(M) 0201gw01899 02-01

Alexander Co. 11-18-98

Fac/Perm/Co ID #	Date	Doc ID#
DC	06/13/09	DIN

		ppb	
MW-1	g BHC (Lindane)	0.055	
	Benzene	3	
	Chloroethane	5.9	
	1,1-DCA	15.1	
	C-1,2-DCE	4.9	
MW-1A	Xylenes	7.4	App II
MW-3	Benzene	5.7	
	Chloroethane	9.7	
	1,4-DCB	4.6	
	C-1,2-DCE	15.8	
	Ethylbenzene	2	
	Xylenes	12.8	
MW-4R	alpha BHC	0.39	
	Benzene	2.3	
	Chloroethane	7.6	
	1,1-DCA	10.1	
MW-5	Benzene	2.5	
	1,1-DCA	11.2	
MW-6	C-1,2-DCE	6.5	

02-01
11-18-98

OPERATION/CONSTRUCTION MANAGERS

Municipal Services

PO Box 97, Garner, North Carolina 27529 (919) 772-5393

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

PO Box 349, Boone, North Carolina 28607 (828) 262-1767

January 18, 1999

Mr. Larry Rose
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment
and Natural Resources
401 Oberlin Road
Raleigh, NC 27605

Re: Alexander County Sanitary Landfill
Groundwater Monitoring Report - November, 1998
Project No. G99006.0

Dear Mr. Rose,

The statistical analyses for the November,1998 groundwater sampling event has been completed by Municipal Engineering Services Co., P.A. (MESCO). The analyses was performed as outlined in the *Statistical Analysis Methodology for the Alexander County Landfill* developed by IDT (Intelligent Decision Technologies, Ltd.), April, 1998. This approach applies interwell prediction limits to determine detections that indicate a statistically significant increase over background concentrations.

Enclosed you will find

- a data-distribution report generated for a virtual point composed of both background wells (MW-1 and MW-1A).
- a Result Report with North Carolina Groundwater Standard exceedences
- Time-Series Plots for all November, 1998 event detections
- Prediction Limit Reports for all November, 1998 event detections

In addition, a Mann-Kendall Trend Test has been generated for all November, 1998 event detections in order to identify statistically upward or downward trends in historical detections.

Parametric Prediction Limits were used for all normal and transformed-normal background (virtual point)data. For samples with fewer than 15% non-detects, EPA simple substitution (1/2 the detection limit) was applied. For samples with 15-50% non-detects, Cohen's adjustment method was applied. Non-parametric Prediction Limits were calculated for all non-normal background data and any samples with greater than 50% non-detects.

The following tables summarizes those constituents which represent a statistically significant increase over background data:

Constituent	Monitoring Point
Arsenic	*MW-5*
Barium	*MW-5*
Beryllium	MW-5
Cadmium	MW-4R, MW-5
Chromium	*MW-5, MW-6*
Cobalt	MW-4R, MW-5
Copper	*MW-5*
Nickel	*MW-3, MW-5*
Lead	*MW-3*
Thallium	MW-5
Vanadium	MW-5
Zinc	MW-5
1,4-Dichlorobenzene	MW-3
Xylenes-Total	MW-3
Benzene	*MW-3*
Chloroethane	MW-3, MW-4R
BHC-Alpha	*MW-4R, MW-7*
cis-1,2-Dichloroethene	MW-6, MW-7

(Those monitoring points presented in italics are outside NC Groundwater Standard in addition to being statistically significant over background.)

Also included is a potentiometric map, laboratory report, Chain of Custody sheet, and field sheet. Should you have any questions pertaining to this letter or its contents, please call me at 772-5393.

Best Regards,
MUNICPAL ENGINEERING SERVICES CO., P.A.

James A. Skinner, Jr

Jim Skinner

Enclosures

cc: Mr. Charles Mashburn
Alexander County Manager

JUN 1999
Received
Solid Waste
Section

Results Summary with
comparison to
North Carolina
Groundwater Standard

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring
Site: Closed Sanitary Ladfill
Page: 1
Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code

Result Report (w/ Threshold Exceedences)

Company: Alexander County
Site: Closed Sanitary Ladfill
Program: Alexander County Groundwater Monitoring
Report printed: 1/14/99 11:20:34AM
Reported by: user
Report Options: Threshold exceedances by sampling point

Data Group: None
Date Range: 11-16-1998 to 11-20-1998
Permit:
Confidence Level: 0.95
Log Transform: No

Monitor 5

Downgradient

MW-3

Appendix II Metals							
Tin	mg/L	11/18/98	13	ND	0.200	-	-
Appendix II Volatile Organic Compounds							
1,1-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-
1,2,4,5-Tetrachlorobenze	µg/L	11/18/98	13	ND	12.000	-	-
1,2,4-Trichlorobenzene	µg/L	11/18/98	13	ND	12.000	-	-
1,3-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-
1,3-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-
2,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-
Acetonitrile	µg/L	11/18/98	13	ND	5.000	-	-
Acrolein	µg/L	11/18/98	13	ND	10.000	-	-
Allyl Chloride	µg/L	11/18/98	13	ND	10.000	-	-
Chloroprene	µg/L	11/18/98	13	ND	5.000	-	-
Dichlorodifluoromethane	µg/L	11/18/98	13	ND	2.000	1400.000	-
Isobutanol	µg/L	11/18/98	13	ND	10.000	-	-
Methacrylonitrile	µg/L	11/18/98	13	ND	5.000	-	-
Methyl methacrylate	µg/L	11/18/98	13	ND	5.000	-	-
Propionitrile	µg/L	11/18/98	13	ND	5.000	-	-
Herbicides							
2,4,5-T	µg/L	11/18/98	13	ND	2.000	-	-
2,4-D	µg/L	11/18/98	13	ND	2.000	70.000	-
Dinoseb	µg/L	11/18/98	13	ND	1.000	-	-
Silvex	µg/L	11/18/98	13	ND	2.000	50.000	-
Metals							
Antimony	mg/L	11/18/98	13	ND	0.005	-	-
Arsenic	mg/L	11/18/98	13	ND	0.005	0.050	-
Barium	mg/L	11/18/98	13	0.270	0.000	2.000	-
Beryllium	mg/L	11/18/98	13	0.003	0.000	-	-
Cadmium	mg/L	11/18/98	13	ND	0.001	0.005	-
Chromium	mg/L	11/18/98	13	0.150	0.000	0.050	0.100
Cobalt	mg/L	11/18/98	13	0.023	0.000	-	-
Copper	mg/L	11/18/98	13	0.070	0.000	1.000	-
Lead	mg/L	11/18/98	13	0.140	0.000	0.015	0.125
Nickel	mg/L	11/18/98	13	0.700	0.000	0.100	0.600
Selenium	mg/L	11/18/98	13	ND	0.005	0.050	-
Silver	mg/L	11/18/98	13	ND	0.002	0.018	-
Thallium	mg/L	11/18/98	13	ND	0.002	-	-
Vanadium	mg/L	11/18/98	13	0.063	0.000	-	-
Zinc	mg/L	11/18/98	13	0.078	0.000	2.100	-
Pesticides							
4,4'-DDD	µg/L	11/18/98	13	ND	0.130	-	-
4,4'-DDE	µg/L	11/18/98	13	ND	0.130	-	-
4,4'-DDT	µg/L	11/18/98	13	ND	0.130	-	-
Aldrin	µg/L	11/18/98	13	ND	0.066	-	-
BHC-Alpha	µg/L	11/18/98	13	ND	0.066	0.019	-

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

Page: 2 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
BHC-Beta	µg/L	11/18/98	13	ND	0.066	0.019	-	
BHC-Delta	µg/L	11/18/98	13	ND	0.066	0.019	-	
BHC-Gamma	µg/L	11/18/98	13	ND	0.066	0.019	-	
Chlordane	µg/L	11/18/98	13	ND	0.260	0.027	-	
Dieldrin	µg/L	11/18/98	13	ND	0.026	0.002	-	
Endosulfan I	µg/L	11/18/98	13	ND	0.130	-	-	
Endosulfan II	µg/L	11/18/98	13	ND	0.130	42.000	-	
Endosulfan Sulfate	µg/L	11/18/98	13	ND	0.130	-	-	
Endrin	µg/L	11/18/98	13	ND	0.079	2.100	-	
Endrin aldehyde	µg/L	11/18/98	13	ND	0.130	2.100	-	
Heptachlor	µg/L	11/18/98	13	ND	0.066	0.008	-	
Heptachlor epoxide	µg/L	11/18/98	13	ND	0.130	0.004	-	
Methoxychlor	µg/L	11/18/98	13	ND	0.660	35.000	-	
Toxaphene	µg/L	11/18/98	13	ND	2.600	0.031	-	
Polychlorinated Biphenyls								
Aroclor 1221	µg/L	11/18/98	13	ND	1.300	-	-	
Aroclor 1232	µg/L	11/18/98	13	ND	1.300	-	-	
Aroclor 1242	µg/L	11/18/98	13	ND	1.300	-	-	
Aroclor 1248	µg/L	11/18/98	13	ND	1.300	-	-	
Aroclor 1254	µg/L	11/18/98	13	ND	1.300	-	-	
Aroclor 1260	µg/L	11/18/98	13	ND	1.300	-	-	
Semi-volatile Organic Compounds								
0,0,0-Triethylphosphoroth	µg/L	11/18/98	13	ND	12.000	-	-	
1,3,5-Naphthoquinone	µg/L	11/18/98	13	ND	12.000	-	-	
1-Naphthylamine	µg/L	11/18/98	13	ND	12.000	-	-	
2,3,4,6-Tetrachlorophenol	µg/L	11/18/98	13	ND	12.000	210.000	-	
2,4,5-Trichlorophenol	µg/L	11/18/98	13	ND	29.000	-	-	
2,4,6-Trichlorophenol	µg/L	11/18/98	13	ND	12.000	-	-	
2,4-Dichlorophenol	µg/L	11/18/98	13	ND	12.000	-	-	
2,4-Dimethylphenol	µg/L	11/18/98	13	ND	12.000	-	-	
2,4-Dinitrophenol	µg/L	11/18/98	13	ND	29.000	-	-	
2,4-Dinitrotoluene	µg/L	11/18/98	13	ND	12.000	-	-	
2,6-Dichlorophenol	µg/L	11/18/98	13	ND	12.000	-	-	
2,6-Dinitrotoluene	µg/L	11/18/98	13	ND	12.000	-	-	
2-Acetylaminofluorene	µg/L	11/18/98	13	ND	12.000	-	-	
2-Chloronaphthalene	µg/L	11/18/98	13	ND	12.000	-	-	
2-Chlorophenol	µg/L	11/18/98	13	ND	12.000	0.100	-	
2-Methylnaphthalene	µg/L	11/18/98	13	ND	12.000	28.000	-	
2-Methylphenol	µg/L	11/18/98	13	ND	12.000	-	-	
2-Naphthylamine	µg/L	11/18/98	13	ND	12.000	-	-	
2-Nitroaniline	µg/L	11/18/98	13	ND	29.000	-	-	
2-Nitrophenol	µg/L	11/18/98	13	ND	12.000	-	-	
3,3'-Dichlorobenzidine	µg/L	11/18/98	13	ND	23.000	-	-	
3,3'-Dimethylbenzidine	µg/L	11/18/98	13	ND	23.000	-	-	
3-Methylcholanthrene	µg/L	11/18/98	13	ND	12.000	-	-	
3-Methylphenol	µg/L	11/18/98	13	ND	12.000	35.000	-	
3-Nitroaniline	µg/L	11/18/98	13	ND	29.000	-	-	
4,6-Dinitro-2-methylphen	µg/L	11/18/98	13	ND	29.000	-	-	
4-Aminobiphenyl	µg/L	11/18/98	13	ND	12.000	-	-	
4-Bromophenyl phenyl et	µg/L	11/18/98	13	ND	12.000	-	-	
4-Chloro-3-methylphenol	µg/L	11/18/98	13	ND	12.000	-	-	
4-Chloroaniline	µg/L	11/18/98	13	ND	12.000	-	-	
4-Chlorophenyl phenyl et	µg/L	11/18/98	13	ND	12.000	-	-	
4-Methylphenol	µg/L	11/18/98	13	ND	12.000	3.500	-	
4-Nitroaniline	µg/L	11/18/98	13	ND	29.000	-	-	
4-Nitrophenol	µg/L	11/18/98	13	ND	29.000	-	-	
5-Nitro-o-toluidine	µg/L	11/18/98	13	ND	12.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

Page: 3 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
7,12-Dimethylbenz(a)anth	µg/L	11/18/98	13	ND	12.000	-	-	
Acenaphthene	µg/L	11/18/98	13	ND	12.000	-	-	
Acenaphthylene	µg/L	11/18/98	13	ND	12.000	-	-	
Acetophenone	µg/L	11/18/98	13	ND	12.000	-	-	
Anthracene	µg/L	11/18/98	13	ND	12.000	-	-	
Benzo(a)anthracene	µg/L	11/18/98	13	ND	12.000	-	-	
Benzo(b)fluoranthene	µg/L	11/18/98	13	ND	12.000	-	-	
Benzo(ghi)perylene	µg/L	11/18/98	13	ND	12.000	-	-	
Benzo(k)fluoranthene	µg/L	11/18/98	13	ND	12.000	-	-	
bis(2-chloroethoxy) meth	µg/L	11/18/98	13	ND	12.000	-	-	
bis(2-Chloroethyl) ether	µg/L	11/18/98	13	ND	12.000	-	-	
bis(2-Ethylhexyl) phthalat	µg/L	11/18/98	13	ND	12.000	-	-	
Butyl benzyl phthalate	µg/L	11/18/98	13	ND	12.000	-	-	
Chlorobenzilate	µg/L	11/18/98	13	ND	12.000	-	-	
Chrysene	µg/L	11/18/98	13	ND	12.000	-	-	
Di-n-butyl phthalate	µg/L	11/18/98	13	ND	12.000	700.000	-	
Di-n-octyl phthalate	µg/L	11/18/98	13	ND	12.000	-	-	
Diallate	µg/L	11/18/98	13	ND	12.000	-	-	
Dibenzo(a,h)anthracene	µg/L	11/18/98	13	ND	12.000	-	-	
Diethyl phthalate	µg/L	11/18/98	13	ND	12.000	5000.000	-	
Dimethoate	µg/L	11/18/98	13	ND	12.000	-	-	
Dimethyl phthalate	µg/L	11/18/98	13	ND	12.000	-	-	
Ethyl methanesulfonate	µg/L	11/18/98	13	ND	12.000	-	-	
Famphur	µg/L	11/18/98	13	ND	12.000	-	-	
Fluoranthene	µg/L	11/18/98	13	ND	12.000	-	-	
Fluorene	µg/L	11/18/98	13	ND	12.000	-	-	
Hexachlorobenzene	µg/L	11/18/98	13	ND	12.000	0.020	-	
Hexachlorobutadiene	µg/L	11/18/98	13	ND	12.000	-	-	
Hexachloroethane	µg/L	11/18/98	13	ND	12.000	-	-	
Hexachloropentadiene	µg/L	11/18/98	13	ND	12.000	-	-	
Hexachloropropene	µg/L	11/18/98	13	ND	12.000	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	11/18/98	13	ND	12.000	-	-	
Isodrin	µg/L	11/18/98	13	ND	12.000	-	-	
Isophorone	µg/L	11/18/98	13	ND	12.000	36.800	-	
Isosafrole	µg/L	11/18/98	13	ND	12.000	-	-	
m-Dinitrobenzene	µg/L	11/18/98	13	ND	12.000	-	-	
Methapyrilene	µg/L	11/18/98	13	ND	12.000	-	-	
Methyl methanesulfonate	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitroso-Di-n-propylam	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitrosodiethylamine	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitrosodimethylamine	µg/L	11/18/98	13	ND	12.000	0.001	-	
N-nitrosodiphenylamine	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitrosomethyl-ethylam	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitrosopiperidine	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitrosopyrrolidine	µg/L	11/18/98	13	ND	12.000	-	-	
Naphthalene	µg/L	11/18/98	13	ND	12.000	-	-	
Nitrobenzene	µg/L	11/18/98	13	ND	12.000	-	-	
o-Toluidine	µg/L	11/18/98	13	ND	12.000	-	-	
P-Dimethylaminoazobenz	µg/L	11/18/98	13	ND	12.000	-	-	
p-Phenylenediamine	µg/L	11/18/98	13	ND	12.000	-	-	
Pentachloronitrobenzene	µg/L	11/18/98	13	ND	12.000	-	-	
Phenacetin	µg/L	11/18/98	13	ND	12.000	-	-	
Phenanthrene	µg/L	11/18/98	13	ND	12.000	-	-	
Phenol	µg/L	11/18/98	13	ND	12.000	-	-	
Pronamide	µg/L	11/18/98	13	ND	12.000	-	-	
Pyrene	µg/L	11/18/98	13	ND	12.000	-	-	
Safrole	µg/L	11/18/98	13	ND	12.000	-	-	
sym-Trinitrobenzene	µg/L	11/18/98	13	ND	12.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

Page: 4 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,1-Trichloroethane	µg/L	11/18/98	13	ND	2.000	200.000	-	
1,1,2,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,2-Trichloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1-Dichloroethane	µg/L	11/18/98	13	ND	2.000	700.000	-	
1,1-Dichloroethene	µg/L	11/18/98	13	ND	2.000	7.000	-	
1,2,3-Trichloropropane	µg/L	11/18/98	13	ND	2.000	0.006	-	
1,2-Dibromo-3-chloropro	µg/L	11/18/98	13	ND	10.000	0.025	-	
1,2-Dibromoethane	µg/L	11/18/98	13	ND	2.000	0.000	-	
1,2-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,2-Dichloroethane	µg/L	11/18/98	13	ND	2.000	0.380	-	
1,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	0.560	-	
1,4-Dichlorobenzene	µg/L	11/18/98	13	4.600	0.000	75.000	-	
2-Butanone	µg/L	11/18/98	13	ND	10.000	-	-	
2-Hexanone	µg/L	11/18/98	13	ND	10.000	-	-	
Acetone	µg/L	11/18/98	13	ND	10.000	700.000	-	
Acrylonitrile	µg/L	11/18/98	13	ND	10.000	-	-	
Benzene	µg/L	11/18/98	13	5.700	0.000	1.000	4.700	
Benzyl alcohol	µg/L	11/18/98	13	ND	12.000	-	-	
Bromochloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromodichloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromoform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Bromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon disulfide	µg/L	11/18/98	13	6.700	0.000	-	-	
Carbon tetrachloride	µg/L	11/18/98	13	ND	2.000	0.300	-	
Chlorobenzene	µg/L	11/18/98	13	ND	2.000	50.000	-	
Chloroethane	µg/L	11/18/98	13	9.700	0.000	-	-	
Chloroform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Chloromethane	µg/L	11/18/98	13	ND	2.000	2.600	-	
cis-1,2-Dichloroethene	µg/L	11/18/98	13	15.800	0.000	70.000	-	
cis-1,3-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
Dibromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Ethyl benzene	µg/L	11/18/98	13	2.000	0.000	29.000	-	
Ethyl methacrylate	µg/L	11/18/98	13	ND	10.000	-	-	
Methyl Iodide	µg/L	11/18/98	13	ND	2.000	-	-	
Methyl isobutyl ketone	µg/L	11/18/98	13	ND	10.000	-	-	
Methylene chloride	µg/L	11/18/98	13	ND	10.000	5.000	-	
Styrene	µg/L	11/18/98	13	ND	2.000	0.100	-	
Tetrachloroethylene	µg/L	11/18/98	13	ND	2.000	0.700	-	
Toluene	µg/L	11/18/98	13	ND	2.000	1000.000	-	
trans-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
trans-1,3-Dichloropropen	µg/L	11/18/98	13	ND	2.000	-	-	
trans-1,4-Dichloro-2-bute	µg/L	11/18/98	13	ND	2.000	-	-	
Trichloroethylene	µg/L	11/18/98	13	ND	2.000	2.800	-	
Trichlorofluoromethane	µg/L	11/18/98	13	ND	2.000	2100.000	-	
Vinyl acetate	µg/L	11/18/98	13	ND	10.000	-	-	
Vinyl chloride	µg/L	11/18/98	13	ND	2.000	0.015	-	
Xylenes - Total	µg/L	11/18/98	13	12.800	0.000	530.000	-	
MW-4R								
Appendix II Metals								
Tin	mg/L	11/18/98	13	ND	0.200	-	-	
Appendix II Volatile Organic Compounds								
1,1-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
1,2,4,5-Tetrachlorobenze	µg/L	11/18/98	13	ND	11.000	-	-	
1,2,4-Trichlorobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
1,3-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

Page: 5 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
1,3-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
2,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
Acetonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Acrolein	µg/L	11/18/98	13	ND	10.000	-	-	
Allyl Chloride	µg/L	11/18/98	13	ND	10.000	-	-	
Chloroprene	µg/L	11/18/98	13	ND	5.000	-	-	
Dichlorodifluoromethane	µg/L	11/18/98	13	ND	2.000	1400.000	-	
Isobutanol	µg/L	11/18/98	13	ND	10.000	-	-	
Methacrylonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Methyl methacrylate	µg/L	11/18/98	13	ND	5.000	-	-	
Propionitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Dioxins and Furans								
Dibenzofuran	µg/L	11/18/98	13	ND	10.000	-	-	
Herbicides								
2,4,5-T	µg/L	11/18/98	13	ND	2.000	-	-	
2,4-D	µg/L	11/18/98	13	ND	2.000	70.000	-	
Dinoseb	µg/L	11/18/98	13	ND	0.001	-	-	
Silvex	µg/L	11/18/98	13	ND	2.000	50.000	-	
Metals								
Antimony	mg/L	11/18/98	13	ND	0.005	-	-	
Arsenic	mg/L	11/18/98	13	ND	0.005	0.050	-	
Barium	mg/L	11/18/98	13	0.130	0.000	2.000	-	
Beryllium	mg/L	11/18/98	13	ND	0.001	-	-	
Cadmium	mg/L	11/18/98	13	0.003	0.000	0.005	-	
Chromium	mg/L	11/18/98	13	0.012	0.000	0.050	-	
Cobalt	mg/L	11/18/98	13	0.360	0.000	-	-	
Copper	mg/L	11/18/98	13	0.014	0.000	1.000	-	
Lead	mg/L	11/18/98	13	0.007	0.000	0.015	-	
Nickel	mg/L	11/18/98	13	ND	0.050	0.100	-	
Selenium	mg/L	11/18/98	13	ND	0.005	0.050	-	
Silver	mg/L	11/18/98	13	ND	0.002	0.018	-	
Thallium	mg/L	11/18/98	13	ND	0.002	-	-	
Vanadium	mg/L	11/18/98	13	0.014	0.000	-	-	
Zinc	mg/L	11/18/98	13	0.046	0.000	2.100	-	
Pesticides								
4,4'-DDD	µg/L	11/18/98	13	ND	0.100	-	-	
4,4'-DDE	µg/L	11/18/98	13	ND	0.100	-	-	
4,4'-DDT	µg/L	11/18/98	13	ND	0.100	-	-	
Aldrin	µg/L	11/18/98	13	ND	0.050	-	-	
BHC-Alpha	µg/L	11/18/98	13	0.390	0.000	0.019	0.371	
BHC-Beta	µg/L	11/18/98	13	ND	0.050	0.019	-	
BHC-Delta	µg/L	11/18/98	13	ND	0.050	0.019	-	
BHC-Gamma	µg/L	11/18/98	13	0.110	0.000	0.019	0.091	
Chlordane	µg/L	11/18/98	13	ND	0.200	0.027	-	
Dieldrin	µg/L	11/18/98	13	ND	0.020	0.002	-	
Endosulfan I	µg/L	11/18/98	13	ND	0.100	-	-	
Endosulfan II	µg/L	11/18/98	13	ND	0.100	42.000	-	
Endosulfan Sulfate	µg/L	11/18/98	13	ND	0.100	-	-	
Endrin	µg/L	11/18/98	13	ND	0.060	2.100	-	
Endrin aldehyde	µg/L	11/18/98	13	ND	0.100	2.100	-	
Heptachlor	µg/L	11/18/98	13	ND	0.050	0.008	-	
Heptachlor epoxide	µg/L	11/18/98	13	ND	0.100	0.004	-	
Methoxychlor	µg/L	11/18/98	13	ND	0.500	35.000	-	
Toxaphene	µg/L	11/18/98	13	ND	2.000	0.031	-	
Polychlorinated Biphenyls								
Aroclor 1221	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1232	µg/L	11/18/98	13	ND	1.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring

Site: Closed Sanitary Ladfill

Page: 6

Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Aroclor 1242	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1248	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1254	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1260	µg/L	11/18/98	13	ND	1.000	-	-	
Semi-volatile Organic Compounds								
0,0,0-Triethylphosphoroth	µg/L	11/18/98	13	ND	11.000	-	-	
1,3,5-Naphthoquinone	µg/L	11/18/98	13	ND	11.000	-	-	
1-Naphthylamine	µg/L	11/18/98	13	ND	11.000	-	-	
2,3,4,6-Tetrachlorophenol	µg/L	11/18/98	13	ND	11.000	210.000	-	
2,4,5-Trichlorophenol	µg/L	11/18/98	13	ND	25.000	-	-	
2,4,6-Trichlorophenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,4-Dichlorophenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,4-Dimethylphenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,4-Dinitrophenol	µg/L	11/18/98	13	ND	25.000	-	-	
2,4-Dinitrotoluene	µg/L	11/18/98	13	ND	10.000	-	-	
2,6-Dichlorophenol	µg/L	11/18/98	13	ND	11.000	-	-	
2,6-Dinitrotoluene	µg/L	11/18/98	13	ND	10.000	-	-	
2-Acetylaminofluorene	µg/L	11/18/98	13	ND	11.000	-	-	
2-Chloronaphthalene	µg/L	11/18/98	13	ND	10.000	-	-	
2-Chlorophenol	µg/L	11/18/98	13	ND	10.000	0.100	-	
2-Methylnaphthalene	µg/L	11/18/98	13	ND	10.000	28.000	-	
2-Methylphenol	µg/L	11/18/98	13	ND	10.000	-	-	
2-Naphthylamine	µg/L	11/18/98	13	ND	11.000	-	-	
2-Nitroaniline	µg/L	11/18/98	13	ND	25.000	-	-	
2-Nitrophenol	µg/L	11/18/98	13	ND	10.000	-	-	
3,3'-Dichlorobenzidine	µg/L	11/18/98	13	ND	20.000	-	-	
3,3'-Dimethylbenzidine	µg/L	11/18/98	13	ND	22.000	-	-	
3-Methylcholanthrene	µg/L	11/18/98	13	ND	11.000	-	-	
3-Methylphenol	µg/L	11/18/98	13	ND	10.000	35.000	-	
3-Nitroaniline	µg/L	11/18/98	13	ND	25.000	-	-	
4,6-Dinitro-2-methylphen	µg/L	11/18/98	13	ND	25.000	-	-	
4-Aminobiphenyl	µg/L	11/18/98	13	ND	11.000	-	-	
4-Bromophenyl phenyl et	µg/L	11/18/98	13	ND	10.000	-	-	
4-Chloro-3-methylphenol	µg/L	11/18/98	13	ND	10.000	-	-	
4-Chloroaniline	µg/L	11/18/98	13	ND	10.000	-	-	
4-Chlorophenyl phenyl et	µg/L	11/18/98	13	ND	10.000	-	-	
4-Methylphenol	µg/L	11/18/98	13	ND	10.000	3.500	-	
4-Nitroaniline	µg/L	11/18/98	13	ND	25.000	-	-	
4-Nitrophenol	µg/L	11/18/98	13	ND	25.000	-	-	
5-Nitro-o-toluidine	µg/L	11/18/98	13	ND	11.000	-	-	
7,12-Dimethylbenz(a)anth	µg/L	11/18/98	13	ND	11.000	-	-	
Acenaphthene	µg/L	11/18/98	13	ND	10.000	-	-	
Acenaphthylene	µg/L	11/18/98	13	ND	10.000	-	-	
Acetophenone	µg/L	11/18/98	13	ND	11.000	-	-	
Anthracene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(a)anthracene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(b)fluoranthene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(ghi)perylene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(k)fluoranthene	µg/L	11/18/98	13	ND	10.000	-	-	
bis(2-chloroethoxy) meth	µg/L	11/18/98	13	ND	10.000	-	-	
bis(2-Chloroethyl) ether	µg/L	11/18/98	13	ND	10.000	-	-	
bis(2-Ethylhexyl) phthalat	µg/L	11/18/98	13	ND	10.000	-	-	
Butyl benzyl phthalate	µg/L	11/18/98	13	ND	10.000	-	-	
Chlorobenzilate	µg/L	11/18/98	13	ND	11.000	-	-	
Chrysene	µg/L	11/18/98	13	ND	10.000	-	-	
Di-n-butyl phthalate	µg/L	11/18/98	13	ND	10.000	700.000	-	
Di-n-octyl phthalate	µg/L	11/18/98	13	ND	10.000	-	-	
Diallate	µg/L	11/18/98	13	ND	11.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring

Site: Closed Sanitary Ladfill

Page: 7

Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Dibenzo(a,h)anthracene	µg/L	11/18/98	13	ND	10.000	-	-	
Diethyl phthalate	µg/L	11/18/98	13	ND	10.000	5000.000	-	
Dimethoate	µg/L	11/18/98	13	ND	11.000	-	-	
Dimethyl phthalate	µg/L	11/18/98	13	ND	10.000	-	-	
Ethyl methanesulfonate	µg/L	11/18/98	13	ND	11.000	-	-	
Famphur	µg/L	11/18/98	13	ND	11.000	-	-	
Fluoranthene	µg/L	11/18/98	13	ND	10.000	-	-	
Fluorene	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachlorobenzene	µg/L	11/18/98	13	ND	10.000	0.020	-	
Hexachlorobutadiene	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachloroethane	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachloropentadiene	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachloropropene	µg/L	11/18/98	13	ND	11.000	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	11/18/98	13	ND	10.000	-	-	
Isodrin	µg/L	11/18/98	13	ND	11.000	-	-	
Isophorone	µg/L	11/18/98	13	ND	10.000	36.800	-	
Isosafrole	µg/L	11/18/98	13	ND	11.000	-	-	
m-Dinitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
Methapyrilene	µg/L	11/18/98	13	ND	11.000	-	-	
Methyl methanesulfonate	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitroso-Di-n-propylam	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosodiethylamine	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosodimethylamine	µg/L	11/18/98	13	ND	10.000	0.001	-	
N-nitrosodiphenylamine	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosomethyl-ethylam	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosopiperidine	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosopyrrolidine	µg/L	11/18/98	13	ND	11.000	-	-	
Naphthalene	µg/L	11/18/98	13	ND	10.000	-	-	
Nitrobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
o-Toluidine	µg/L	11/18/98	13	ND	11.000	-	-	
P-Dimethylaminoazobenz	µg/L	11/18/98	13	ND	11.000	-	-	
p-Phenylenediamine	µg/L	11/18/98	13	ND	11.000	-	-	
Pentachloronitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
Phenacetin	µg/L	11/18/98	13	ND	11.000	-	-	
Phenanthrene	µg/L	11/18/98	13	ND	10.000	-	-	
Phenol	µg/L	11/18/98	13	ND	10.000	-	-	
Pronamide	µg/L	11/18/98	13	ND	11.000	-	-	
Pyrene	µg/L	11/18/98	13	ND	10.000	-	-	
Safrole	µg/L	11/18/98	13	ND	11.000	-	-	
sym-Trinitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,1-Trichloroethane	µg/L	11/18/98	13	ND	2.000	200.000	-	
1,1,2,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,2-Trichloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1-Dichloroethane	µg/L	11/18/98	13	10.100	0.000	700.000	-	
1,1-Dichloroethene	µg/L	11/18/98	13	ND	2.000	7.000	-	
1,2,3-Trichloropropane	µg/L	11/18/98	13	ND	2.000	0.006	-	
1,2-Dibromo-3-chloropro	µg/L	11/18/98	13	ND	10.000	0.025	-	
1,2-Dibromoethane	µg/L	11/18/98	13	ND	2.000	0.000	-	
1,2-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,2-Dichloroethane	µg/L	11/18/98	13	ND	2.000	0.380	-	
1,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	0.560	-	
1,4-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	75.000	-	
2-Butanone	µg/L	11/18/98	13	ND	10.000	-	-	
2-Hexanone	µg/L	11/18/98	13	ND	10.000	-	-	
Acetone	µg/L	11/18/98	13	ND	10.000	700.000	-	
Acrylonitrile	µg/L	11/18/98	13	ND	10.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

