APPENDIX F – VOLATILE ORGANIC COMPOUND COMPLIANCE FOR SOLID WASTE MANAGEMENT UNIT 108

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Table F-1. Solid Waste Management Unit 108 Action Limits Action Levels for Point-of-Compliance Monitoring Wells and Surface Water

Analyte	CAS No.	MCL[a] (mg/L)	POC Action Level (mg/L)	Surface Water Action Level[c] (mg/L)
Tetrachloroethylene	127-18-4	0.005	0.05	0.019
Carbon tetrachloride	56-23-5	0.005	0.05	0.010
Chloroform[b]	67-66-3	0.08	0.8	1.020
Trichloroethylene	79-01-6	0.005	0.05	0.175
Cis-1,2-dichloroethylene	156-59-2	0.07	0.7	0.684
Trans-1,2-dichloroethylene	156-60-5	0.1	1.0	0.684
Chlorodibromomethane[b]	124-48-1	0.08	0.8	0.048
Vinyl Chloride	75-01-4	0.002	0.02	0.014
Phosphorus (White)[b]	7723-14-0	0.00073	0.0073	0.0073

Abbreviations:

CAS = Chemical Abstracts Service, a division of the American Chemical Society
MCL = Maximum contaminant level
mg/L = Milligrams per liter
POC = Point of compliance

[a]U.S. Environmental Protection Agency (USEPA) National Primary Drinking Water Standards MCL.

[b]No MCL is promulgated for the contaminant. Action Level from USEPA Region IX Preliminary Remediation Goal; per USEPA Region IV guidance.

[c]Alabama Department of Environmental Management Ambient Water Quality Criteria Code: 335-6-10-.07, Equations 16 and 18. MCL used if higher.

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

Table F-2. 2003-09 Summary of Volatile Organic Compounds Monitoring Data at Solid Waste Management Unit 108

	PZ1B	PZ1C	PZ2C	PZ2D	PZ3A	PZ3B	PZ32A	PZ32B	POC1A	POC1B	POC2A	POC2B	POC3A	POC3B	SW3	SW4	SW5
Aug-2003																	
Carbon tetrachloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.2**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorodibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloroform	<0.01	<0.01	<0.01	<0.01	<0.01	**0.12**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,2-Dichloroethene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.11**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methylene chloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.2**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethylene	<0.01	<0.01	**0.13**	<0.01	<0.01	<0.01	<0.01	**6**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.015**	<0.01	<0.01
trans-1,2-Dichloroethene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.04**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Oct-2003																	
Carbon tetrachloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**3.9**	**0.22**	<0.01	<0.01	<0.01	<0.01	**0.014**	<0.01	<0.01	<0.01	<0.01
Chlorodibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloroform	<0.01	<0.01	<0.01	<0.01	<0.01	**0.13**	**0.01**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,2-Dichloroethene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.11**	**0.1**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethylene	<0.01	<0.01	**0.13**	<0.01	<0.01	<0.01	<0.01	**3.9**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	**0.01**
trans-1,2-Dichloroethene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	**0.04**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Feb-2004																	
Carbon tetrachloride	<0.001	<0.001	<0.001	**0.004**	<0.001	<0.001	**0.3**	**0.03**	<0.001	**0.004**	<0.001	**0.006**	**0.012**	<0.001	<0.001	dry	dry
Chlorodibromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	dry	dry
Chloroform	**0.0013**	**0.0008**	**0.0006**	**0.0014**	**0.0007**	**0.12**	<0.0005	<0.0005	<0.0005	**0.0044**	<0.0005	**0.0033**	**0.0028**	<0.0005	<0.0005	dry	dry
cis-1,2-Dichloroethene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.04**	**0.05**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	dry	dry
1,1-Dichloroethylene	<0.001	<0.001	**0.004**	<0.001	<0.001	<0.001	<0.001	<0.001							<0.001	dry	dry
Tetrachloroethylene	<0.0005	**0.0017**	**0.14**	**0.0052**	<0.0005	<0.0005	**1.6**	**0.5**	<0.0005	**0.0066**	<0.0005	**0.0047**	**0.001**	<0.0005	<0.0005	dry	dry
trans-1,2-Dichloroethene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	dry	dry
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.008**	**0.01**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	dry	dry
Vinyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	dry	dry
May-2004																	
Carbon tetrachloride	< 0.001	< 0.001	< 0.001	**0.004**	< 0.001	< 0.001	**1**	**0.11**	< 0.001	**0.005**	< 0.001	**0.008**	**0.011**	**0.007**	< 0.001	< 0.001	< 0.001
Chlorodibromomethane	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	< 0.0005	< 0.0005	< 0.0005	**0.001**	**0.001**	**0.071**	< 0.0005	< 0.0005	**0.002**	**0.005**	< 0.0005	**0.005**	**0.003**	**0.004**	< 0.0005	< 0.0005	< 0.0005
cis-1,2-Dichloroethene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	< 0.0005	**0.002**	**0.053**	**0.004**	< 0.0005	< 0.0005	**3**	**0.84**	**0.001**	**0.008**	**0.002**	**0.007**	**0.004**	**0.006**	**0.014**	**0.005**	**0.004**
trans-1,2-Dichloroethene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.002**	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

All units mg/L

Values in red represent detectable measurements

Table F-2 (continued)

