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	73.78
175	5.00 - 9.00% of mass 174	5.14 (6.96)
176	95.00 - 101.00% of mass 174	70.73 (95.87)
177	5.00 - 9.00% of mass 176	5.34 (7.55)

Date : 30-JUN-97 08:29:56

Client ID: BFB006

Instrument: 0.i

Sample Info: 50NG BFB006

Volume Injected (uL): 2.0

Operator:

Column phase: CAP

Column diameter: 0.53

Data File: OIY006PV.d
Spectrum: Avg. Scans 50-52 (3.40), Background Scan 45
Location of Maximum: 95.00
Number of points: 42

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	748	57.00	914	75.00	18288	94.00	4292
37.00	2768	60.00	495	76.00	1604	95.00	39096
38.00	2099	61.00	1959	77.00	144	96.00	2629
39.00	835	62.00	1607	78.00	436	141.00	245
45.00	443	63.00	1227	79.00	1012	174.00	28840
47.00	676	68.00	3913	80.00	354	175.00	2008
48.00	315	69.00	3826	81.00	1060	176.00	27648
49.00	1823	70.00	342	87.00	1765	177.00	2089
50.00	8924	72.00	102	88.00	1557	207.00	226
51.00	2676	73.00	1569	92.00	980		
56.00	703	74.00	6020	93.00	1496		

Date : 30-JUN-97 08:29:56

Client ID: BF006

Instrument: 0.i

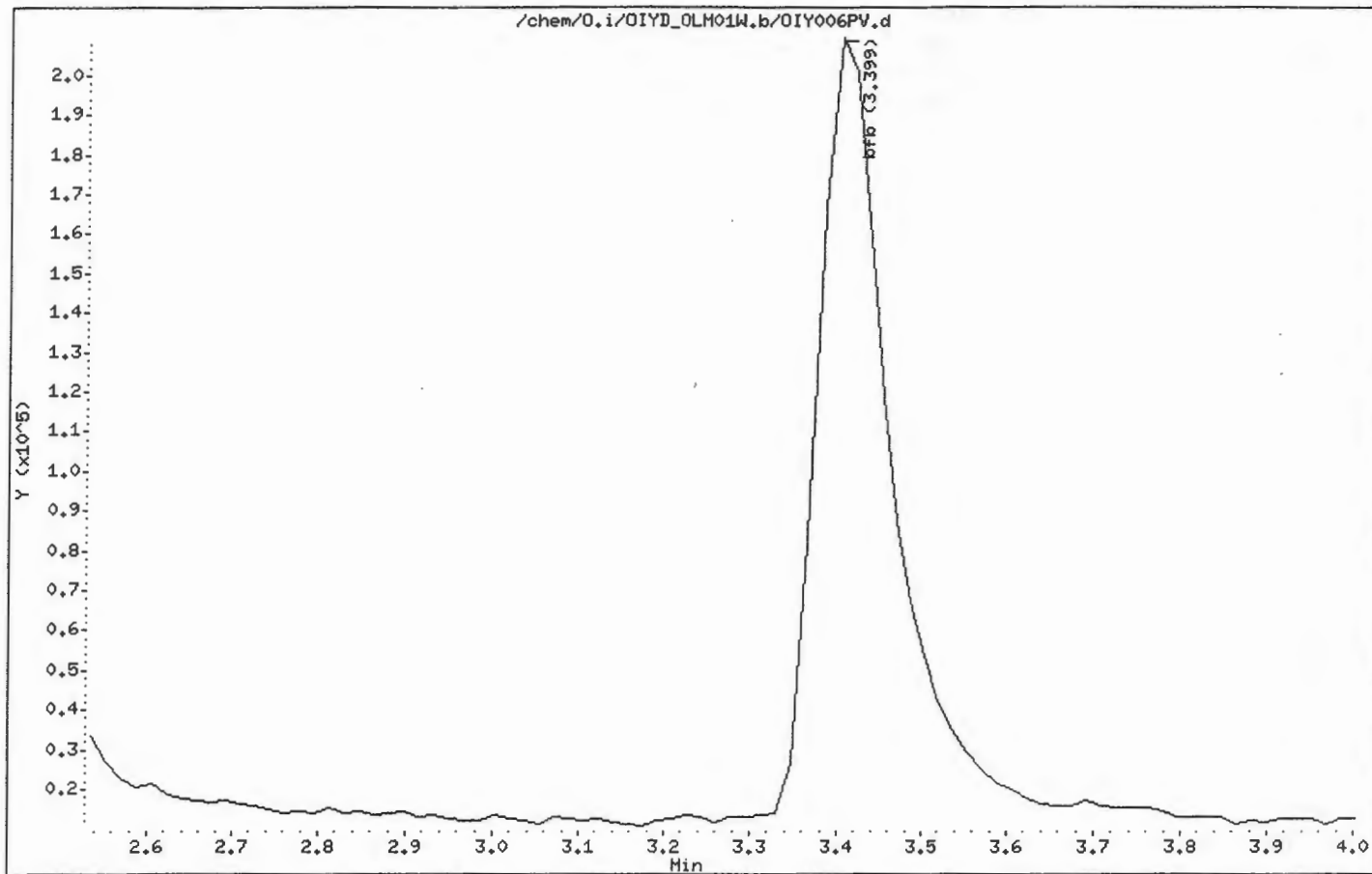
Sample Info: 50NG BF006

Volume Injected (uL): 2.0

Operator:

Column phase: CAP

Column diameter: 0.53



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKV7

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: VBLKV7

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OIYB001DV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKV7

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: VBLKV7

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OIYB001DV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/30/97

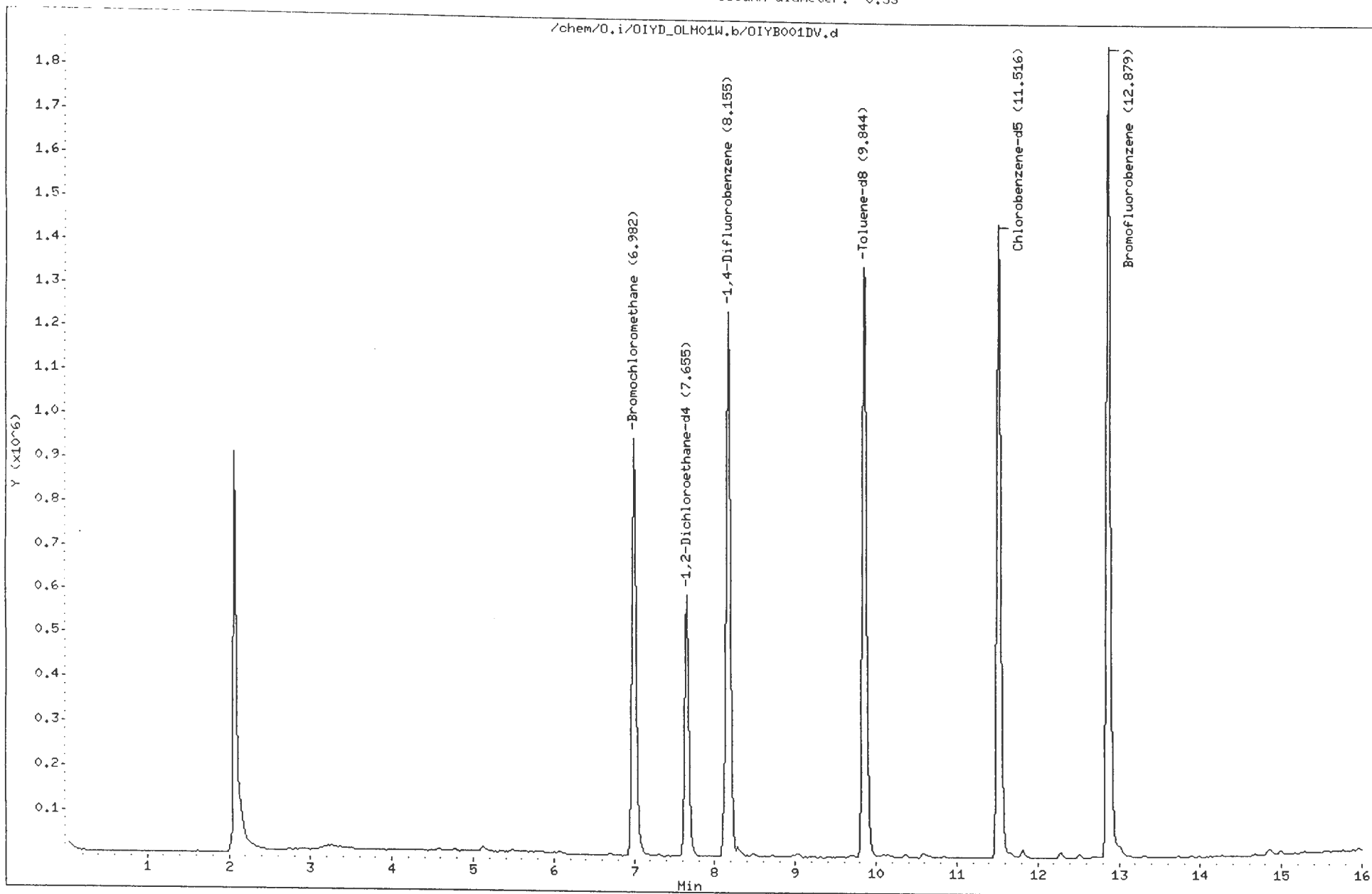
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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23.				
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25.				
26.				
27.				
28.				
29.				
30.				

000303



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/OIYB001DV.d
 Lab Smp Id: VBLKV7 Client Smp ID: VBLKV7
 Inj Date : 30-JUN-97 09:24:42
 Operator : 100% Inst ID: O.i
 Smp Info : BLANK CLI#VBLKV7
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: X* Uf/Vo

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	62.00						
3 Bromomethane	94.00						
4 Chloroethane	64.00						
5 Acetone	43.00						
6 1,1-Dichloroethene	96.00						
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene (total)	96.00						
11 1,1-Dichloroethane	63.00						
12 2-Butanone	43.00						
13 cis-1,2-Dichloroethene	96.00						
14 Chloroform	83.00						
* 15 Bromochloromethane	128	6.982	6.984	(1.000)	421449	50.0000	
16 1,1,1-Trichloroethane	97.00						

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
17 Carbon Tetrachloride	117.00					Compound Not Detected.		
\$ 18 1,2-Dichloroethane-d4	65		7.655	7.657	(1.096)	701973	46.5323	46
19 1,2-Dichloroethane	62.00					Compound Not Detected.		
20 Benzene	78.00					Compound Not Detected.		
* 21 1,4-Difluorobenzene	114		8.155	8.158	(1.000)	1803269	50.0000	
22 Trichloroethene	130.00					Compound Not Detected.		
23 1,2-Dichloropropane	63.00					Compound Not Detected.		
24 Bromodichloromethane	93.00					Compound Not Detected.		
25 4-Methyl-2-Pentanone	43.00					Compound Not Detected.		
26 cis-1,3-Dichloropropene	75.00					Compound Not Detected.		
\$ 27 Toluene-d8	98		9.844	9.866	(0.355)	1728880	48.4134	48
28 Toluene	91.00					Compound Not Detected.		
29 trans-1,3-Dichloropropene	75.00					Compound Not Detected.		
30 1,1,2-Trichloroethane	97.00					Compound Not Detected.		
31 2-Hexanone	43.00					Compound Not Detected.		
32 Tetrachloroethene	164.00					Compound Not Detected.		
33 Dibromochloromethane	129.00					Compound Not Detected.		
* 34 Chlorobenzene-d5	117		11.516	11.540	(1.000)	1538564	50.0000	
35 Chlorobenzene	112.00					Compound Not Detected.		
36 Ethylbenzene	106.00					Compound Not Detected.		
37 Xylene (m,p)	106.00					Compound Not Detected.		
M 38 Xylene (total)	106.00					Compound Not Detected.		
39 Xylene (o)	106.00					Compound Not Detected.		
40 Styrene	104.00					Compound Not Detected.		
41 Bromoform	173.00					Compound Not Detected.		
42 1,1,2,2-Tetrachloroethane	83.00					Compound Not Detected.		
\$ 43 Bromofluorobenzene	95		12.879	12.870	(1.118)	1275124	47.7314	48

ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/OIYB001DV.d
Lab Smp Id: VBLKV7 Client Smp ID: VBLKV7
Inj Date : 30-JUN-97 09:24:42
Operator : 100% Inst ID: O.i
Smp Info : BLANK CLI#VBLKV7
Misc Info : 100%
Comment :
Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM.sub
Target Version: 3.30
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