Page: 8 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Benzene	µg/L	11/18/98	13	2.300	0.000	1.000	1.300	
Benzyl alcohol	µg/L	11/18/98	13	ND	11.000	-	-	
Bromochloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromodichloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromoform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Bromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon disulfide	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon tetrachloride	µg/L	11/18/98	13	ND	2.000	0.300	-	
Chlorobenzene	µg/L	11/18/98	13	ND	2.000	50.000	-	
Chloroethane	µg/L	11/18/98	13	7.600	0.000	-	-	
Chloroform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Chloromethane	µg/L	11/18/98	13	ND	2.000	2.600	-	
cis-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
cis-1,3-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
Dibromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Ethyl benzene	µg/L	11/18/98	13	ND	2.000	29.000	-	
Ethyl methacrylate	µg/L	11/18/98	13	ND	10.000	-	-	
Methyl Iodide	µg/L	11/18/98	13	ND	2.000	-	-	
Methyl isobutyl ketone	µg/L	11/18/98	13	ND	10.000	-	-	
Methylene chloride	µg/L	11/18/98	13	ND	10.000	5.000	-	
Styrene	µg/L	11/18/98	13	ND	2.000	0.100	-	
Tetrachloroethylene	µg/L	11/18/98	13	ND	2.000	0.700	-	
Toluene	µg/L	11/18/98	13	ND	2.000	1000.000	-	
trans-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
trans-1,3-Dichloropropen	µg/L	11/18/98	13	ND	2.000	-	-	
trans-1,4-Dichloro-2-bute	µg/L	11/18/98	13	ND	2.000	-	-	
Trichloroethylene	µg/L	11/18/98	13	ND	2.000	2.800	-	
Trichlorofluoromethane	µg/L	11/18/98	13	ND	2.000	2100.000	-	
Vinyl acetate	µg/L	11/18/98	13	ND	2.000	-	-	
Vinyl chloride	µg/L	11/18/98	13	ND	2.000	0.015	-	
Xylenes - Total	µg/L	11/18/98	13	ND	2.000	530.000	-	
MW-5								
Appendix II Metals								
Tin	mg/L	11/18/98	13	ND	1.000	-	-	
Appendix II Volatile Organic Compounds								
1,1-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
1,2,4,5-Tetrachlorobenze	µg/L	11/18/98	13	ND	10.000	-	-	
1,2,4-Trichlorobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
1,3-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,3-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
2,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
Acetonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Acrolein	µg/L	11/18/98	13	ND	10.000	-	-	
Allyl Chloride	µg/L	11/18/98	13	ND	10.000	-	-	
Chloroprene	µg/L	11/18/98	13	ND	5.000	-	-	
Dichlorodifluoromethane	µg/L	11/18/98	13	ND	2.000	1400.000	-	
Isobutanol	µg/L	11/18/98	13	ND	10.000	-	-	
Methacrylonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Methyl methacrylate	µg/L	11/18/98	13	ND	5.000	-	-	
Propionitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Herbicides								
2,4,5-T	µg/L	11/18/98	13	ND	2.000	-	-	
2,4-D	µg/L	11/18/98	13	ND	2.000	70.000	-	
Dinoseb	µg/L	11/18/98	13	ND	1.000	-	-	
Silvex	µg/L	11/18/98	13	ND	2.000	50.000	-	
Metals								
Antimony	mg/L	11/18/98	13	ND	0.005	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

Page: 9 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Arsenic	mg/L	11/18/98	13	0.026	0.000	0.050	-	
Barium	mg/L	11/18/98	13	2.800	0.000	2.000	0.800	
Beryllium	mg/L	11/18/98	13	0.078	0.000	-	-	
Cadmium	mg/L	11/18/98	13	0.005	0.000	0.005	-	
Chromium	mg/L	11/18/98	13	1.500	0.000	0.050	1.450	
Cobalt	mg/L	11/18/98	13	0.850	0.000	-	-	
Copper	mg/L	11/18/98	13	1.200	0.000	1.000	0.200	
Lead	mg/L	11/18/98	13	0.280	0.000	0.015	0.265	
Nickel	mg/L	11/18/98	13	1.500	0.000	0.100	1.400	
Selenium	mg/L	11/18/98	13	ND	0.005	0.050	-	
Silver	mg/L	11/18/98	13	ND	0.002	0.018	-	
Thallium	mg/L	11/18/98	13	0.006	0.000	-	-	
Vanadium	mg/L	11/18/98	13	1.700	0.000	-	-	
Zinc	mg/L	11/18/98	13	2.100	0.000	2.100	-	
Pesticides								
4,4'-DDD	µg/L	11/18/98	13	ND	0.130	-	-	
4,4'-DDE	µg/L	11/18/98	13	ND	0.130	-	-	
4,4'-DDT	µg/L	11/18/98	13	ND	0.130	-	-	
Aldrin	µg/L	11/18/98	13	ND	0.066	-	-	
BHC-Alpha	µg/L	11/18/98	13	ND	0.066	0.019	-	
BHC-Beta	µg/L	11/18/98	13	ND	0.066	0.019	-	
BHC-Delta	µg/L	11/18/98	13	ND	0.066	0.019	-	
BHC-Gamma	µg/L	11/18/98	13	ND	0.066	0.019	-	
Chlordane	µg/L	11/18/98	13	ND	0.260	0.027	-	
Dieldrin	µg/L	11/18/98	13	ND	0.026	0.002	-	
Endosulfan I	µg/L	11/18/98	13	ND	0.130	-	-	
Endosulfan II	µg/L	11/18/98	13	ND	0.130	42.000	-	
Endosulfan Sulfate	µg/L	11/18/98	13	ND	0.130	-	-	
Endrin	µg/L	11/18/98	13	ND	0.079	2.100	-	
Endrin aldehyde	µg/L	11/18/98	13	ND	0.130	2.100	-	
Heptachlor	µg/L	11/18/98	13	ND	0.066	0.008	-	
Heptachlor epoxide	µg/L	11/18/98	13	ND	0.130	0.004	-	
Methoxychlor	µg/L	11/18/98	13	ND	0.660	35.000	-	
Toxaphene	µg/L	11/18/98	13	ND	2.600	0.031	-	
Polychlorinated Biphenyls								
Aroclor 1221	µg/L	11/18/98	13	ND	1.300	-	-	
Aroclor 1232	µg/L	11/18/98	13	ND	1.300	-	-	
Aroclor 1242	µg/L	11/18/98	13	ND	1.300	-	-	
Aroclor 1248	µg/L	11/18/98	13	ND	1.300	-	-	
Aroclor 1254	µg/L	11/18/98	13	ND	1.300	-	-	
Aroclor 1260	µg/L	11/18/98	13	ND	1.300	-	-	
Semi-volatile Organic Compounds								
0,0,0-Triethylphosphoroth	µg/L	11/18/98	13	ND	10.000	-	-	
1,3,5-Naphthoquinone	µg/L	11/18/98	13	ND	10.000	-	-	
1-Naphthylamine	µg/L	11/18/98	13	ND	10.000	-	-	
2,3,4,6-Tetrachlorophenol	µg/L	11/18/98	13	ND	10.000	210.000	-	
2,4,5-Trichlorophenol	µg/L	11/18/98	13	ND	25.000	-	-	
2,4,6-Trichlorophenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,4-Dichlorophenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,4-Dimethylphenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,4-Dinitrophenol	µg/L	11/18/98	13	ND	25.000	-	-	
2,4-Dinitrotoluene	µg/L	11/18/98	13	ND	10.000	-	-	
2,6-Dichlorophenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,6-Dinitrotoluene	µg/L	11/18/98	13	ND	10.000	-	-	
2-Acetylaminofluorene	µg/L	11/18/98	13	ND	10.000	-	-	
2-Chloronaphthalene	µg/L	11/18/98	13	ND	10.000	-	-	
2-Chlorophenol	µg/L	11/18/98	13	ND	10.000	0.100	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

Page: 10 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
2-Methylnaphthalene	µg/L	11/18/98	13	ND	10.000	28.000	-	
2-Methylphenol	µg/L	11/18/98	13	ND	10.000	-	-	
2-Naphthylamine	µg/L	11/18/98	13	ND	10.000	-	-	
2-Nitroaniline	µg/L	11/18/98	13	ND	25.000	-	-	
2-Nitrophenol	µg/L	11/18/98	13	ND	10.000	-	-	
3,3'-Dichlorobenzidine	µg/L	11/18/98	13	ND	20.000	-	-	
3,3'-Dimethylbenzidine	µg/L	11/18/98	13	ND	21.000	-	-	
3-Methylcholanthrene	µg/L	11/18/98	13	ND	10.000	-	-	
3-Methylphenol	µg/L	11/18/98	13	ND	10.000	35.000	-	
3-Nitroaniline	µg/L	11/18/98	13	ND	25.000	-	-	
4,6-Dinitro-2-methylphen	µg/L	11/18/98	13	ND	25.000	-	-	
4-Aminobiphenyl	µg/L	11/18/98	13	ND	10.000	-	-	
4-Bromophenyl phenyl et	µg/L	11/18/98	13	ND	10.000	-	-	
4-Chloro-3-methylphenol	µg/L	11/18/98	13	ND	10.000	-	-	
4-Chloroaniline	µg/L	11/18/98	13	ND	10.000	-	-	
4-Chlorophenyl phenyl et	µg/L	11/18/98	13	ND	10.000	-	-	
4-Methylphenol	µg/L	11/18/98	13	ND	10.000	3.500	-	
4-Nitroaniline	µg/L	11/18/98	13	ND	25.000	-	-	
4-Nitrophenol	µg/L	11/18/98	13	ND	25.000	-	-	
5-Nitro-o-toluidine	µg/L	11/18/98	13	ND	10.000	-	-	
7,12-Dimethylbenz(a)anth	µg/L	11/18/98	13	ND	10.000	-	-	
Acenaphthene	µg/L	11/18/98	13	ND	10.000	-	-	
Acenaphthylene	µg/L	11/18/98	13	ND	10.000	-	-	
Acetophenone	µg/L	11/18/98	13	ND	10.000	-	-	
Anthracene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(a)anthracene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(b)fluoranthene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(ghi)perylene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(k)fluoranthene	µg/L	11/18/98	13	ND	10.000	-	-	
bis(2-chloroethoxy) meth	µg/L	11/18/98	13	ND	10.000	-	-	
bis(2-Chloroethyl) ether	µg/L	11/18/98	13	ND	10.000	-	-	
bis(2-Ethylhexyl) phthalat	µg/L	11/18/98	13	ND	10.000	-	-	
Butyl benzyl phthalate	µg/L	11/18/98	13	ND	10.000	-	-	
Chlorobenzilate	µg/L	11/18/98	13	ND	10.000	-	-	
Chrysene	µg/L	11/18/98	13	ND	10.000	-	-	
Di-n-butyl phthalate	µg/L	11/18/98	13	ND	10.000	700.000	-	
Di-n-octyl phthalate	µg/L	11/18/98	13	ND	10.000	-	-	
Diallate	µg/L	11/18/98	13	ND	10.000	-	-	
Dibenzo(a,h)anthracene	µg/L	11/18/98	13	ND	10.000	-	-	
Diethyl phthalate	µg/L	11/18/98	13	ND	10.000	5000.000	-	
Dimethoate	µg/L	11/18/98	13	ND	10.000	-	-	
Dimethyl phthalate	µg/L	11/18/98	13	ND	10.000	-	-	
Ethyl methanesulfonate	µg/L	11/18/98	13	ND	10.000	-	-	
Famphur	µg/L	11/18/98	13	ND	10.000	-	-	
Fluoranthene	µg/L	11/18/98	13	ND	10.000	-	-	
Fluorene	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachlorobenzene	µg/L	11/18/98	13	ND	10.000	0.020	-	
Hexachlorobutadiene	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachloroethane	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachloropentadiene	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachloropropene	µg/L	11/18/98	13	ND	10.000	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	11/18/98	13	ND	10.000	-	-	
Isodrin	µg/L	11/18/98	13	ND	10.000	-	-	
Isophorone	µg/L	11/18/98	13	ND	10.000	36.800	-	
Isosafrole	µg/L	11/18/98	13	ND	10.000	-	-	
m-Dinitrobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
Methapyrilene	µg/L	11/18/98	13	ND	10.000	-	-	
Methyl methanesulfonate	µg/L	11/18/98	13	ND	10.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

Page: 11 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
N-Nitroso-Di-n-propylam	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosodiethylamine	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosodimethylamine	µg/L	11/18/98	13	ND	10.000	0.001	-	
N-nitrosodiphenylamine	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosomethyl-ethylam	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosopiperidine	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosopyrrolidine	µg/L	11/18/98	13	ND	10.000	-	-	
Naphthalene	µg/L	11/18/98	13	ND	10.000	-	-	
Nitrobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
o-Toluidine	µg/L	11/18/98	13	ND	10.000	-	-	
P-Dimethylaminoazobenz	µg/L	11/18/98	13	ND	10.000	-	-	
p-Phenylenediamine	µg/L	11/18/98	13	ND	10.000	-	-	
Pentachloronitrobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
Phenacetin	µg/L	11/18/98	13	ND	10.000	-	-	
Phenanthrene	µg/L	11/18/98	13	ND	10.000	-	-	
Phenol	µg/L	11/18/98	13	ND	10.000	-	-	
Pronamide	µg/L	11/18/98	13	ND	10.000	-	-	
Pyrene	µg/L	11/18/98	13	ND	10.000	-	-	
Safrole	µg/L	11/18/98	13	ND	10.000	-	-	
sym-Trinitrobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,1-Trichloroethane	µg/L	11/18/98	13	ND	2.000	200.000	-	
1,1,2,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,2-Trichloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1-Dichloroethane	µg/L	11/18/98	13	11.200	0.000	700.000	-	
1,1-Dichloroethene	µg/L	11/18/98	13	ND	2.000	7.000	-	
1,2,3-Trichloropropane	µg/L	11/18/98	13	ND	2.000	0.006	-	
1,2-Dibromo-3-chloropro	µg/L	11/18/98	13	ND	10.000	0.025	-	
1,2-Dibromoethane	µg/L	11/18/98	13	ND	2.000	0.000	-	
1,2-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,2-Dichloroethane	µg/L	11/18/98	13	ND	2.000	0.380	-	
1,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	0.560	-	
1,4-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	75.000	-	
2-Butanone	µg/L	11/18/98	13	ND	10.000	-	-	
2-Hexanone	µg/L	11/18/98	13	ND	10.000	-	-	
Acetone	µg/L	11/18/98	13	ND	10.000	700.000	-	
Acrylonitrile	µg/L	11/18/98	13	ND	10.000	-	-	
Benzene	µg/L	11/18/98	13	2.500	0.000	1.000	1.500	
Benzyl alcohol	µg/L	11/18/98	13	ND	10.000	-	-	
Bromochloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromodichloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromoform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Bromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon disulfide	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon tetrachloride	µg/L	11/18/98	13	ND	2.000	0.300	-	
Chlorobenzene	µg/L	11/18/98	13	ND	2.000	50.000	-	
Chloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
Chloroform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Chloromethane	µg/L	11/18/98	13	ND	2.000	2.600	-	
cis-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
cis-1,3-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
Dibromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Ethyl benzene	µg/L	11/18/98	13	ND	2.000	29.000	-	
Ethyl methacrylate	µg/L	11/18/98	13	ND	10.000	-	-	
Methyl Iodide	µg/L	11/18/98	13	ND	2.000	-	-	
Methyl isobutyl ketone	µg/L	11/18/98	13	ND	10.000	-	-	
Methylene chloride	µg/L	11/18/98	13	ND	10.000	5.000	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

Page: 12 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Styrene	µg/L	11/18/98	13	ND	2.000	0.100	-	
Tetrachloroethylene	µg/L	11/18/98	13	ND	2.000	0.700	-	
Toluene	µg/L	11/18/98	13	ND	2.000	1000.000	-	
trans-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
trans-1,3-Dichloropropen	µg/L	11/18/98	13	ND	2.000	-	-	
trans-1,4-Dichloro-2-bute	µg/L	11/18/98	13	ND	2.000	-	-	
Trichloroethylene	µg/L	11/18/98	13	ND	2.000	2.800	-	
Trichlorofluoromethane	µg/L	11/18/98	13	ND	2.000	2100.000	-	
Vinyl acetate	µg/L	11/18/98	13	ND	10.000	-	-	
Vinyl chloride	µg/L	11/18/98	13	ND	2.000	0.015	-	
Xylenes - Total	µg/L	11/18/98	13	ND	2.000	530.000	-	
MW-6								
Appendix II Metals								
Tin	mg/L	11/18/98	13	ND	0.200	-	-	
Appendix II Volatile Organic Compounds								
1,1-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
1,2,4,5-Tetrachlorobenze	µg/L	11/18/98	13	ND	11.000	-	-	
1,2,4-Trichlorobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
1,3-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,3-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
2,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
Acetonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Acrolein	µg/L	11/18/98	13	ND	10.000	-	-	
Allyl Chloride	µg/L	11/18/98	13	ND	10.000	-	-	
Chloroprene	µg/L	11/18/98	13	ND	5.000	-	-	
Dichlorodifluoromethane	µg/L	11/18/98	13	ND	2.000	1400.000	-	
Isobutanol	µg/L	11/18/98	13	ND	10.000	-	-	
Methacrylonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Methyl methacrylate	µg/L	11/18/98	13	ND	5.000	-	-	
Propionitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Herbicides								
2,4,5-T	µg/L	11/18/98	13	ND	2.000	-	-	
2,4-D	µg/L	11/18/98	13	ND	2.000	70.000	-	
Dinoseb	µg/L	11/18/98	13	ND	1.000	-	-	
Silvex	µg/L	11/18/98	13	ND	2.000	50.000	-	
Metals								
Antimony	mg/L	11/18/98	13	ND	0.005	-	-	
Arsenic	mg/L	11/18/98	13	ND	0.020	0.050	-	
Barium	mg/L	11/18/98	13	0.870	0.000	2.000	-	
Beryllium	mg/L	11/18/98	13	0.003	0.000	-	-	
Cadmium	mg/L	11/18/98	13	ND	0.001	0.005	-	
Chromium	mg/L	11/18/98	13	0.260	0.000	0.050	0.210	
Cobalt	mg/L	11/18/98	13	0.110	0.000	-	-	
Copper	mg/L	11/18/98	13	0.091	0.000	1.000	-	
Lead	mg/L	11/18/98	13	0.025	0.000	0.015	0.010	
Nickel	mg/L	11/18/98	13	0.160	0.000	0.100	0.060	
Selenium	mg/L	11/18/98	13	ND	0.005	0.050	-	
Silver	mg/L	11/18/98	13	ND	0.002	0.018	-	
Thallium	mg/L	11/18/98	13	ND	0.002	-	-	
Vanadium	mg/L	11/18/98	13	0.130	0.000	-	-	
Zinc	mg/L	11/18/98	13	0.140	0.000	2.100	-	
Pesticides								
4,4'-DDD	µg/L	11/18/98	13	ND	0.100	-	-	
4,4'-DDE	µg/L	11/18/98	13	ND	0.100	-	-	
4,4'-DDT	µg/L	11/18/98	13	ND	0.100	-	-	
Aldrin	µg/L	11/18/98	13	ND	0.050	-	-	
BHC-Alpha	µg/L	11/18/98	13	ND	0.050	0.019	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring
Site: Closed Sanitary Ladfill
Page: 13
Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
BHC-Beta	µg/L	11/18/98	13	ND	0.050	0.019	-	
BHC-Delta	µg/L	11/18/98	13	ND	0.050	0.019	-	
BHC-Gamma	µg/L	11/18/98	13	ND	0.050	0.019	-	
Chlordane	µg/L	11/18/98	13	ND	0.200	0.027	-	
Dieldrin	µg/L	11/18/98	13	ND	0.020	0.002	-	
Endosulfan I	µg/L	11/18/98	13	ND	0.100	-	-	
Endosulfan II	µg/L	11/18/98	13	ND	0.100	42.000	-	
Endosulfan Sulfate	µg/L	11/18/98	13	ND	0.100	-	-	
Endrin	µg/L	11/18/98	13	ND	0.060	2.100	-	
Endrin aldehyde	µg/L	11/18/98	13	ND	0.100	2.100	-	
Heptachlor	µg/L	11/18/98	13	ND	0.050	0.008	-	
Heptachlor epoxide	µg/L	11/18/98	13	ND	0.100	0.004	-	
Methoxychlor	µg/L	11/18/98	13	ND	0.500	35.000	-	
Toxaphene	µg/L	11/18/98	13	ND	2.000	0.031	-	
Polychlorinated Biphenyls								
Aroclor 1221	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1232	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1242	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1248	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1254	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1260	µg/L	11/18/98	13	ND	1.000	-	-	
Semi-volatile Organic Compounds								
0,0,0-Triethylphosphoroth	µg/L	11/18/98	13	ND	11.000	-	-	
1,3,5-Naphthoquinone	µg/L	11/18/98	13	ND	11.000	-	-	
1-Naphthylamine	µg/L	11/18/98	13	ND	11.000	-	-	
2,3,4,6-Tetrachlorophenol	µg/L	11/18/98	13	ND	11.000	210.000	-	
2,4,5-Trichlorophenol	µg/L	11/18/98	13	ND	28.000	-	-	
2,4,6-Trichlorophenol	µg/L	11/18/98	13	ND	11.000	-	-	
2,4-Dichlorophenol	µg/L	11/18/98	13	ND	11.000	-	-	
2,4-Dimethylphenol	µg/L	11/18/98	13	ND	11.000	-	-	
2,4-Dinitrophenol	µg/L	11/18/98	13	ND	28.000	-	-	
2,4-Dinitrotoluene	µg/L	11/18/98	13	ND	11.000	-	-	
2,6-Dichlorophenol	µg/L	11/18/98	13	ND	11.000	-	-	
2,6-Dinitrotoluene	µg/L	11/18/98	13	ND	11.000	-	-	
2-Acetylaminofluorene	µg/L	11/18/98	13	ND	11.000	-	-	
2-Chloronaphthalene	µg/L	11/18/98	13	ND	11.000	-	-	
2-Chlorophenol	µg/L	11/18/98	13	ND	11.000	0.100	-	
2-Methylnaphthalene	µg/L	11/18/98	13	ND	11.000	28.000	-	
2-Methylphenol	µg/L	11/18/98	13	ND	11.000	-	-	
2-Naphthylamine	µg/L	11/18/98	13	ND	11.000	-	-	
2-Nitroaniline	µg/L	11/18/98	13	ND	28.000	-	-	
2-Nitrophenol	µg/L	11/18/98	13	ND	11.000	-	-	
3,3'-Dichlorobenzidine	µg/L	11/18/98	13	ND	22.000	-	-	
3,3'-Dimethylbenzidine	µg/L	11/18/98	13	ND	22.000	-	-	
3-Methylcholanthrene	µg/L	11/18/98	13	ND	11.000	-	-	
3-Methylphenol	µg/L	11/18/98	13	ND	11.000	35.000	-	
3-Nitroaniline	µg/L	11/18/98	13	ND	28.000	-	-	
4,6-Dinitro-2-methylphen	µg/L	11/18/98	13	ND	28.000	-	-	
4-Aminobiphenyl	µg/L	11/18/98	13	ND	11.000	-	-	
4-Bromophenyl phenyl et	µg/L	11/18/98	13	ND	11.000	-	-	
4-Chloro-3-methylphenol	µg/L	11/18/98	13	ND	11.000	-	-	
4-Chloroaniline	µg/L	11/18/98	13	ND	11.000	-	-	
4-Chlorophenyl phenyl et	µg/L	11/18/98	13	ND	11.000	-	-	
4-Methylphenol	µg/L	11/18/98	13	ND	11.000	3.500	-	
4-Nitroaniline	µg/L	11/18/98	13	ND	28.000	-	-	
4-Nitrophenol	µg/L	11/18/98	13	ND	28.000	-	-	
5-Nitro-o-toluidine	µg/L	11/18/98	13	ND	11.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

 Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
7,12-Dimethylbenz(a)anth	µg/L	11/18/98	13	ND	11.000	-	-	
Acenaphthene	µg/L	11/18/98	13	ND	11.000	-	-	
Acenaphthylene	µg/L	11/18/98	13	ND	11.000	-	-	
Acetophenone	µg/L	11/18/98	13	ND	11.000	-	-	
Anthracene	µg/L	11/18/98	13	ND	11.000	-	-	
Benzo(a)anthracene	µg/L	11/18/98	13	ND	11.000	-	-	
Benzo(b)fluoranthene	µg/L	11/18/98	13	ND	11.000	-	-	
Benzo(ghi)perylene	µg/L	11/18/98	13	ND	11.000	-	-	
Benzo(k)fluoranthene	µg/L	11/18/98	13	ND	11.000	-	-	
bis(2-chloroethoxy) meth	µg/L	11/18/98	13	ND	11.000	-	-	
bis(2-Chloroethyl) ether	µg/L	11/18/98	13	ND	11.000	-	-	
bis(2-Ethylhexyl) phthalat	µg/L	11/18/98	13	ND	11.000	-	-	
Butyl benzyl phthalate	µg/L	11/18/98	13	ND	11.000	-	-	
Chlorobenzilate	µg/L	11/18/98	13	ND	11.000	-	-	
Chrysene	µg/L	11/18/98	13	ND	11.000	-	-	
Di-n-butyl phthalate	µg/L	11/18/98	13	ND	11.000	700.000	-	
Di-n-octyl phthalate	µg/L	11/18/98	13	ND	11.000	-	-	
Diallate	µg/L	11/18/98	13	ND	11.000	-	-	
Dibenzo(a,h)anthracene	µg/L	11/18/98	13	ND	11.000	-	-	
Diethyl phthalate	µg/L	11/18/98	13	ND	11.000	5000.000	-	
Dimethoate	µg/L	11/18/98	13	ND	11.000	-	-	
Dimethyl phthalate	µg/L	11/18/98	13	ND	11.000	-	-	
Ethyl methanesulfonate	µg/L	11/18/98	13	ND	11.000	-	-	
Famphur	µg/L	11/18/98	13	ND	11.000	-	-	
Fluoranthene	µg/L	11/18/98	13	ND	11.000	-	-	
Fluorene	µg/L	11/18/98	13	ND	11.000	-	-	
Hexachlorobenzene	µg/L	11/18/98	13	ND	11.000	0.020	-	
Hexachlorobutadiene	µg/L	11/18/98	13	ND	11.000	-	-	
Hexachloroethane	µg/L	11/18/98	13	ND	11.000	-	-	
Hexachloropentadiene	µg/L	11/18/98	13	ND	11.000	-	-	
Hexachloropropene	µg/L	11/18/98	13	ND	11.000	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	11/18/98	13	ND	11.000	-	-	
Isodrin	µg/L	11/18/98	13	ND	11.000	-	-	
Isophorone	µg/L	11/18/98	13	ND	11.000	36.800	-	
Isosafrole	µg/L	11/18/98	13	ND	11.000	-	-	
m-Dinitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
Methapyrilene	µg/L	11/18/98	13	ND	11.000	-	-	
Methyl methanesulfonate	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitroso-Di-n-propylam	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosodiethylamine	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosodimethylamine	µg/L	11/18/98	13	ND	11.000	0.001	-	
N-nitrosodiphenylamine	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosomethyl-ethylam	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosopiperidine	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosopyrrolidine	µg/L	11/18/98	13	ND	11.000	-	-	
Naphthalene	µg/L	11/18/98	13	ND	11.000	-	-	
Nitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
o-Toluidine	µg/L	11/18/98	13	ND	11.000	-	-	
P-Dimethylaminoazobenz	µg/L	11/18/98	13	ND	11.000	-	-	
p-Phenylenediamine	µg/L	11/18/98	13	ND	11.000	-	-	
Pentachloronitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
Phenacetin	µg/L	11/18/98	13	ND	11.000	-	-	
Phenanthrene	µg/L	11/18/98	13	ND	11.000	-	-	
Phenol	µg/L	11/18/98	13	ND	11.000	-	-	
Pronamide	µg/L	11/18/98	13	ND	11.000	-	-	
Pyrene	µg/L	11/18/98	13	ND	11.000	-	-	
Safrole	µg/L	11/18/98	13	ND	11.000	-	-	
sym-Trinitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

 Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,1-Trichloroethane	µg/L	11/18/98	13	ND	2.000	200.000	-	
1,1,2,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,2-Trichloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1-Dichloroethane	µg/L	11/18/98	13	ND	2.000	700.000	-	
1,1-Dichloroethene	µg/L	11/18/98	13	ND	2.000	7.000	-	
1,2,3-Trichloropropane	µg/L	11/18/98	13	ND	2.000	0.006	-	
1,2-Dibromo-3-chloropro	µg/L	11/18/98	13	ND	10.000	0.025	-	
1,2-Dibromoethane	µg/L	11/18/98	13	ND	2.000	0.000	-	
1,2-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,2-Dichloroethane	µg/L	11/18/98	13	ND	2.000	0.380	-	
1,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	0.560	-	
1,4-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	75.000	-	
2-Butanone	µg/L	11/18/98	13	ND	10.000	-	-	
2-Hexanone	µg/L	11/18/98	13	ND	10.000	-	-	
Acetone	µg/L	11/18/98	13	ND	10.000	700.000	-	
Acrylonitrile	µg/L	11/18/98	13	ND	10.000	-	-	
Benzene	µg/L	11/18/98	13	ND	2.000	1.000	-	
Benzyl alcohol	µg/L	11/18/98	13	ND	11.000	-	-	
Bromochloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromodichloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromoform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Bromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon disulfide	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon tetrachloride	µg/L	11/18/98	13	ND	2.000	0.300	-	
Chlorobenzene	µg/L	11/18/98	13	ND	2.000	50.000	-	
Chloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
Chloroform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Chloromethane	µg/L	11/18/98	13	ND	2.000	2.600	-	
cis-1,2-Dichloroethene	µg/L	11/18/98	13	6.500	0.000	70.000	-	
cis-1,3-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
Dibromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Ethyl benzene	µg/L	11/18/98	13	ND	2.000	29.000	-	
Ethyl methacrylate	µg/L	11/18/98	13	ND	10.000	-	-	
Methyl Iodide	µg/L	11/18/98	13	ND	2.000	-	-	
Methyl isobutyl ketone	µg/L	11/18/98	13	ND	10.000	-	-	
Methylene chloride	µg/L	11/18/98	13	ND	10.000	5.000	-	
Styrene	µg/L	11/18/98	13	ND	2.000	0.100	-	
Tetrachloroethylene	µg/L	11/18/98	13	ND	2.000	0.700	-	
Toluene	µg/L	11/18/98	13	ND	2.000	1000.000	-	
trans-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
trans-1,3-Dichloropropen	µg/L	11/18/98	13	ND	2.000	-	-	
trans-1,4-Dichloro-2-bute	µg/L	11/18/98	13	ND	2.000	-	-	
Trichloroethylene	µg/L	11/18/98	13	ND	2.000	2.800	-	
Trichlorofluoromethane	µg/L	11/18/98	13	ND	2.000	2100.000	-	
Vinyl acetate	µg/L	11/18/98	13	ND	10.000	-	-	
Vinyl chloride	µg/L	11/18/98	13	ND	2.000	0.015	-	
Xylenes - Total	µg/L	11/18/98	13	ND	2.000	530.000	-	
MW-7								
Appendix II Metals								
Tin	mg/L	11/18/98	13	ND	0.200	-	-	
Appendix II Volatile Organic Compounds								
1,1-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
1,2,4,5-Tetrachlorobenze	µg/L	11/18/98	13	ND	11.000	-	-	
1,2,4-Trichlorobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
1,3-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

 Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
1,3-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
2,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
Acetonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Acrolein	µg/L	11/18/98	13	ND	10.000	-	-	
Allyl Chloride	µg/L	11/18/98	13	ND	10.000	-	-	
Chloroprene	µg/L	11/18/98	13	ND	5.000	-	-	
Dichlorodifluoromethane	µg/L	11/18/98	13	ND	2.000	1400.000	-	
Isobutanol	µg/L	11/18/98	13	ND	10.000	-	-	
Methacrylonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Methyl methacrylate	µg/L	11/18/98	13	ND	5.000	-	-	
Propionitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Herbicides								
2,4,5-T	µg/L	11/18/98	13	ND	2.000	-	-	
2,4-D	µg/L	11/18/98	13	ND	2.000	70.000	-	
Dinoseb	µg/L	11/18/98	13	ND	1.000	-	-	
Silvex	µg/L	11/18/98	13	ND	2.000	50.000	-	
Metals								
Antimony	mg/L	11/18/98	13	ND	0.005	-	-	
Arsenic	mg/L	11/18/98	13	ND	0.020	0.050	-	
Barium	mg/L	11/18/98	13	0.034	0.000	2.000	-	
Beryllium	mg/L	11/18/98	13	0.001	0.000	-	-	
Cadmium	mg/L	11/18/98	13	ND	0.001	0.005	-	
Chromium	mg/L	11/18/98	13	0.019	0.000	0.050	-	
Cobalt	mg/L	11/18/98	13	0.008	0.000	-	-	
Copper	mg/L	11/18/98	13	0.018	0.000	1.000	-	
Lead	mg/L	11/18/98	13	ND	0.005	0.015	-	
Nickel	mg/L	11/18/98	13	ND	0.050	0.100	-	
Selenium	mg/L	11/18/98	13	ND	0.005	0.050	-	
Silver	mg/L	11/18/98	13	ND	0.020	0.018	-	
Thallium	mg/L	11/18/98	13	ND	0.002	-	-	
Vanadium	mg/L	11/18/98	13	0.020	0.000	-	-	
Zinc	mg/L	11/18/98	13	0.044	0.000	2.100	-	
Pesticides								
4,4'-DDD	µg/L	11/18/98	13	ND	0.100	-	-	
4,4'-DDE	µg/L	11/18/98	13	ND	0.100	-	-	
4,4'-DDT	µg/L	11/18/98	13	ND	0.100	-	-	
Aldrin	µg/L	11/18/98	13	ND	0.050	-	-	
BHC-Alpha	µg/L	11/18/98	13	0.630	0.000	0.019	0.611	
BHC-Beta	µg/L	11/18/98	13	ND	0.050	0.019	-	
BHC-Delta	µg/L	11/18/98	13	ND	0.050	0.019	-	
BHC-Gamma	µg/L	11/18/98	13	ND	0.050	0.019	-	
Chlordane	µg/L	11/18/98	13	ND	0.200	0.027	-	
Dieldrin	µg/L	11/18/98	13	ND	0.020	0.002	-	
Diphenylamine	µg/L	11/18/98	13	ND	11.000	-	-	
Endosulfan I	µg/L	11/18/98	13	ND	0.100	-	-	
Endosulfan II	µg/L	11/18/98	13	ND	0.100	42.000	-	
Endosulfan Sulfate	µg/L	11/18/98	13	ND	0.100	-	-	
Endrin	µg/L	11/18/98	13	ND	0.060	2.100	-	
Endrin aldehyde	µg/L	11/18/98	13	ND	0.100	2.100	-	
Heptachlor	µg/L	11/18/98	13	ND	0.050	0.008	-	
Heptachlor epoxide	µg/L	11/18/98	13	ND	0.100	0.004	-	
Methoxychlor	µg/L	11/18/98	13	ND	0.500	35.000	-	
Toxaphene	µg/L	11/18/98	13	ND	2.000	0.031	-	
Polychlorinated Biphenyls								
Aroclor 1221	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1232	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1242	µg/L	11/18/98	13	ND	1.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring
Site: Closed Sanitary Ladfill
Page: 17
Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Aroclor 1248	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1254	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1260	µg/L	11/18/98	13	ND	1.000	-	-	
Semi-volatile Organic Compounds								
0,0,0-Triethylphosphoroth	µg/L	11/18/98	13	ND	11.000	-	-	
1,3,5-Naphthoquinone	µg/L	11/18/98	13	ND	11.000	-	-	
1-Naphthylamine	µg/L	11/18/98	13	ND	11.000	-	-	
2,3,4,6-Tetrachlorophenol	µg/L	11/18/98	13	ND	11.000	210.000	-	
2,4,5-Trichlorophenol	µg/L	11/18/98	13	ND	28.000	-	-	
2,4,6-Trichlorophenol	µg/L	11/18/98	13	ND	11.000	-	-	
2,4-Dichlorophenol	µg/L	11/18/98	13	ND	11.000	-	-	
2,4-Dimethylphenol	µg/L	11/18/98	13	ND	11.000	-	-	
2,4-Dinitrophenol	µg/L	11/18/98	13	ND	28.000	-	-	
2,4-Dinitrotoluene	µg/L	11/18/98	13	ND	11.000	-	-	
2,6-Dichlorophenol	µg/L	11/18/98	13	ND	11.000	-	-	
2,6-Dinitrotoluene	µg/L	11/18/98	13	ND	11.000	-	-	
2-Acetylaminofluorene	µg/L	11/18/98	13	ND	11.000	-	-	
2-Chloronaphthalene	µg/L	11/18/98	13	ND	11.000	-	-	
2-Chlorophenol	µg/L	11/18/98	13	ND	11.000	0.100	-	
2-Methylnaphthalene	µg/L	11/18/98	13	ND	11.000	28.000	-	
2-Methylphenol	µg/L	11/18/98	13	ND	11.000	-	-	
2-Naphthylamine	µg/L	11/18/98	13	ND	11.000	-	-	
2-Nitroaniline	µg/L	11/18/98	13	ND	28.000	-	-	
2-Nitrophenol	µg/L	11/18/98	13	ND	11.000	-	-	
3,3'-Dichlorobenzidine	µg/L	11/18/98	13	ND	22.000	-	-	
3,3'-Dimethylbenzidine	µg/L	11/18/98	13	ND	22.000	-	-	
3-Methylcholanthrene	µg/L	11/18/98	13	ND	11.000	-	-	
3-Methylphenol	µg/L	11/18/98	13	ND	11.000	35.000	-	
3-Nitroaniline	µg/L	11/18/98	13	ND	28.000	-	-	
4,6-Dinitro-2-methylphen	µg/L	11/18/98	13	ND	28.000	-	-	
4-Aminobiphenyl	µg/L	11/18/98	13	ND	11.000	-	-	
4-Bromophenyl phenyl et	µg/L	11/18/98	13	ND	11.000	-	-	
4-Chloro-3-methylphenol	µg/L	11/18/98	13	ND	11.000	-	-	
4-Chloroaniline	µg/L	11/18/98	13	ND	11.000	-	-	
4-Chlorophenyl phenyl et	µg/L	11/18/98	13	ND	11.000	-	-	
4-Methylphenol	µg/L	11/18/98	13	ND	11.000	3.500	-	
4-Nitroaniline	µg/L	11/18/98	13	ND	28.000	-	-	
4-Nitrophenol	µg/L	11/18/98	13	ND	28.000	-	-	
5-Nitro-o-toluidine	µg/L	11/18/98	13	ND	11.000	-	-	
7,12-Dimethylbenz(a)anth	µg/L	11/18/98	13	ND	11.000	-	-	
Acenaphthene	µg/L	11/18/98	13	ND	11.000	-	-	
Acenaphthylene	µg/L	11/18/98	13	ND	11.000	-	-	
Acetophenone	µg/L	11/18/98	13	ND	11.000	-	-	
Anthracene	µg/L	11/18/98	13	ND	11.000	-	-	
Benzo(a)anthracene	µg/L	11/18/98	13	ND	11.000	-	-	
Benzo(b)fluoranthene	µg/L	11/18/98	13	ND	11.000	-	-	
Benzo(ghi)perylene	µg/L	11/18/98	13	ND	11.000	-	-	
Benzo(k)fluoranthene	µg/L	11/18/98	13	ND	11.000	-	-	
bis(2-chloroethoxy) meth	µg/L	11/18/98	13	ND	11.000	-	-	
bis(2-Chloroethyl) ether	µg/L	11/18/98	13	ND	11.000	-	-	
bis(2-Ethylhexyl) phthalat	µg/L	11/18/98	13	ND	11.000	-	-	
Butyl benzyl phthalate	µg/L	11/18/98	13	ND	11.000	-	-	
Chlorobenzilate	µg/L	11/18/98	13	ND	11.000	-	-	
Chrysene	µg/L	11/18/98	13	ND	11.000	-	-	
Di-n-butyl phthalate	µg/L	11/18/98	13	ND	11.000	700.000	-	
Di-n-octyl phthalate	µg/L	11/18/98	13	ND	11.000	-	-	
Diallate	µg/L	11/18/98	13	ND	11.000	-	-	
Dibenzo(a,h)anthracene	µg/L	11/18/98	13	ND	11.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

Page: 18 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Diethyl phthalate	µg/L	11/18/98	13	ND	11.000	5000.000	-	
Dimethoate	µg/L	11/18/98	13	ND	11.000	-	-	
Dimethyl phthalate	µg/L	11/18/98	13	ND	11.000	-	-	
Ethyl methanesulfonate	µg/L	11/18/98	13	ND	11.000	-	-	
Famphur	µg/L	11/18/98	13	ND	11.000	-	-	
Fluoranthene	µg/L	11/18/98	13	ND	11.000	-	-	
Fluorene	µg/L	11/18/98	13	ND	11.000	-	-	
Hexachlorobenzene	µg/L	11/18/98	13	ND	11.000	0.020	-	
Hexachlorobutadiene	µg/L	11/18/98	13	ND	11.000	-	-	
Hexachloroethane	µg/L	11/18/98	13	ND	11.000	-	-	
Hexachloropentadiene	µg/L	11/18/98	13	ND	11.000	-	-	
Hexachloropropene	µg/L	11/18/98	13	ND	11.000	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	11/18/98	13	ND	11.000	-	-	
Isodrin	µg/L	11/18/98	13	ND	11.000	-	-	
Isophorone	µg/L	11/18/98	13	ND	11.000	36.800	-	
Isosafrole	µg/L	11/18/98	13	ND	11.000	-	-	
m-Dinitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
Methapyrilene	µg/L	11/18/98	13	ND	11.000	-	-	
Methyl methanesulfonate	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitroso-Di-n-propylam	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosodiethylamine	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosodimethylamine	µg/L	11/18/98	13	ND	11.000	0.001	-	
N-nitrosodiphenylamine	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosomethyl-ethylam	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosopiperidine	µg/L	11/18/98	13	ND	11.000	-	-	
N-Nitrosopyrrolidine	µg/L	11/18/98	13	ND	11.000	-	-	
Naphthalene	µg/L	11/18/98	13	ND	11.000	-	-	
Nitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
o-Toluidine	µg/L	11/18/98	13	ND	11.000	-	-	
P-Dimethylaminoazobenz	µg/L	11/18/98	13	ND	11.000	-	-	
p-Phenylenediamine	µg/L	11/18/98	13	ND	11.000	-	-	
Pentachloronitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
Phenacetin	µg/L	11/18/98	13	ND	11.000	-	-	
Phenanthrene	µg/L	11/18/98	13	ND	11.000	-	-	
Phenol	µg/L	11/18/98	13	ND	11.000	-	-	
Pronamide	µg/L	11/18/98	13	ND	11.000	-	-	
Pyrene	µg/L	11/18/98	13	ND	11.000	-	-	
Safrole	µg/L	11/18/98	13	ND	11.000	-	-	
sym-Trinitrobenzene	µg/L	11/18/98	13	ND	11.000	-	-	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,1-Trichloroethane	µg/L	11/18/98	13	ND	2.000	200.000	-	
1,1,2,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,2-Trichloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1-Dichloroethane	µg/L	11/18/98	13	8.800	0.000	700.000	-	
1,1-Dichloroethene	µg/L	11/18/98	13	ND	2.000	7.000	-	
1,2,3-Trichloropropane	µg/L	11/18/98	13	ND	2.000	0.006	-	
1,2-Dibromo-3-chloropro	µg/L	11/18/98	13	ND	10.000	0.025	-	
1,2-Dibromoethane	µg/L	11/18/98	13	ND	2.000	0.000	-	
1,2-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,2-Dichloroethane	µg/L	11/18/98	13	ND	2.000	0.380	-	
1,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	0.560	-	
1,4-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	75.000	-	
2-Butanone	µg/L	11/18/98	13	ND	10.000	-	-	
2-Hexanone	µg/L	11/18/98	13	ND	10.000	-	-	
Acetone	µg/L	11/18/98	13	ND	10.000	700.000	-	
Acrylonitrile	µg/L	11/18/98	13	ND	10.000	-	-	
Benzene	µg/L	11/18/98	13	ND	2.000	1.000	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

 Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Benzyl alcohol	µg/L	11/18/98	13	ND	11.000	-	-	
Bromochloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromodichloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromoform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Bromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon disulfide	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon tetrachloride	µg/L	11/18/98	13	ND	2.000	0.300	-	
Chlorobenzene	µg/L	11/18/98	13	ND	2.000	50.000	-	
Chloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
Chloroform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Chloromethane	µg/L	11/18/98	13	ND	2.000	2.600	-	
cis-1,2-Dichloroethene	µg/L	11/18/98	13	2.700	0.000	70.000	-	
cis-1,3-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
Dibromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Ethyl benzene	µg/L	11/18/98	13	ND	2.000	29.000	-	
Ethyl methacrylate	µg/L	11/18/98	13	ND	10.000	-	-	
Methyl Iodide	µg/L	11/18/98	13	ND	2.000	-	-	
Methyl isobutyl ketone	µg/L	11/18/98	13	ND	10.000	-	-	
Methylene chloride	µg/L	11/18/98	13	ND	10.000	5.000	-	
Styrene	µg/L	11/18/98	13	ND	2.000	0.100	-	
Tetrachloroethylene	µg/L	11/18/98	13	ND	2.000	0.700	-	
Toluene	µg/L	11/18/98	13	ND	2.000	1000.000	-	
trans-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
trans-1,3-Dichloropropen	µg/L	11/18/98	13	ND	2.000	-	-	
trans-1,4-Dichloro-2-bute	µg/L	11/18/98	13	ND	2.000	-	-	
Trichloroethylene	µg/L	11/18/98	13	ND	2.000	2.800	-	
Trichlorofluoromethane	µg/L	11/18/98	13	ND	2.000	2100.000	-	
Vinyl acetate	µg/L	11/18/98	13	ND	10.000	-	-	
Vinyl chloride	µg/L	11/18/98	13	ND	2.000	0.015	-	
Xylenes - Total	µg/L	11/18/98	13	ND	2.000	530.000	-	
MW-8								
Appendix II Metals								
Tin	mg/L	11/18/98	13	ND	0.200	-	-	
Appendix II Volatile Organic Compounds								
1,1-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
1,2,4,5-Tetrachlorobenze	µg/L	11/18/98	13	ND	12.000	-	-	
1,2,4-Trichlorobenzene	µg/L	11/18/98	13	ND	12.000	-	-	
1,3-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,3-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
2,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
Acetonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Acrolein	µg/L	11/18/98	13	ND	10.000	-	-	
Allyl Chloride	µg/L	11/18/98	13	ND	10.000	-	-	
Chloroprene	µg/L	11/18/98	13	ND	5.000	-	-	
Dichlorodifluoromethane	µg/L	11/18/98	13	ND	2.000	1400.000	-	
Isobutanol	µg/L	11/18/98	13	ND	10.000	-	-	
Methacrylonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Methyl methacrylate	µg/L	11/18/98	13	ND	5.000	-	-	
Propionitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Herbicides								
2,4,5-T	µg/L	11/18/98	13	ND	2.000	-	-	
2,4-D	µg/L	11/18/98	13	ND	2.000	70.000	-	
Dinoseb	µg/L	11/18/98	13	ND	1.000	-	-	
Silvex	µg/L	11/18/98	13	ND	2.000	50.000	-	
Metals								
Antimony	mg/L	11/18/98	13	ND	0.005	-	-	
Arsenic	mg/L	11/18/98	13	ND	0.005	0.050	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

 Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Barium	mg/L	11/18/98	13	0.120	0.000	2.000	-	
Beryllium	mg/L	11/18/98	13	ND	0.001	-	-	
Cadmium	mg/L	11/18/98	13	ND	0.001	0.005	-	
Chromium	mg/L	11/18/98	13	0.007	0.000	0.050	-	
Cobalt	mg/L	11/18/98	13	0.008	0.000	-	-	
Copper	mg/L	11/18/98	13	ND	0.010	1.000	-	
Lead	mg/L	11/18/98	13	ND	0.005	0.015	-	
Nickel	mg/L	11/18/98	13	ND	0.050	0.100	-	
Selenium	mg/L	11/18/98	13	ND	0.005	0.050	-	
Silver	mg/L	11/18/98	13	ND	0.002	0.018	-	
Thallium	mg/L	11/18/98	13	ND	0.002	-	-	
Vanadium	mg/L	11/18/98	13	0.010	0.000	-	-	
Zinc	mg/L	11/18/98	13	0.019	0.000	2.100	-	
Pesticides								
4,4'-DDD	µg/L	11/18/98	13	ND	0.110	-	-	
4,4'-DDE	µg/L	11/18/98	13	ND	0.110	-	-	
4,4'-DDT	µg/L	11/18/98	13	ND	0.110	-	-	
Aldrin	µg/L	11/18/98	13	ND	0.056	-	-	
BHC-Alpha	µg/L	11/18/98	13	0.068	0.000	0.019	0.049	
BHC-Beta	µg/L	11/18/98	13	ND	0.056	0.019	-	
BHC-Delta	µg/L	11/18/98	13	ND	0.056	0.019	-	
BHC-Gamma	µg/L	11/18/98	13	0.063	0.000	0.019	0.044	
Chlordane	µg/L	11/18/98	13	ND	0.220	0.027	-	
Dieldrin	µg/L	11/18/98	13	ND	0.022	0.002	-	
Diphenylamine	µg/L	11/18/98	13	ND	12.000	-	-	
Endosulfan I	µg/L	11/18/98	13	ND	0.110	-	-	
Endosulfan II	µg/L	11/18/98	13	ND	0.110	42.000	-	
Endosulfan Sulfate	µg/L	11/18/98	13	ND	0.110	-	-	
Endrin	µg/L	11/18/98	13	ND	0.067	2.100	-	
Endrin aldehyde	µg/L	11/18/98	13	ND	0.110	2.100	-	
Heptachlor	µg/L	11/18/98	13	ND	0.056	0.008	-	
Heptachlor epoxide	µg/L	11/18/98	13	ND	0.110	0.004	-	
Methoxychlor	µg/L	11/18/98	13	ND	0.560	35.000	-	
Toxaphene	µg/L	11/18/98	13	ND	2.200	0.031	-	
Polychlorinated Biphenyls								
Aroclor 1221	µg/L	11/18/98	13	ND	1.100	-	-	
Aroclor 1232	µg/L	11/18/98	13	ND	1.100	-	-	
Aroclor 1242	µg/L	11/18/98	13	ND	1.100	-	-	
Aroclor 1248	µg/L	11/18/98	13	ND	1.100	-	-	
Aroclor 1254	µg/L	11/18/98	13	ND	1.100	-	-	
Aroclor 1260	µg/L	11/18/98	13	ND	1.100	-	-	
Semi-volatile Organic Compounds								
0,0,0-Triethylphosphoroth	µg/L	11/18/98	13	ND	12.000	-	-	
1,3,5-Naphthoquinone	µg/L	11/18/98	13	ND	12.000	-	-	
1-Naphthylamine	µg/L	11/18/98	13	ND	12.000	-	-	
2,3,4,6-Tetrachlorophenol	µg/L	11/18/98	13	ND	12.000	210.000	-	
2,4,5-Trichlorophenol	µg/L	11/18/98	13	ND	29.000	-	-	
2,4,6-Trichlorophenol	µg/L	11/18/98	13	ND	12.000	-	-	
2,4-Dichlorophenol	µg/L	11/18/98	13	ND	12.000	-	-	
2,4-Dimethylphenol	µg/L	11/18/98	13	ND	12.000	-	-	
2,4-Dinitrophenol	µg/L	11/18/98	13	ND	29.000	-	-	
2,4-Dinitrotoluene	µg/L	11/18/98	13	ND	12.000	-	-	
2,6-Dichlorophenol	µg/L	11/18/98	13	ND	12.000	-	-	
2,6-Dinitrotoluene	µg/L	11/18/98	13	ND	12.000	-	-	
2-Acetylaminofluorene	µg/L	11/18/98	13	ND	12.000	-	-	
2-Chloronaphthalene	µg/L	11/18/98	13	ND	12.000	-	-	
2-Chlorophenol	µg/L	11/18/98	13	ND	12.000	0.100	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

 Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
2-Methylnaphthalene	µg/L	11/18/98	13	ND	12.000	28.000	-	
2-Methylphenol	µg/L	11/18/98	13	ND	12.000	-	-	
2-Naphthylamine	µg/L	11/18/98	13	ND	12.000	-	-	
2-Nitroaniline	µg/L	11/18/98	13	ND	29.000	-	-	
2-Nitrophenol	µg/L	11/18/98	13	ND	12.000	-	-	
3,3'-Dichlorobenzidine	µg/L	11/18/98	13	ND	24.000	-	-	
3,3'-Dimethylbenzidine	µg/L	11/18/98	13	ND	24.000	-	-	
3-Methylcholanthrene	µg/L	11/18/98	13	ND	12.000	-	-	
3-Methylphenol	µg/L	11/18/98	13	ND	12.000	35.000	-	
3-Nitroaniline	µg/L	11/18/98	13	ND	29.000	-	-	
4,6-Dinitro-2-methylphen	µg/L	11/18/98	13	ND	29.000	-	-	
4-Aminobiphenyl	µg/L	11/18/98	13	ND	12.000	-	-	
4-Bromophenyl phenyl et	µg/L	11/18/98	13	ND	12.000	-	-	
4-Chloro-3-methylphenol	µg/L	11/18/98	13	ND	12.000	-	-	
4-Chloroaniline	µg/L	11/18/98	13	ND	12.000	-	-	
4-Chlorophenyl phenyl et	µg/L	11/18/98	13	ND	12.000	-	-	
4-Methylphenol	µg/L	11/18/98	13	ND	12.000	3.500	-	
4-Nitroaniline	µg/L	11/18/98	13	ND	29.000	-	-	
4-Nitrophenol	µg/L	11/18/98	13	ND	29.000	-	-	
5-Nitro-o-toluidine	µg/L	11/18/98	13	ND	12.000	-	-	
7,12-Dimethylbenz(a)anth	µg/L	11/18/98	13	ND	12.000	-	-	
Acenaphthene	µg/L	11/18/98	13	ND	12.000	-	-	
Acenaphthylene	µg/L	11/18/98	13	ND	12.000	-	-	
Acetophenone	µg/L	11/18/98	13	ND	12.000	-	-	
Anthracene	µg/L	11/18/98	13	ND	12.000	-	-	
Benzo(a)anthracene	µg/L	11/18/98	13	ND	12.000	-	-	
Benzo(b)fluoranthene	µg/L	11/18/98	13	ND	12.000	-	-	
Benzo(ghi)perylene	µg/L	11/18/98	13	ND	12.000	-	-	
Benzo(k)fluoranthene	µg/L	11/18/98	13	ND	12.000	-	-	
bis(2-chloroethoxy) meth	µg/L	11/18/98	13	ND	12.000	-	-	
bis(2-Chloroethyl) ether	µg/L	11/18/98	13	ND	12.000	-	-	
bis(2-Ethylhexyl) phthalat	µg/L	11/18/98	13	ND	12.000	-	-	
Butyl benzyl phthalate	µg/L	11/18/98	13	ND	12.000	-	-	
Chlorobenzilate	µg/L	11/18/98	13	ND	12.000	-	-	
Chrysene	µg/L	11/18/98	13	ND	12.000	-	-	
Di-n-butyl phthalate	µg/L	11/18/98	13	ND	12.000	700.000	-	
Di-n-octyl phthalate	µg/L	11/18/98	13	ND	12.000	-	-	
Diallate	µg/L	11/18/98	13	ND	12.000	-	-	
Dibenzo(a,h)anthracene	µg/L	11/18/98	13	ND	12.000	-	-	
Diethyl phthalate	µg/L	11/18/98	13	ND	12.000	5000.000	-	
Dimethoate	µg/L	11/18/98	13	ND	12.000	-	-	
Dimethyl phthalate	µg/L	11/18/98	13	ND	12.000	-	-	
Ethyl methanesulfonate	µg/L	11/18/98	13	ND	12.000	-	-	
Famphur	µg/L	11/18/98	13	ND	12.000	-	-	
Fluoranthene	µg/L	11/18/98	13	ND	12.000	-	-	
Fluorene	µg/L	11/18/98	13	ND	12.000	-	-	
Hexachlorobenzene	µg/L	11/18/98	13	ND	12.000	0.020	-	
Hexachlorobutadiene	µg/L	11/18/98	13	ND	12.000	-	-	
Hexachloroethane	µg/L	11/18/98	13	ND	12.000	-	-	
Hexachloropentadiene	µg/L	11/18/98	13	ND	12.000	-	-	
Hexachloropropene	µg/L	11/18/98	13	ND	12.000	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	11/18/98	13	ND	12.000	-	-	
Isodrin	µg/L	11/18/98	13	ND	12.000	-	-	
Isophorone	µg/L	11/18/98	13	ND	12.000	36.800	-	
Isosafrole	µg/L	11/18/98	13	ND	12.000	-	-	
m-Dinitrobenzene	µg/L	11/18/98	13	ND	12.000	-	-	
Methapyrilene	µg/L	11/18/98	13	ND	12.000	-	-	
Methyl methanesulfonate	µg/L	11/18/98	13	ND	12.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

 Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
N-Nitroso-Di-n-propylam	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitrosodiethylamine	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitrosodimethylamine	µg/L	11/18/98	13	ND	12.000	0.001	-	
N-nitrosodiphenylamine	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitrosomethyl-ethylam	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitrosopiperidine	µg/L	11/18/98	13	ND	12.000	-	-	
N-Nitrosopyrrolidine	µg/L	11/18/98	13	ND	12.000	-	-	
Naphthalene	µg/L	11/18/98	13	ND	12.000	-	-	
Nitrobenzene	µg/L	11/18/98	13	ND	12.000	-	-	
o-Toluidine	µg/L	11/18/98	13	ND	12.000	-	-	
P-Dimethylaminoazobenz	µg/L	11/18/98	13	ND	12.000	-	-	
p-Phenylenediamine	µg/L	11/18/98	13	ND	12.000	-	-	
Pentachloronitrobenzene	µg/L	11/18/98	13	ND	12.000	-	-	
Phenacetin	µg/L	11/18/98	13	ND	12.000	-	-	
Phenanthrene	µg/L	11/18/98	13	ND	12.000	-	-	
Phenol	µg/L	11/18/98	13	ND	12.000	-	-	
Pronamide	µg/L	11/18/98	13	ND	12.000	-	-	
Pyrene	µg/L	11/18/98	13	ND	12.000	-	-	
Safrole	µg/L	11/18/98	13	ND	12.000	-	-	
sym-Trinitrobenzene	µg/L	11/18/98	13	ND	12.000	-	-	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,1-Trichloroethane	µg/L	11/18/98	13	ND	2.000	200.000	-	
1,1,2,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,2-Trichloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1-Dichloroethane	µg/L	11/18/98	13	7.700	0.000	700.000	-	
1,1-Dichloroethene	µg/L	11/18/98	13	ND	2.000	7.000	-	
1,2,3-Trichloropropane	µg/L	11/18/98	13	ND	2.000	0.006	-	
1,2-Dibromo-3-chloropro	µg/L	11/18/98	13	ND	10.000	0.025	-	
1,2-Dibromoethane	µg/L	11/18/98	13	ND	2.000	0.000	-	
1,2-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,2-Dichloroethane	µg/L	11/18/98	13	ND	2.000	0.380	-	
1,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	0.560	-	
1,4-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	75.000	-	
2-Butanone	µg/L	11/18/98	13	ND	10.000	-	-	
2-Hexanone	µg/L	11/18/98	13	ND	10.000	-	-	
Acetone	µg/L	11/18/98	13	ND	10.000	700.000	-	
Acrylonitrile	µg/L	11/18/98	13	ND	10.000	-	-	
Benzene	µg/L	11/18/98	13	ND	2.000	1.000	-	
Benzyl alcohol	µg/L	11/18/98	13	ND	12.000	-	-	
Bromochloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromodichloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromoform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Bromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon disulfide	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon tetrachloride	µg/L	11/18/98	13	ND	2.000	0.300	-	
Chlorobenzene	µg/L	11/18/98	13	ND	2.000	50.000	-	
Chloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
Chloroform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Chloromethane	µg/L	11/18/98	13	ND	2.000	2.600	-	
cis-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
cis-1,3-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
Dibromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Ethyl benzene	µg/L	11/18/98	13	ND	2.000	29.000	-	
Ethyl methacrylate	µg/L	11/18/98	13	ND	10.000	-	-	
Methyl Iodide	µg/L	11/18/98	13	ND	2.000	-	-	
Methyl isobutyl ketone	µg/L	11/18/98	13	ND	10.000	-	-	
Methylene chloride	µg/L	11/18/98	13	ND	10.000	5.000	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