	PZ1B	PZ1C	PZ2C	PZ2D	PZ3A	PZ3B	PZ32A	PZ32B	POC1A	POC1B	POC2A	POC2B	POC3A	POC3B	SW3	SW4	SW5
Aug-2004																	
Carbon tetrachloride	< 0.001	< 0.001	< 0.001	**0.005**	< 0.001	< 0.001	**0.7**	**0.1**	< 0.001	**0.005**	< 0.001	**0.008**	**0.02**	**0.006**	< 0.001	< 0.001	< 0.001
Chlorodibromomethane	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	< 0.0005	< 0.0005	< 0.0005	**0.001**	< 0.0005	**0.1**	**0.015**	**0.009**	< 0.0005	**0.0049**	< 0.0005	**0.0047**	< 0.0005	**0.0035**	< 0.0005	< 0.0005	< 0.0005
cis-1,2-Dichloroethene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-Dichloroethylene	< 0.001	< 0.001	**0.006**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	< 0.0005	**0.004**	**0.2**	**0.007**	< 0.0005	< 0.0005	**2.5**	**0.9**	**0.0012**	**0.0085**	**0.002**	**0.0074**	**0.001**	**0.0076**	**0.005**	< 0.0005	< 0.0005
trans-1,2-Dichloroethene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.03**	**0.05**	< 0.001	< 0.001	< 0.001	< 0.001	**0.005**	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	**0.005**	**0.003**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nov-2004																	
Carbon tetrachloride	< 0.001	< 0.001	< 0.001	**0.004**	< 0.001	< 0.001	**3.7**	**0.31**	< 0.001	**0.005**	< 0.001	**0.007**	**0.012**		< 0.001	< 0.001	< 0.001
Chlorodibromomethane	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001
Chloroform	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.12**	**0.014**	**0.01**	< 0.0005	**0.005**	< 0.0005	**0.004**	**0.003**		< 0.0005	< 0.0005	< 0.0005
cis-1,2-Dichloroethene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.14**	**0.16**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001
1,1-Dichloroethylene	< 0.001	< 0.001	**0.004**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001
Tetrachloroethylene	< 0.0005	**0.0031**	**0.19**	**0.008**	< 0.0005	< 0.0005	**10**	**8.4**	< 0.0005	**0.011**	< 0.0005	**0.008**	**0.004**		< 0.0005	< 0.0005	< 0.0005
trans-1,2-Dichloroethene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.004**	**0.006**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001	< 0.001
Trichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.032**	**0.06**	< 0.001	< 0.001	< 0.001	< 0.001	**0.004**		< 0.001	< 0.001	< 0.001
Vinyl chloride	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002		< 0.002	< 0.002	< 0.002
Feb-2005																	
Carbon tetrachloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**2.4**	**0.19**	< 0.001	**0.005**	< 0.001	**0.007**	**0.007**	**0.006**	< 0.001	< 0.001	< 0.001
Chloroform	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.08**	**0.013**	**0.0059**	< 0.0005	**0.0037**	< 0.0005	**0.0028**	**0.0012**	**0.00225**	< 0.0005	< 0.0005	< 0.0005
cis-1,2-Dichloroethene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.1**	**0.1**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-Dichloroethylene	< 0.001	< 0.001	**0.007**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	< 0.0005	**0.0036**	**0.195**	**0.009**	< 0.0005	**0.001**	**5.7**	**3.3**	**0.003**	**0.01**	**0.0027**	**0.0089**	**0.015**	**0.005**	**0.0205**	**0.0058**	< 0.0005
Trichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.022**	**0.041**	< 0.001	< 0.001	< 0.001	< 0.001	**0.002**	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	**0.003**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
May-2005																	
Carbon tetrachloride	< 0.001	< 0.001	< 0.001	**0.002**	< 0.001	< 0.001	**0.6**	**0.09**	< 0.001	**0.003**	< 0.001	**0.004**	**0.004**	**0.003**	< 0.001	< 0.001	< 0.001
Chloroform	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.05**	**0.01**	**0.01**	< 0.0005	**0.003**	< 0.0005	**0.002**	**0.001**	**0.002**	< 0.0005	< 0.0005	< 0.0005
cis-1,2-Dichloroethene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-Dichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	< 0.0005	< 0.0005	**0.12**	**0.0055**	< 0.0005	< 0.0005	**1.3**	**0.58**	**0.001**	**0.007**	**0.002**	**0.002**	**0.007**	**0.005**	**0.005**	**0.002**	**0.004**
Trichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.016**	**0.03**	< 0.001	< 0.001	< 0.001	< 0.001	**0.002**	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

All units mg/L

Values in red represent detectable measurements

Table F-2 (continued)