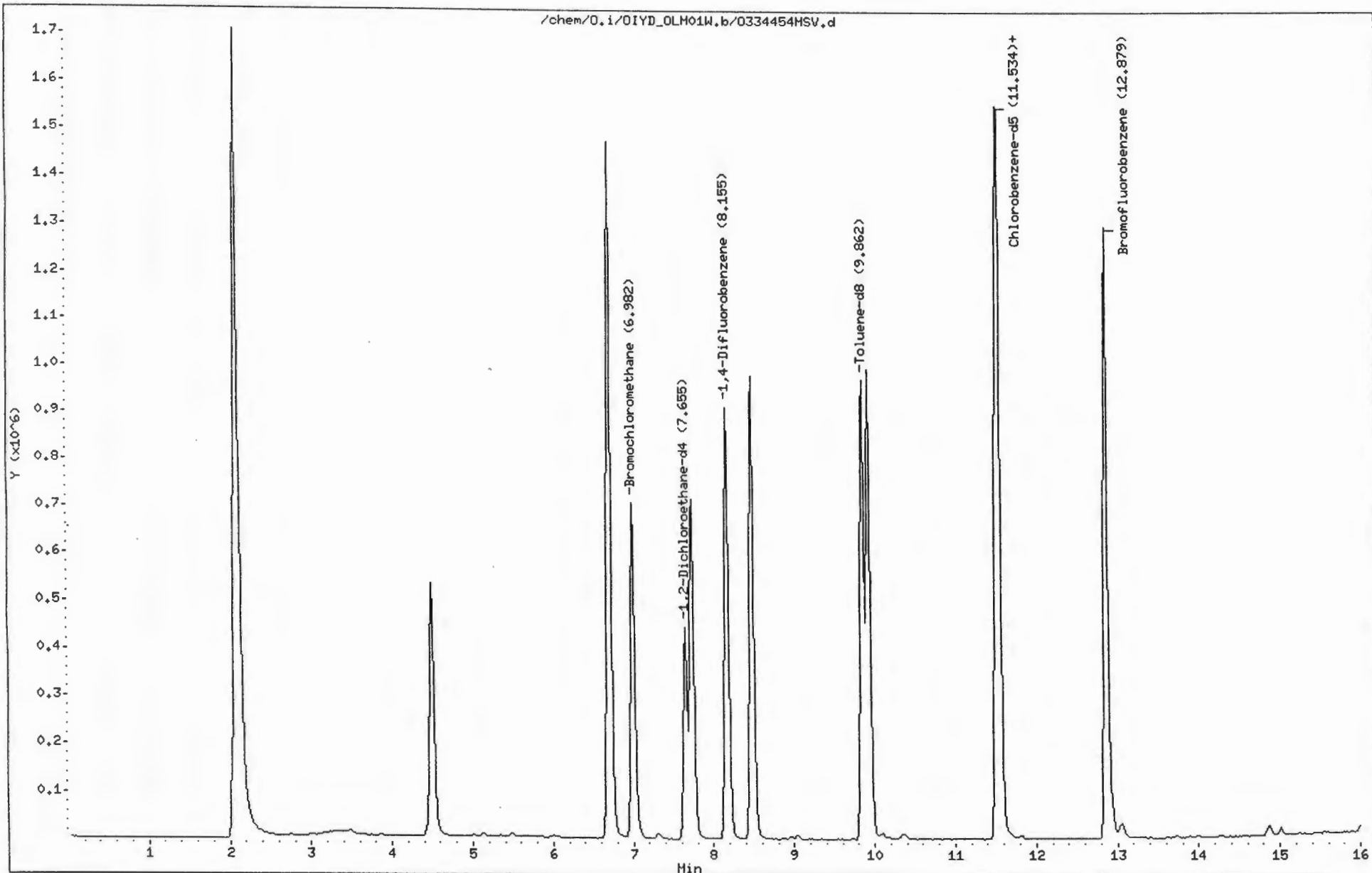
1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL122MS

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Matrix: (soil/water) WATER Lab Sample ID: 334454MS
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334454MSV
 Level: (low/med) LOW Date Received: 06/26/97
 % Moisture: not dec. _____ Date Analyzed: 06/30/97
 GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	50	
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	130	
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	58	
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	50	
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	J
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	51	
108-90-7	-----Chlorobenzene	50	
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334454MSV.d
 Lab Smp Id: 334454MS Client Smp ID: AL122MS
 Inj Date : 30-JUN-97 14:23:29
 Operator : MTP Inst ID: O.i
 Smp Info : L#334454MS CLI#AL122MS ETR#65533
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 8 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: $X * Uf / Vo$

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	52.00						
3 Bromomethane	94.00						
4 Chloroethane	64.00						
5 Acetone	43.00						
6 1,1-Dichloroethene	96	4.483	4.483	(0.642)	374982	50.1413	50
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene (total)	96				1083652	126.484	130
11 1,1-Dichloroethane	53.00						
12 2-Butanone	43.00						
13 cis-1,2-Dichloroethene	96	6.706	6.708	(0.960)	1083652	126.249	130
14 Chloroform	93.00						
* 15 Bromochloromethane	128	6.982	6.984	(1.000)	299992	50.0000	
16 1,1,1-Trichloroethane	97.00						

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
17 Carbon Tetrachloride	117.00				Compound Not Detected.		
\$ 18 1,2-Dichloroethane-d4	65	7.655	7.657	(1.096)	546386	50.8826	51
19 1,2-Dichloroethane	62.00				Compound Not Detected.		
20 Benzene	78	7.741	7.727	(0.949)	1110657	50.5957	50
* 21 1,4-Difluorobenzene	114	8.155	8.158	(1.000)	1293904	50.0000	
22 Trichloroethene	130	8.483	8.486	(1.040)	589251	57.6443	58
23 1,2-Dichloropropane	63.00				Compound Not Detected.		
24 Bromodichloromethane	83.00				Compound Not Detected.		
25 4-Methyl-2-Pentanone	43.00				Compound Not Detected.		
26 cis-1,3-Dichloropropene	75.00				Compound Not Detected.		
\$ 27 Toluene-d8	98	9.862	9.866	(0.856)	1201460	46.1627	46
28 Toluene	91	9.931	9.935	(0.862)	1257039	50.6501	51
29 trans-1,3-Dichloropropene	75.00				Compound Not Detected.		
30 1,1,2-Trichloroethane	97.00				Compound Not Detected.		
31 2-Hexanone	43.00				Compound Not Detected.		
32 Tetrachloroethene	164.00				Compound Not Detected.		
33 Dibromochloromethane	129.00				Compound Not Detected.		
* 34 Chlorobenzene-d5	117	11.517	11.540	(1.000)	1121331	50.0000	
35 Chlorobenzene	112	11.551	11.575	(1.003)	1020034	50.5071	50
36 Ethylbenzene	106.00				Compound Not Detected.		
37 Xylene (m,p)	106.00				Compound Not Detected.		
M 38 Xylene (total)	106.00				Compound Not Detected.		
39 Xylene (o)	106.00				Compound Not Detected.		
40 Styrene	104.00				Compound Not Detected.		
41 Bromoform	173.00				Compound Not Detected.		
42 1,1,2,2-Tetrachloroethane	83.00				Compound Not Detected.		
\$ 43 Bromofluorobenzene	95	12.879	12.870	(1.118)	877326	45.0603	45

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL122MSD

Lab Name: ITS ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533

Matrix: (soil/water) WATER Lab Sample ID: 334454MD

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0334454MDV

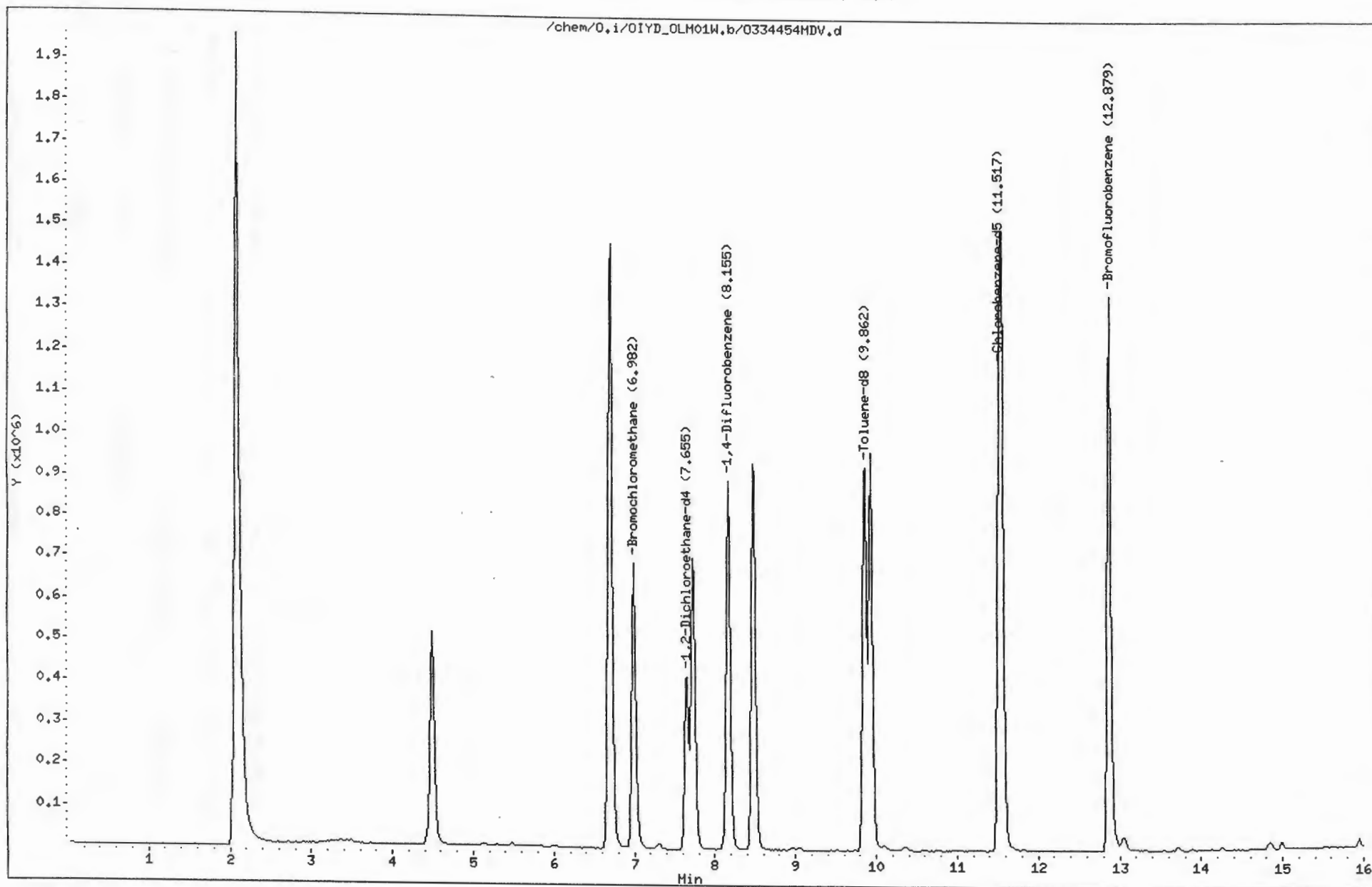
Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. _____ Date Analyzed: 06/30/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	50	
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	140	
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	58	
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	51	
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	51	
108-90-7	-----Chlorobenzene	51	
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/O334454MDV.d
 Lab Smp Id: 334454MD Client Smp ID: AL122MSD
 Inj Date : 30-JUN-97 14:49:13
 Operator : MTP Inst ID: O.i
 Smp Info : L#334454MD CLI#AL122MSD ETR#65533
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 9 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

Concentration Formula: $X * Uf / Vo$

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	62.00						
3 Bromomethane	94.00						
4 Chloroethane	64.00						
5 Acetone	43.00						
6 1,1-Dichloroethene	96	4.483	4.483	(0.642)	362939	49.9405	50
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene (total)	96				1130735	135.813	140
11 1,1-Dichloroethane	63.00						
12 2-Butanone	43.00						
13 cis-1,2-Dichloroethene	96	6.706	6.706	(0.960)	1130735	135.561	140
14 Chloroform	83.00						
* 15 Bromochloromethane	128	6.982	6.984	(1.000)	291525	50.0000	
16 1,1,1-Trichloroethane	97.00						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
17 Carbon Tetrachloride	117.00				Compound Not Detected.		
\$ 18 1,2-Dichloroethane-d4	65	7.655	7.657	(1.096)	538811	51.6345	52
19 1,2-Dichloroethane	62.00				Compound Not Detected.		
20 Benzene	78	7.724	7.727	(0.947)	1074996	51.1062	51
* 21 1,4-Difluorobenzene	114	8.155	8.158	(1.000)	1239849	50.0000	
22 Trichloroethene	130	8.483	8.486	(1.040)	569973	58.1893	58
23 1,2-Dichloropropane	63.00				Compound Not Detected.		
24 Bromodichloromethane	83.00				Compound Not Detected.		
25 4-Methyl-2-Pentanone	43.00				Compound Not Detected.		
26 cis-1,3-Dichloropropene	75.00				Compound Not Detected.		
\$ 27 Toluene-d8	98	9.862	9.866	(0.856)	1168671	46.7644	47
28 Toluene	91	9.931	9.935	(0.862)	1213275	50.9133	51
29 trans-1,3-Dichloropropene	75.00				Compound Not Detected.		
30 1,1,2-Trichloroethane	97.00				Compound Not Detected.		
31 2-Hexanone	43.00				Compound Not Detected.		
32 Tetrachloroethene	164.00				Compound Not Detected.		
33 Dibromochloromethane	129.00				Compound Not Detected.		
* 34 Chlorobenzene-d5	117	11.517	11.540	(1.000)	1076695	50.0000	
35 Chlorobenzene	112	11.551	11.575	(1.003)	992029	51.1568	51
36 Ethylbenzene	106.00				Compound Not Detected.		
37 Xylene (m,p)	106.00				Compound Not Detected.		
M 38 Xylene (total)	106.00				Compound Not Detected.		
39 Xylene (o)	106.00				Compound Not Detected.		
40 Styrene	104.00				Compound Not Detected.		
41 Bromoform	173.00				Compound Not Detected.		
42 1,1,2,2-Tetrachloroethane	83.00				Compound Not Detected.		
\$ 43 Bromofluorobenzene	95	12.879	12.870	(1.118)	372058	46.6466	47