Page: 23 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Styrene	µg/L	11/18/98	13	ND	2.000	0.100	-	
Tetrachloroethylene	µg/L	11/18/98	13	ND	2.000	0.700	-	
Toluene	µg/L	11/18/98	13	ND	2.000	1000.000	-	
trans-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
trans-1,3-Dichloropropen	µg/L	11/18/98	13	ND	2.000	-	-	
trans-1,4-Dichloro-2-bute	µg/L	11/18/98	13	ND	2.000	-	-	
Trichloroethylene	µg/L	11/18/98	13	ND	2.000	2.800	-	
Trichlorofluoromethane	µg/L	11/18/98	13	ND	2.000	2100.000	-	
Vinyl acetate	µg/L	11/18/98	13	ND	10.000	-	-	
Vinyl chloride	µg/L	11/18/98	13	ND	2.000	0.015	-	
Xylenes - Total	µg/L	11/18/98	13	ND	2.000	530.000	-	
Upgradient								
MW-1								
Appendix II Metals								
Tin	mg/L	11/18/98	13	ND	0.200	-	-	
Appendix II Volatile Organic Compounds								
1,1-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
1,2,4,5-Tetrachlorobenze	µg/L	11/18/98	13	ND	10.000	-	-	
1,2,4-Trichlorobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
1,3-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,3-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
2,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
Acetonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Acrolein	µg/L	11/18/98	13	ND	10.000	-	-	
Allyl Chloride	µg/L	11/18/98	13	ND	10.000	-	-	
Chloroprene	µg/L	11/18/98	13	ND	5.000	-	-	
Dichlorodifluoromethane	µg/L	11/18/98	13	ND	2.000	1400.000	-	
Isobutanol	µg/L	11/18/98	13	ND	10.000	-	-	
Methacrylonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Methyl methacrylate	µg/L	11/18/98	13	ND	5.000	-	-	
Propionitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Herbicides								
2,4,5-T	µg/L	11/18/98	13	ND	2.000	-	-	
2,4-D	µg/L	11/18/98	13	ND	2.000	70.000	-	
Dinoseb	µg/L	11/18/98	13	ND	1.000	-	-	
Silvex	µg/L	11/18/98	13	ND	2.000	50.000	-	
Metals								
Antimony	mg/L	11/18/98	13	ND	0.005	-	-	
Arsenic	mg/L	11/18/98	13	ND	0.005	0.050	-	
Barium	mg/L	11/18/98	13	0.030	0.000	2.000	-	
Beryllium	mg/L	11/18/98	13	ND	0.001	-	-	
Cadmium	mg/L	11/18/98	13	ND	0.001	0.005	-	
Chromium	mg/L	11/18/98	13	0.002	0.000	0.050	-	
Cobalt	mg/L	11/18/98	13	0.009	0.000	-	-	
Copper	mg/L	11/18/98	13	ND	0.010	1.000	-	
Lead	mg/L	11/18/98	13	ND	0.006	0.015	-	
Nickel	mg/L	11/18/98	13	ND	0.050	0.100	-	
Selenium	mg/L	11/18/98	13	ND	0.005	0.050	-	
Silver	mg/L	11/18/98	13	ND	0.002	0.018	-	
Thallium	mg/L	11/18/98	13	ND	0.002	-	-	
Vanadium	mg/L	11/18/98	13	0.008	0.000	-	-	
Zinc	mg/L	11/18/98	13	ND	0.010	2.100	-	
Pesticides								
4,4'-DDD	µg/L	11/18/98	13	ND	0.100	-	-	
4,4'-DDE	µg/L	11/18/98	13	ND	0.100	-	-	
4,4'-DDT	µg/L	11/18/98	13	ND	0.100	-	-	
Aldrin	µg/L	11/18/98	13	ND	0.050	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

Page: 24 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
BHC-Alpha	µg/L	11/18/98	13	ND	0.050	0.019	-	
BHC-Beta	µg/L	11/18/98	13	ND	0.050	0.019	-	
BHC-Delta	µg/L	11/18/98	13	ND	0.050	0.019	-	
BHC-Gamma	µg/L	11/18/98	13	0.055	0.000	0.019	0.036	
Chlordane	µg/L	11/18/98	13	ND	0.200	0.027	-	
Dieldrin	µg/L	11/18/98	13	ND	0.020	0.002	-	
Endosulfan I	µg/L	11/18/98	13	ND	0.100	-	-	
Endosulfan II	µg/L	11/18/98	13	ND	0.100	42.000	-	
Endosulfan Sulfate	µg/L	11/18/98	13	ND	0.100	-	-	
Endrin	µg/L	11/18/98	13	ND	0.060	2.100	-	
Endrin aldehyde	µg/L	11/18/98	13	ND	0.100	2.100	-	
Heptachlor	µg/L	11/18/98	13	ND	0.050	0.008	-	
Heptachlor epoxide	µg/L	11/18/98	13	ND	0.100	0.004	-	
Methoxychlor	µg/L	11/18/98	13	ND	0.500	35.000	-	
Toxaphene	µg/L	11/18/98	13	ND	2.000	0.031	-	
Polychlorinated Biphenyls								
Aroclor 1221	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1232	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1242	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1248	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1254	µg/L	11/18/98	13	ND	1.000	-	-	
Aroclor 1260	µg/L	11/18/98	13	ND	1.000	-	-	
Semi-volatile Organic Compounds								
0,0,0-Triethylphosphoroth	µg/L	11/18/98	13	ND	10.000	-	-	
1,3,5-Naphthoquinone	µg/L	11/18/98	13	ND	10.000	-	-	
1-Naphthylamine	µg/L	11/18/98	13	ND	10.000	-	-	
2,3,4,6-Tetrachlorophenol	µg/L	11/18/98	13	ND	10.000	210.000	-	
2,4,5-Trichlorophenol	µg/L	11/18/98	13	ND	25.000	-	-	
2,4,6-Trichlorophenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,4-Dichlorophenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,4-Dimethylphenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,4-Dinitrophenol	µg/L	11/18/98	13	ND	25.000	-	-	
2,4-Dinitrotoluene	µg/L	11/18/98	13	ND	10.000	-	-	
2,6-Dichlorophenol	µg/L	11/18/98	13	ND	10.000	-	-	
2,6-Dinitrotoluene	µg/L	11/18/98	13	ND	10.000	-	-	
2-Acetylaminofluorene	µg/L	11/18/98	13	ND	10.000	-	-	
2-Chloronaphthalene	µg/L	11/18/98	13	ND	10.000	-	-	
2-Chlorophenol	µg/L	11/18/98	13	ND	10.000	0.100	-	
2-Methylnaphthalene	µg/L	11/18/98	13	ND	10.000	28.000	-	
2-Methylphenol	µg/L	11/18/98	13	ND	10.000	-	-	
2-Naphthylamine	µg/L	11/18/98	13	ND	10.000	-	-	
2-Nitroaniline	µg/L	11/18/98	13	ND	25.000	-	-	
2-Nitrophenol	µg/L	11/18/98	13	ND	10.000	-	-	
3,3'-Dichlorobenzidine	µg/L	11/18/98	13	ND	20.000	-	-	
3,3'-Dimethylbenzidine	µg/L	11/18/98	13	ND	21.000	-	-	
3-Methylcholanthrene	µg/L	11/18/98	13	ND	10.000	-	-	
3-Methylphenol	µg/L	11/18/98	13	ND	10.000	35.000	-	
3-Nitroaniline	µg/L	11/18/98	13	ND	25.000	-	-	
4,6-Dinitro-2-methylphen	µg/L	11/18/98	13	ND	25.000	-	-	
4-Aminobiphenyl	µg/L	11/18/98	13	ND	10.000	-	-	
4-Bromophenyl phenyl et	µg/L	11/18/98	13	ND	10.000	-	-	
4-Chloro-3-methylphenol	µg/L	11/18/98	13	ND	10.000	-	-	
4-Chloroaniline	µg/L	11/18/98	13	ND	10.000	-	-	
4-Chlorophenyl phenyl et	µg/L	11/18/98	13	ND	10.000	-	-	
4-Methylphenol	µg/L	11/18/98	13	ND	10.000	3.500	-	
4-Nitroaniline	µg/L	11/18/98	13	ND	25.000	-	-	
4-Nitrophenol	µg/L	11/18/98	13	ND	25.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring
Site: Closed Sanitary Ladfill
Page: 25
Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
5-Nitro-o-toluidine	µg/L	11/18/98	13	ND	10.000	-	-	
7,12-Dimethylbenz(a)anth	µg/L	11/18/98	13	ND	10.000	-	-	
Acenaphthene	µg/L	11/18/98	13	ND	10.000	-	-	
Acenaphthylene	µg/L	11/18/98	13	ND	10.000	-	-	
Acetophenone	µg/L	11/18/98	13	ND	10.000	-	-	
Anthracene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(a)anthracene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(b)fluoranthene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(ghi)perylene	µg/L	11/18/98	13	ND	10.000	-	-	
Benzo(k)fluoranthene	µg/L	11/18/98	13	ND	10.000	-	-	
bis(2-chloroethoxy) meth	µg/L	11/18/98	13	ND	10.000	-	-	
bis(2-Chloroethyl) ether	µg/L	11/18/98	13	ND	10.000	-	-	
bis(2-Ethylhexyl) phthalat	µg/L	11/18/98	13	ND	10.000	-	-	
Butyl benzyl phthalate	µg/L	11/18/98	13	ND	10.000	-	-	
Chlorobenzilate	µg/L	11/18/98	13	ND	10.000	-	-	
Chrysene	µg/L	11/18/98	13	ND	10.000	-	-	
Di-n-butyl phthalate	µg/L	11/18/98	13	ND	10.000	700.000	-	
Di-n-octyl phthalate	µg/L	11/18/98	13	ND	10.000	-	-	
Diallate	µg/L	11/18/98	13	ND	10.000	-	-	
Dibenzo(a,h)anthracene	µg/L	11/18/98	13	ND	10.000	-	-	
Diethyl phthalate	µg/L	11/18/98	13	ND	10.000	5000.000	-	
Dimethoate	µg/L	11/18/98	13	ND	10.000	-	-	
Dimethyl phthalate	µg/L	11/18/98	13	ND	10.000	-	-	
Ethyl methanesulfonate	µg/L	11/18/98	13	ND	10.000	-	-	
Famphur	µg/L	11/18/98	13	ND	10.000	-	-	
Fluoranthene	µg/L	11/18/98	13	ND	10.000	-	-	
Fluorene	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachlorobenzene	µg/L	11/18/98	13	ND	10.000	0.020	-	
Hexachlorobutadiene	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachloroethane	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachloropentadiene	µg/L	11/18/98	13	ND	10.000	-	-	
Hexachloropropene	µg/L	11/18/98	13	ND	10.000	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	11/18/98	13	ND	10.000	-	-	
Isodrin	µg/L	11/18/98	13	ND	10.000	-	-	
Isophorone	µg/L	11/18/98	13	ND	10.000	36.800	-	
Isosafrole	µg/L	11/18/98	13	ND	10.000	-	-	
m-Dinitrobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
Methapyrilene	µg/L	11/18/98	13	ND	10.000	-	-	
Methyl methanesulfonate	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitroso-Di-n-propylam	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosodiethylamine	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosodimethylamine	µg/L	11/18/98	13	ND	10.000	0.001	-	
N-nitrosodiphenylamine	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosomethyl-ethylam	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosopiperidine	µg/L	11/18/98	13	ND	10.000	-	-	
N-Nitrosopyrrolidine	µg/L	11/18/98	13	ND	10.000	-	-	
Naphthalene	µg/L	11/18/98	13	ND	10.000	-	-	
Nitrobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
o-Toluidine	µg/L	11/18/98	13	ND	10.000	-	-	
P-Dimethylaminoazobenz	µg/L	11/18/98	13	ND	10.000	-	-	
p-Phenylenediamine	µg/L	11/18/98	13	ND	10.000	-	-	
Pentachloronitrobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
Phenacetin	µg/L	11/18/98	13	ND	10.000	-	-	
Phenanthrene	µg/L	11/18/98	13	ND	10.000	-	-	
Phenol	µg/L	11/18/98	13	ND	10.000	-	-	
Pronamide	µg/L	11/18/98	13	ND	10.000	-	-	
Pyrene	µg/L	11/18/98	13	ND	10.000	-	-	
Safrole	µg/L	11/18/98	13	ND	10.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring

Site: Closed Sanitary Ladfill

Page: 26

Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
sym-Trinitrobenzene	µg/L	11/18/98	13	ND	10.000	-	-	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,1-Trichloroethane	µg/L	11/18/98	13	ND	2.000	200.000	-	
1,1,2,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,2-Trichloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1-Dichloroethane	µg/L	11/18/98	13	15.100	0.000	700.000	-	
1,1-Dichloroethene	µg/L	11/18/98	13	ND	2.000	7.000	-	
1,2,3-Trichloropropane	µg/L	11/18/98	13	ND	2.000	0.006	-	
1,2-Dibromo-3-chloropro	µg/L	11/18/98	13	ND	10.000	0.025	-	
1,2-Dibromoethane	µg/L	11/18/98	13	ND	2.000	0.000	-	
1,2-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,2-Dichloroethane	µg/L	11/18/98	13	ND	2.000	0.380	-	
1,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	0.560	-	
1,4-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	75.000	-	
2-Butanone	µg/L	11/18/98	13	ND	10.000	-	-	
2-Hexanone	µg/L	11/18/98	13	ND	10.000	-	-	
Acetone	µg/L	11/18/98	13	ND	10.000	700.000	-	
Acrylonitrile	µg/L	11/18/98	13	ND	10.000	-	-	
Benzene	µg/L	11/18/98	13	3.000	0.000	1.000	2.000	
Bromochloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromodichloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromoform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Bromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon disulfide	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon tetrachloride	µg/L	11/18/98	13	ND	2.000	0.300	-	
Chlorobenzene	µg/L	11/18/98	13	ND	2.000	50.000	-	
Chloroethane	µg/L	11/18/98	13	5.700	0.000	-	-	
Chloroform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Chloromethane	µg/L	11/18/98	13	ND	2.000	2.600	-	
cis-1,2-Dichloroethene	µg/L	11/18/98	13	4.900	0.000	70.000	-	
cis-1,3-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
Dibromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Ethyl benzene	µg/L	11/18/98	13	ND	2.000	29.000	-	
Ethyl methacrylate	µg/L	11/18/98	13	ND	10.000	-	-	
Methyl Iodide	µg/L	11/18/98	13	ND	2.000	-	-	
Methyl isobutyl ketone	µg/L	11/18/98	13	ND	10.000	-	-	
Methylene chloride	µg/L	11/18/98	13	ND	10.000	5.000	-	
Styrene	µg/L	11/18/98	13	ND	2.000	0.100	-	
Tetrachloroethylene	µg/L	11/18/98	13	ND	2.000	0.700	-	
Toluene	µg/L	11/18/98	13	ND	2.000	1000.000	-	
trans-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
trans-1,3-Dichloropropen	µg/L	11/18/98	13	ND	2.000	-	-	
trans-1,4-Dichloro-2-bute	µg/L	11/18/98	13	ND	2.000	-	-	
Trichloroethylene	µg/L	11/18/98	13	ND	2.000	2.800	-	
Trichlorofluoromethane	µg/L	11/18/98	13	ND	2.000	2100.000	-	
Vinyl acetate	µg/L	11/18/98	13	ND	10.000	-	-	
Vinyl chloride	µg/L	11/18/98	13	ND	2.000	0.015	-	
Xylenes - Total	µg/L	11/18/98	13	ND	2.000	530.000	-	
MW-1A								
Appendix II Metals								
Tin	mg/L	11/18/98	13	ND	0.200	-	-	
Appendix II Volatile Organic Compounds								
1,1-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	
1,3-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,3-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	
2,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring

Site: Closed Sanitary Ladfill

Page: 27

Data Group: None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Acetonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Acrolein	µg/L	11/18/98	13	ND	10.000	-	-	
Allyl Chloride	µg/L	11/18/98	13	ND	10.000	-	-	
Chloroprene	µg/L	11/18/98	13	ND	5.000	-	-	
Dichlorodifluoromethane	µg/L	11/18/98	13	ND	2.000	1400.000	-	
Isobutanol	µg/L	11/18/98	13	ND	10.000	-	-	
Methacrylonitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Methyl methacrylate	µg/L	11/18/98	13	ND	5.000	-	-	
Propionitrile	µg/L	11/18/98	13	ND	5.000	-	-	
Metals								
Antimony	mg/L	11/18/98	13	ND	0.005	-	-	
Arsenic	mg/L	11/18/98	13	ND	0.020	0.050	-	
Barium	mg/L	11/18/98	13	0.830	0.000	2.000	-	
Beryllium	mg/L	11/18/98	13	0.004	0.000	-	-	
Cadmium	mg/L	11/18/98	13	ND	0.001	0.005	-	
Chromium	mg/L	11/18/98	13	0.410	0.000	0.050	0.360	
Cobalt	mg/L	11/18/98	13	0.083	0.000	-	-	
Copper	mg/L	11/18/98	13	0.160	0.000	1.000	-	
Lead	mg/L	11/18/98	13	0.075	0.000	0.015	0.060	
Nickel	mg/L	11/18/98	13	0.190	0.000	0.100	0.090	
Selenium	mg/L	11/18/98	13	ND	0.005	0.050	-	
Silver	mg/L	11/18/98	13	ND	0.002	0.018	-	
Thallium	mg/L	11/18/98	13	ND	0.002	-	-	
Vanadium	mg/L	11/18/98	13	0.270	0.000	-	-	
Zinc	mg/L	11/18/98	13	0.250	0.000	2.100	-	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,1-Trichloroethane	µg/L	11/18/98	13	ND	2.000	200.000	-	
1,1,2,2-Tetrachloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1,2-Trichloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
1,1-Dichloroethane	µg/L	11/18/98	13	ND	2.000	700.000	-	
1,1-Dichloroethene	µg/L	11/18/98	13	ND	2.000	7.000	-	
1,2,3-Trichloropropane	µg/L	11/18/98	13	ND	2.000	0.006	-	
1,2-Dibromo-3-chloropro	µg/L	11/18/98	13	ND	10.000	0.025	-	
1,2-Dibromoethane	µg/L	11/18/98	13	ND	2.000	0.000	-	
1,2-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	620.000	-	
1,2-Dichloroethane	µg/L	11/18/98	13	ND	2.000	0.380	-	
1,2-Dichloropropane	µg/L	11/18/98	13	ND	2.000	0.560	-	
1,4-Dichlorobenzene	µg/L	11/18/98	13	ND	2.000	75.000	-	
2-Butanone	µg/L	11/18/98	13	ND	10.000	-	-	
2-Hexanone	µg/L	11/18/98	13	ND	10.000	-	-	
Acetone	µg/L	11/18/98	13	ND	10.000	700.000	-	
Acrylonitrile	µg/L	11/18/98	13	ND	10.000	-	-	
Benzene	µg/L	11/18/98	13	ND	2.000	1.000	-	
Bromochloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromodichloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromodichloromethane	µg/L	11/18/98	13	ND	2.000	-	-	
Bromoform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Bromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon disulfide	µg/L	11/18/98	13	ND	2.000	-	-	
Carbon tetrachloride	µg/L	11/18/98	13	ND	2.000	0.300	-	
Chlorobenzene	µg/L	11/18/98	13	ND	2.000	50.000	-	
Chloroethane	µg/L	11/18/98	13	ND	2.000	-	-	
Chloroform	µg/L	11/18/98	13	ND	2.000	0.190	-	
Chloromethane	µg/L	11/18/98	13	ND	2.000	2.600	-	
cis-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
cis-1,3-Dichloropropene	µg/L	11/18/98	13	ND	2.000	-	-	

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Result Report (w/ Threshold Exceedences)

Program: Alexander County Groundwater Monitoring **Site:**Closed Sanitary Ladfill

Page: 28 **Data Group:** None

Parameter	Unit	Date	Sample ID	Result Value	Detection Limit	Regulatory Limit	Exceedence Value	Code
Dibromomethane	µg/L	11/18/98	13	ND	2.000	-	-	
Ethyl benzene	µg/L	11/18/98	13	ND	2.000	29.000	-	
Ethyl methacrylate	µg/L	11/18/98	13	ND	10.000	-	-	
Methyl Iodide	µg/L	11/18/98	13	ND	2.000	-	-	
Methyl isobutyl ketone	µg/L	11/18/98	13	ND	10.000	-	-	
Methylene chloride	µg/L	11/18/98	13	ND	10.000	5.000	-	
Styrene	µg/L	11/18/98	13	ND	2.000	0.100	-	
Tetrachloroethylene	µg/L	11/18/98	13	ND	2.000	0.700	-	
Toluene	µg/L	11/18/98	13	ND	2.000	1000.000	-	
trans-1,2-Dichloroethene	µg/L	11/18/98	13	ND	2.000	70.000	-	
trans-1,3-Dichloropropen	µg/L	11/18/98	13	ND	2.000	-	-	
trans-1,4-Dichloro-2-bute	µg/L	11/18/98	13	ND	2.000	-	-	
Trichloroethylene	µg/L	11/18/98	13	ND	2.000	2.800	-	
Trichlorofluoromethane	µg/L	11/18/98	13	ND	2.000	2100.000	-	
Vinyl acetate	µg/L	11/18/98	13	ND	2.000	-	-	
Vinyl chloride	µg/L	11/18/98	13	ND	2.000	0.015	-	
Xylenes - Total	µg/L	11/18/98	13	7.400	0.000	530.000	-	

End of report

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Data Distribution Report

Data Distribution Report-Background

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

Page1 **Data Group:**None

Parameter	Unit	Size	%NDs	Best Fit Distribution	Normal p Value	Lognormal p Value	Coefficient Variation

Data Distribution Report-Background

Company:	Alexander County	**Data Group:**	None
Site:	Closed Sanitary Ladfill	**Date Range:**	All
Program:	Alexander County Groundwater Monitori	**Non-detects:**	1/2 detection limit
Permit:		**Duplicates:**	Mean
Minimum Size:	3.000	**Confidence Level:**	0.95
Report printed:	1/18/99 3:21:08PM	**Reported by:**	user
Report Options:	by sampling point	**Range of Censoring:**	0% - 100%

Monitor 5

Upgradient

Background (MW-1 & MW-1A)

Appendix II Metals							
Mercury	mg/L	8	37.5%	Lognormal	-	0.078	0.995
Tin	mg/L	4	100.0%	Non-normal	0.026	0.026	0.945
Appendix II Volatile Organic Compounds							
1,1-Dichloropropene	µg/L	4	100.0%	Normal	1.000	-	0.000
1,2,3-Trichlorobenzene	µg/L	2	100.0%	***	-	-	0.000
1,2,4,5-Tetrachlorobenzene	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.990
1,2,4-Trichlorobenzene	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.990
1,2,4-Trimethylbenzene	µg/L	2	100.0%	***	-	-	0.000
1,3,5-Trimethylbenzene	µg/L	2	100.0%	***	-	-	0.000
1,3-Dichlorobenzene	µg/L	4	100.0%	Normal	1.000	-	0.000
1,3-Dichloropropane	µg/L	4	100.0%	Normal	1.000	-	0.000
2,2-Dichloropropane	µg/L	4	100.0%	Normal	1.000	-	0.000
4-Chlorotoluene	µg/L	2	100.0%	***	-	-	0.000
4-Isopropyl toluene	µg/L	2	100.0%	***	-	-	0.000
Acetonitrile	µg/L	4	100.0%	Non-normal	0.026	0.026	1.045
Acrolein	µg/L	4	100.0%	Non-normal	0.026	0.026	0.945
Allyl Chloride	µg/L	4	100.0%	Non-normal	0.026	0.026	0.770
Bromobenzene	µg/L	2	100.0%	***	-	-	0.000
Chloroprene	µg/L	4	100.0%	Non-normal	0.026	0.026	0.385
Dichlorodifluoromethane	µg/L	4	100.0%	Non-normal	0.026	0.026	0.770
Isobutanol	µg/L	4	100.0%	Non-normal	0.026	0.026	0.945
Isopropylbenzene	µg/L	2	100.0%	***	-	-	0.000
Methacrylonitrile	µg/L	4	100.0%	Non-normal	0.026	0.026	0.385
Methyl methacrylate	µg/L	10	100.0%	Non-normal	0.000	0.000	0.487
Methyl-tert-butyl ether	µg/L	2	100.0%	***	-	-	0.000
n-Butylbenzene	µg/L	2	100.0%	***	-	-	0.000
n-Propylbenzene	µg/L	2	100.0%	***	-	-	0.000
o-Xylene	µg/L	2	100.0%	***	-	-	0.000
Propionitrile	µg/L	4	100.0%	Non-normal	0.026	0.026	0.385
sec-Butylbenzene	µg/L	2	100.0%	***	-	-	0.000
tert-Butylbenzene	µg/L	2	100.0%	***	-	-	0.000
Herbicides							
2,4,5-T	µg/L	3	100.0%	Normal	1.000	-	0.000
2,4-D	µg/L	3	100.0%	Normal	1.000	-	0.000
Dinoseb	µg/L	3	100.0%	Normal	1.000	-	0.000
Silvex	µg/L	3	100.0%	Normal	1.000	-	0.000
Inorganic Parameters							
Cyanide	mg/L	8	100.0%	Lognormal	-	1.000	0.000
Sulfide	mg/L	2	100.0%	***	-	-	0.000
Metals							

Note: * - The number of sampling results must be in the range from 3 to 2000 inclusive, to test for Shapiro-Wilk Distribution .**

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Data Distribution Report-Background

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

Page2 **Data Group:**None

Parameter	Unit	Size	%NDs	Best Fit Distribution	Normal p Value	Lognormal p Value	Coefficient Variation
Antimony	mg/L	22	100.0%	Non-normal	0.000	0.000	0.737
Arsenic	mg/L	22	100.0%	Non-normal	0.000	0.000	0.426
Barium	mg/L	22	40.9%	Non-normal	0.000	0.023	0.945
Beryllium	mg/L	22	81.8%	Non-normal	0.000	0.000	1.522
Cadmium	mg/L	22	95.5%	Non-normal	0.000	0.000	0.204
Chromium	mg/L	22	18.2%	Lognormal	-	0.321	1.813
Cobalt	mg/L	22	27.3%	Non-normal	0.000	0.013	1.435
Copper	mg/L	22	68.2%	Non-normal	0.003	0.000	0.803
Lead	mg/L	22	59.1%	Non-normal	0.000	0.000	1.339
Nickel	mg/L	22	72.7%	Non-normal	0.000	0.000	0.988
Selenium	mg/L	22	100.0%	Non-normal	0.000	0.000	0.599
Silver	mg/L	22	100.0%	Non-normal	0.000	0.000	0.523
Thallium	mg/L	22	100.0%	Non-normal	0.000	0.000	0.719
Vanadium	mg/L	22	50.0%	Lognormal	-	0.099	1.455
Zinc	mg/L	22	22.7%	Lognormal	-	0.279	1.015
Pesticides							
4,4'-DDD	µg/L	3	100.0%	Normal	1.000	-	0.000
4,4'-DDE	µg/L	3	100.0%	Normal	1.000	-	0.000
4,4'-DDT	µg/L	3	100.0%	Normal	1.000	-	0.000
Aldrin	µg/L	3	100.0%	Normal	1.000	-	0.000
BHC-Alpha	µg/L	9	100.0%	Non-normal	0.000	0.000	1.500
BHC-Beta	µg/L	9	100.0%	Non-normal	0.000	0.000	1.500
BHC-Delta	µg/L	3	100.0%	Normal	1.000	-	0.000
BHC-Gamma	µg/L	3	66.7%	Non-normal	-0.000	-0.000	0.495
Chlordane	µg/L	3	100.0%	Normal	1.000	-	0.000
Dieldrin	µg/L	3	100.0%	Lognormal	-	1.000	0.000
Endosulfan I	µg/L	3	100.0%	Normal	1.000	-	0.000
Endosulfan II	µg/L	3	100.0%	Normal	1.000	-	0.000
Endosulfan Sulfate	µg/L	3	100.0%	Normal	1.000	-	0.000
Endrin	µg/L	3	100.0%	Normal	1.000	-	0.000
Endrin aldehyde	µg/L	3	100.0%	Normal	1.000	-	0.000
Heptachlor	µg/L	9	100.0%	Non-normal	0.000	0.000	1.500
Heptachlor epoxide	µg/L	3	100.0%	Normal	1.000	-	0.000
Methoxychlor	µg/L	3	100.0%	Normal	1.000	-	0.000
Toxaphene	µg/L	3	100.0%	Normal	1.000	-	0.000
Polychlorinated Biphenyls							
Aroclor 1221	µg/L	3	100.0%	Normal	1.000	-	0.000
Aroclor 1232	µg/L	3	100.0%	Normal	1.000	-	0.000
Aroclor 1242	µg/L	3	100.0%	Normal	1.000	-	0.000
Aroclor 1248	µg/L	3	100.0%	Normal	1.000	-	0.000
Aroclor 1254	µg/L	3	100.0%	Normal	1.000	-	0.000
Aroclor 1260	µg/L	3	100.0%	Normal	1.000	-	0.000
Semi-volatile Organic Compounds							
0,0,0-Triethylphosphorothioate	µg/L	3	100.0%	Normal	1.000	-	0.000
1,3,5-Naphthoquinone	µg/L	3	100.0%	Normal	1.000	-	0.000
1-Naphthylamine	µg/L	3	100.0%	Normal	1.000	-	0.000
2,3,4,6-Tetrachlorophenol	µg/L	3	100.0%	Normal	1.000	-	0.000
2,4,5-Trichlorophenol	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.577
2,4,6-Trichlorophenol	µg/L	3	100.0%	Normal	1.000	-	0.000
2,4-Dichlorophenol	µg/L	3	100.0%	Normal	1.000	-	0.000
2,4-Dimethylphenol	µg/L	3	100.0%	Normal	1.000	-	0.000
2,4-Dinitrophenol	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.346
2,4-Dinitrotoluene	µg/L	3	100.0%	Normal	1.000	-	0.000
2,6-Dichlorophenol	µg/L	3	100.0%	Normal	1.000	-	0.000
2,6-Dinitrotoluene	µg/L	3	100.0%	Normal	1.000	-	0.000
2-Acetylaminofluorene	µg/L	3	100.0%	Normal	1.000	-	0.000

Note: * - The number of sampling results must be in the range from 3 to 2000 inclusive, to test for Shapiro-Wilk Distribution .**

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Data Distribution Report-Background

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

Page3 **Data Group:**None

Parameter	Unit	Size	%NDs	Best Fit Distribution	Normal p Value	Lognormal p Value	Coefficient Variation
2-Chloronaphthalene	µg/L	3	100.0%	Normal	1.000	-	0.000
2-Chlorophenol	µg/L	3	100.0%	Normal	1.000	-	0.000
2-Chlorotoluene	µg/L	2	100.0%	***	-	-	0.000
2-Methylnaphthalene	µg/L	3	100.0%	Normal	1.000	-	0.000
2-Methylphenol	µg/L	3	100.0%	Normal	1.000	-	0.000
2-Naphthylamine	µg/L	3	100.0%	Normal	1.000	-	0.000
2-Nitroaniline	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.577
2-Nitrophenol	µg/L	3	100.0%	Normal	1.000	-	0.000
3,3'-Dichlorobenzidine	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.433
3,3'-Dimethylbenzidine	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.465
3-Methylcholanthrene	µg/L	3	100.0%	Normal	1.000	-	0.000
3-Methylphenol	µg/L	3	100.0%	Normal	1.000	-	0.000
3-Nitroaniline	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.577
4,6-Dinitro-2-methylphenol	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.577
4-Aminobiphenyl	µg/L	3	100.0%	Normal	1.000	-	0.000
4-Bromophenyl phenyl ether	µg/L	3	100.0%	Normal	1.000	-	0.000
4-Chloro-3-methylphenol	µg/L	3	100.0%	Normal	1.000	-	0.000
4-Chloroaniline	µg/L	3	100.0%	Normal	1.000	-	0.000
4-Chlorophenyl phenyl ether	µg/L	3	100.0%	Normal	1.000	-	0.000
4-Methylphenol	µg/L	3	100.0%	Normal	1.000	-	0.000
4-Nitroaniline	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.577
4-Nitrophenol	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.577
5-Nitro-o-toluidine	µg/L	3	100.0%	Normal	1.000	-	0.000
7,12-Dimethylbenz(a)anthracene	µg/L	3	100.0%	Normal	1.000	-	0.000
Acenaphthene	µg/L	3	100.0%	Normal	1.000	-	0.000
Acenaphthylene	µg/L	3	100.0%	Normal	1.000	-	0.000
Acetophenone	µg/L	3	100.0%	Normal	1.000	-	0.000
Anthracene	µg/L	3	100.0%	Normal	1.000	-	0.000
Benzo(a)anthracene	µg/L	3	100.0%	Normal	1.000	-	0.000
Benzo(a)pyrene	µg/L	2	100.0%	***	-	-	0.000
Benzo(b)fluoranthene	µg/L	3	100.0%	Normal	1.000	-	0.000
Benzo(ghi)perylene	µg/L	3	100.0%	Normal	1.000	-	0.000
Benzo(k)fluoranthene	µg/L	3	100.0%	Normal	1.000	-	0.000
Bis(2-chloro-1-methylethyl)ether	µg/L	2	100.0%	***	-	-	0.000
bis(2-chloroethoxy) methane	µg/L	3	100.0%	Normal	1.000	-	0.000
bis(2-Chloroethyl) ether	µg/L	3	100.0%	Normal	1.000	-	0.000
bis(2-Ethylhexyl) phthalate	µg/L	3	66.7%	Non-normal	-0.000	-0.000	0.602
Butyl benzyl phthalate	µg/L	3	100.0%	Normal	1.000	-	0.000
Chlorobenzilate	µg/L	3	100.0%	Normal	1.000	-	0.000
Chrysene	µg/L	3	100.0%	Normal	1.000	-	0.000
Di-n-butyl phthalate	µg/L	3	100.0%	Normal	1.000	-	0.000
Di-n-octyl phthalate	µg/L	3	100.0%	Normal	1.000	-	0.000
Diallate	µg/L	3	100.0%	Normal	1.000	-	0.000
Dibenzo(a,h)anthracene	µg/L	3	100.0%	Normal	1.000	-	0.000
Diethyl phthalate	µg/L	3	100.0%	Normal	1.000	-	0.000
Dimethoate	µg/L	3	100.0%	Normal	1.000	-	0.000
Dimethyl phthalate	µg/L	3	100.0%	Normal	1.000	-	0.000
Disulfoton	µg/L	2	100.0%	***	-	-	0.000
Ethyl methanesulfonate	µg/L	3	100.0%	Normal	1.000	-	0.000
Famphur	µg/L	3	100.0%	Normal	1.000	-	0.000
Fluoranthene	µg/L	3	100.0%	Normal	1.000	-	0.000
Fluorene	µg/L	3	100.0%	Normal	1.000	-	0.000
Hexachlorobenzene	µg/L	3	100.0%	Normal	1.000	-	0.000
Hexachlorobutadiene	µg/L	3	100.0%	Non-normal	-0.000	-0.000	0.630
Hexachloroethane	µg/L	3	100.0%	Normal	1.000	-	0.000
Hexachloropentadiene	µg/L	3	100.0%	Normal	1.000	-	0.000
Hexachloropropene	µg/L	3	100.0%	Normal	1.000	-	0.000

Note: *** - The number of sampling results must be in the range from 3 to 2000 inclusive, to test for Shapiro-Wilk Distribution .