	PZ1B	PZ1C	PZ2C	PZ2D	PZ3A	PZ3B	PZ32A	PZ32B	POC1A	POC1B	POC2A	POC2B	POC3A	POC3B	SW3	SW4	SW5
Aug-2005																	
Carbon tetrachloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**1.2**	**0.16**	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	dry	< 0.001	< 0.001
Chloroform	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.072**	**0.01**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	dry	< 0.001	< 0.001
cis-1,2-Dichloroethene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	dry	< 0.001	< 0.001
1,1-Dichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	dry	< 0.001	< 0.001
1,2-Dichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.08**	**0.09**	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	dry	< 0.001	< 0.001
Tetrachloroethylene	< 0.001	< 0.001	**0.22**	**0.01**	< 0.001	< 0.001	**4.5**	**1.6**	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	dry	**0.01**	< 0.001
Trichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.03**	**0.4**	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	dry	< 0.001	< 0.001
Vinyl chloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	dry	< 0.001	< 0.001
Aug-2006																	
Carbon tetrachloride	< 0.001	< 0.001	< 0.001	**0.005**	< 0.001	< 0.001	**1.035**	**0.16**	< 0.001	**0.005**	**0.002**	**0.008**	**0.015**	**0.008**	dry	< 0.001	< 0.001
Chlorodibromomethane	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	< 0.001
Chloroform	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.079**	**0.012**	**0.008**	< 0.005	**0.005**	< 0.001	**0.005**	< 0.005	**0.005**	dry	< 0.005	< 0.005
Cis-1,2-Dichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.075**	**0.1**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	< 0.001
Trans-1,2-Dichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.079**	**0.098**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	< 0.001
Tetrachloroethylene	< 0.001	**0.002**	< 0.001	**0.009**	< 0.001	< 0.001	**3.65**	**1.4**	**0.002**	**0.011**	< 0.001	**0.01**	**0.004**	**0.008**	dry	< 0.001	**0.006**
Trichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.024**	**0.045**	< 0.001	< 0.001	< 0.005	< 0.001	**0.005**	< 0.001	dry	< 0.001	< 0.001
Vinyl chloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.003**	**0.003**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	dry	< 0.001	< 0.001
Aug-2007																	
Carbon tetrachloride	< 0.001	< 0.001	< 0.001	**0.0036**	< 0.001	< 0.001	**1**	**0.155**	< 0.001	**0.0042**	< 0.001	**0.0082**	**0.0022**	**0.0078**	< 0.001	< 0.001	< 0.001
Chlorodibromomethane	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.12**	< 0.025	**0.00755**	< 0.005	< 0.005	< 0.005	**0.0057**	< 0.005	**0.0056**	< 0.005	< 0.005	< 0.005
Cis-1,2-Dichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.11**	**0.12**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trans-1,2-Dichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	**0.00475**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	< 0.001	**0.003**	**0.29**	**0.01**	< 0.001	< 0.001	**3.1**	**1.35**	**0.00145**	**0.008**	< 0.001	**0.0087**	< 0.001	**0.0056**	< 0.001	< 0.001	**0.0017**
Trichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.024**	**0.042**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	**0.00315**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Aug-2008																	
Carbon Tetrachloride	< 0.001	< 0.001	< 0.001	**0.0021**	< 0.001	< 0.001	**0.71**	**0.2**	< 0.001	**0.0042**	< 0.001	**0.0067**	**0.00415**	**0.0052**	< 0.001	< 0.001	< 0.001
Chlorodibromomethane	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform, total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.093**	**0.011**	**0.00705**	< 0.005	**0.0052**	< 0.005	**0.0066**	**0.0053**	**0.0051**	< 0.005	< 0.005	< 0.005
Cis-1,2-Dichloroethylene	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	**0.1**	**0.11**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trans-1,2-Dichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0041**	**0.00415**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	< 0.001	**0.0022**	**0.29**	**0.013**	< 0.001	< 0.001	**2.8**	**1.6**	**0.0014**	**0.007**	< 0.001	**0.0073**	**0.0033**	**0.0051**	< 0.001	< 0.001	**0.0011**
Trichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.025**	**0.0395**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.003**	**0.00295**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

All units mg/L

Values in red represent detectable measurements

Table F-2 (continued)

	PZ1B	PZ1C	PZ2C	PZ2D	PZ3A	PZ3B	PZ32A	PZ32B	POC1A	POC1B	POC2A	POC2B	POC3A	POC3B	SW3	SW4	SW5
Aug-2009																	
Carbon Tetrachloride	< 0.001	< 0.001	< 0.001	**0.0025**	< 0.001	< 0.001	**0.69**	**0.2**	< 0.001	**0.003**	< 0.001	**0.0049**	< 0.001	0.0051	< 0.001	< 0.001	< 0.001
Chlorodibromomethane	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform, total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.036**	**0.0066**	**0.0062**	< 0.005	< 0.005	< 0.005	**0.0051**	< 0.005	**0.0051**	< 0.005	< 0.005	< 0.005
Cis-1,2-Dichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.076**	**0.11**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trans-1,2-Dichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0027**	**0.0036**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethylene	**0.0016**	**0.0027**	**0.43**	**0.0235**	< 0.001	< 0.001	**2.8**	**1.6**	**0.0043**	**0.01**	**0.0013**	**0.0075**	< 0.001	**0.0051**	< 0.001	< 0.001	**0.003**
Trichloroethylene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.018**	**0.038**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0021**	**0.002**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

All units mg/L

Values in red represent detectable measurements

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report*. November 2009.