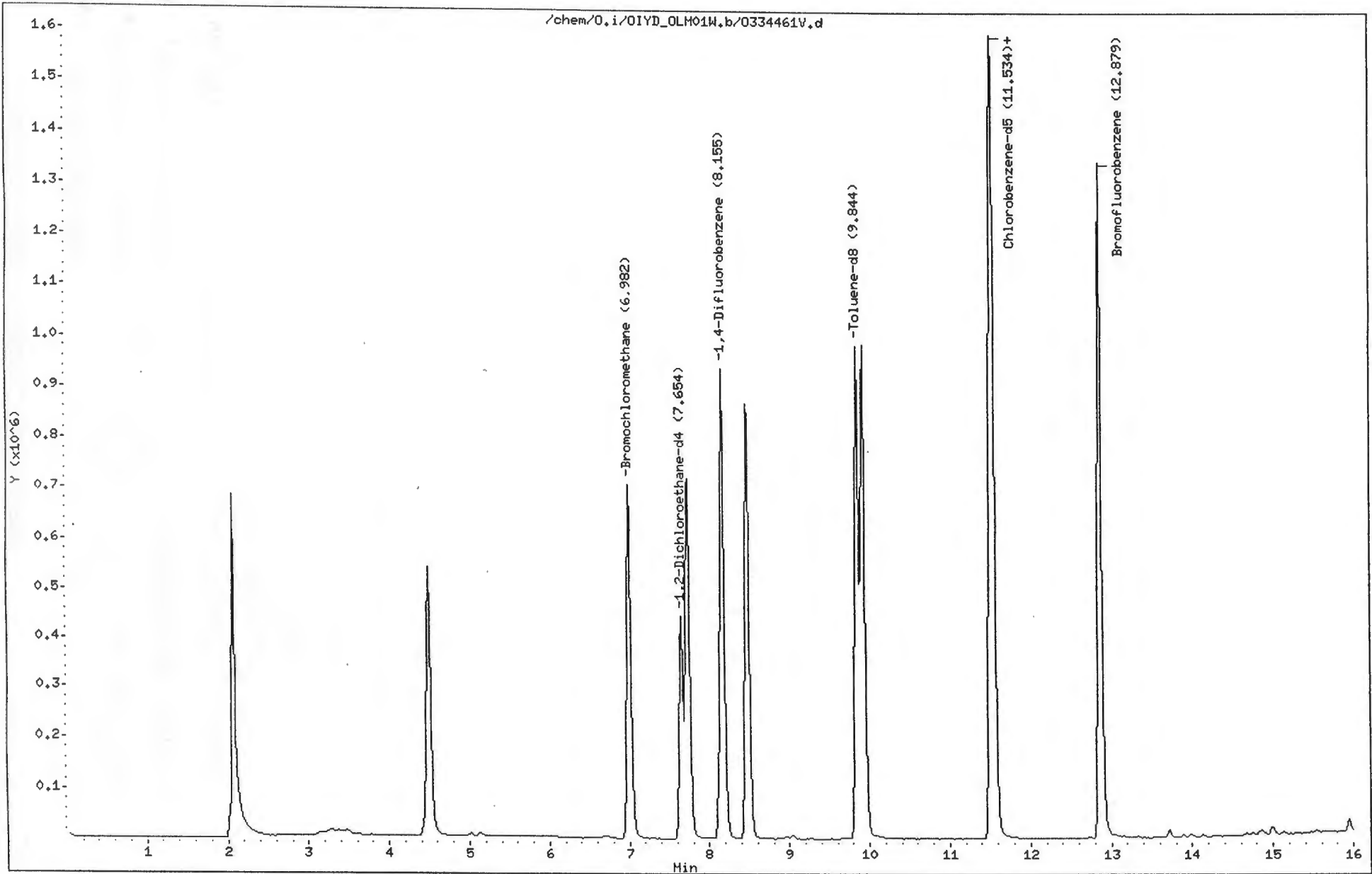
1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBS

Lab Name: ITS ENVIRONMENTAL Contract: 93206
 Lab Code: INCHVT Case No.: 93206 SAS No.: SDG No.: 65533
 Matrix: (soil/water) WATER Lab Sample ID: 334461
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: O334461V
 Level: (low/med) LOW Date Received: 06/26/97
 % Moisture: not dec. _____ Date Analyzed: 06/30/97
 GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	50	
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	51	
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	51	
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	51	
108-90-7	-----Chlorobenzene	51	
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U



ITS Environmental

VOLATILE QUANTITATION REPORT

Data file : /chem/O.i/OIYD_OLM01W.b/0334461V.d
 Lab Smp Id: 334461 Client Smp ID: MBS
 Inj Date : 30-JUN-97 15:15:06
 Operator : MTP Inst ID: O.i
 Smp Info : L#334461 CLI#MBS ETR#65533
 Misc Info : 100%
 Comment :
 Method : /chem/O.i/OIYD_OLM01W.b/VOA_AQ2.m
 Meth Date : 23-Jul-97 09:05:02 cpc Quant Type: ISTD
 Cal Date : 30-JUN-97 08:41:25 Cal File: OIY050DHV.d
 Als bottle: 10 QC Sample: BS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: OLM.sub
 Target Version: 3.30
 Processing Host: chemsvr4

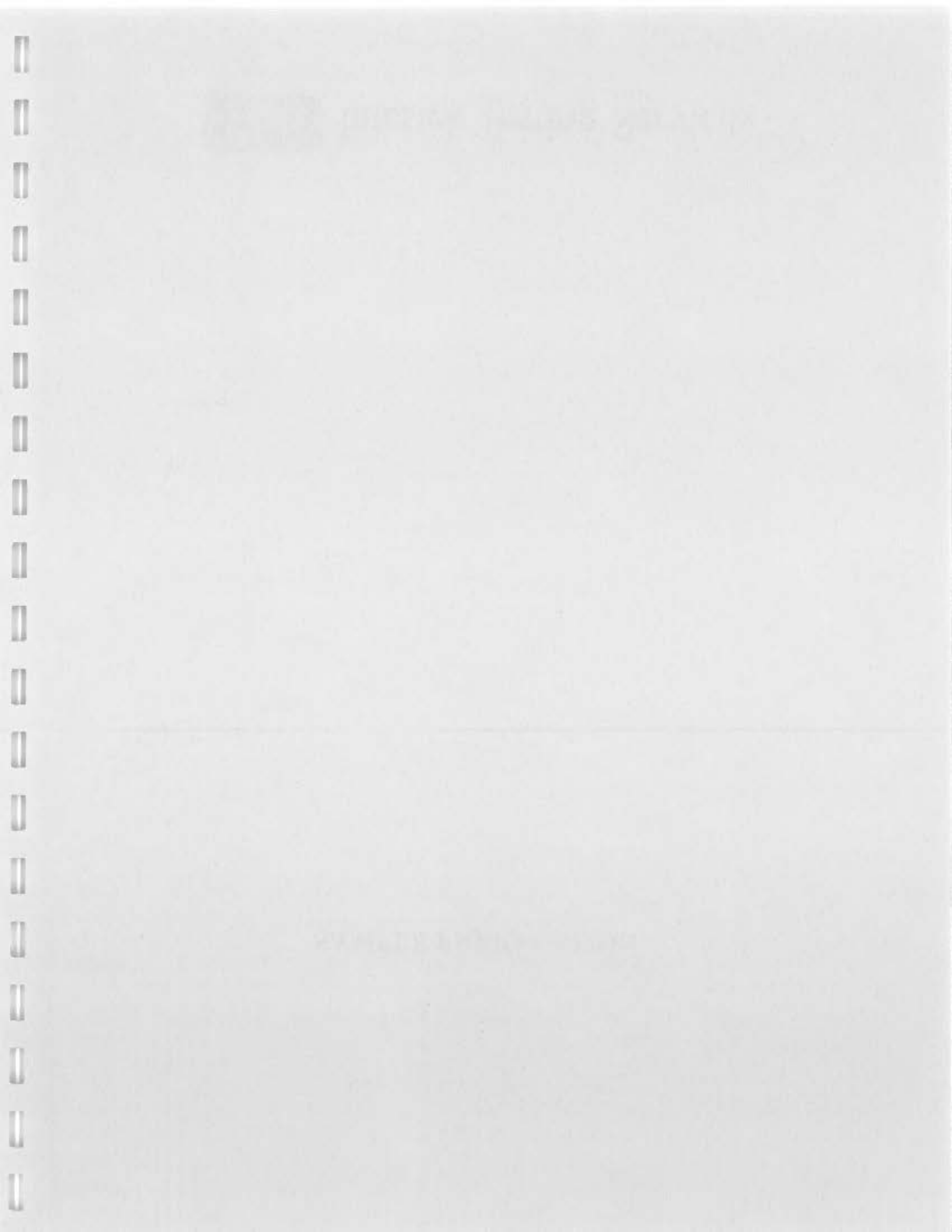
Concentration Formula: $X * Uf / Vo$

Name	Value	Description
X	5.000	method volume factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50.00						
2 Vinyl Chloride	62.00						
3 Bromomethane	94.00						
4 Chloroethane	64.00						
5 Acetone	43.00						
6 1,1-Dichloroethene	96	4.483	4.483	(0.642)	378322	49.8504	50
7 Methylene Chloride	84.00						
8 Carbon Disulfide	76.00						
9 trans-1,2-Dichloroethene	96.00						
M 10 1,2-Dichloroethene (total)	96.00						
11 1,1-Dichloroethane	63.00						
12 2-Butanone	43.00						
13 cis-1,2-Dichloroethene	96.00						
14 Chloroform	83.00						
* 15 Bromochloromethane	128	6.982	6.984	(1.000)	304430	50.0000	
16 1,1,1-Trichloroethane	97.00						

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
17 Carbon Tetrachloride	117.00							
\$ 18 1,2-Dichloroethane-d4	65		7.654	7.657	(1.096)	537683	49.3422	49
19 1,2-Dichloroethane	62.00							
20 Benzene	78		7.741	7.727	(0.949)	1128670	51.4169	51
* 21 1,4-Difluorobenzene	114		8.155	8.158	(1.000)	1293890	50.0000	
22 Trichloroethene	130		8.482	8.486	(1.040)	522963	51.1601	51
23 1,2-Dichloropropane	63.00							
24 Bromodichloromethane	83.00							
25 4-Methyl-2-Pentanone	43.00							
26 cis-1,3-Dichloropropene	75.00							
\$ 27 Toluene-d8	98		9.844	9.866	(0.855)	1171064	44.8090	45
28 Toluene	91		9.931	9.935	(0.862)	1266333	50.8137	51
29 trans-1,3-Dichloropropene	75.00							
30 1,1,2-Trichloroethane	97.00							
31 2-Hexanone	43.00							
32 Tetrachloroethene	164.00							
33 Dibromochloromethane	129.00							
* 34 Chlorobenzene-d5	117		11.516	11.540	(1.000)	1125983	50.0000	
35 Chlorobenzene	112		11.551	11.575	(1.003)	1039491	51.2578	51
36 Ethylbenzene	106.00							
37 Xylene (m,p)	106.00							
M 38 Xylene (total)	106.00							
39 Xylene (o)	106.00							
40 Styrene	104.00							
41 Bromoform	173.00							
42 1,1,2,2-Tetrachloroethane	83.00							
\$ 43 Bromofluorobenzene	95		12.879	12.870	(1.118)	886559	45.3464	45

SAMPLE PREPARATION



SCREEN

PRINTED : 06/26/97
 IN : 16:42:40

METHOD NO : OLMNY.VOL : ANW

ETR NO : 65533
 PAGE NO : 1

LEVEL 4 | TUFVAROUND 14 DAYS | SECTION 1MCIV

ANALYZER : Analysis, VOL	TECH	DATE	TIME	INST	DATE	TIME
DATE DUE : 07/10/97						
DATE REC'D : 06/26/97						
LAB INT : ENGSC2						
PROJECT : 93206						
Case:93206 SDG:65533						
DESCRIPTION BY :						
PREPARED BY :						
WORKSHEET & DATA FILED :						

COMMENTS/SPECIAL INSTRUCTIONS

1. Samples from Seneca Army Depot - ASH Landfill Quarterly Monitoring
2. *** NYS HT Required from VTSR ***
3. GCMS: 0.05 ppb DL required. Full data package + Format A diskette
LMS Diskette

(Continued on Next Page)

LAB NO.	NOTES AND CALCULATIONS	RESULTS
34444		TCE 4200
34446		C120CE 2500 TCE 1700
34448		C120CE 180
34450		C120CE 160
34452		C120CE 840
34454		C120CE 160
34454MS		
34454MD		

LAB NO.	LAB SAMPLE DESCRIPTION
34444	AL124 : [] 06/24/97 @ (Water)
34446	AL123 : [] 06/24/97 @ (Water)
34448	AL119 : [] 06/24/97 @ (Water)
34450	AL120 : [] 06/24/97 @ (Water)
34452	AL125 : [] 06/24/97 @ (Water)
34454	AL122 : [] 06/24/97 @ (Water)
34454MS	AL122MS : [MS] 06/24/97 @ (Water)
34454MD	AL122MSD : [MSD] 06/24/97 @ (Water)

000319

PRINTED : 06/26/97
TIME : 16:42:40

METHOD NO : OLMNY.VOL :ANW

ETR NO : 65533
PAGE NO : 2

LEVEL 4 | TURNAROUND 14 DAYS | SECTION 1MCIV

PARAMETER : Analysis, VOL	TECH	DATE	TIME	INST	DATE	TIME
DATE DUE : 07/10/97						
DATE REC'D : 06/26/97						
CLIENT : ENGSC2						
PROJECT : 93206						
Case:93206 SDG:65533						
TRANSCRIPTION BY :						
CHECKED BY :						
WORKSHEET & DATA FILED :						

COMMENTS/SPECIAL INSTRUCTIONS

4. SM: Organics:MS/MSD/MSB Inorganics:MS/REP ALL AT UNIT RATES
QC assigned in the field. MUST LOG IN A MSB. ALL AT UNIT RATES
Must log in a HB at no charge.
Do not count Trip or Field Blanks in the SDG. SDG Construction:
(Continued on Next Page)

LAB NO.	NOTES AND CALCULATIONS	RESULTS
34456		100%
34457		↓
34458		↓
34459		210CE /10

LAB NO.	LAB SAMPLE DESCRIPTION
34456	AL121 : [] 06/24/97 @ (Water)
34457	AL129EV : [] 06/23/97 @ (Water)
34458	AL118 : [] 06/23/97 @ (Water)
34459	AL117 : [] 06/23/97 @ (Water)