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Data Distribution Report-Background

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

Page4 **Data Group:**None

Parameter	Unit	Size	%NDs	Best Fit Distribution	Normal p Value	Lognormal p Value	Coefficient Variation
Indeno(1,2,3-cd)pyrene	µg/L	3	100.0%	Normal	1.000	-	0.000
Isodrin	µg/L	3	100.0%	Normal	1.000	-	0.000
Isophorone	µg/L	3	100.0%	Normal	1.000	-	0.000
Isosafrole	µg/L	3	100.0%	Normal	1.000	-	0.000
Kepone	µg/L	2	100.0%	***	-	-	0.000
m-Dinitrobenzene	µg/L	3	100.0%	Normal	1.000	-	0.000
Methapyrilene	µg/L	3	100.0%	Normal	1.000	-	0.000
Methyl methanesulfonate	µg/L	3	100.0%	Normal	1.000	-	0.000
Methyl parathion	µg/L	2	100.0%	***	-	-	0.000
N-Nitroso-Di-n-propylamine	µg/L	3	100.0%	Normal	1.000	-	0.000
N-Nitrosodi-n-butylamine	µg/L	2	100.0%	***	-	-	0.000
N-Nitrosodiethylamine	µg/L	3	100.0%	Normal	1.000	-	0.000
N-Nitrosodimethylamine	µg/L	3	100.0%	Normal	1.000	-	0.000
N-nitrosodiphenylamine	µg/L	3	100.0%	Normal	1.000	-	0.000
N-Nitrosomethyl-ethylamine	µg/L	3	100.0%	Normal	1.000	-	0.000
N-Nitrosopiperidine	µg/L	3	100.0%	Normal	1.000	-	0.000
N-Nitrosopyrrolidine	µg/L	3	100.0%	Normal	1.000	-	0.000
Naphthalene	µg/L	6	100.0%	Non-normal	0.003	0.003	0.730
Nitrobenzene	µg/L	3	100.0%	Normal	1.000	-	0.000
o-Toluidine	µg/L	3	100.0%	Normal	1.000	-	0.000
P-Dimethylaminoazobenzene	µg/L	3	100.0%	Normal	1.000	-	0.000
p-Phenylenediamine	µg/L	3	100.0%	Normal	1.000	-	0.000
Parathion	µg/L	2	100.0%	***	-	-	0.000
Pentachfluorobenzene	µg/L	2	100.0%	***	-	-	0.000
Pentachloronitrobenzene	µg/L	3	100.0%	Normal	1.000	-	0.000
Pentachlorophenol	µg/L	2	100.0%	***	-	-	0.000
Phenacetin	µg/L	3	100.0%	Normal	1.000	-	0.000
Phenanthrene	µg/L	3	100.0%	Normal	1.000	-	0.000
Phenol	µg/L	3	100.0%	Normal	1.000	-	0.000
Phorate	µg/L	2	100.0%	***	-	-	0.000
Pronamide	µg/L	3	100.0%	Normal	1.000	-	0.000
Pyrene	µg/L	3	100.0%	Normal	1.000	-	0.000
Safrole	µg/L	3	100.0%	Normal	1.000	-	0.000
sym-Trinitrobenzene	µg/L	3	100.0%	Normal	1.000	-	0.000
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
1,1,1-Trichloroethane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
1,1,2,2-Tetrachloroethane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
1,1,2-Trichloroethane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
1,1-Dichloroethane	µg/L	22	50.0%	Non-normal	0.000	0.001	0.814
1,1-Dichloroethene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
1,2,3-Trichloropropane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.595
1,2-Dibromo-3-chloropropane	µg/L	13	100.0%	Non-normal	0.001	0.003	0.615
1,2-Dibromoethane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
1,2-Dichlorobenzene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
1,2-Dichloroethane	µg/L	22	95.5%	Non-normal	0.000	0.000	0.233
1,2-Dichloropropane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
1,4-Dichlorobenzene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
2-Butanone	µg/L	4	100.0%	Non-normal	0.026	0.026	0.770
2-Hexanone	µg/L	22	100.0%	Non-normal	0.000	0.000	0.384
Acetone	µg/L	22	100.0%	Non-normal	0.000	0.000	0.359
Acrylonitrile	µg/L	22	100.0%	Non-normal	0.000	0.000	0.469
Benzene	µg/L	22	95.5%	Non-normal	0.000	0.000	0.266
Bromochloromethane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
Bromodichloromethane	µg/L	23	100.0%	Non-normal	0.000	0.000	0.317
Bromoform	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
Bromomethane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.384

Note: * - The number of sampling results must be in the range from 3 to 2000 inclusive, to test for Shapiro-Wilk Distribution .**

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Data Distribution Report-Background

Program: Alexander County Groundwater Monitoring **Site:** Closed Sanitary Ladfill

Page5 **Data Group:**None

Parameter	Unit	Size	%NDs	Best Fit Distribution	Normal p Value	Lognormal p Value	Coefficient Variation
Carbon disulfide	µg/L	22	95.5%	Non-normal	0.000	0.000	0.810
Carbon tetrachloride	µg/L	22	100.0%	Non-normal	0.000	0.000	0.476
Chlorobenzene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
Chlorodibromomethane	µg/L	20	100.0%	Non-normal	0.000	0.000	0.234
Chloroethane	µg/L	22	90.9%	Non-normal	0.000	0.000	0.415
Chloroform	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
Chloromethane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.384
cis-1,2-Dichloroethene	µg/L	22	95.5%	Non-normal	0.000	0.000	0.342
cis-1,3-Dichloropropene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.476
Dibromomethane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.476
Ethyl benzene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
Ethyl methacrylate	µg/L	4	100.0%	Non-normal	0.026	0.026	0.770
m/p-Xylene	µg/L	2	50.0%	***	-	-	0.283
Methyl ethyl ketone	µg/L	20	100.0%	Non-normal	0.000	0.000	0.210
Methyl Iodide	µg/L	22	100.0%	Non-normal	0.000	0.000	0.476
Methyl isobutyl ketone	µg/L	22	100.0%	Non-normal	0.000	0.000	0.532
Methylene chloride	µg/L	22	100.0%	Non-normal	0.000	0.000	0.109
Styrene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.476
Tetrachloroethylene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
Toluene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
trans-1,2-Dichloroethene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
trans-1,3-Dichloropropene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.476
trans-1,4-Dichloro-2-butene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.854
Trichloroethylene	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
Trichlorofluoromethane	µg/L	22	100.0%	Non-normal	0.000	0.000	0.294
Vinyl acetate	µg/L	22	100.0%	Non-normal	0.000	0.000	0.419
Vinyl chloride	µg/L	22	100.0%	Non-normal	0.000	0.000	0.336
Xylenes - Total	µg/L	22	95.5%	Non-normal	0.000	0.000	0.499

End of report

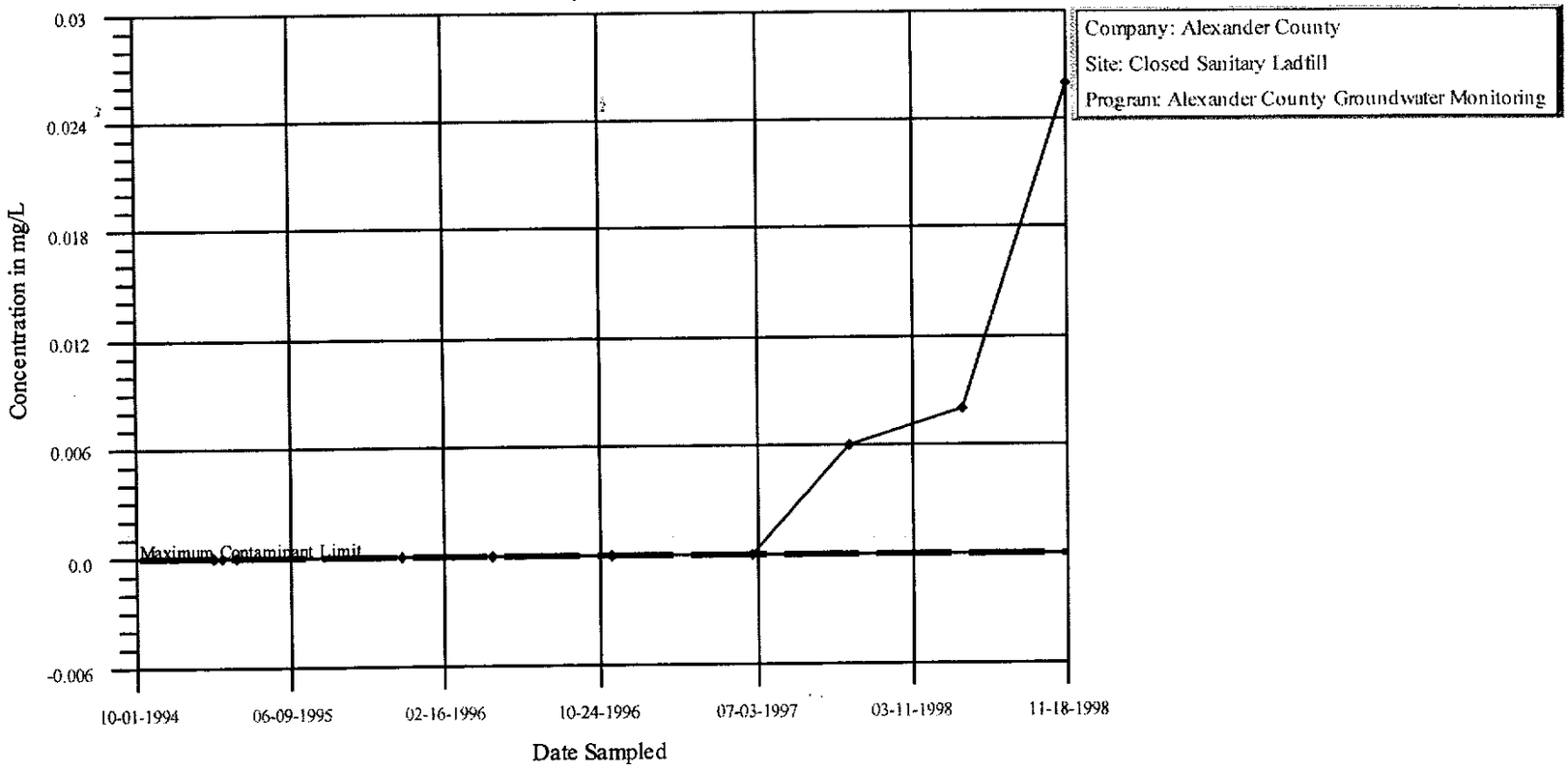
Note: *** - The number of sampling results must be in the range from 3 to 2000 inclusive, to test for Shapiro-Wilk Distribution .

Note:The statistics are replaced by the corresponding minimum variance unbiased estimates for the log normal distribution.