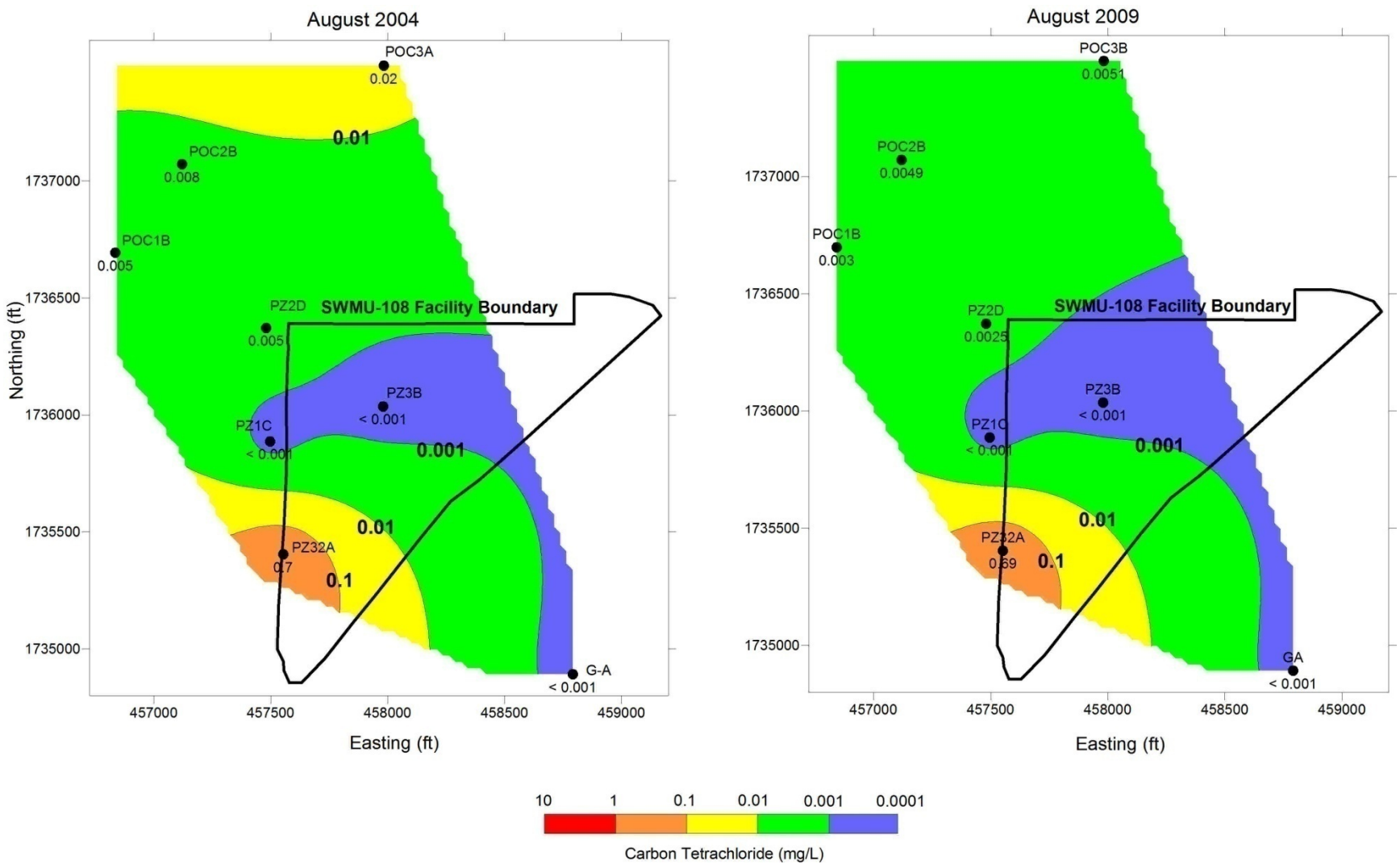

Figure F-1. Carbon Tetrachloride Concentration Horizontal Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

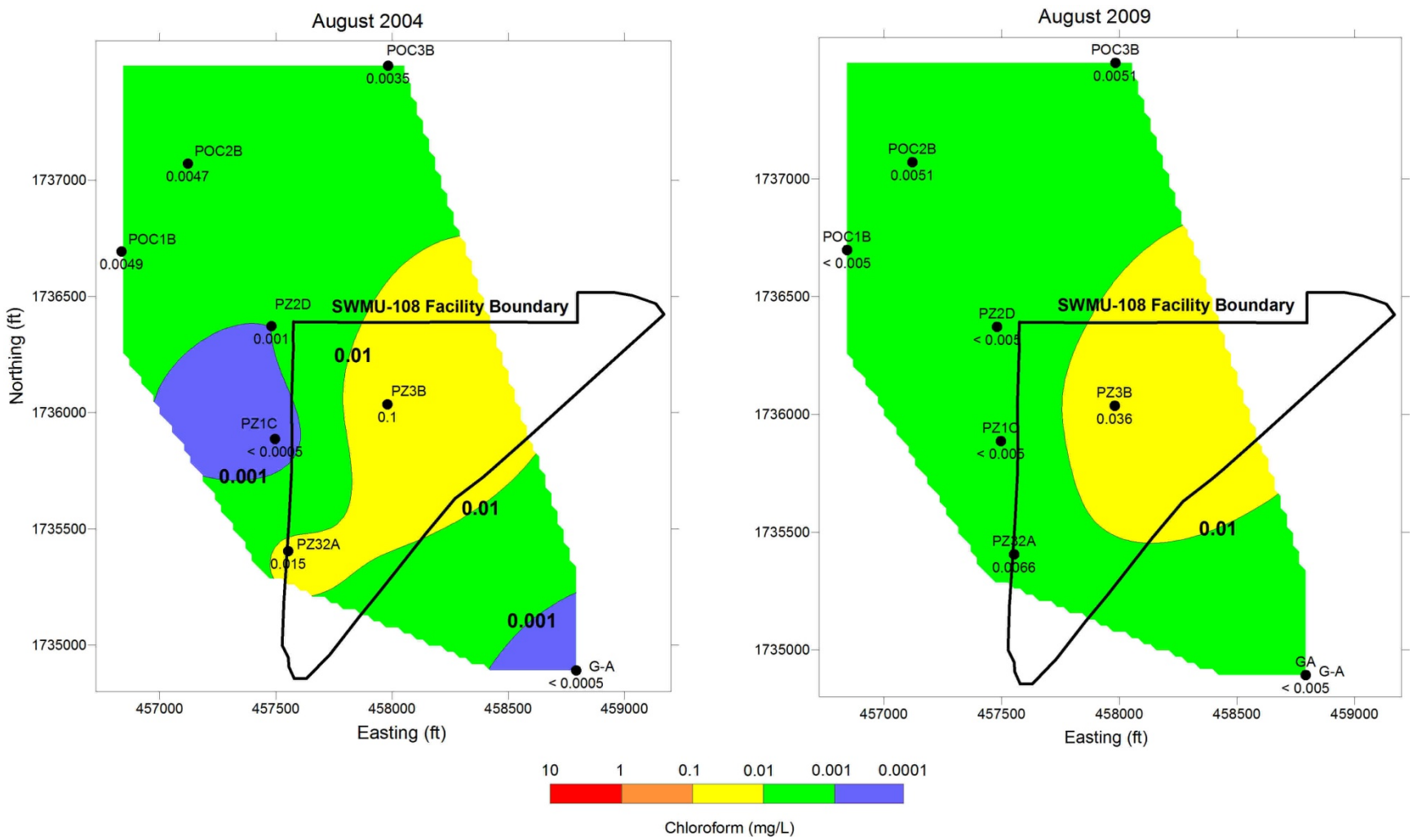

Figure F-2. Chloroform Concentration Horizontal Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