PRINTED : 06/26/97
TIME : 16:42:40

METHOD NO : OLMNY.VOL :ANW

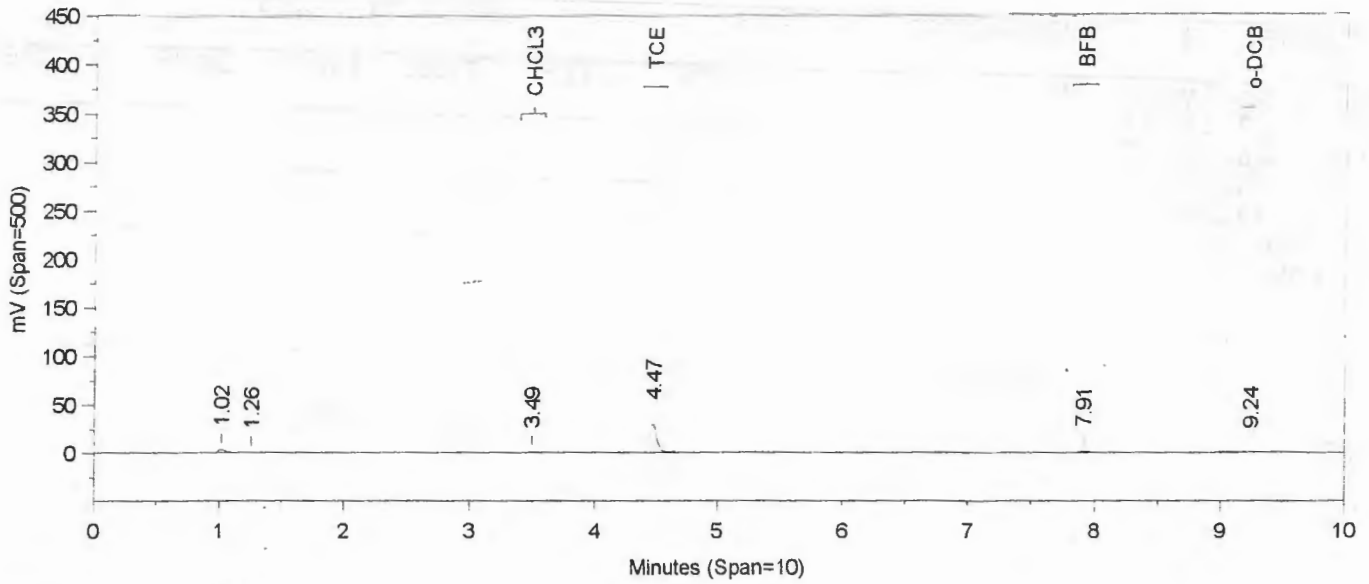
ETR NO : 65533
PAGE NO : 3

LEVEL 4 | TURNAROUND 14 DAYS | SECTION 1MCIV

PARAMETER : Analysis, VOL	TECH	DATE	TIME	INST	DATE	TIME
DATE DUE : 07/10/97						
DATE REC'D : 06/26/97						
AGENT : ENGSC2						
PROJECT : 93206						
Case:93206 SDG:65533						
TRANSCRIPTION BY :						
CHECKED BY :						
WORKSHEET & DATA FILED :						

COMMENTS/SPECIAL INSTRUCTIONS

Samples requiring 524.2 on 1 SDG, samples for CLP VOC-2nd SDG.
SDG's will not change for the sampling event.
Sheila: NYS data val froms. Two copies of data package, 1 set of disks.
This is the first sample set for this SDG.
334444,48,50,52 1-1L NP poly., 1-1L HNO3 pres. poly., 1-500ml H2SO4
pres. poly., 3-40ml HCl pres. vials per.
334445,47,49,51,53,55 2-40ml H2SO4 pres. vials per.
334446 1-1L NP poly.,1-500ml H2SO4 pres. poly.,3-40ml HCl pres. vials
334454 1-1L NP poly., 1-500ml H2SO4 pres. poly.,9-40ml HCl pres. vials
334456,58,59 3-40ml HCl pres. vials per.
334457 2-40ml HCl pres. vials.
334460 2-40ml NP vials.



Sample Name: 334444

VOA SCREEN ON HP767 DB-624

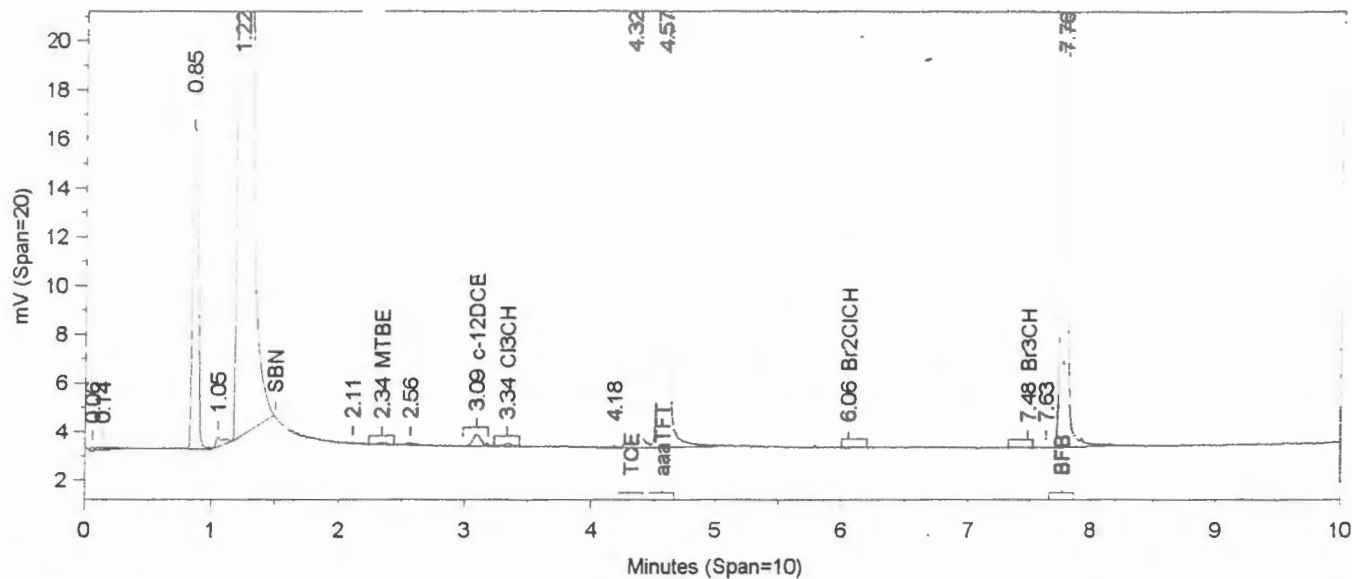
Data File: C:\CPWIN\DATA1\VOAE178.05R

Acquired from Chrom3--Det3A on 06-27-1997 09:00:08 by WRD

Sample 334444 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2826.07	4.47	TCE	4196	29307.75
1.26		0	159.76	7.91	BFB	2441	1177.00
3.49	CHCL3	38	438.70	9.24	o-DCB	35	71.60

Surrogate BFB recovery is 122.0%



Sample Name: 334444

VOA SCREEN ON HP767 DB-624

Data File: C:\CPWINDATA\VOAF178.05R

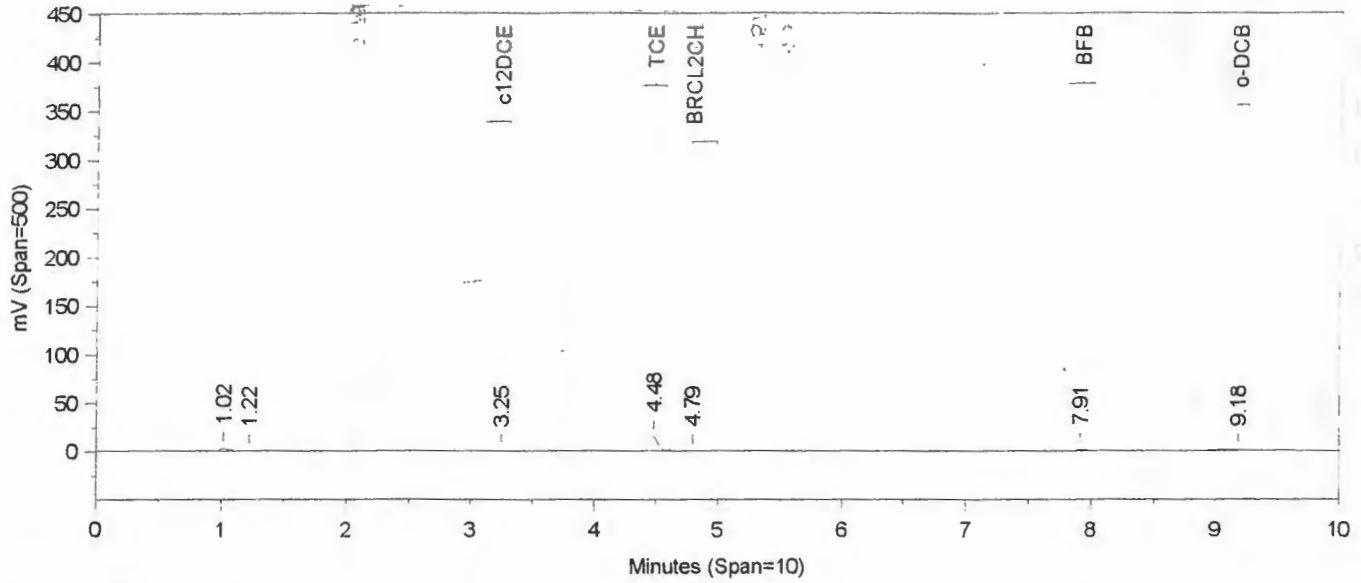
Acquired from Chrom3--Det3B on 06-27-1997 09:00:08 by WRD

Sample 334444 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.06		0	137.50	3.34	Cl3CH	51	124.68
0.14		0	129.48	4.18		0	88.37
0.85		0	13643.82	4.32	TCE	3727	18931.12
1.05		0	402.52	4.57	aaaTFT	2507	39985.11
1.22		0	602900.90	6.06	Br2ClCH	24	60.20
2.11		0	63.94	7.48	Br3CH	35	43.68
2.34	MTBE	20	77.00	7.63		0	42.40
2.56		0	97.21	7.76	BFB	2575	31838.03
3.09	c-12DCE	79	489.63				

Surrogate aaaTFT recovery is 125.3%

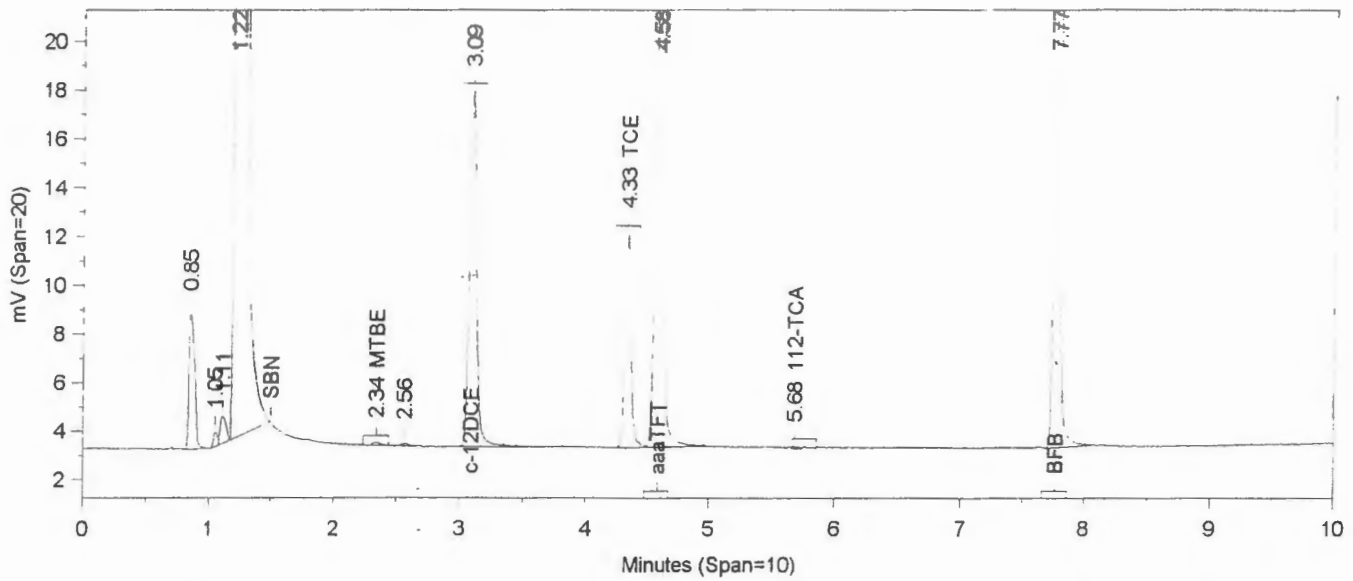
Surrogate BFB recovery is 128.8%



Sample Name: 334446
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWIN\DATA1\VOAE178.06R
 Acquired from Chrom3--Det3A on 06-27-1997 09:14:59 by WRD
 Sample 334446 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2829.99	4.79	BRCL2CH	1	38.74
1.22		0	103.65	7.91	BFB	2442	1177.27
3.25	c12DCE	2512	116.61	9.18	o-DCB	79	132.32
4.48	TCE	1931	15042.27				