Time-Series Plots

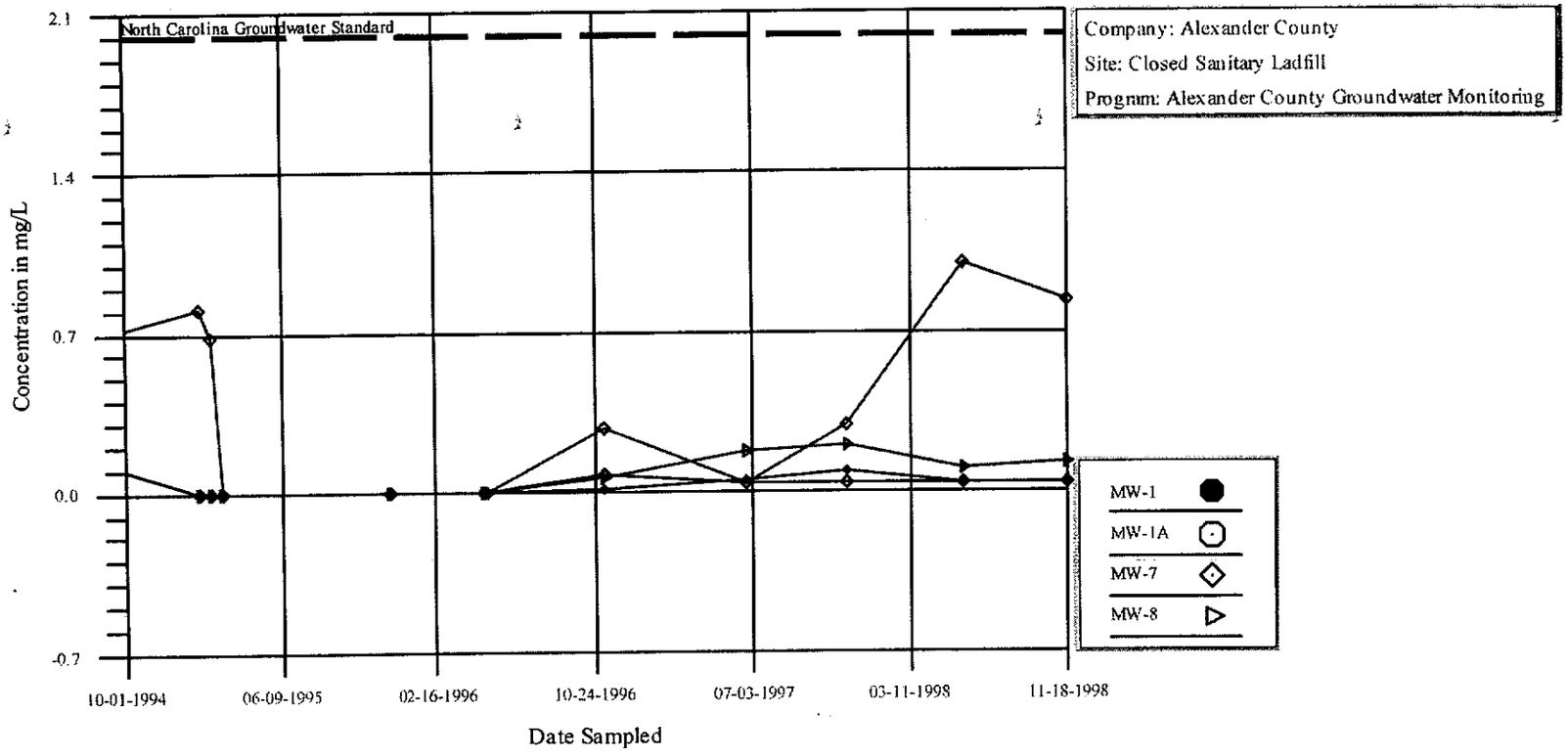
Time-Series Plot

Arsenic, MW-5



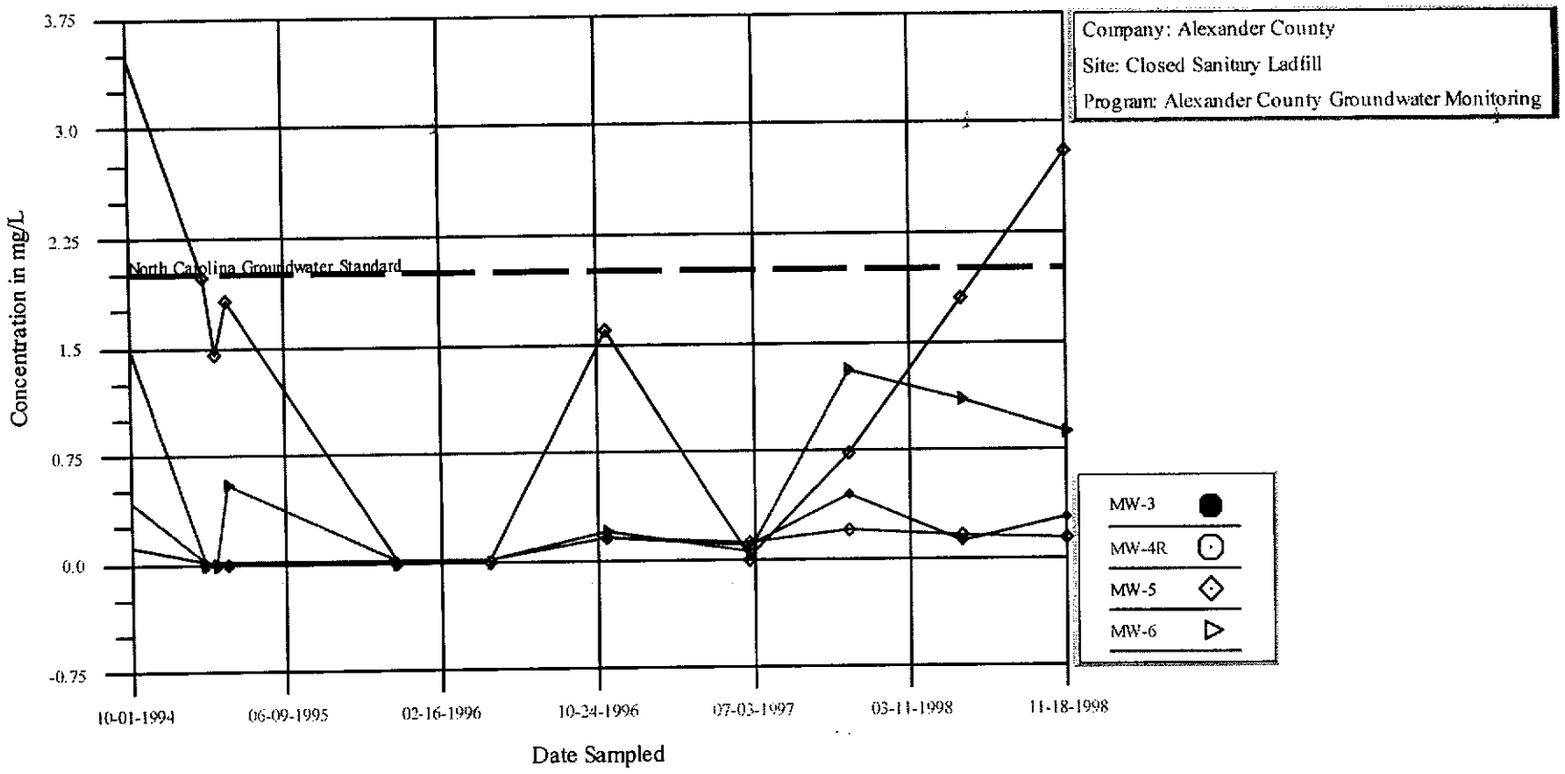
Time-Series Plot

Barium



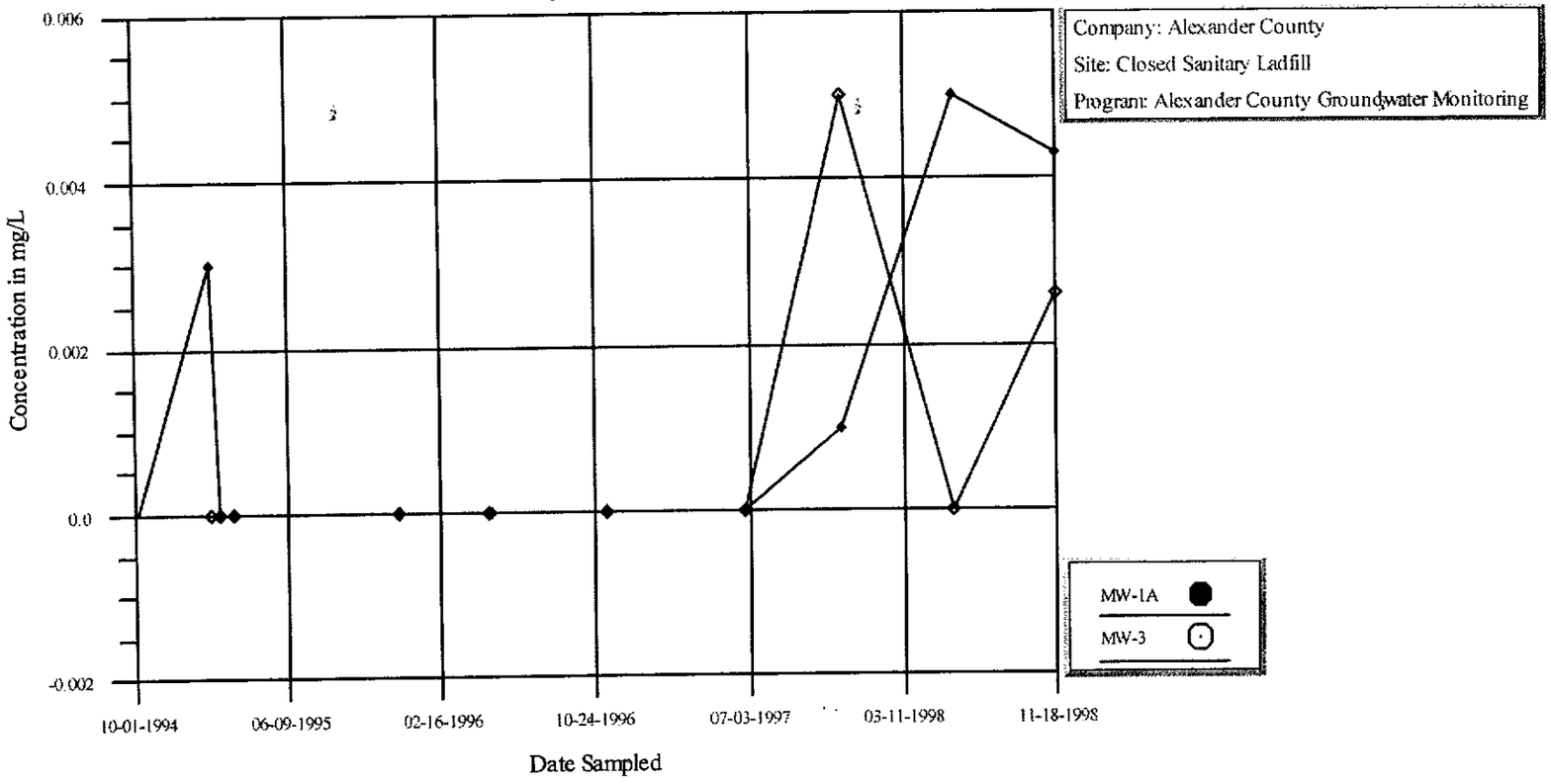
Time-Series Plot

Barium



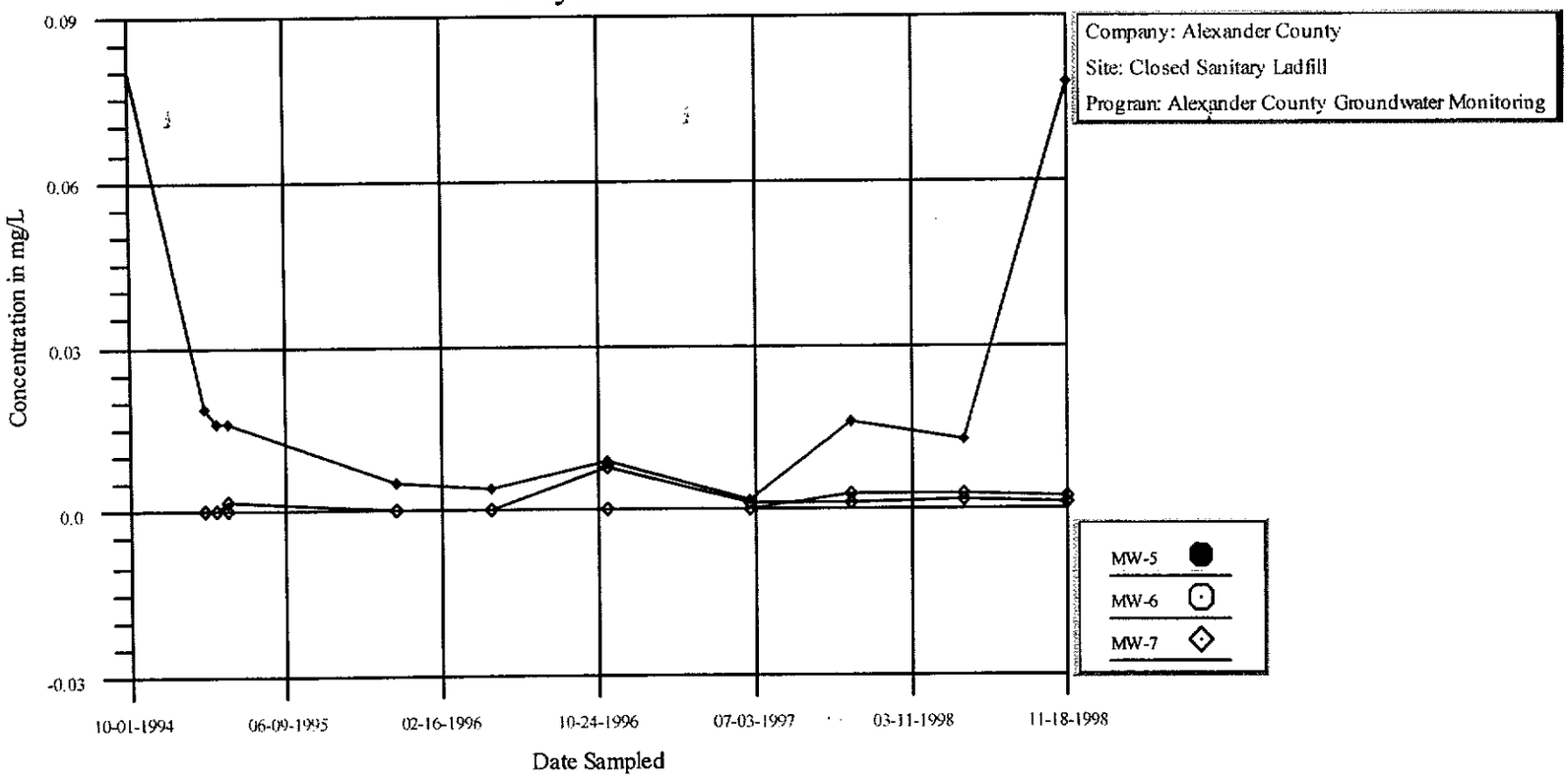
Time-Series Plot

Beryllium



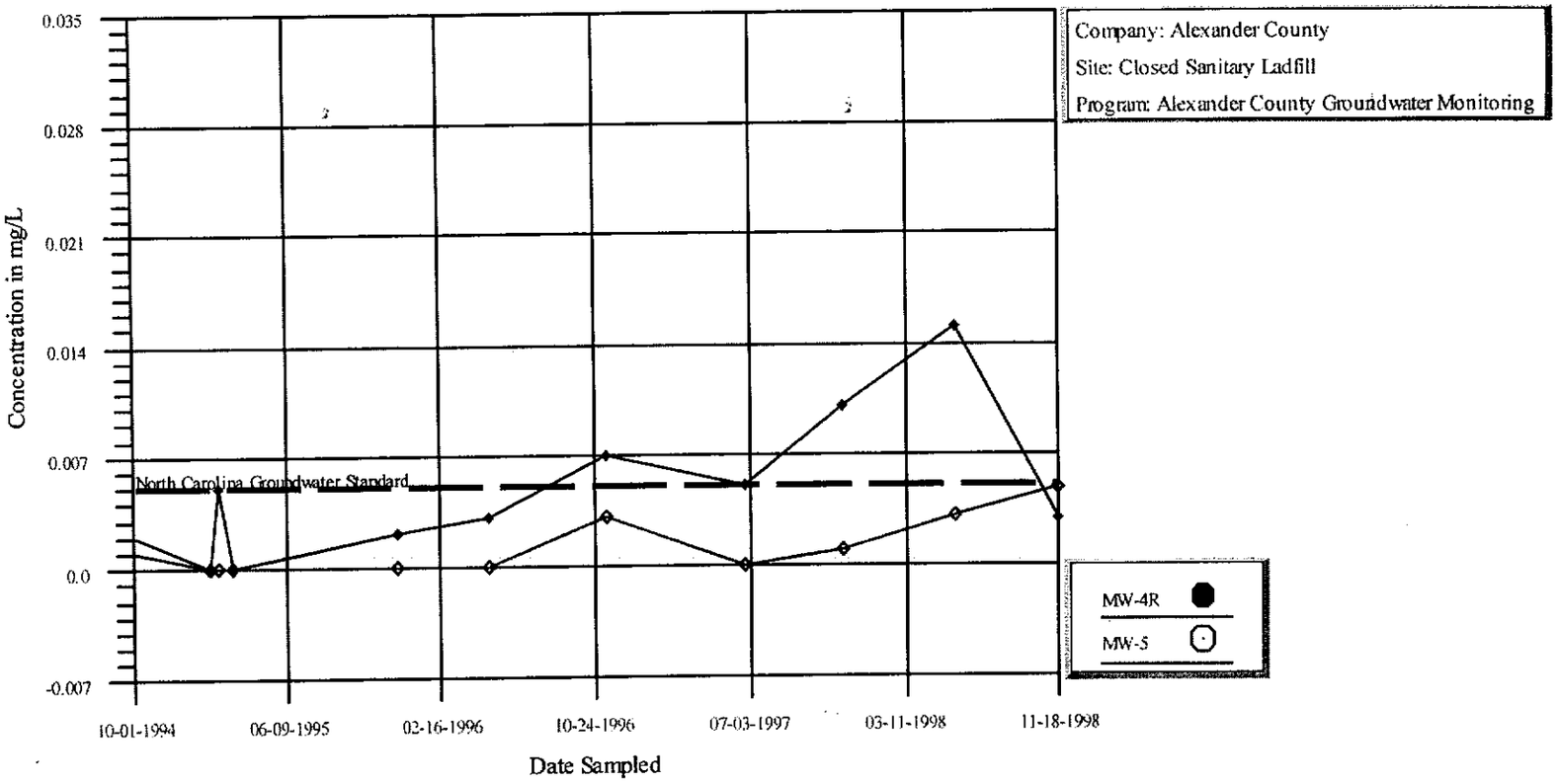
Time-Series Plot

Beryllium



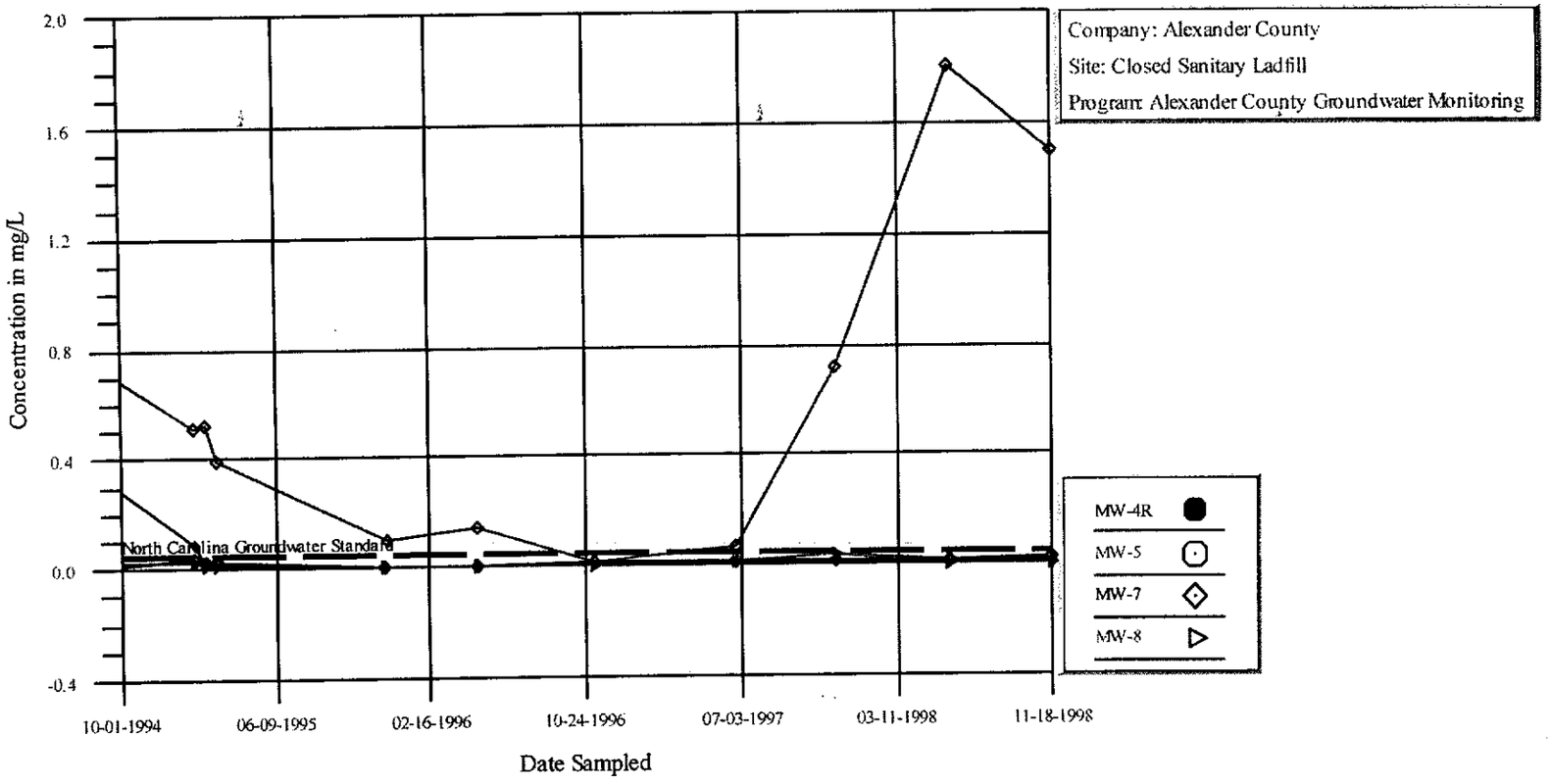
Time-Series Plot

Cadmium



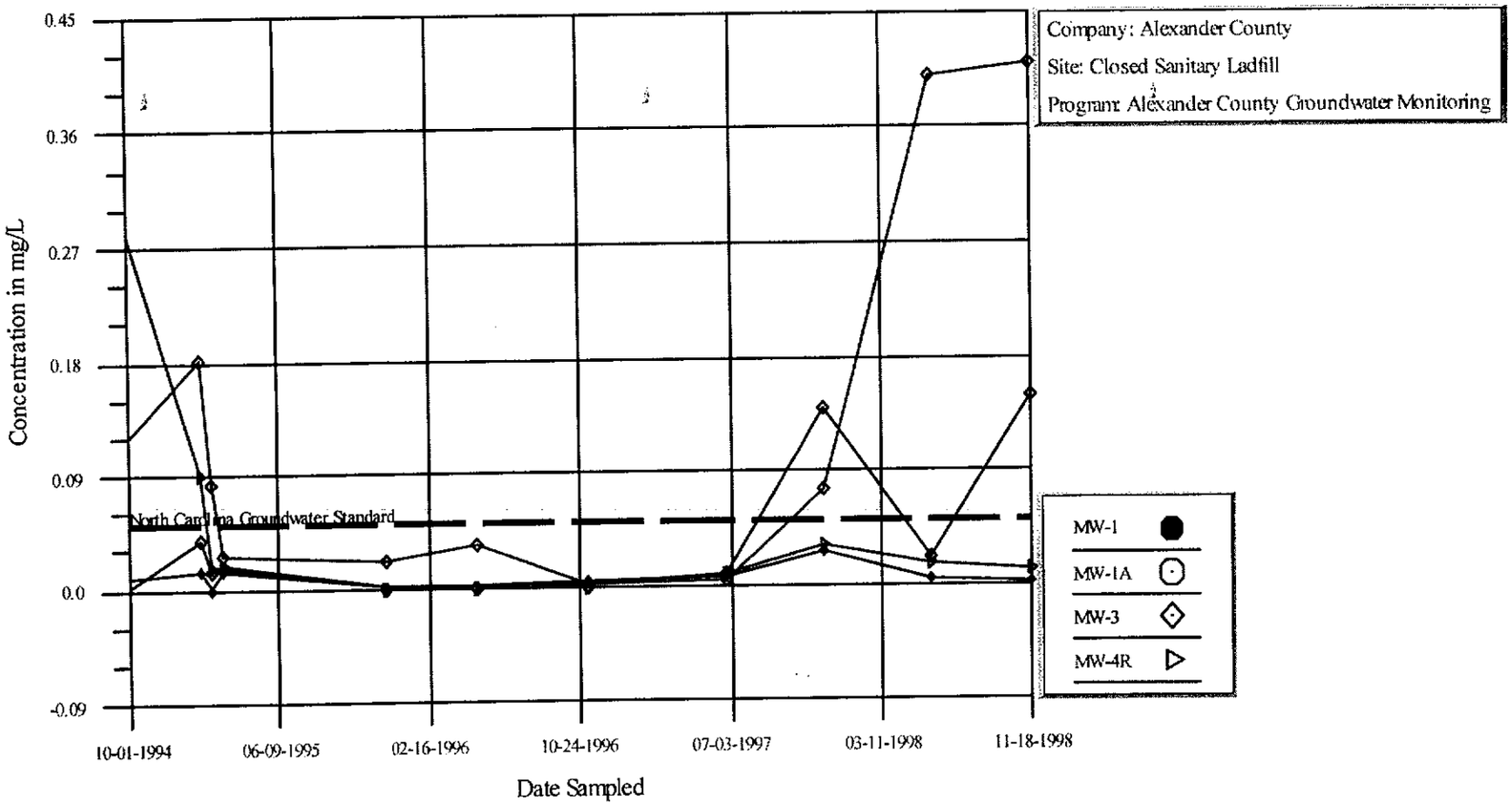
Time-Series Plot

Chromium



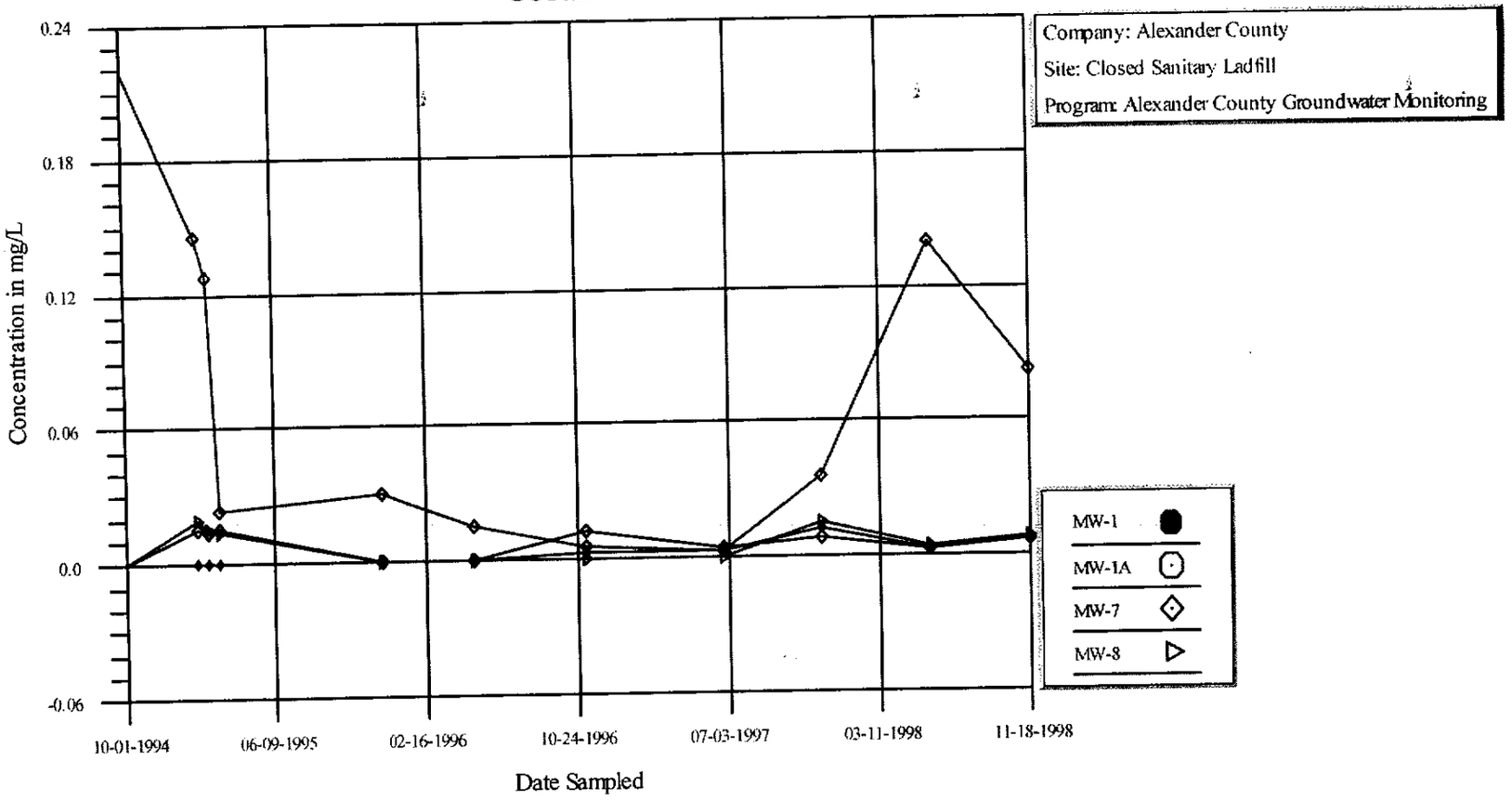
Time-Series Plot

Chromium



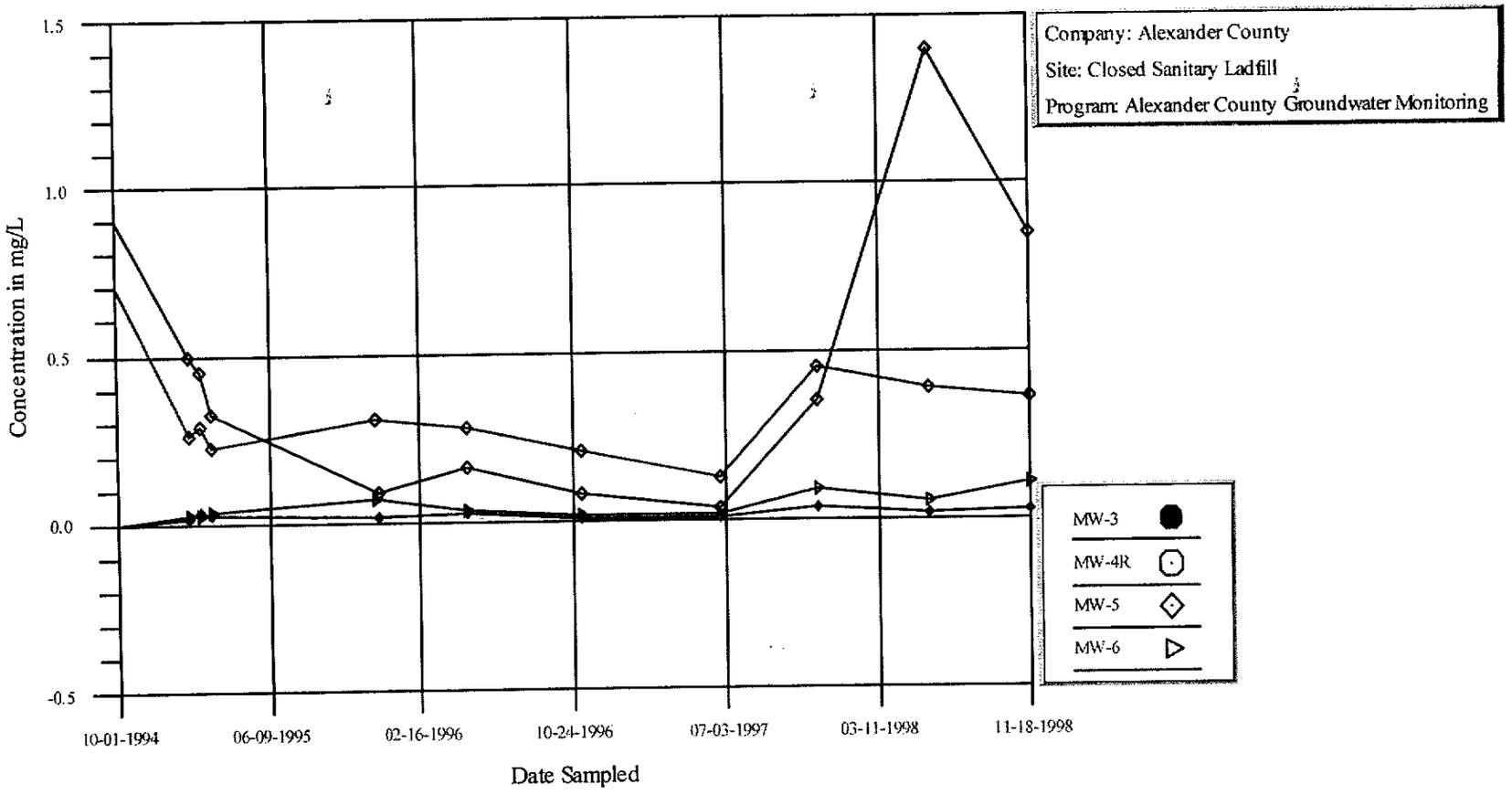
Time-Series Plot

Cobalt



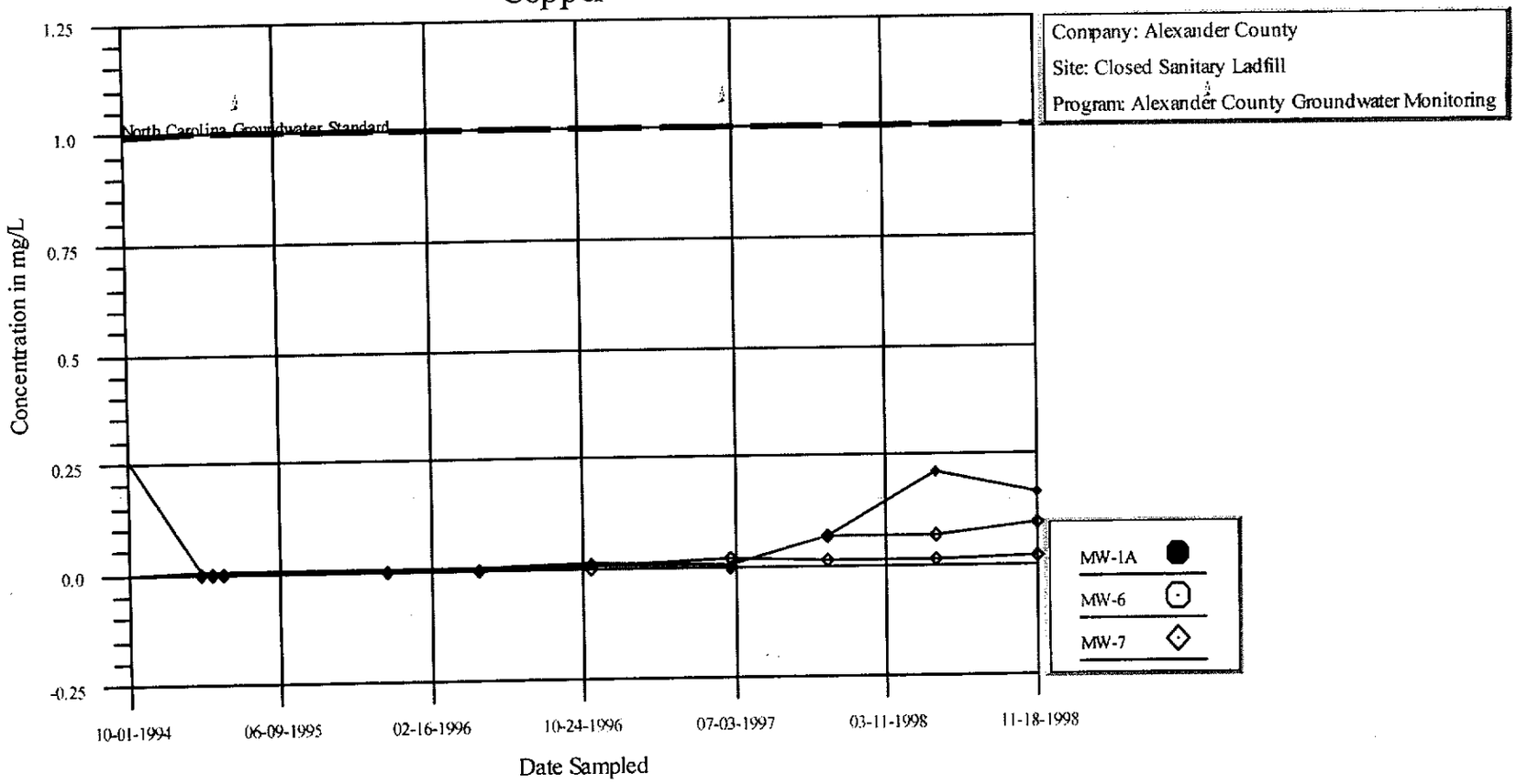
Time-Series Plot

Cobalt



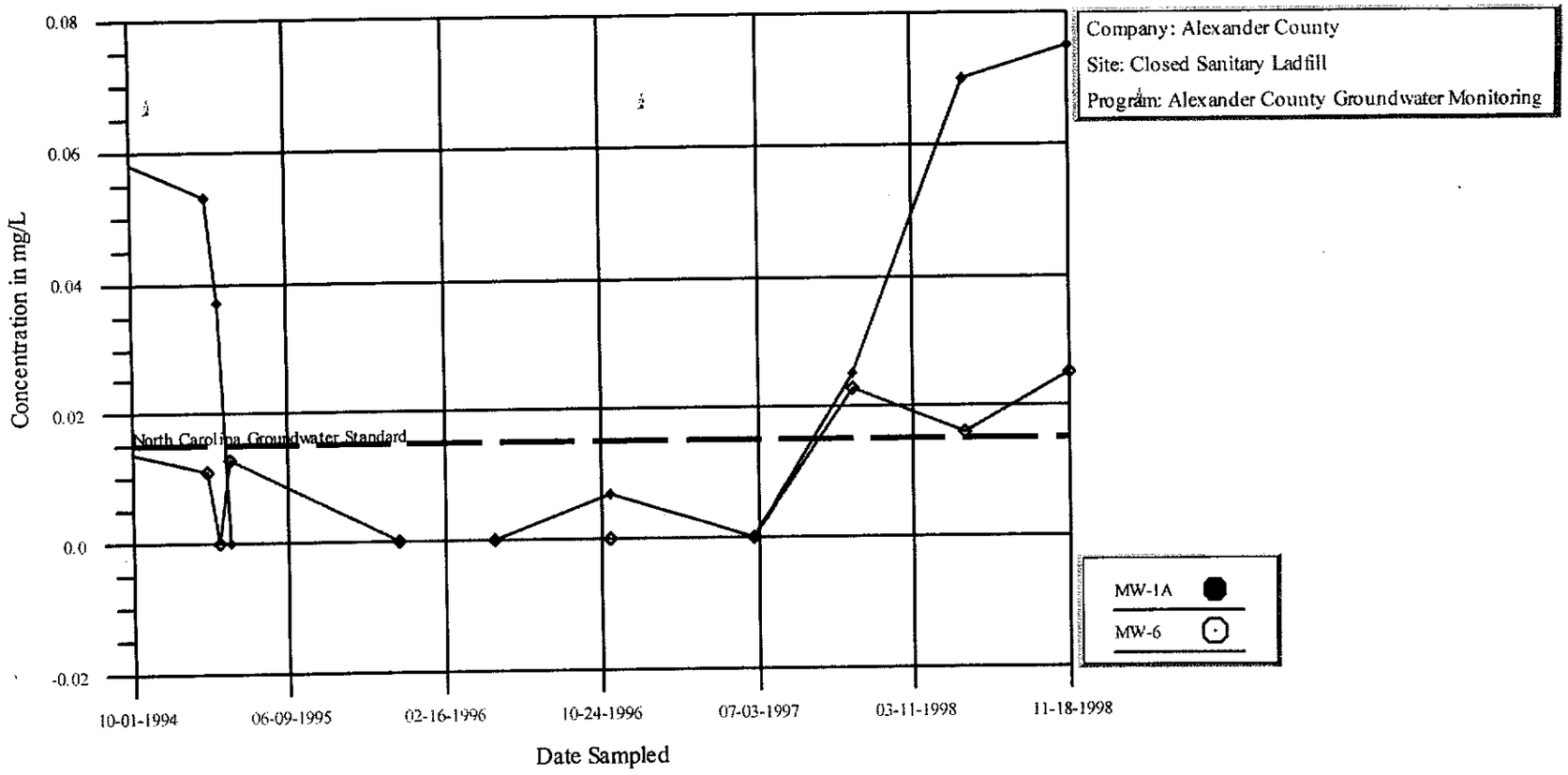
Time-Series Plot

Copper



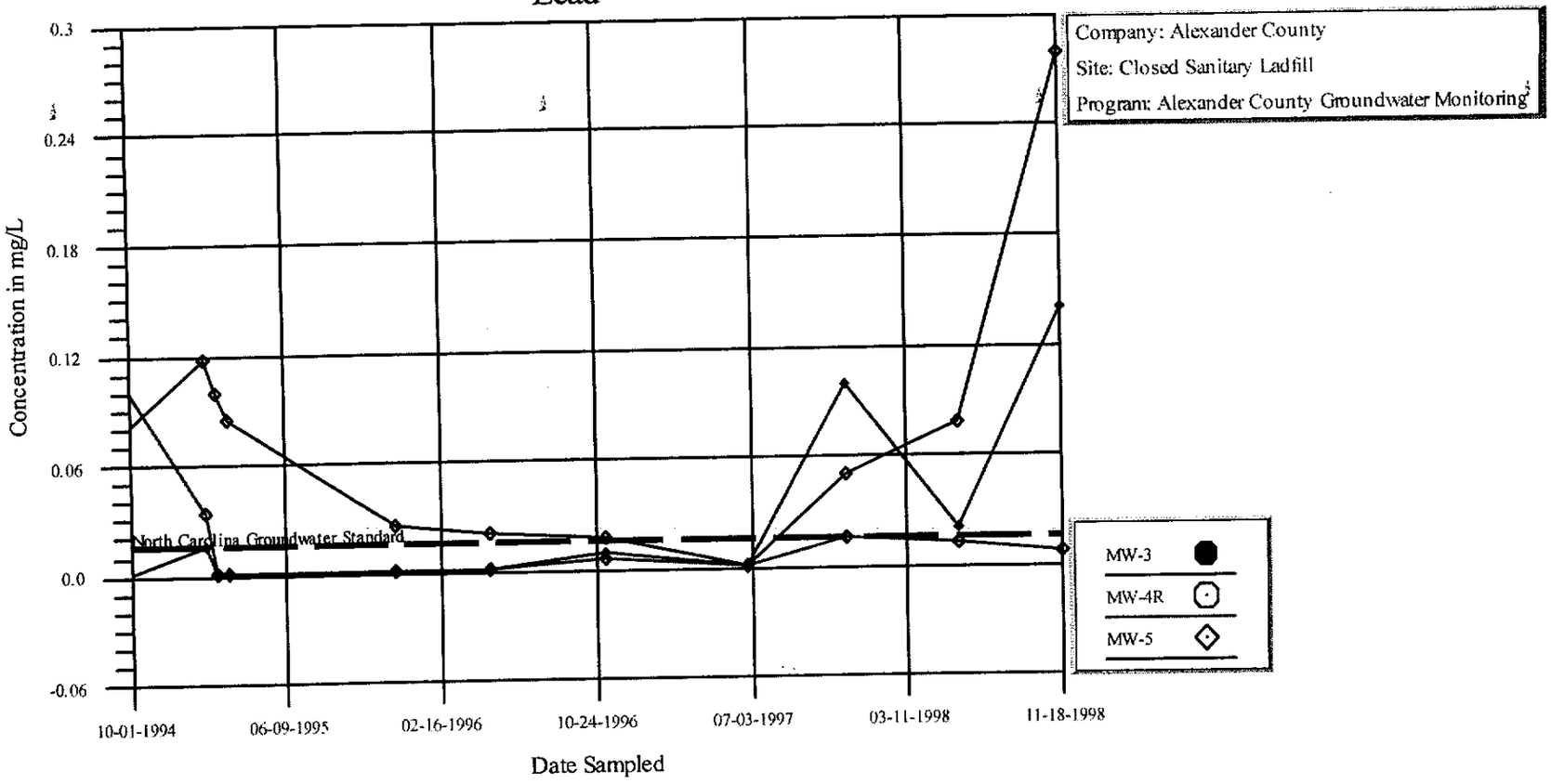
Time-Series Plot

Lead



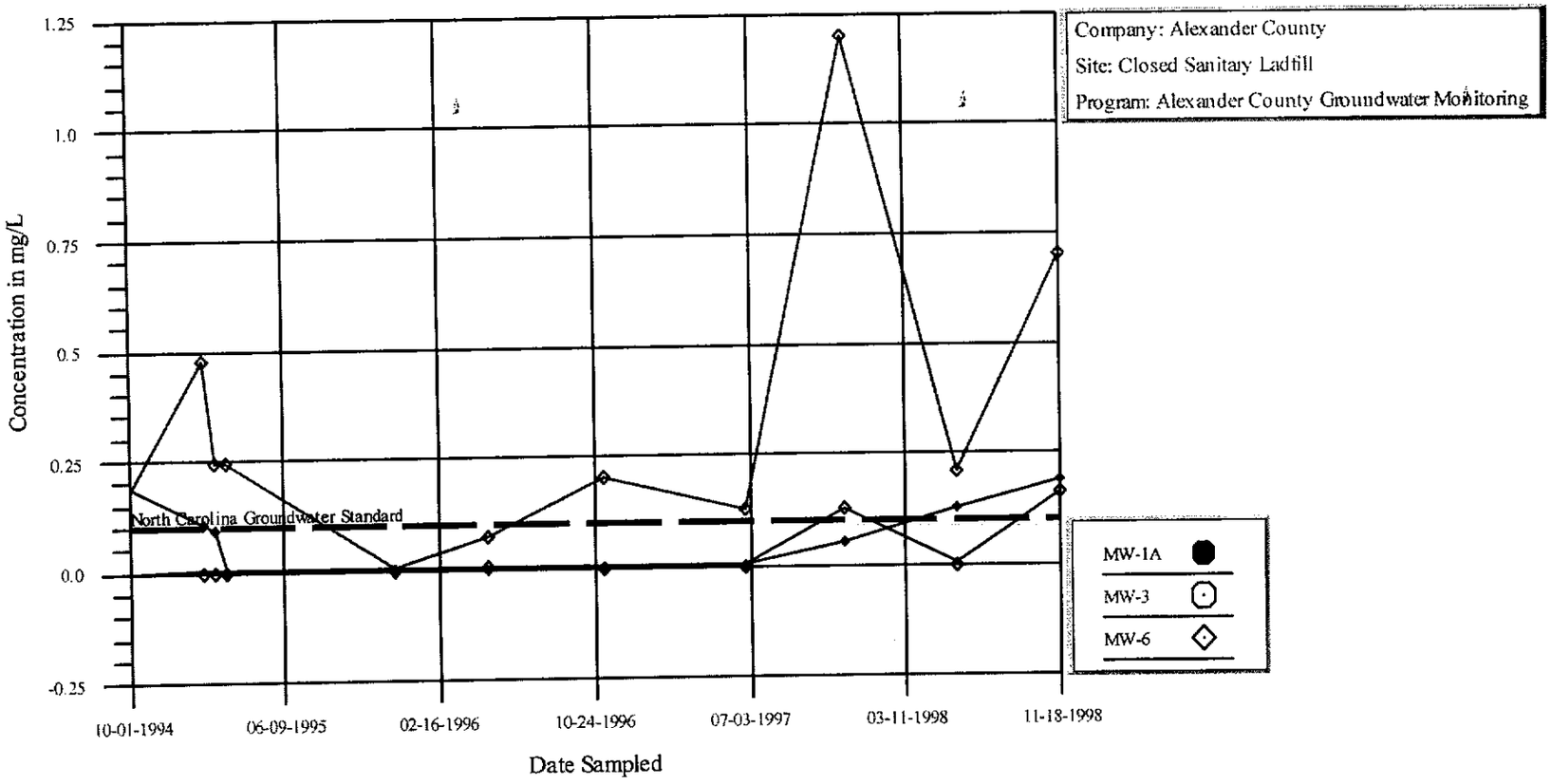
Time-Series Plot

Lead



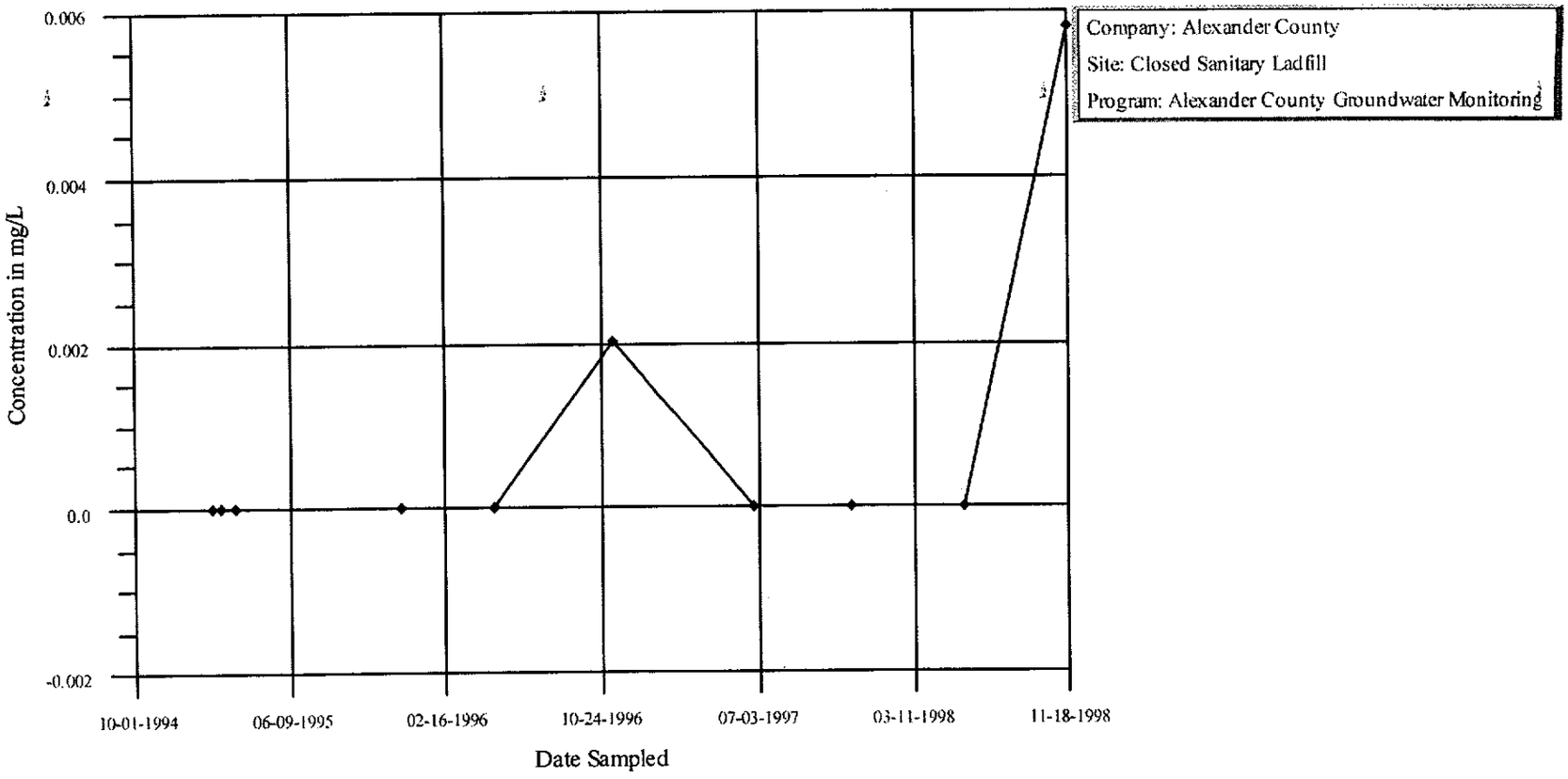
Time-Series Plot