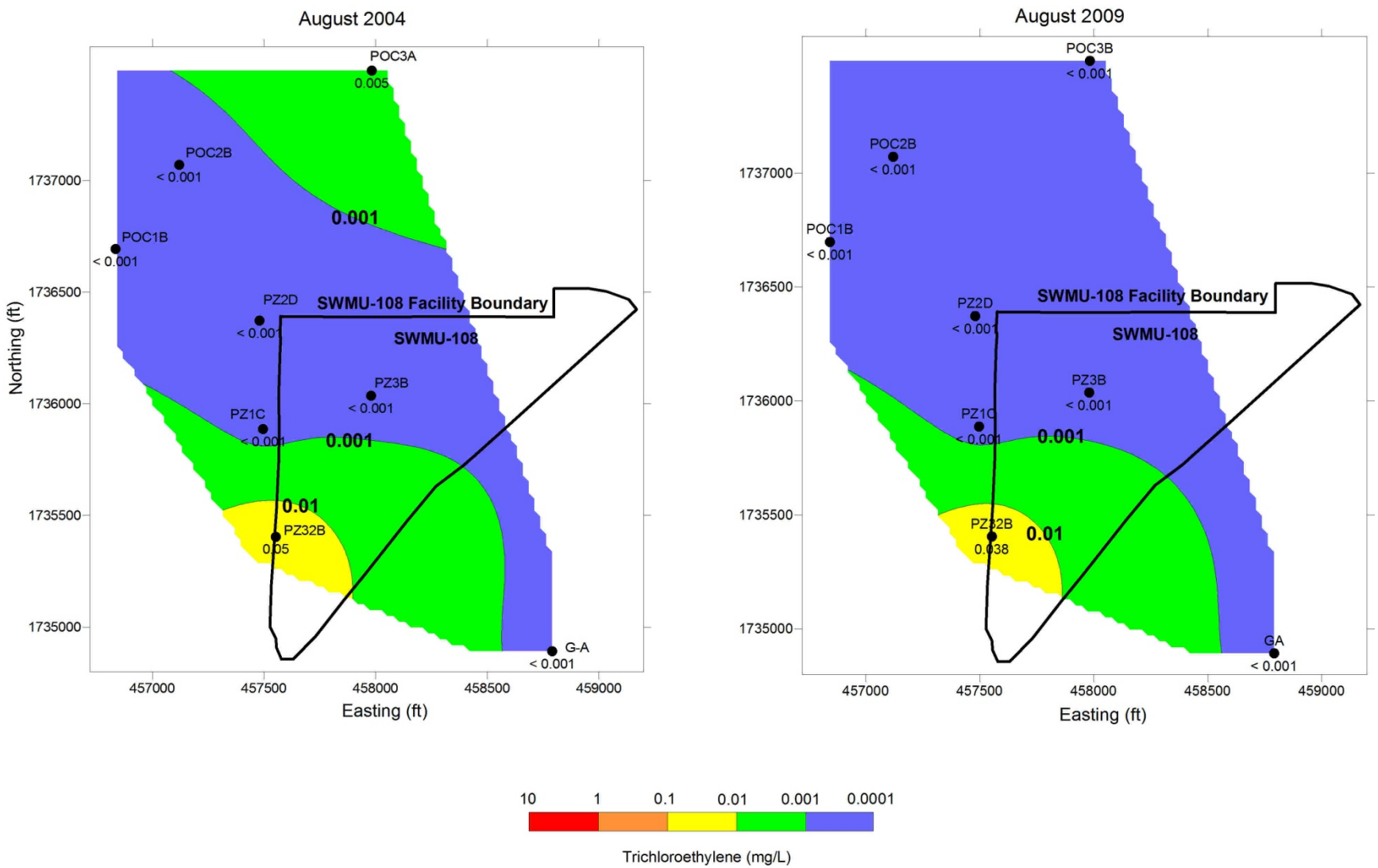

Figure F-3. Trichloroethylene Concentration Horizontal Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