Surrogate BFB recovery is 122.1%



Sample Name: 334446

VOA SCREEN ON HP767 DB-624

Data File: C:\CPWIN\DATA1\VOAF178.06R

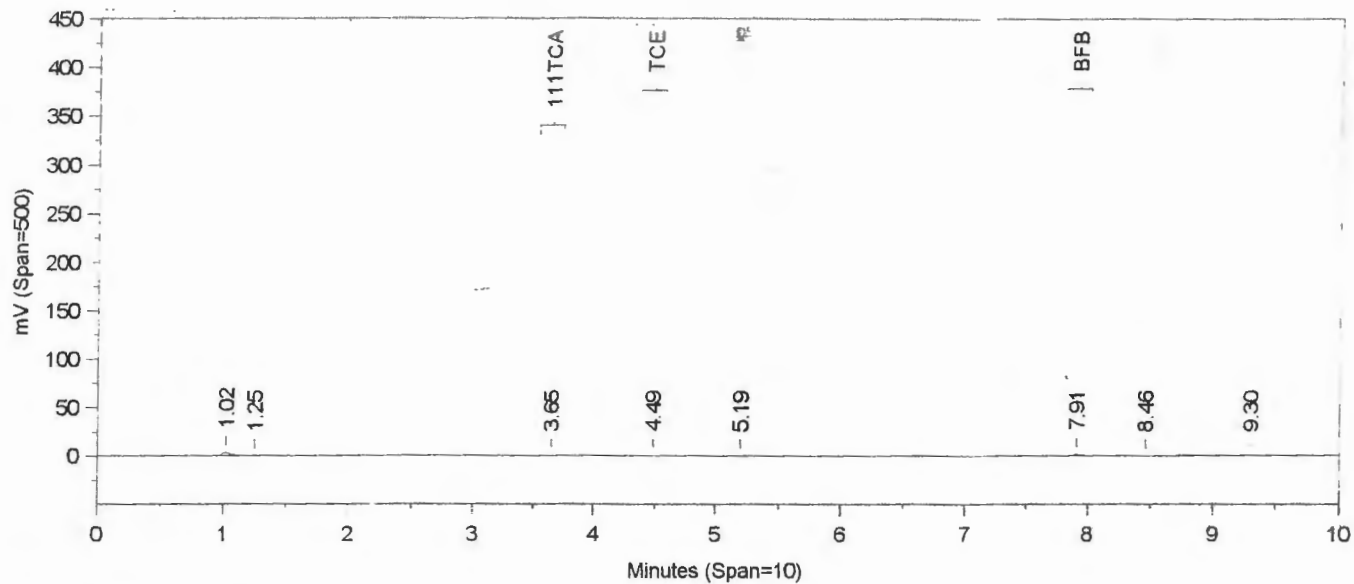
Acquired from Chrom3--Det3B on 06-27-1997 09:14:59 by WRD

Sample 334446 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.85		0	5552.33	3.09	c-12DCE	2471	14673.20
1.05		0	626.95	4.33	TCE	1741	8851.09
1.11		0	1115.60	4.58	aaaTFT	2441	38927.13
1.22		0	595578.80	5.68	112-TCA	29	122.41
2.34	MTBE	30	118.65	7.77	BFB	2546	31473.57
2.56		0	80.31				

Surrogate aaaTFT recovery is 122.9%

Surrogate BFB recovery is 127.3%



Sample Name: 334448

VOA SCREEN ON HP767 DB-624

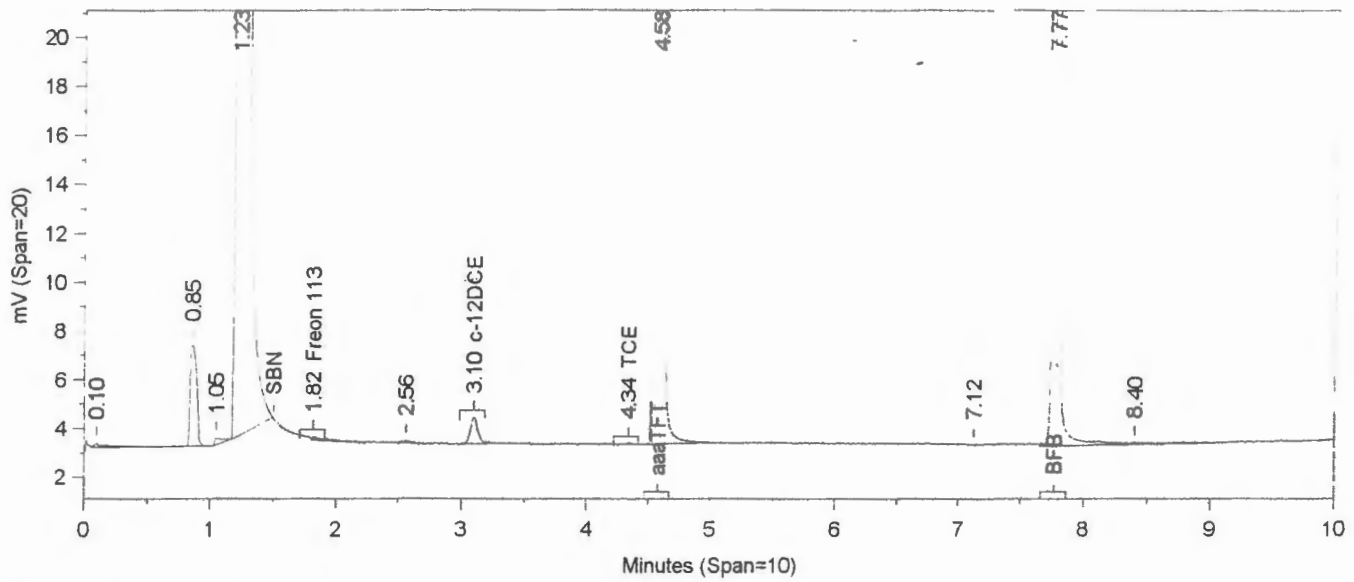
Data File: C:\CPWIN\DATA1\VOAE178.07R

Acquired from Chrom3--Det3A on 06-27-1997 09:29:50 by WRD

Sample 334448 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	3046.04	5.19		0	34.55
1.25		0	104.54	7.91	BFB	2707	1272.61
3.65	111TCA	1	55.91	8.46		0	60.21
4.49	TCE	6	103.42	9.30		0	152.52

Surrogate BFB recovery is 135.3%

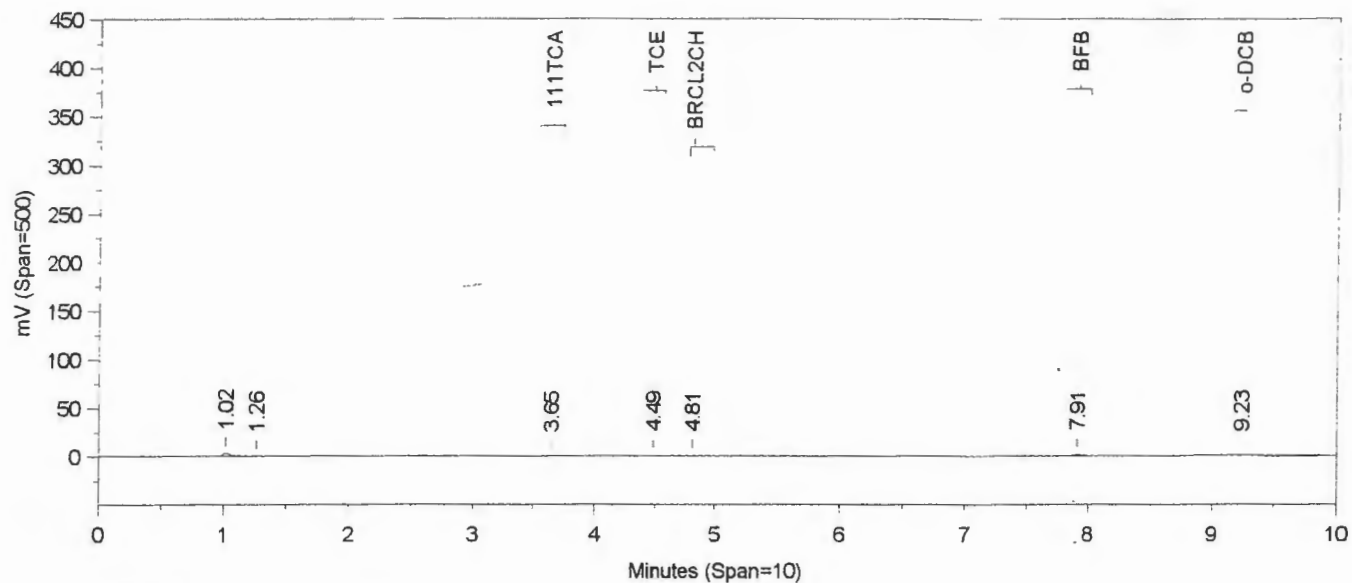


Sample Name: 334448
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWIN\DATA1\VOAF178.07R
 Acquired from Chrom3--Det3B on 06-27-1997 09:29:50 by WRD
 Sample 334448 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.10		0	157.40	3.10	c-12DCE	179	1079.80
0.85		0	4159.77	4.34	TCE	6	43.29
1.05		0	299.83	4.58	aaaTFT	2627	41897.30
1.23		0	577660.60	7.12		0	20.88
1.82	Freon 113	41	149.24	7.77	BFB	2733	33791.36
2.56		0	105.32	8.40		0	46.41

Surrogate aaaTFT recovery is 131.3%

Surrogate BFB recovery is 136.7%



Sample Name: 334450

VOA SCREEN ON HP767 DB-624

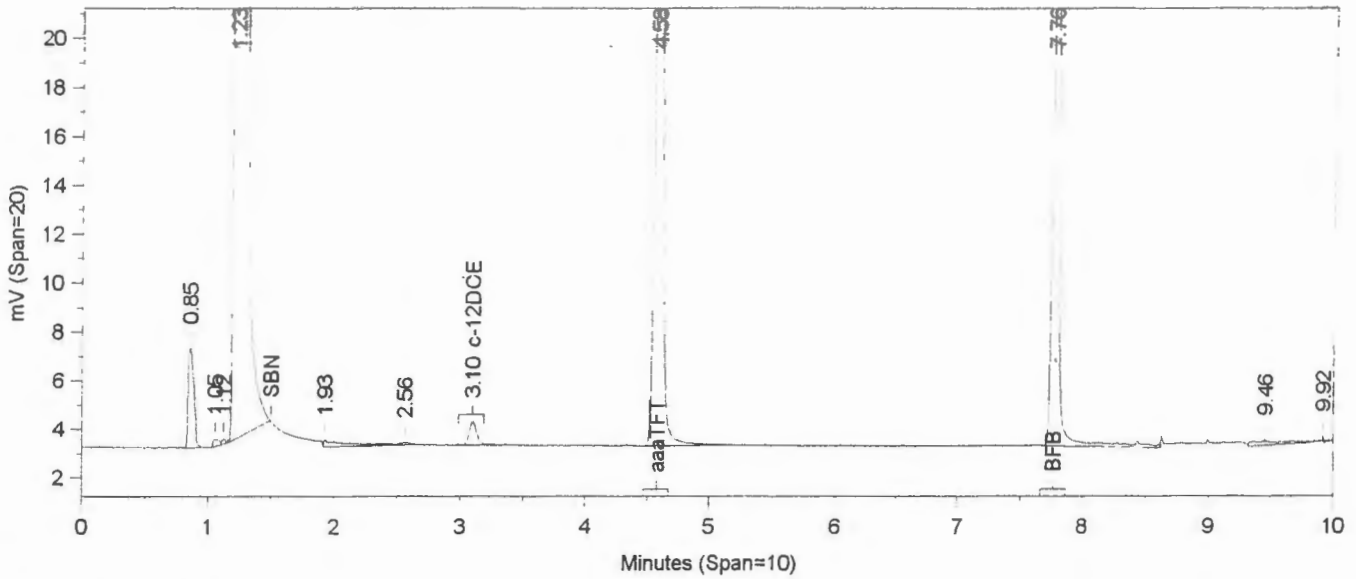
Data File: C:\CPWINDATA1\VOAE178.08R

Acquired from Chrom3--Det3A on 06-27-1997 09:44:40 by WRD

Sample 334450 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2754.97	4.81	BRCL2CH	1	51.41
1.26		0	149.62	7.91	BFB	2347	1142.72
3.65	111TCA	1	47.32	9.23	o-DCB	108	168.34
4.49	TCE	5	83.28				

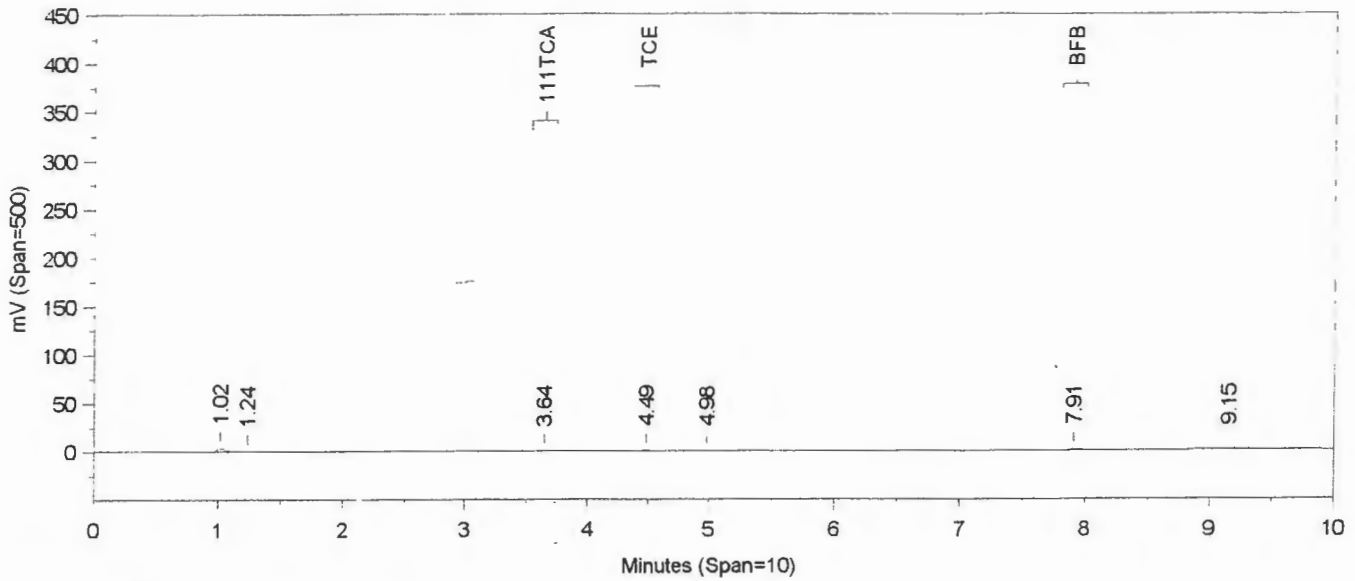
Surrogate BFB recovery is 117.4%



Sample Name: 334450
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWIN\DATA1\VOAF178.08R
 Acquired from Chrom3--Det3B on 06-27-1997 09:44:40 by WRD
 Sample 334450 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.85		0	4152.48	3.10	c-12DCE	160	969.43
1.05		0	290.90	4.58	aaaTFT	2373	37845.97
1.12		0	187.74	7.76	BFB	2427	30004.07
1.23		0	581266.00	9.46		0	246.93
1.93		0	293.65	9.92		0	247.29
2.56		0	100.63				