Nickel



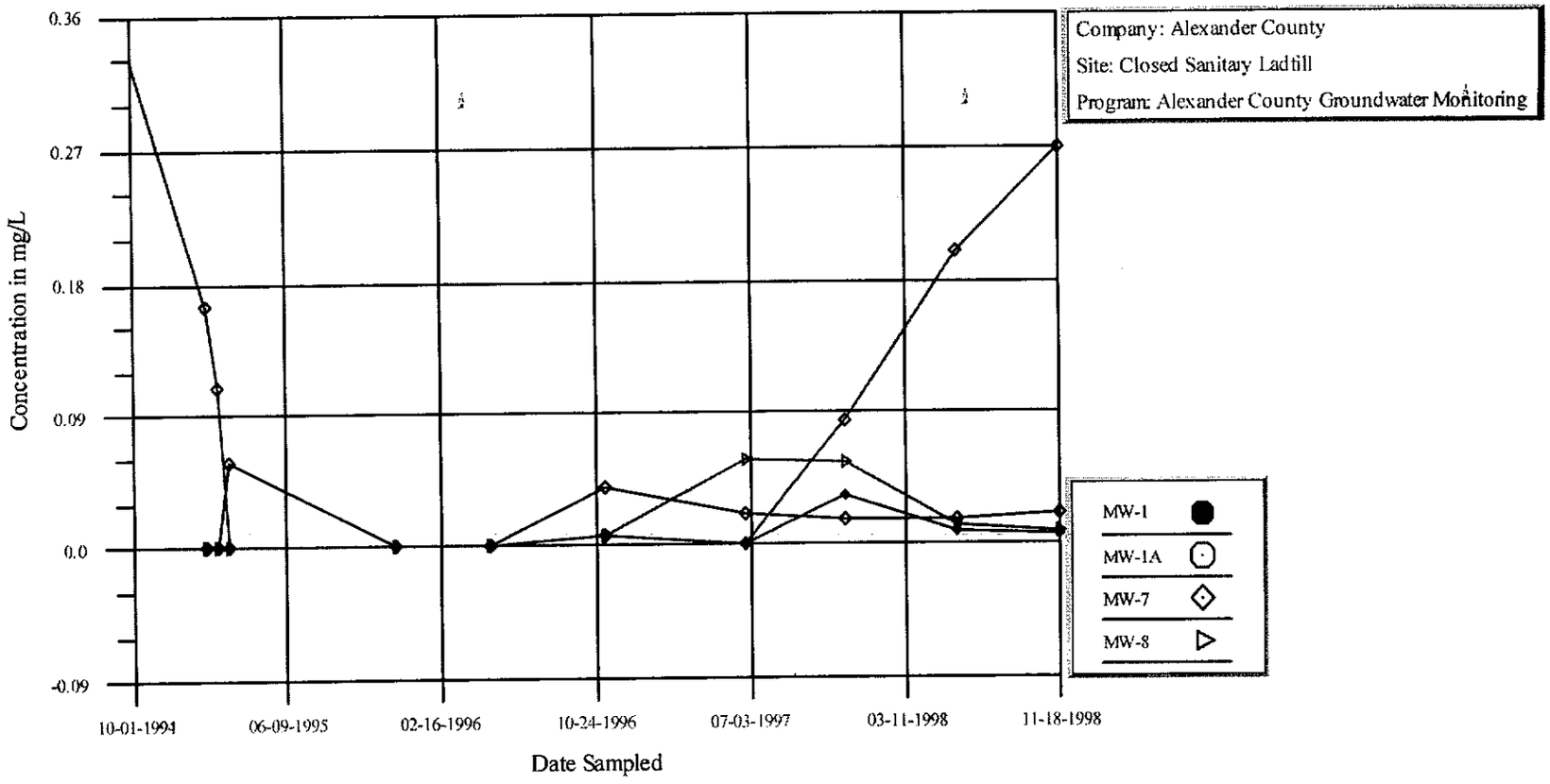
Time-Series Plot

Thallium, MW-5



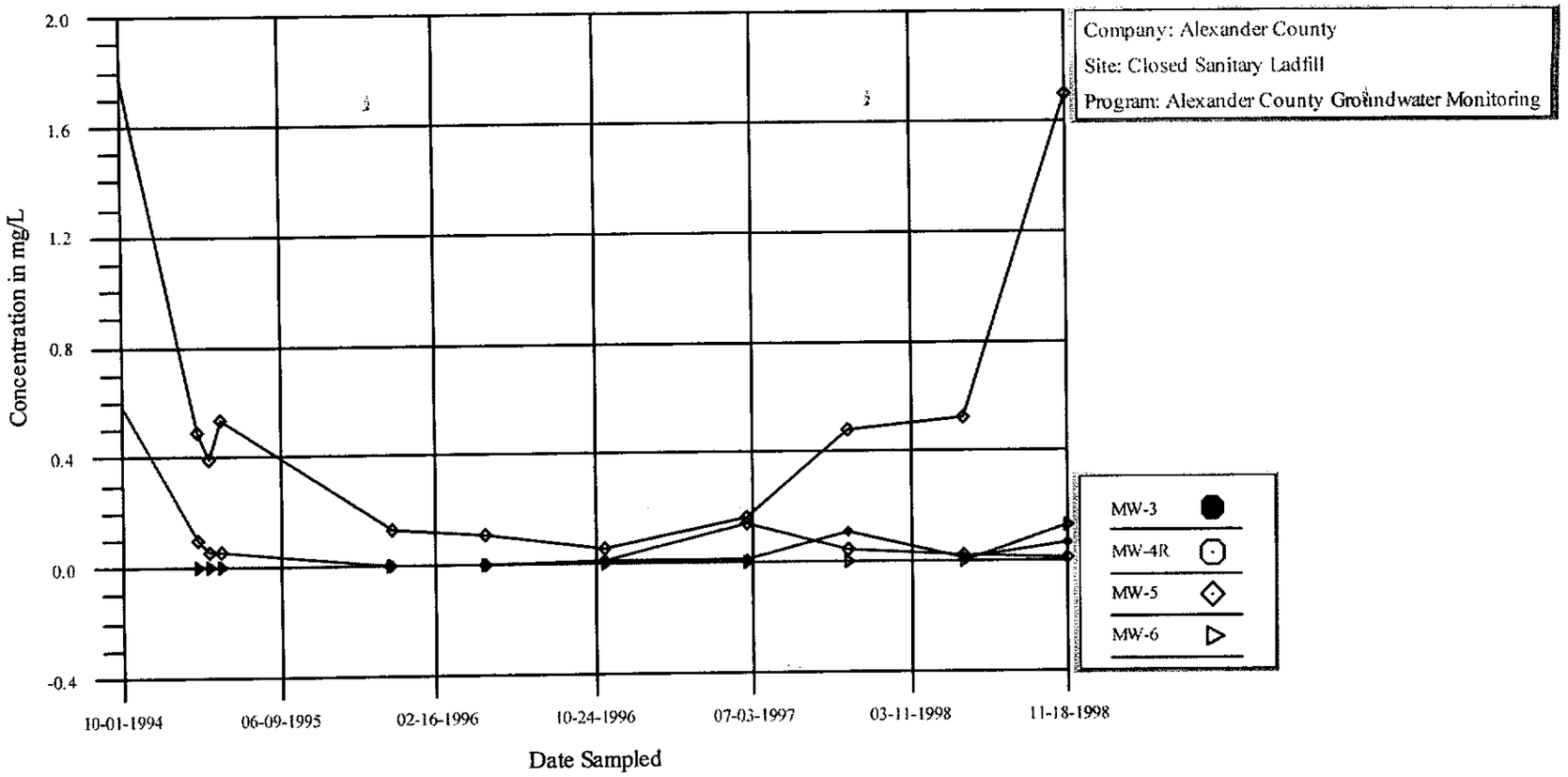
Time-Series Plot

Vanadium



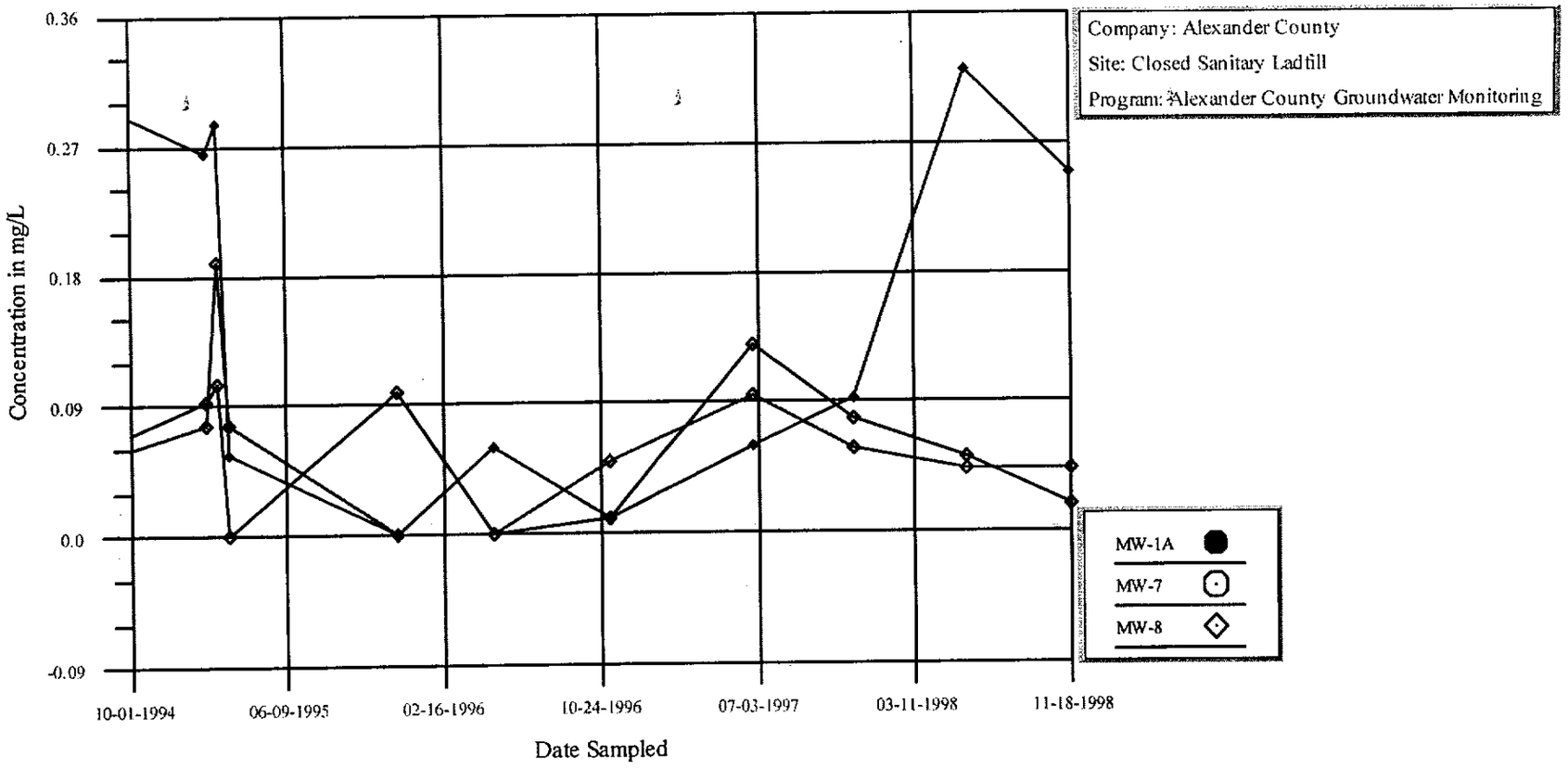
Time-Series Plot

Vanadium



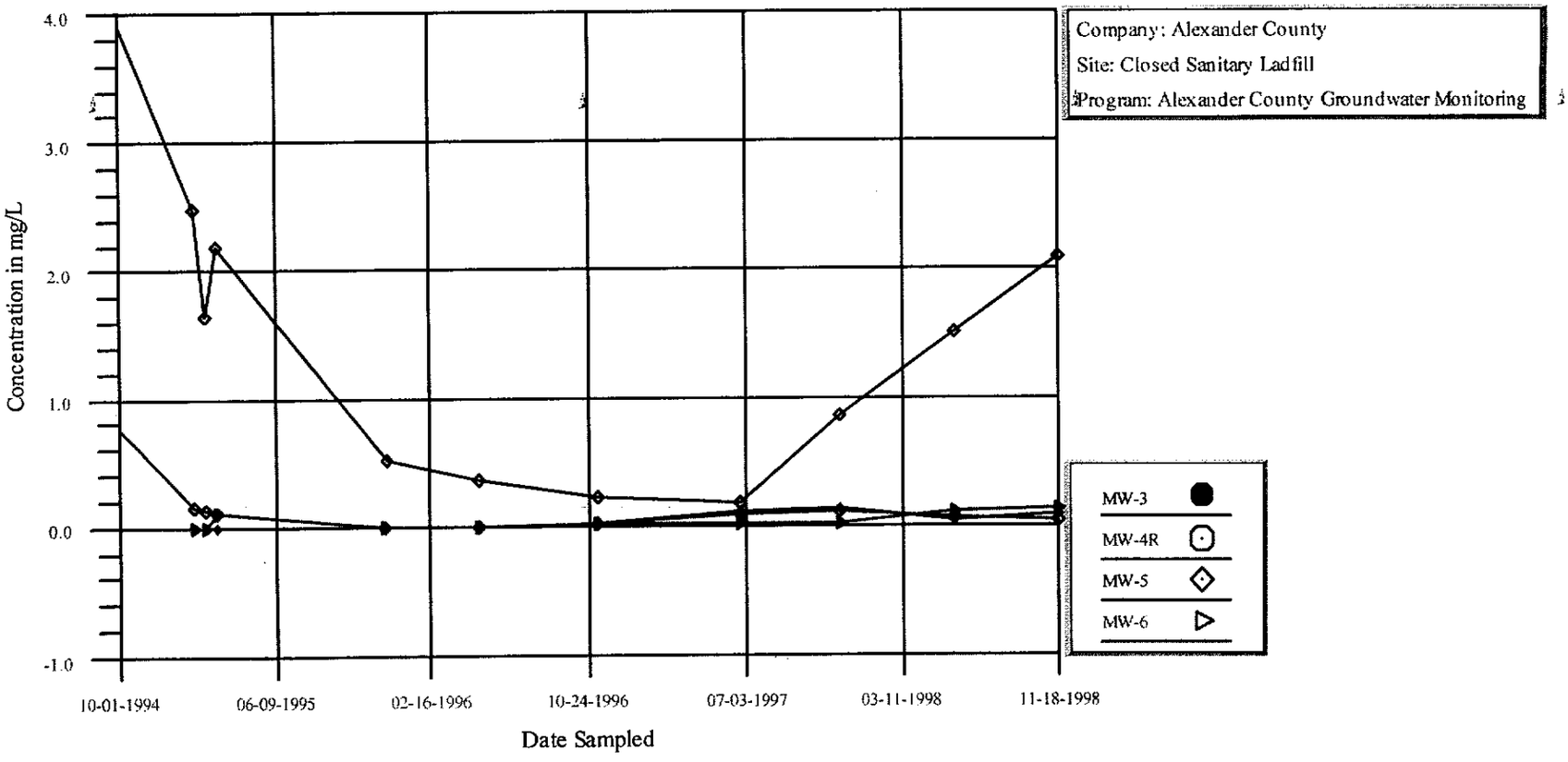
Time-Series Plot

Zinc



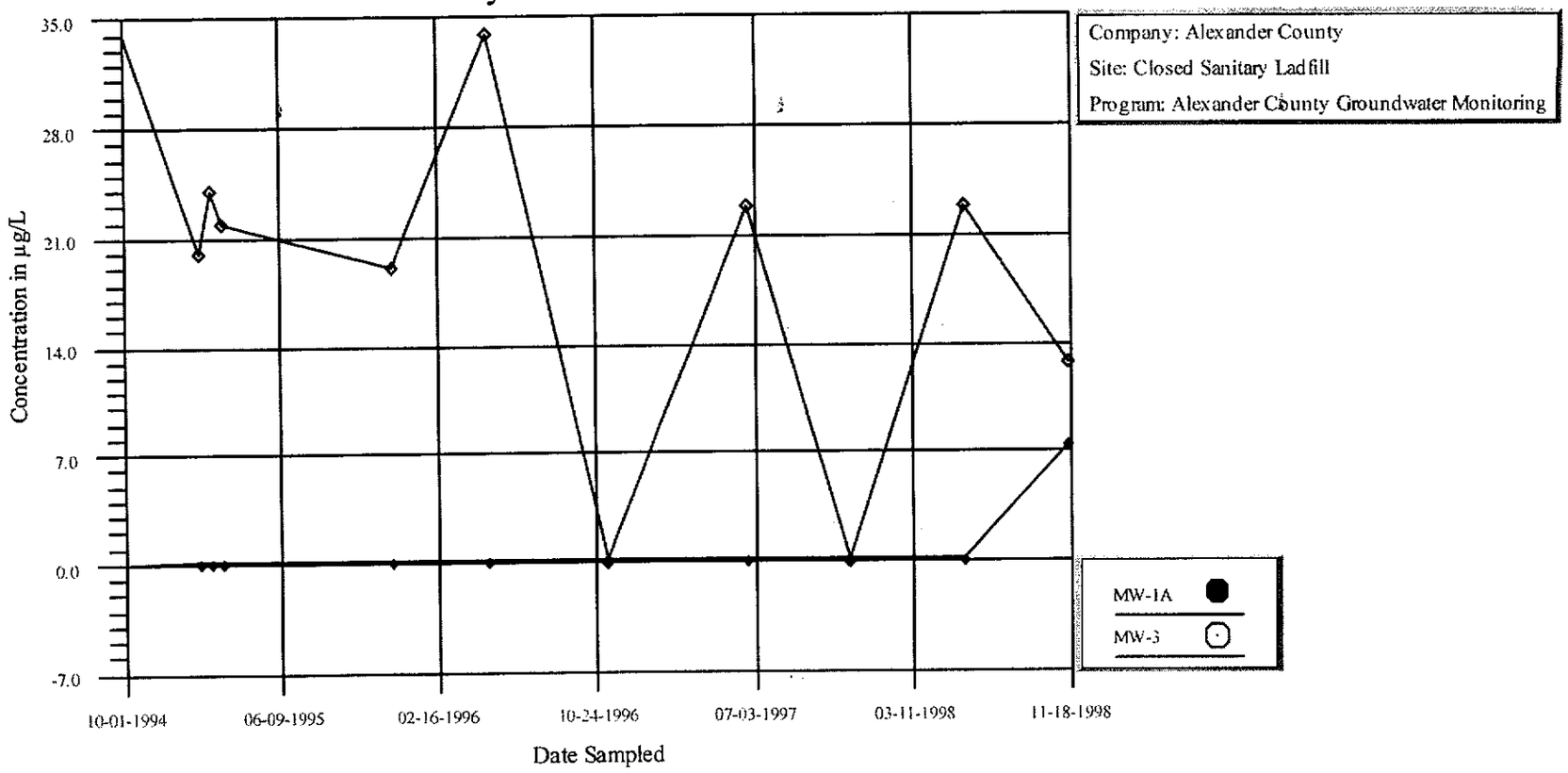
Time-Series Plot

Zinc



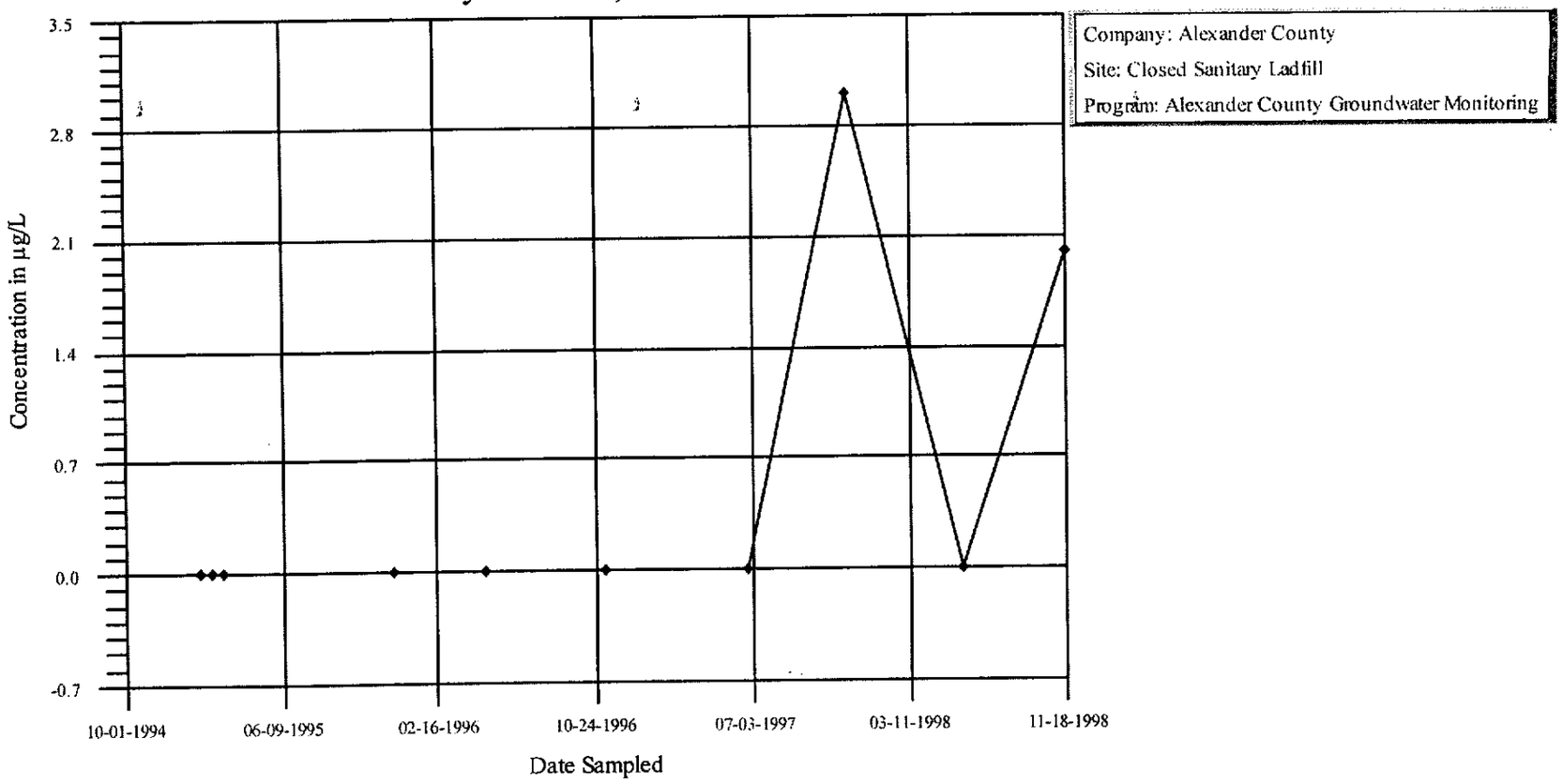
Time-Series Plot

Xylenes - Total



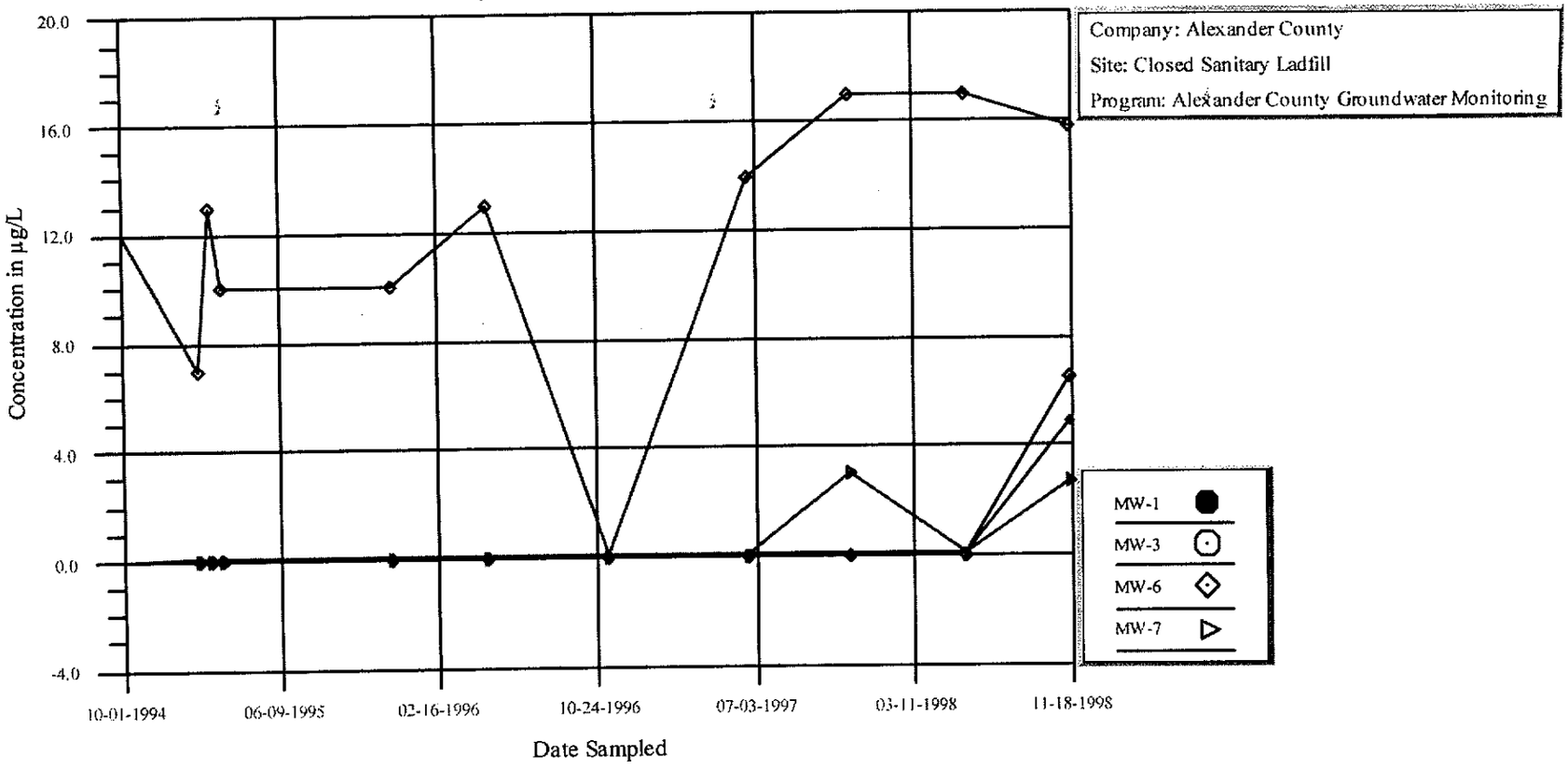
Time-Series Plot

Ethyl benzene, MW-3



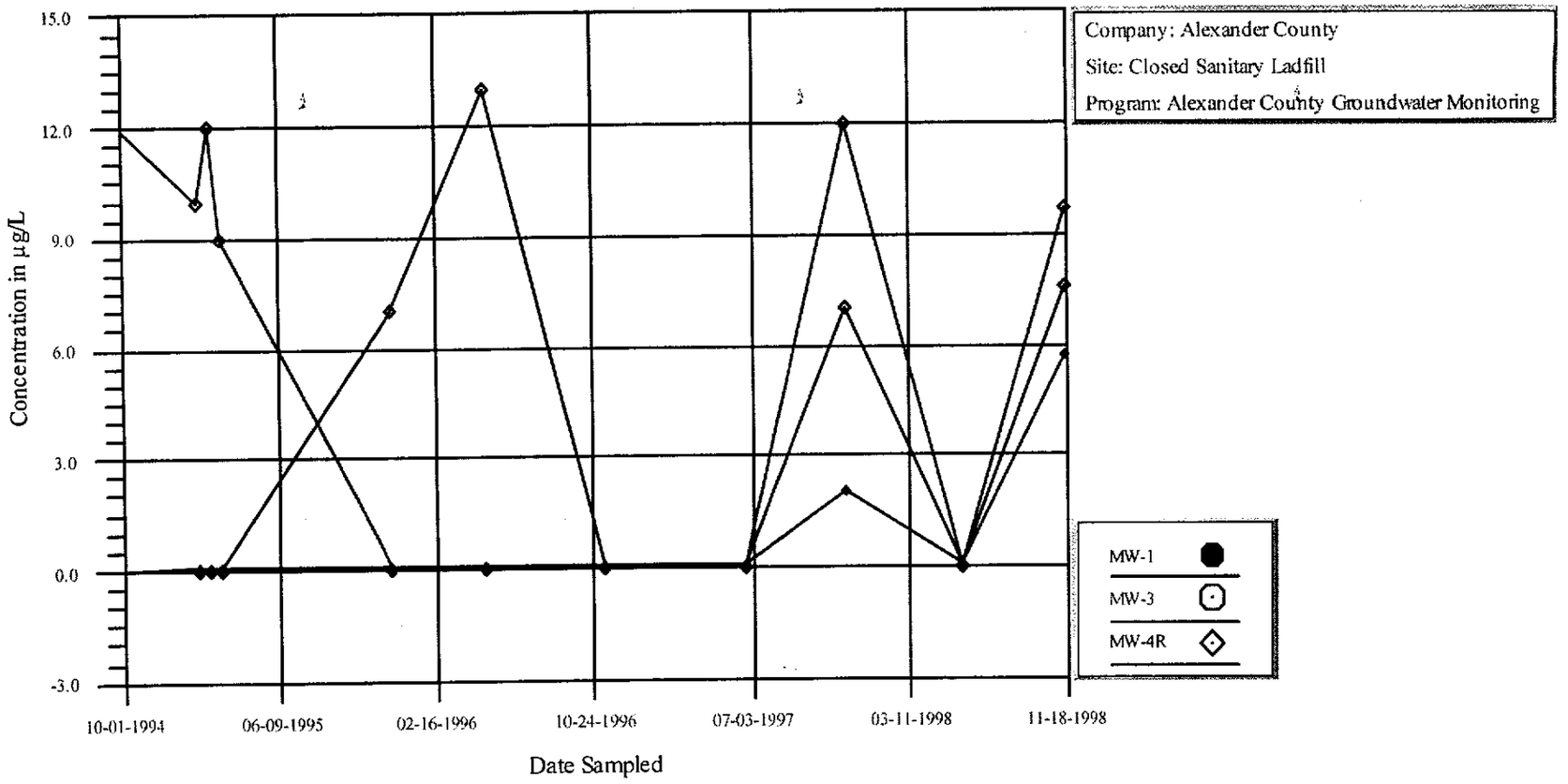
Time-Series Plot

cis-1,2-Dichloroethene



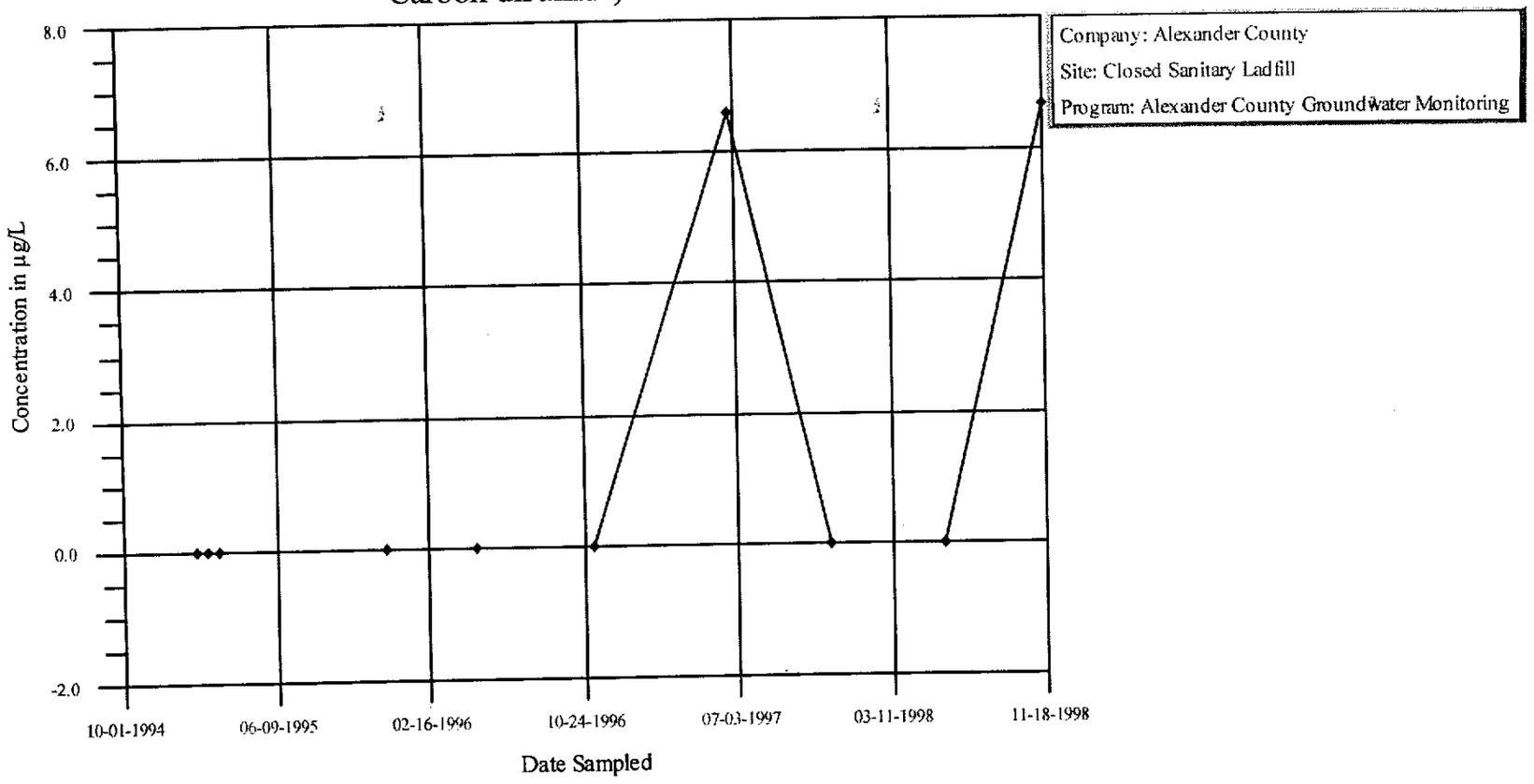
Time-Series Plot

Chloroethane



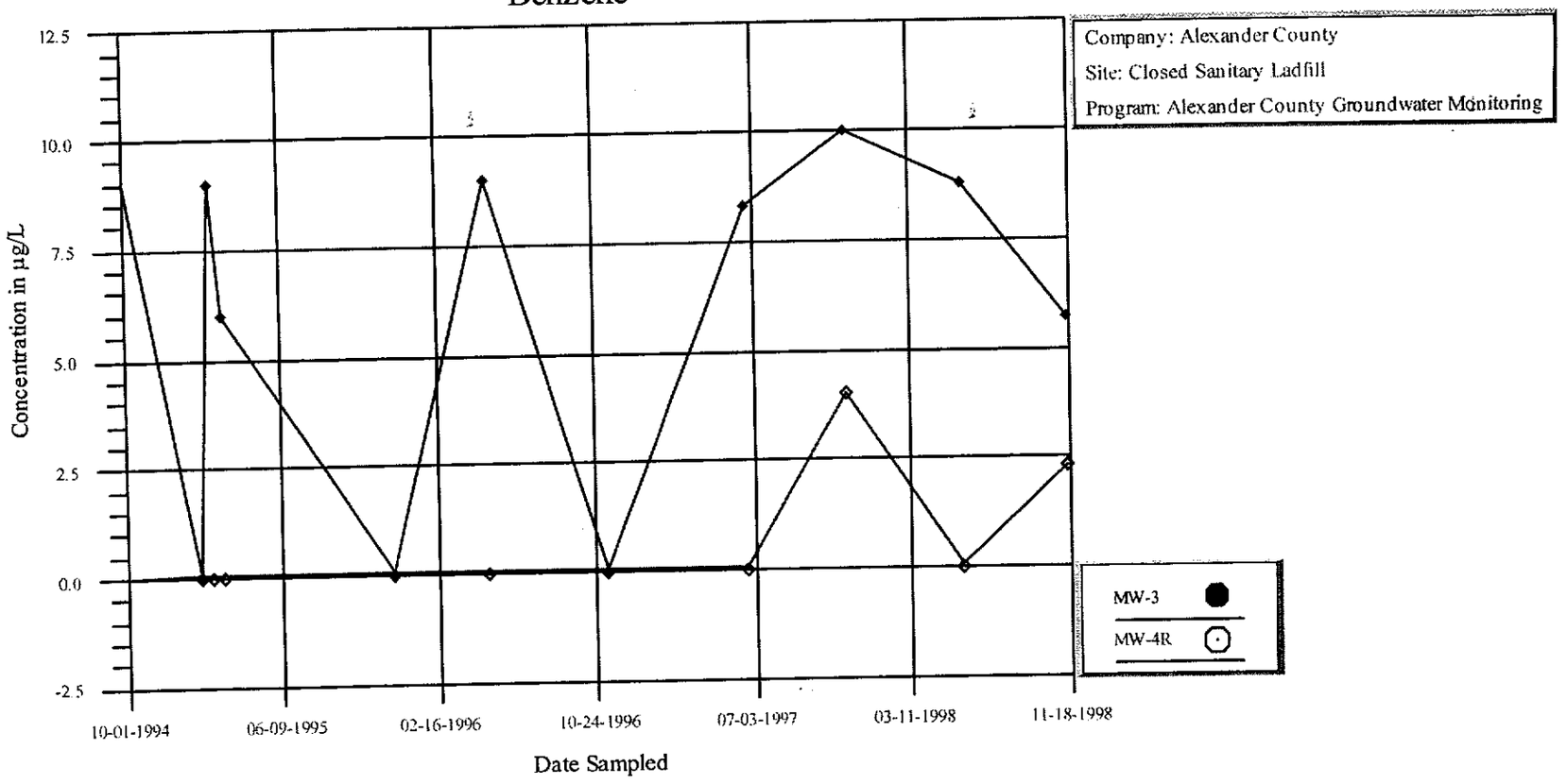
Time-Series Plot

Carbon disulfide, MW-3



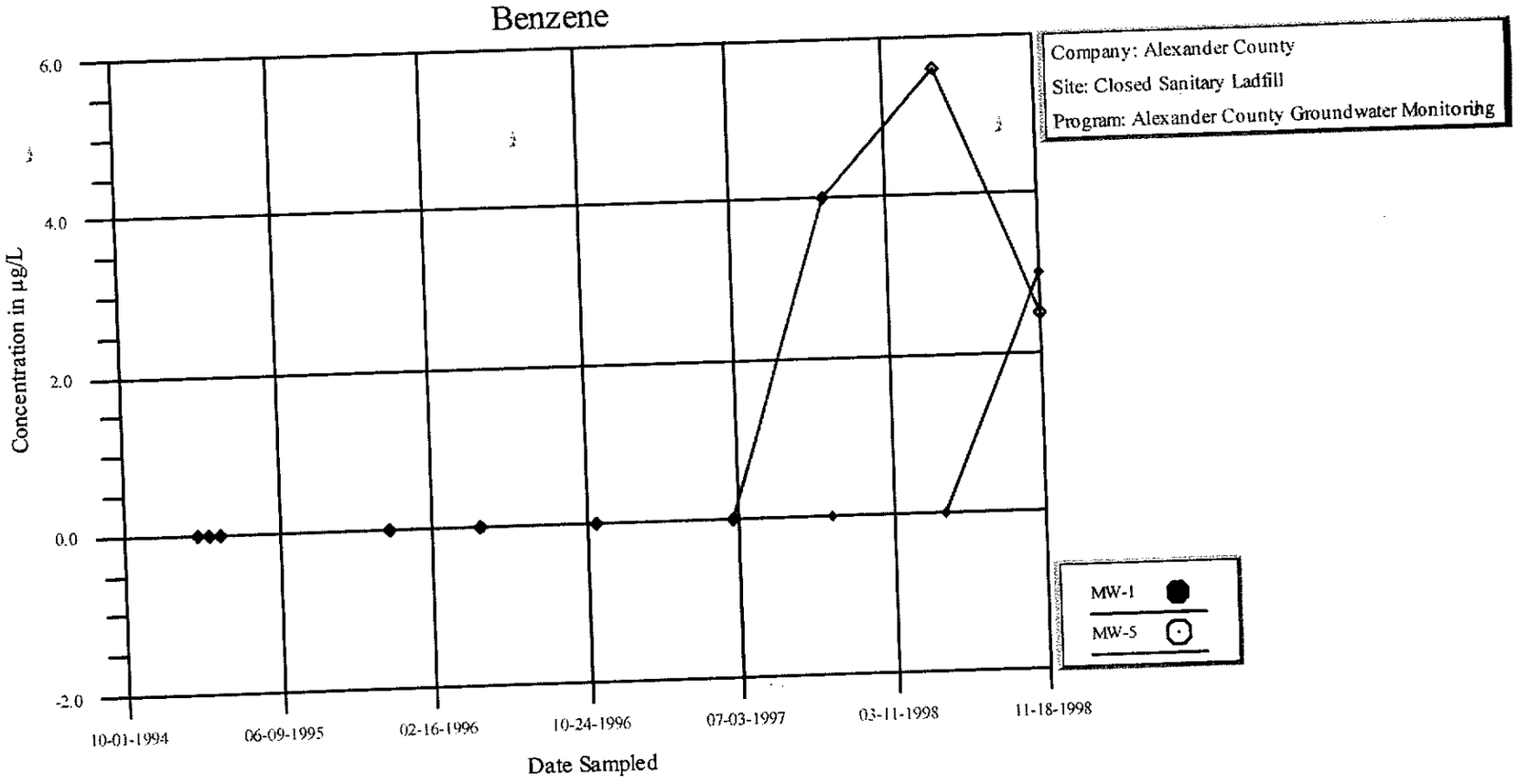
Time-Series Plot

Benzene



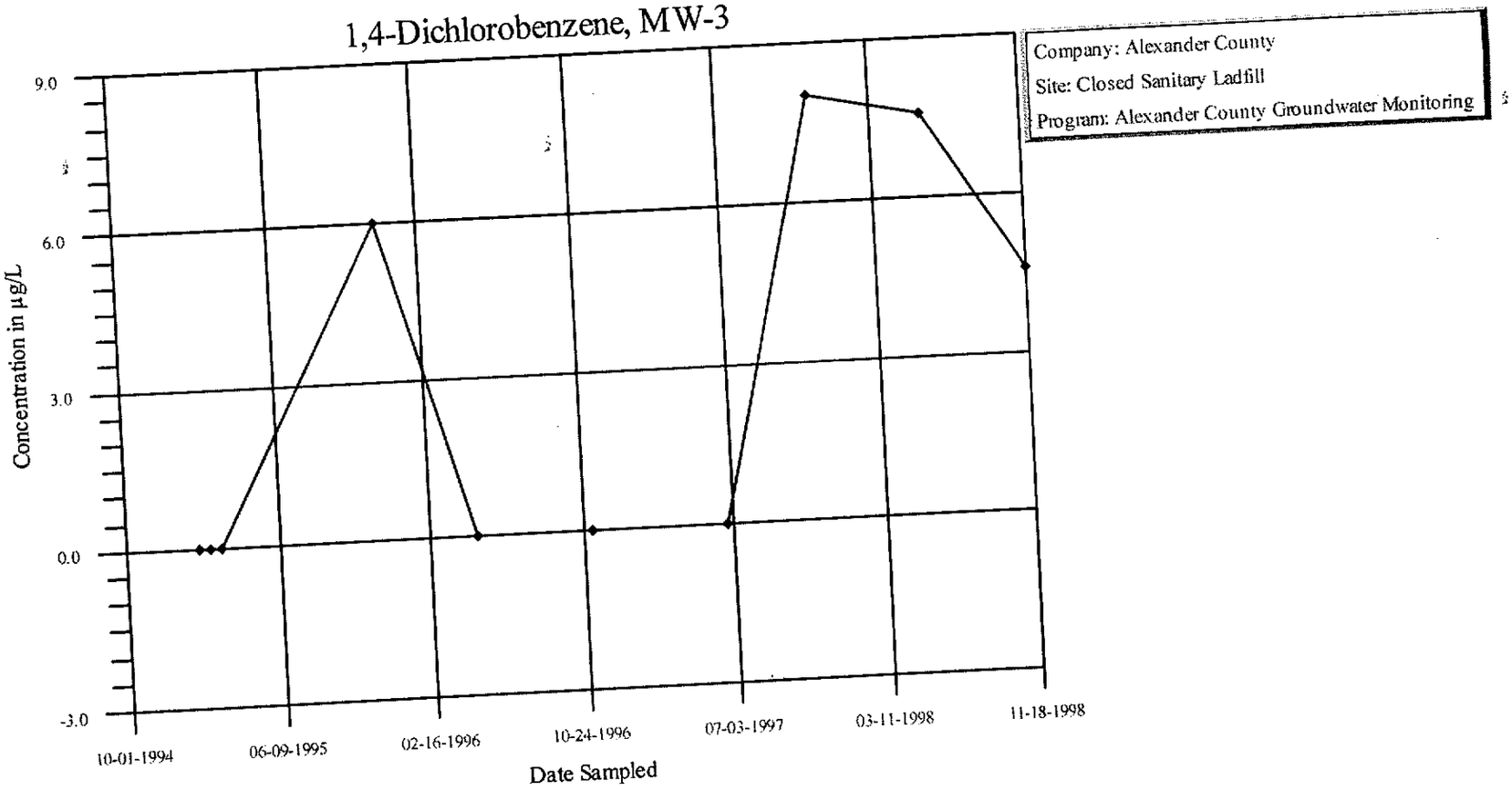
Time-Series Plot

Benzene



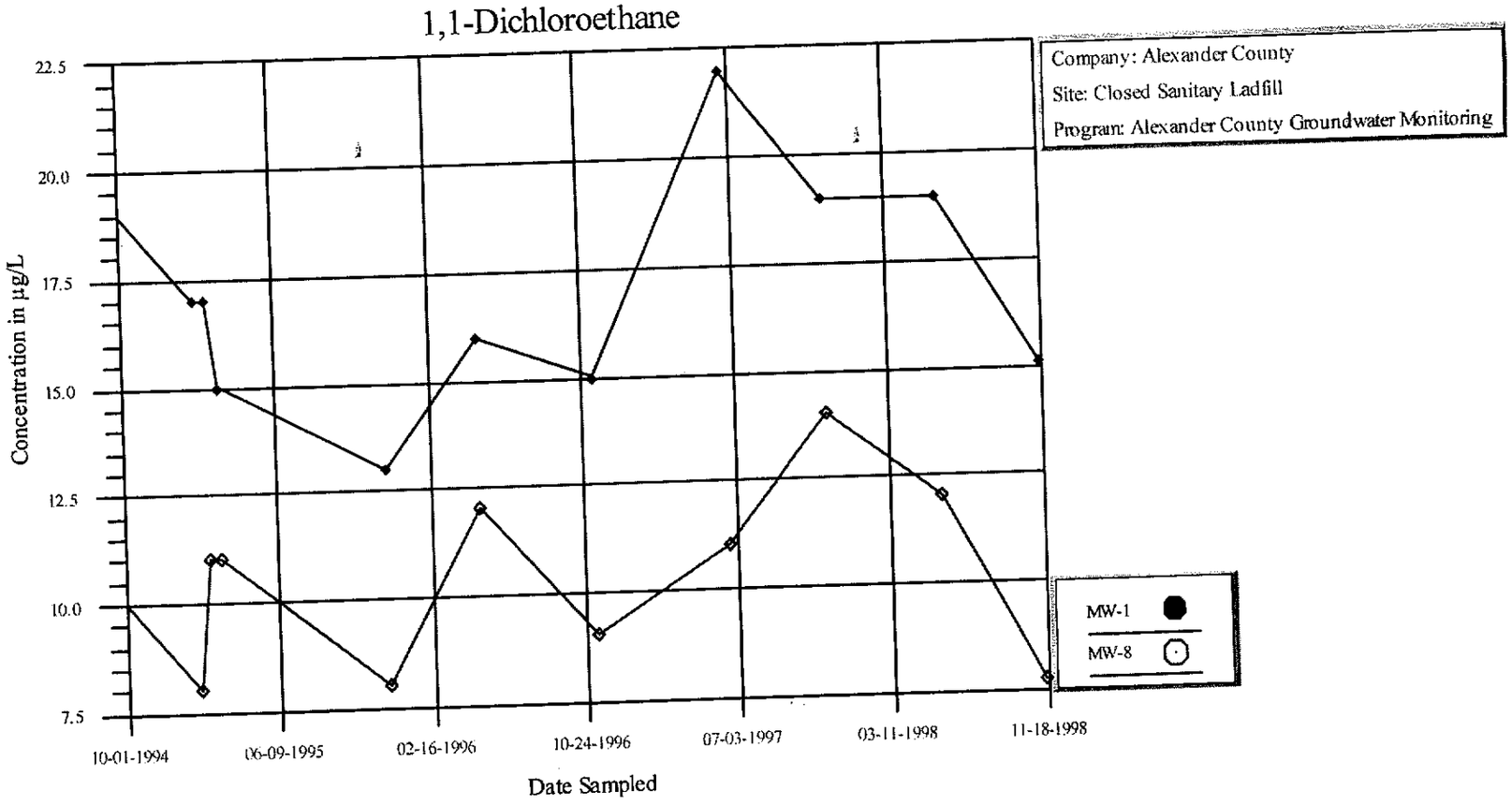
Time-Series Plot

1,4-Dichlorobenzene, MW-3