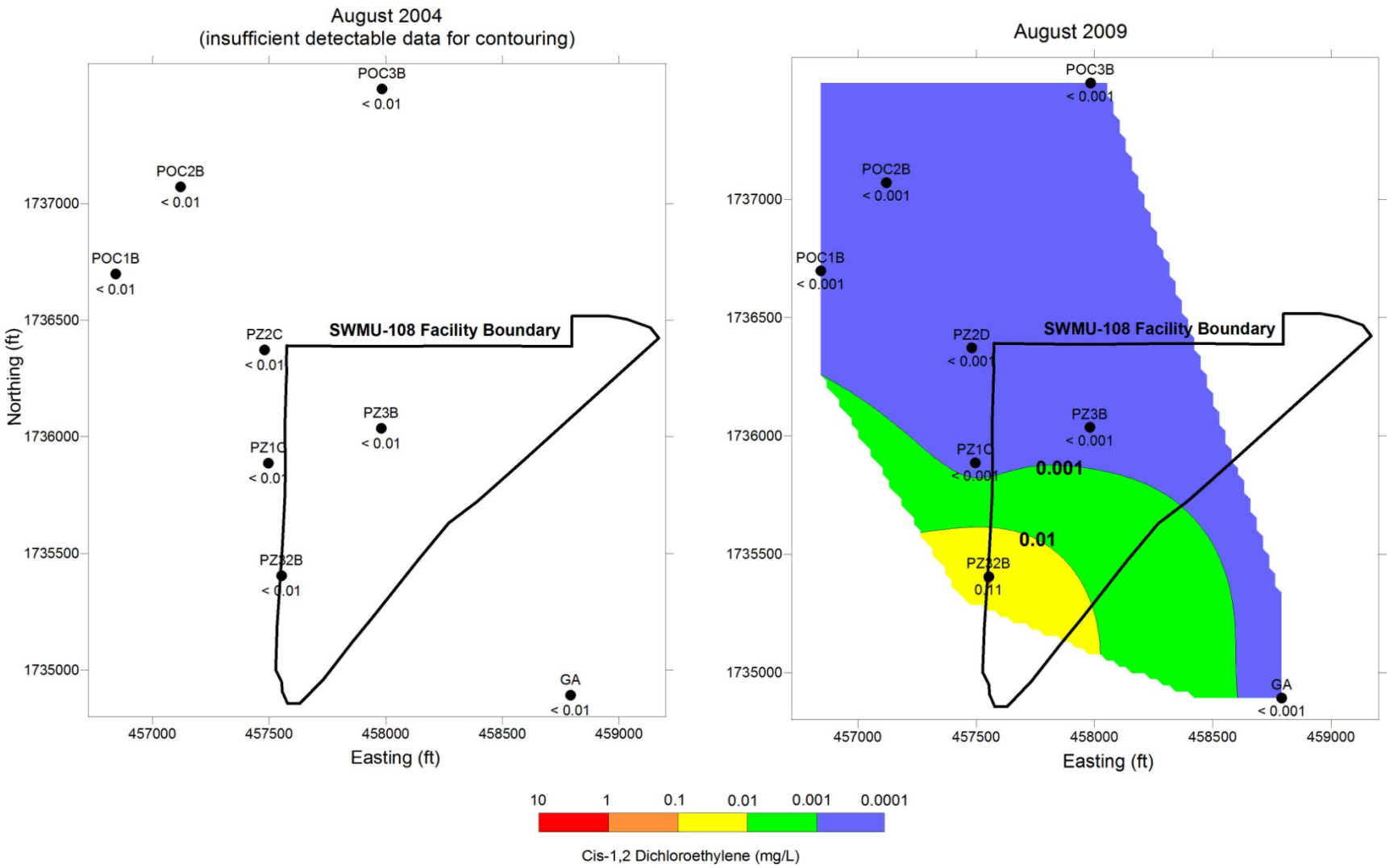

Figure F-4. Cis-1,2 Dichloroethylene Concentration Horizontal Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

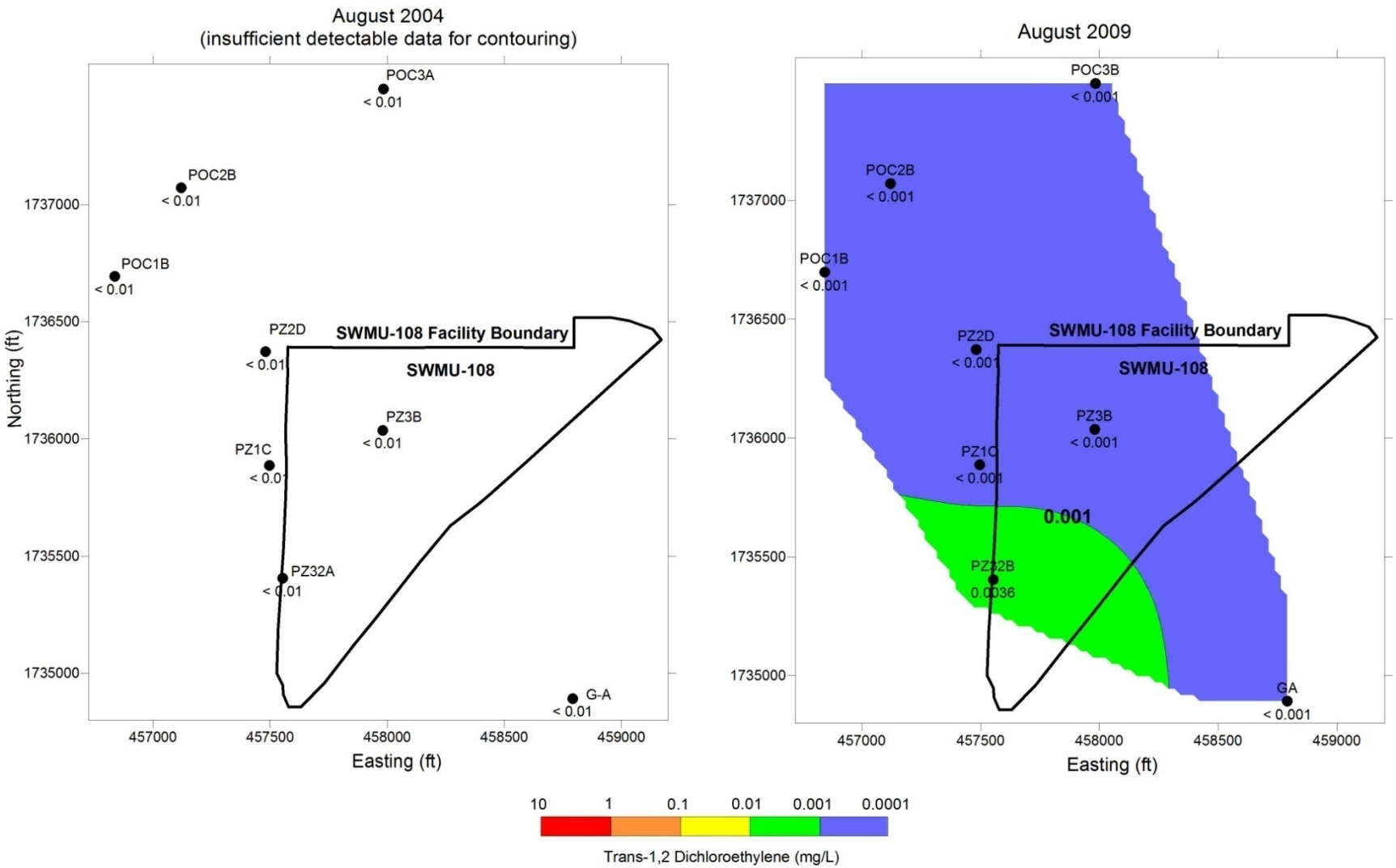

Figure F-5. Trans-1,2 Dichloroethylene Concentration Horizontal Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