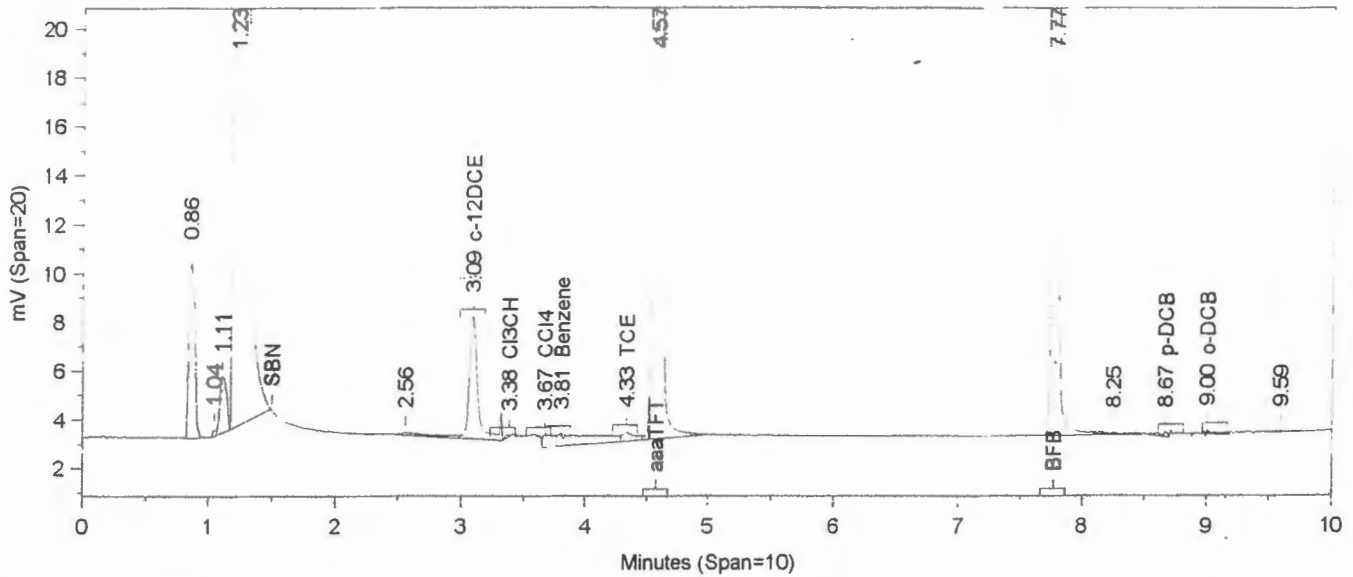
Surrogate aaaTFT recovery is 118.6%
 Surrogate BFB recovery is 121.3%



Sample Name: 334452
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWIN\DATA1\VOAE178.09R
 Acquired from Chrom3--Det3A on 06-27-1997 09:59:31 by WRD
 Sample 334452 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	3103.81	4.98		0	33.48
1.24		0	130.37	7.91	BFB	2933	1352.26
3.64	111TCA	3	130.35	9.15		0	48.57
4.49	TCE	26	368.14				

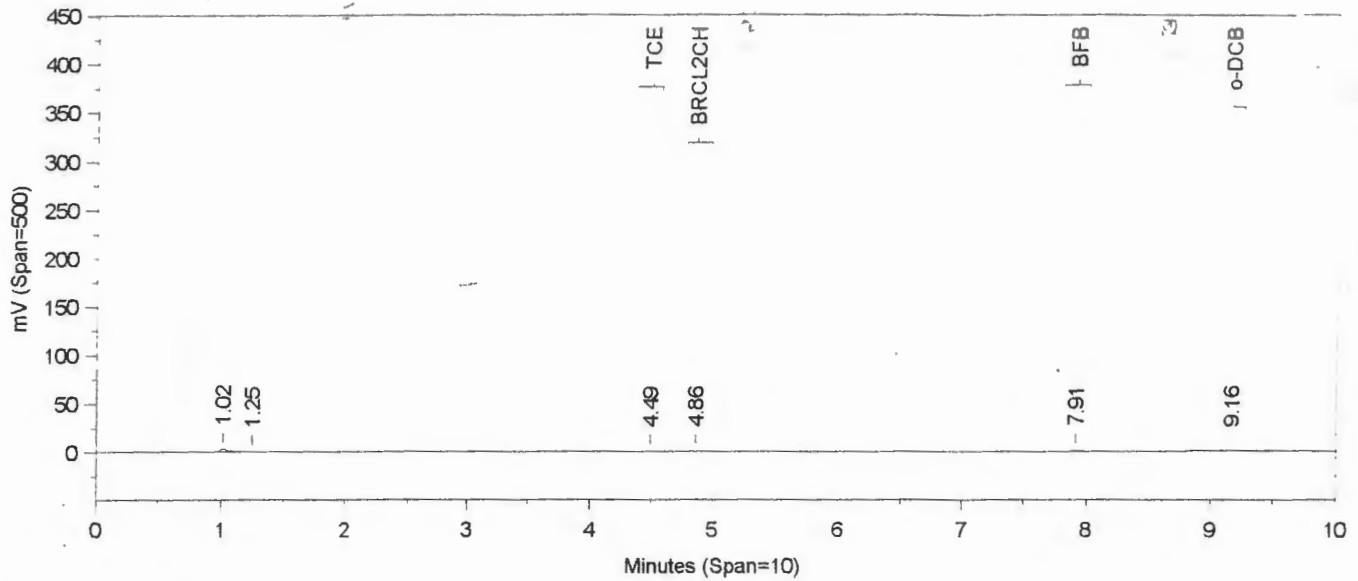
Surrogate BFB recovery is 146.6%



Sample Name: 334452
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWINDATA1\VOAF178.09R
 Acquired from Chrom3--Det3B on 06-27-1997 09:59:31 by WRD
 Sample 334452 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.86		0	7169.83	3.81	Benzene	21	530.74
1.04		0	273.02	4.33	TCE	67	355.41
1.11		0	2308.01	4.57	aaaTFT	2831	45144.84
1.23		0	620306.40	7.77	BFB	2960	36596.91
2.56		0	97.91	8.25		0	72.18
3.09	c-12DCE	841	5005.75	8.67	p-DCB	10	210.12
3.38	Cl3CH	38	99.22	9.00	o-DCB	9	182.44
3.67	CCl4	347	525.30	9.59		0	54.91

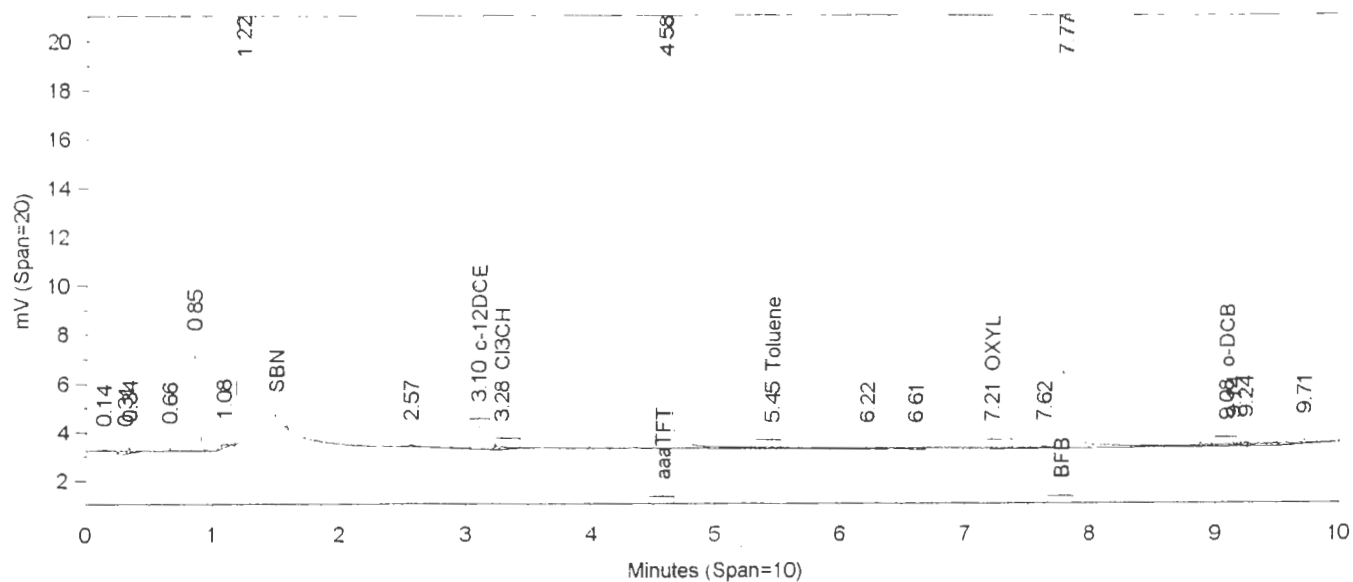
Surrogate aaaTFT recovery is 141.5%
 Surrogate BFB recovery is 148.0%



Sample Name: 334454
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWIN\DATA1\VOAE178.10R
 Acquired from Chrom3--Det3A on 06-27-1997 10:14:26 by WRD
 Sample 334454 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2594.97	4.86	BRCL2CH	1	42.19
1.25		0	85.71	7.91	BFB	2176	1079.06
4.49	TCE	6	105.44	9.16	o-DCB	19	45.35

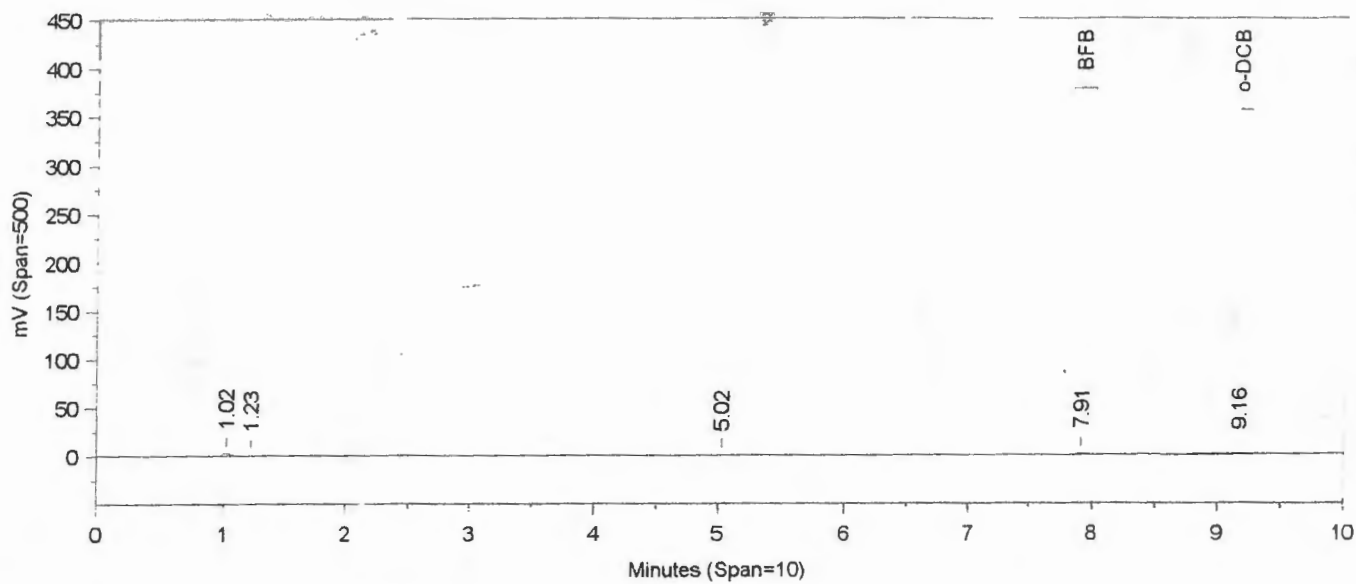
Surrogate BFB recovery is 108.8%



Sample Name: 334454
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWINDATA\VOAF178.10R
 Acquired from Chrom3--Det3B on 06-27-1997 10:14:26 by WRD
 Sample 334454 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.14		0	22.53	5.45	Toluene	2	68.92
0.31		0	172.80	6.22		0	85.03
0.34		0	323.89	6.61		0	94.77
0.66		0	144.41	7.21	OXYL	3	106.72
0.85		0	3963.87	7.62		0	103.35
1.08		0	176.36	7.77	BFB	2328	28779.03
1.22		0	582547.80	9.08	o-DCB	4	106.88
2.57		0	78.50	9.14		0	179.14
3.10	o-12DCE	158	960.12	9.24		0	210.01
3.28	Cl3CH	74	170.57	9.71		0	248.37
4.58	aaaTFT	2259	36034.20				