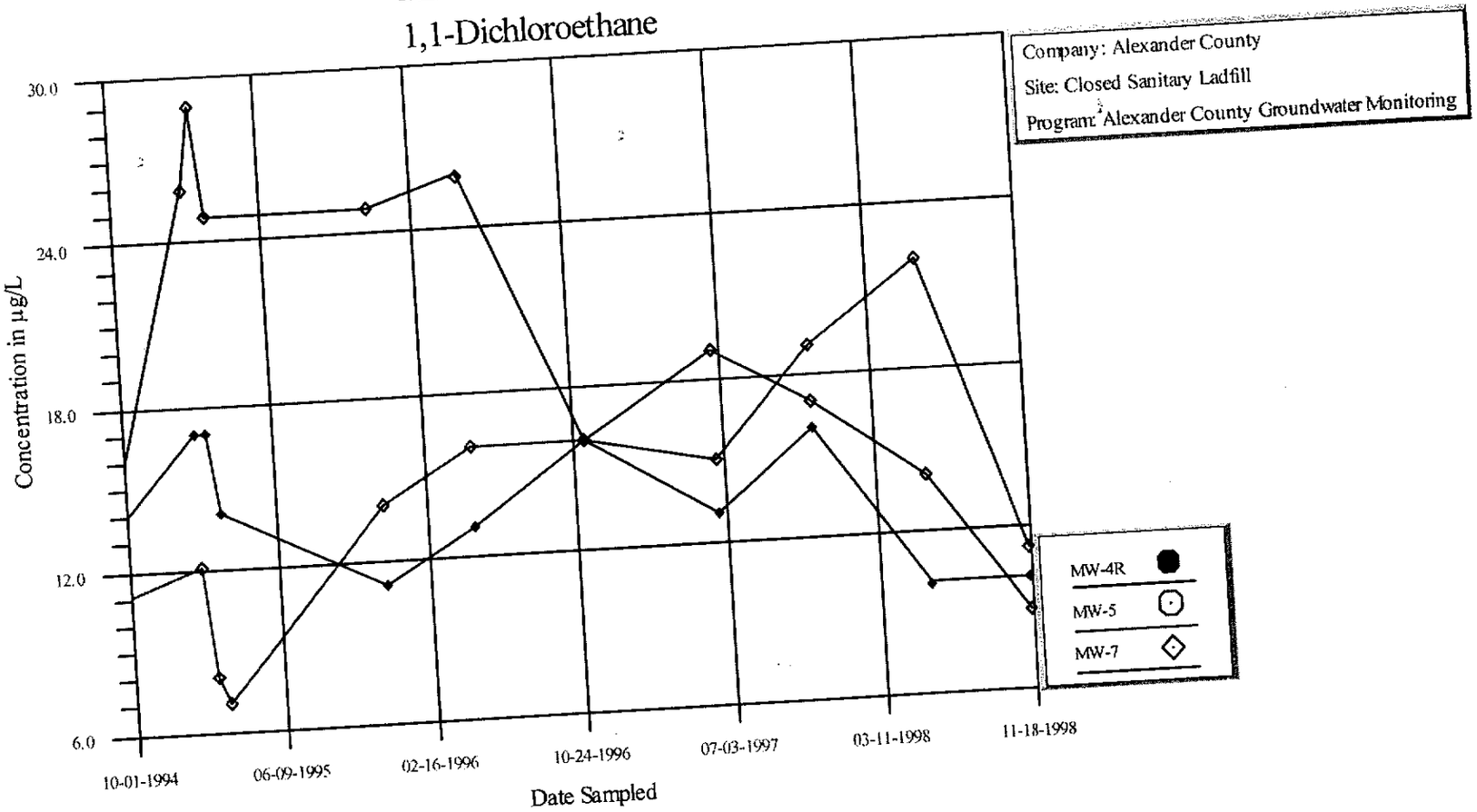
Time-Series Plot

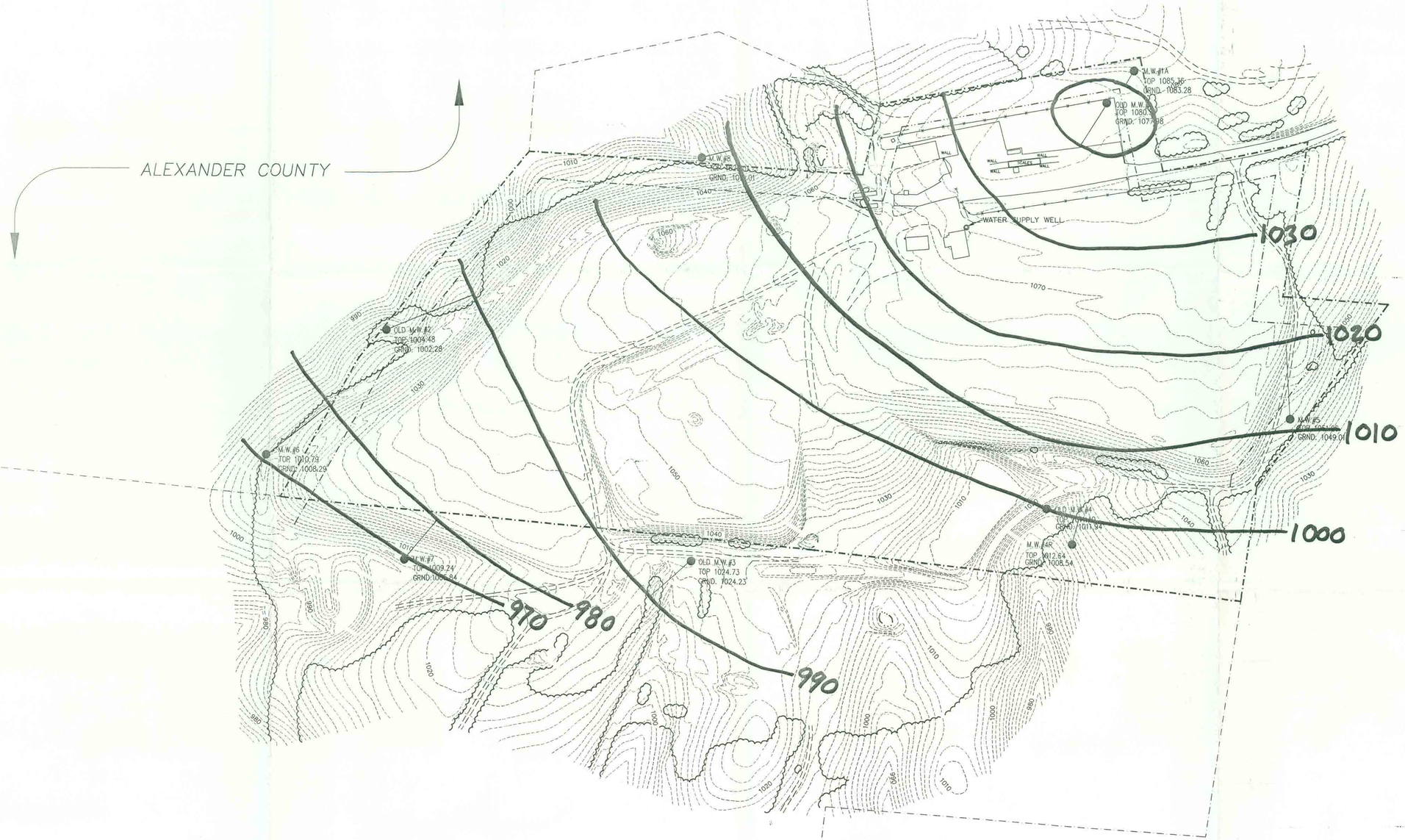
1,1-Dichloroethane



Time-Series Plot

1,1-Dichloroethane





LEGEND

- EXISTING CONTOURS
- PROPERTY LINES
- PERMITTED PROPERTY LINE
- BUFFFER ZONE
- TREE LINE
- ROAD
- WATER

NOTES:

THIS MAP WAS GENERATED FROM AERIAL PHOTOS FLOWN ON 2-23-94 BY TRIANGLE AERIAL MAPPING.

Groundwater Elevation on 11/18/98	
MW-1	1044.77
MW-1A	1037.82
MW-3	999.08
MW-4R	996.24
MW-5	1010.76
MW-6	975.71
MW-7	968.46
MW-8	1006.75

DATE	BY	REV.	DESCRIPTION
5-3-96	LCH	3	REV. PER DENR LETTER DATED 4/29/96
4-9-96	CHS	2	DRAWING ORIENTATION AND PROPERTY LOCATION
4-6-95	CHS	1	ADD MONITORING WELL #6

MUNICIPAL ENGINEERING SERVICES CO., P.A.
CONSULTING ENGINEERS
BOONE, N.C. GARNER, N.C.

PROJECT: ALEXANDER COUNTY SANITARY LANDFILL

OWNER: ALEXANDER COUNTY

TITLE: OPERATION PLAN
MONITORING WELL LOCATIONS

SCALE 1"=100'	DRWN. BY C. SEYMOUR	PROJ. NO. G93142	DRAWING NO. 93142-10
DATE 3-30-94	CHKD BY W. SULLIVAN		