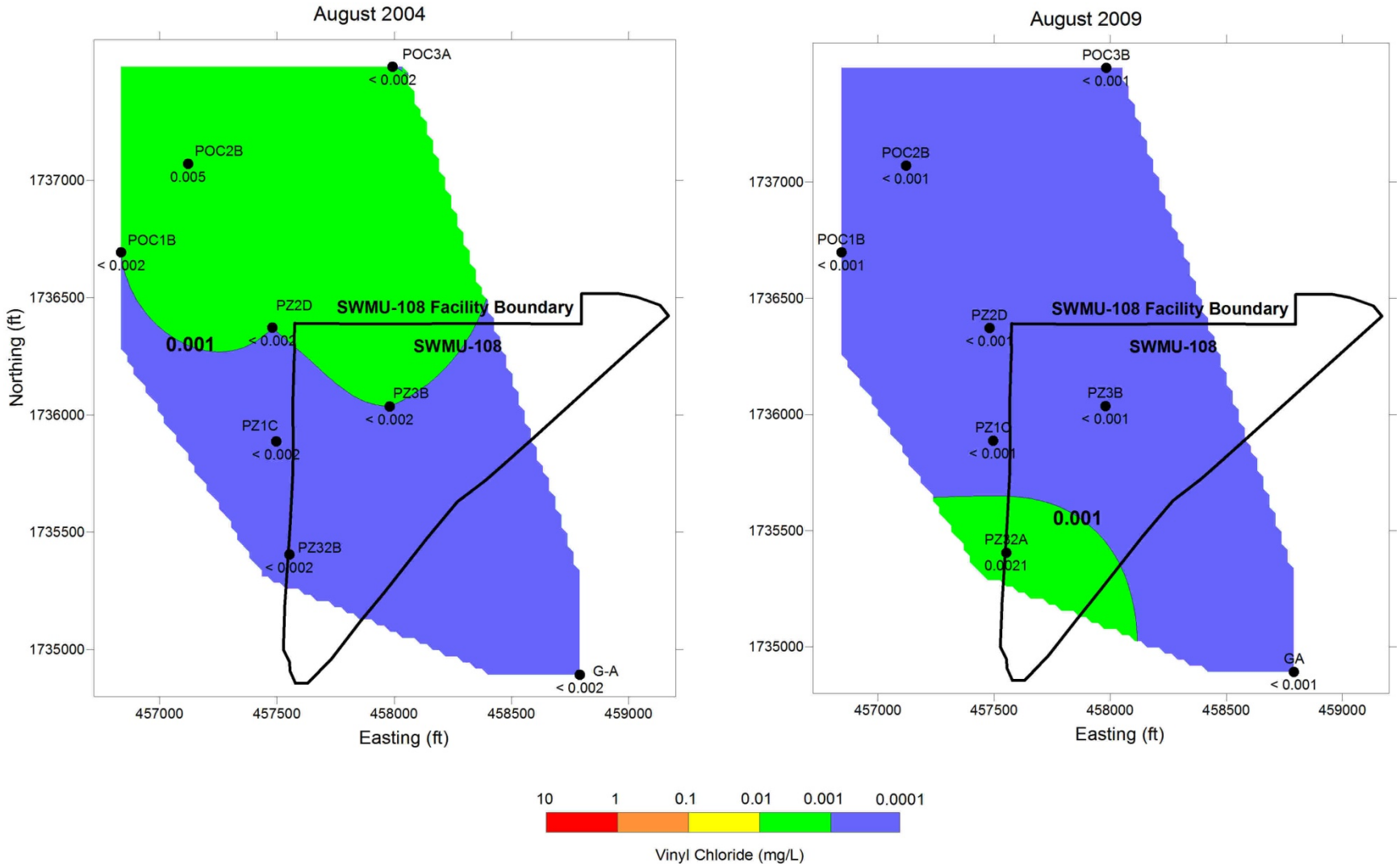

Figure F-6. Vinyl Chloride Concentration Horizontal Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