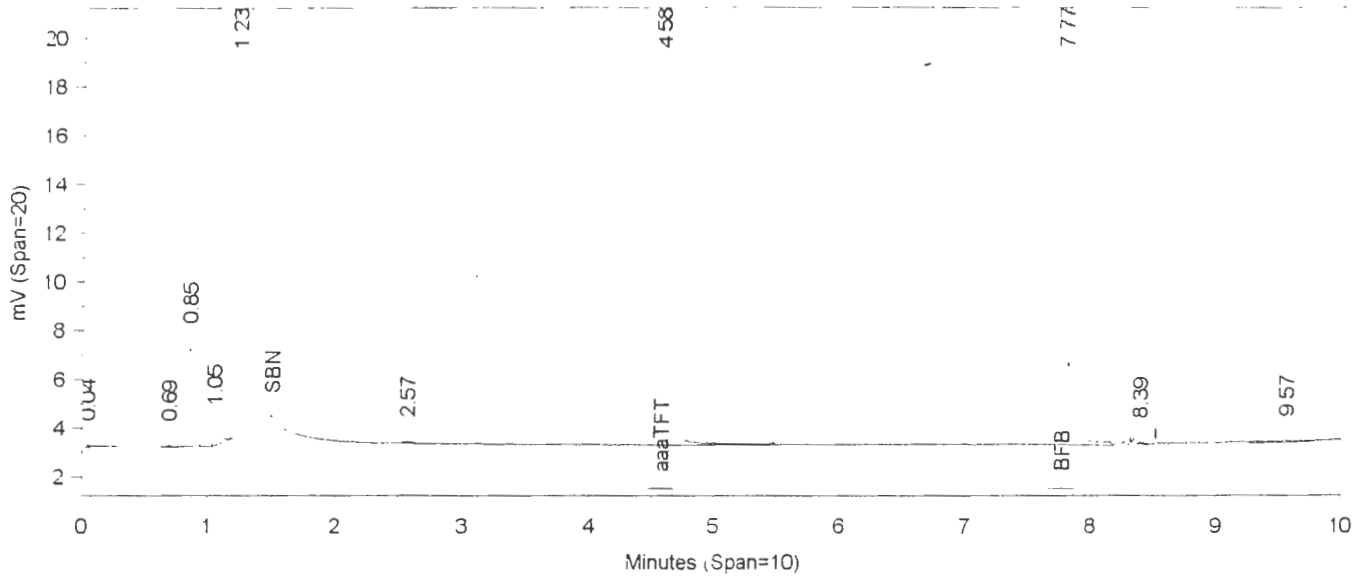
Surrogate aaaTFT recovery is 113.2%
 Surrogate BFB recovery is 116.4%



Sample Name: 334456
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWINDATA1\VOAE178.11R
 Acquired from Chrom3--Det3A on 06-27-1997 10:29:21 by WRD
 Sample 334456 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2747.04	7.91	BFB	2524	1207.07
1.23		0	114.20	9.16	o-DCB	148	212.57
5.02		0	36.94				

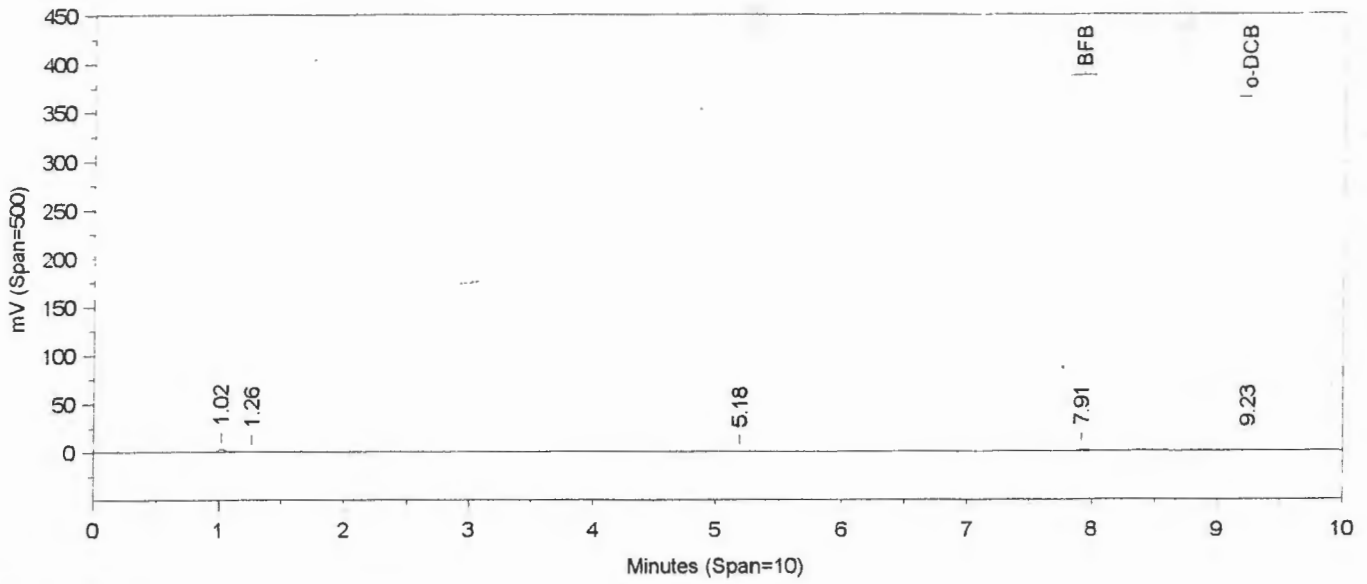
Surrogate BFB recovery is 126.2%



Sample Name: 334456
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWIN\DATA1\VOAF178.11R
 Acquired from Chrom3--Det3B on 06-27-1997 10:29:21 by WRD
 Sample 334456 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.04		0	94.94	2.57		0	76.48
0.69		0	63.73	4.58	aaaTFT	2464	39306.46
0.85		0	4150.82	7.77	BFB	2559	31632.62
1.05		0	658.75	8.39		0	64.70
1.23		0	620238.30	9.57		0	88.39

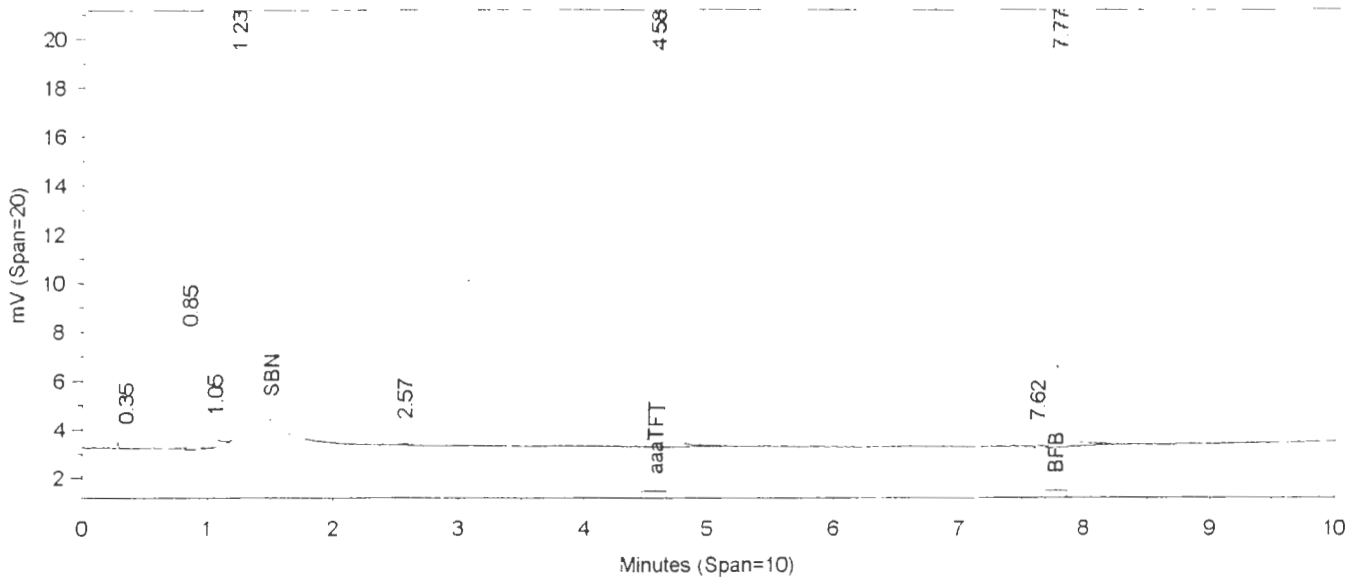
Surrogate aaaTFT recovery is 123.2%
 Surrogate BFB recovery is 127.9%



Sample Name: 334457
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWINDATA1\VOAE178.12R
 Acquired from Chrom3--Det3A on 06-27-1997 10:44:24 by WRD
 Sample 334457 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2659.49	7.91	BFB	2351	1143.90
1.26		0	87.97	9.23	o-DCB	147	212.23
5.18		0	32.37				

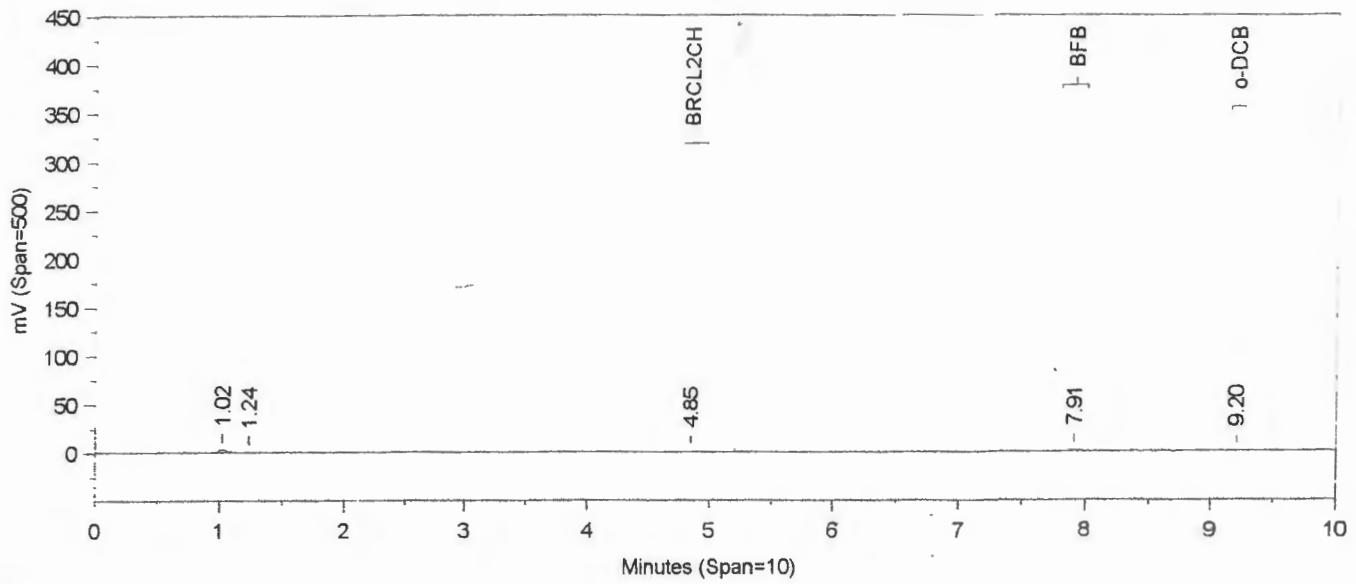
Surrogate BFB recovery is 117.5%



Sample Name: 334457
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWIN\DATA1\VOAF178.12R
 Acquired from Chrom3--Det3B on 06-27-1997 10:44:24 by WRD
 Sample 334457 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.35		0	65.32	2.57		0	69.96
0.85		0	4129.53	4.58	aaaTFT	2373	37844.31
1.05		0	330.58	7.62		0	11778
1.23		0	587948.40	7.77	BFB	2486	30737.72

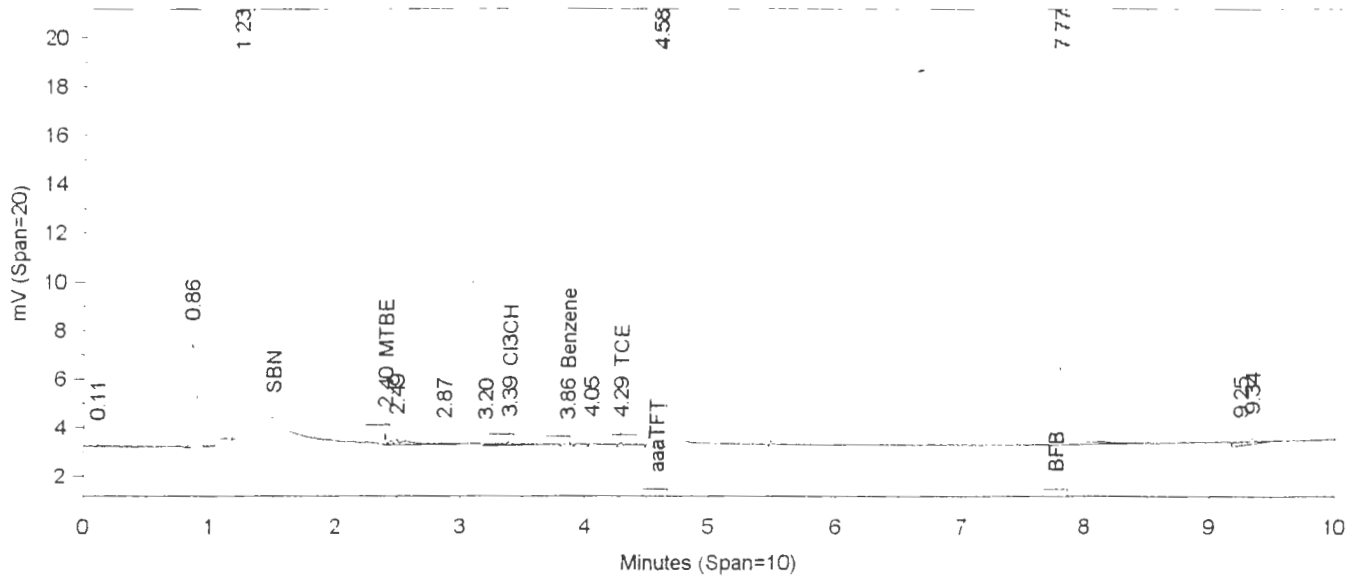
Surrogate aaaTFT recovery is 118.6%
 Surrogate BFB recovery is 124.3%



Sample Name: 334458
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWIN\DATA1\VOAE178.13R
 Acquired from Chrom3--Det3A on 06-27-1997 10:59:16 by WRD
 Sample 334458 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2840.13	7.91	BFB	2549	1216.28
1.24		0	106.71	9.20	o-DCB	87	142.27
4.85	BRCL2CH	1	40.62				

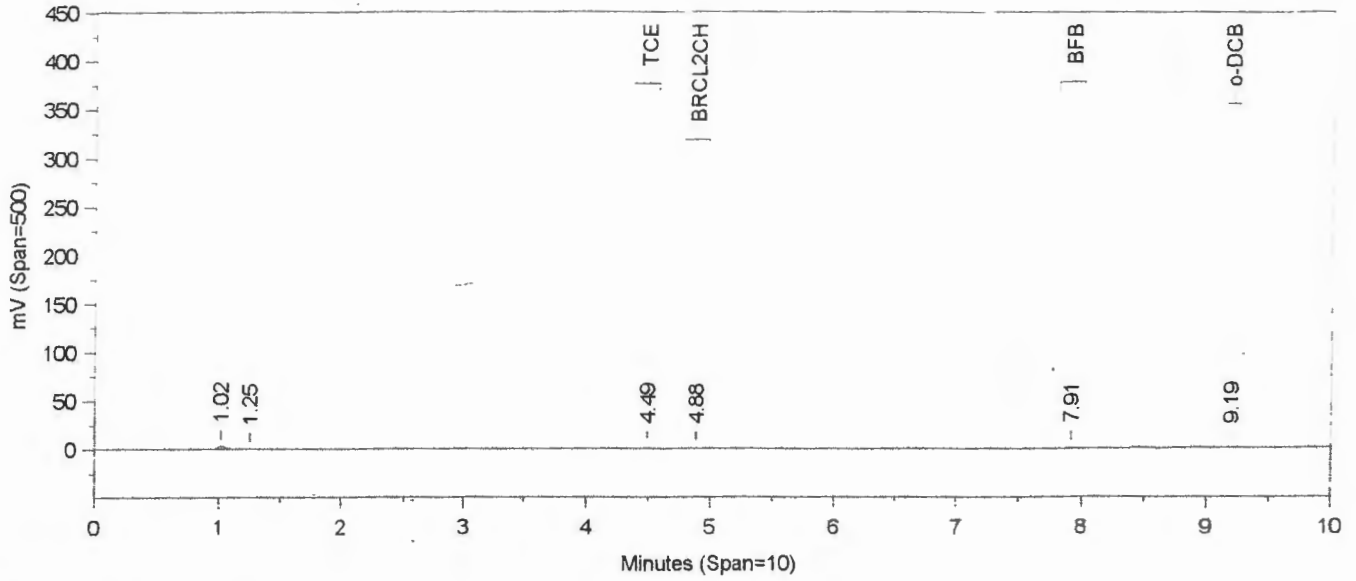
Surrogate BFB recovery is 127.5%



Sample Name: 334458
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWIN\DATA1\VOAF178.13R
 Acquired from Chrom3--Det3B on 06-27-1997 10:59:16 by WRD
 Sample 334458 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.11		0	87.99	3.86	Benzene	4	131.49
0.86		0	4258.58	4.05		0	208.65
1.23		0	610356.80	4.29	TCE	40	217.16
2.40	MTBE	133	545.75	4.58	aaaTFT	2550	40675.79
2.49		0	256.52	7.77	BFB	2619	32378.97
2.87		0	48.81	9.25		0	165.58
3.20		0	83.79	9.34		0	253.43
3.39	Cl3CH	73	168.20				

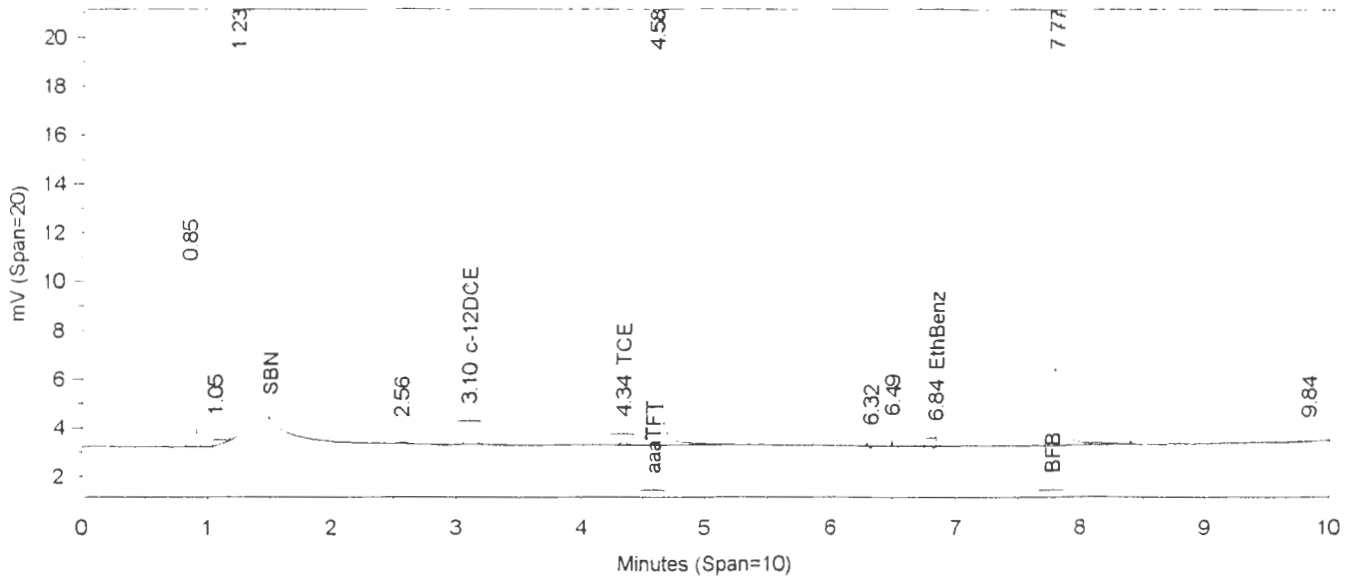
Surrogate aaaTFT recovery is 127.5%
 Surrogate BFB recovery is 131.0%



Sample Name: 334459
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWINDATA\VOAE178.14R
 Acquired from Chrom3--Det3A on 06-27-1997 11:14:15 by WRD
 Sample 334459 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2776.75	4.88	BRCL2CH	1	37.41
1.25		0	145.70	7.91	BFB	2407	1164.60
4.49	TCE	29	401.88	9.19	o-DCB	156	221.78

Surrogate BFB recovery is 120.3%



Sample Name: 334459
 VOA SCREEN ON HP767 DB-624
 Data File: C:\CPWINDATA\VOAF178.14R
 Acquired from Chrom3--Det3B on 06-27-1997 11:14:15 by WRD
 Sample 334459 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.85		0	6713.60	4.58	aaaTFT	2447	39029.95
1.05		0	266.46	6.32		0	-134.89
1.23		0	590985.10	6.49		0	273.31
2.56		0	70.56	6.84	EthBenz	0	41.44
3.10	c-12DCE	111	680.62	7.77	BFB	2528	31257.40
4.34	TCE	28	156.96	9.84		0	35.06

Surrogate aaaTFT recovery is 122.4%
 Surrogate BFB recovery is 126.4%

~~NOV 04~~
 341

Handwritten notes and scribbles in the top right corner.

Batch/Method ID: OITH-0UM03W
Start Date: 6/20/97
Close Date: 1/1/

Time: 13:11
Time: 01:11

ETR #	SDG #

ISTD Summaries

Previous

Current

Areas

Rt

Areas

Rt

Tune

Response Factor Summary

11-Table Updated (Finn)

Rt & Ratios Updated (HP)

Inj. Time	File Name	CLI/SMO #	ETR #	% Moist	Dil. Wt/Vol	SSTD Rec	ISTD	Conc	Final Report	Analyst	Comments
1311	OIT014 PV	BFB014							✓	MTP	
1321	OIT050 HAV	VSTD050 CRV#	<i>OITH-014</i>						✓		
1423	OIT010 HHV	010	↓						✓		
1447	OIT020 HHV	020	↓						✓		
1513	OIT100 HHV	100	↓						✓		
1546	OIT200 HHV	200	↓						✓		
<p><i>Large handwritten scribble covering the bottom half of the table.</i></p>											
<p><i>Handwritten signature: Cindy MTP 6/21/97</i></p>											

*MTP
Mark Phillips*

ITS Intertek Testing Services - Environmental Laboratories
GC/MS VOA RUNLOG

No 0085

347

Batch/Method ID: OIYD-OLM03

Start Date: 6 / 30 / 97

Close Date: 6 / 30 / 97

Time: 08:29

Time: 20:29

Inst: 0

ETR #	SDG #
65533	65533

ISTD Summaries

Previous

Current

Areas

Rt

Areas

Rt

- ___ Tune
- ___ Response Factor Summary
- ___ 11-Table Updated (Finn)
- ___ Rt & Ratios Updated (HP)

CM06259706
CM06259707

Inj. Time	File Name	CLI/SMO #	ETR #	% Moist	Dil. Wt/Vol	SSTD Rec	ISTD	Conc	Final Report	Analyst	Comments
0806	OIY004.PV	BF004								MTP	
0819	OIY005.PV	BF005									
0829	OIY006.PV	BF006									
0841	OIY050.DHV	VSTD050 CRV# OIYD				✓	✓	✓	✓		CM05079701 CM06259708
0924	OIY800.DV	Blank CLI#VBK7				✓	✓	✓	✓		
1125	0334456V	AL121	65533		100%	✓	✓	✓	✓		✓
1147	0334457V	AL129EV				✓	✓	✓	✓		✓
1213	0334458V	AL118				✓	✓	✓	✓		✓
1234	0334459V	AL117				✓	✓	✓	✓		✓
1305	0334454V	AL122				✓	✓	✓	✓		✓
1331	0334448V	AL119				✓	✓	✓	✓		✓
1357	0334450V	AL120				✓	✓	✓	✓		✓
1423	0334454MSV	AL122MS				✓	✓	✓	✓		✓ CM06279701
1449	0334454MD	AL122MSD				✓	✓	✓	✓		✓ ↓
1541	0334452DV	AL125			890 ul / 5ml	✓	✓	✓	✓		✓
1515	0334461	MSB			100%	✓	✓	✓	✓		✓
1607	0334446DV	AL123			300 ul / 5ml	✓	✓	✓	✓		✓
1634	0334444DV	AL124			178 ul / 5ml	✓	✓	✓	✓		✓ TCE=100

done 7/1/97

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial data and for providing a clear audit trail.

2. The second part of the document outlines the various methods used to collect and analyze data. These methods include direct observation, interviews, and the use of specialized software tools.

3. The third part of the document describes the results of the data collection and analysis. It shows that there are significant differences in the way that different departments handle their transactions, and that these differences can lead to errors and inefficiencies.

4. The fourth part of the document provides recommendations for how to improve the transaction process. These recommendations include standardizing procedures, providing training, and using technology to automate as much of the process as possible.

5. The fifth part of the document concludes by summarizing the key findings and the importance of implementing the recommended changes. It emphasizes that these changes are necessary to ensure the accuracy and reliability of the financial data.

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SAMPLE HANDLING



EDWARD MITCHELL
SHIPPING FOREMAN
SENECA ARMY DEPOT/BLDG 323
ROMULUS NY 14541
(607)869-1677

SHIP DATE: 25JUN97
ACC# 156457876

ACTUAL WGT: 62 LBS MAN-WT
DIM HEIGHT CHECKED

TO:
ITS
ENVIRONMENTAL LABORATORIES
55 SOUTH PARK DR.
COLCHESTER VT 05446

4163 5200 0186

FedEx.

Form 0201

RE. . 730769-01003

PRIORITY OVERNIGHT THU

CAD# 0039823 25JUN97

TRK# 4163 5200 0186

Deliver by:
26JUN97

BTV

05446-VT-US

ZP BTV



FORM # 14-003 FORM # 0027-0197

000344

INTERTEK TESTING SERVICES ENVIRONMENTAL LABORATORIES LOG-IN SHEET

Lab Name: Intertek Testing Services Environmental Laboratories - Burlington, VT

Page 1 of 1

Received By (Print Name): Shannon Mincey

Log-in Date: 6/26/97

Received By (Signature): Shannon Mincey

Case Number: 93204	CORRESPONDING			REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
	CLIENT	SAMPLE	ASSIGNED	
Sample Delivery Group No: 65533	SAMPLE #	TAG #	LAB #	
ETR Number: 65533				
REMARKS	AL124	N/A	334444	Were air bubbles present?
1. Custody Seal <u>Present</u> Absent	AL123FF	"	334445	For any VCA vials
<u>Intact</u> Broken	AL123	"	334446	Samples arrived
2. Custody Seal Nos.: N/A	AL123F	"	334447	via coolant ice
3. Chain-of-Custody Records <u>Present</u> Absent *	AL119	"	334448	intact. Custody
4. Sample Information Sheets <u>Present</u> Absent *	AL119F	"	334449	Seals intact.
5. Airbill <u>6/26/97 SEM</u> Airbill Snicker <u>Present</u> Absent *	AL120	"	334450	Sample ID AL127
6. Airbill No.: 4163 5200 0186	AL120F	"	334451	on COC. Sample
7. Sample Tags <u>Present</u> Absent *	AL125	"	334452	ID on VAC
Sample Tag Numbers <u>Listed</u> Not Listed <u>on Chain-of-Custody</u>	AL125F	"	334453	AL129EV.
8. Sample Condition: <u>Intact</u> Broken * <u>Seaking</u>	AL122	"	334454	
9. Does information on the custody records, sample information sheets, sample tags and labels agree? <u>Yes</u> No *	AL122F	"	334455	
10. Date Received at Lab: 6/26/97	AL121	"	334456	
11. Time Received: 0930	AL129EV	"	334457	
12. Cooler Temperature: 3°C	AL118	"	334458	
Sample Transfer	AL117	"	334459	
Fraction: All	HB	"	334460	
Area #: LVI 4 Refrig	MSB	"	334461	
By: SEM				
On: 6/26/97				

* Contact Project Director
Reviewed by: _____

Logbook No.: _____

Date: _____

Logbook Page No.: _____