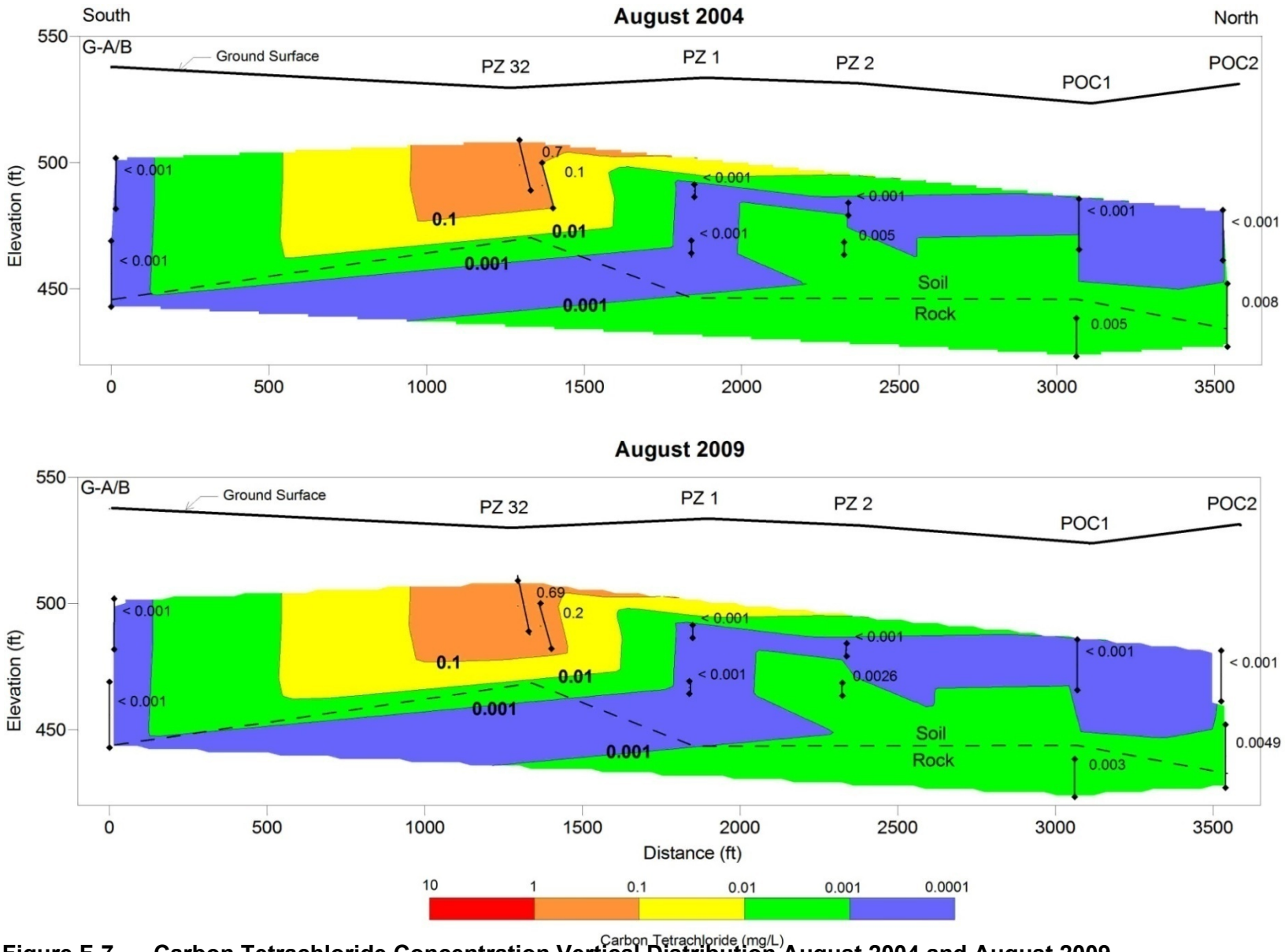

Figure F-7. Carbon Tetrachloride Concentration Vertical Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

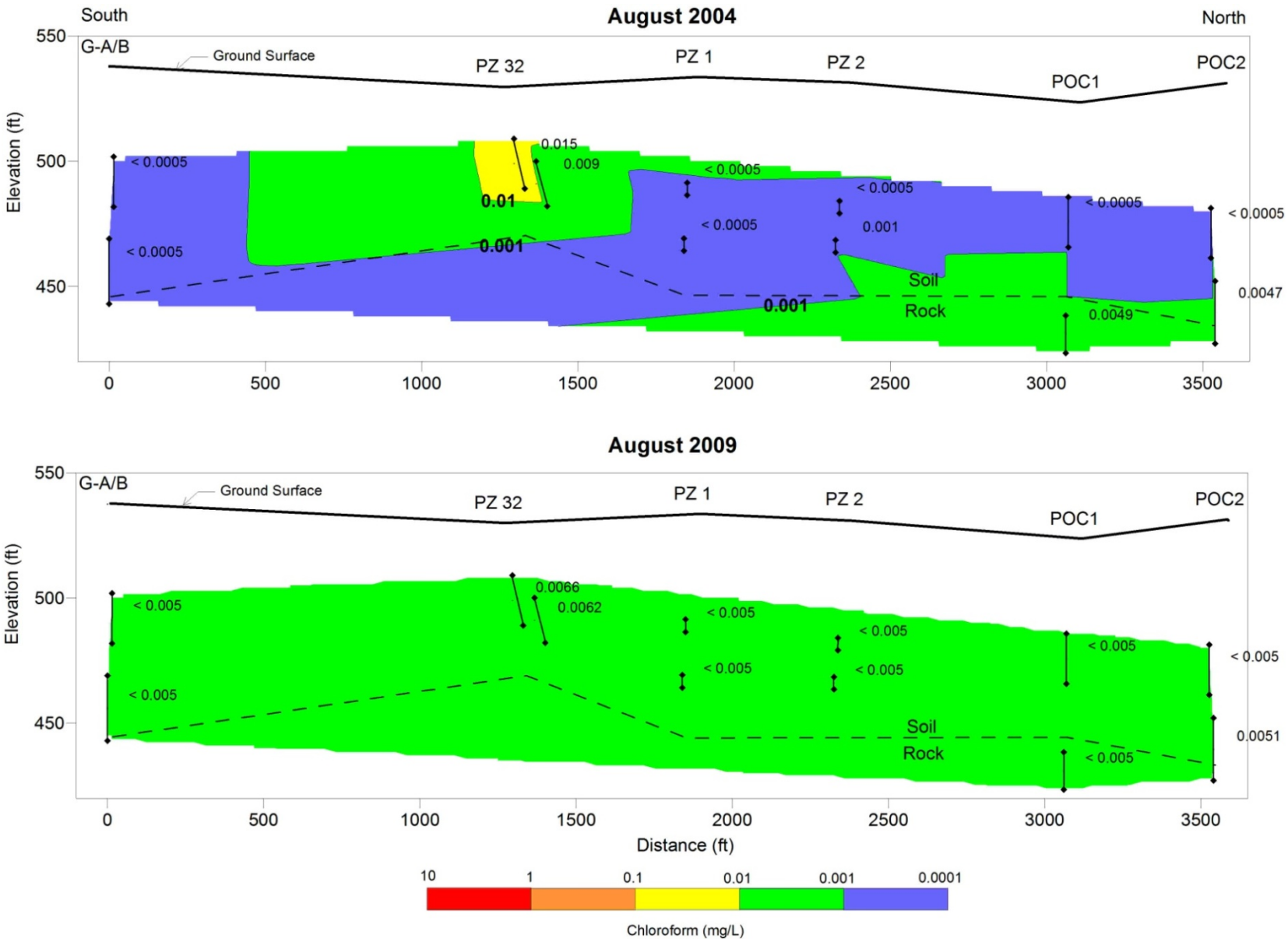

Figure F-8. Chloroform Concentration Vertical Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

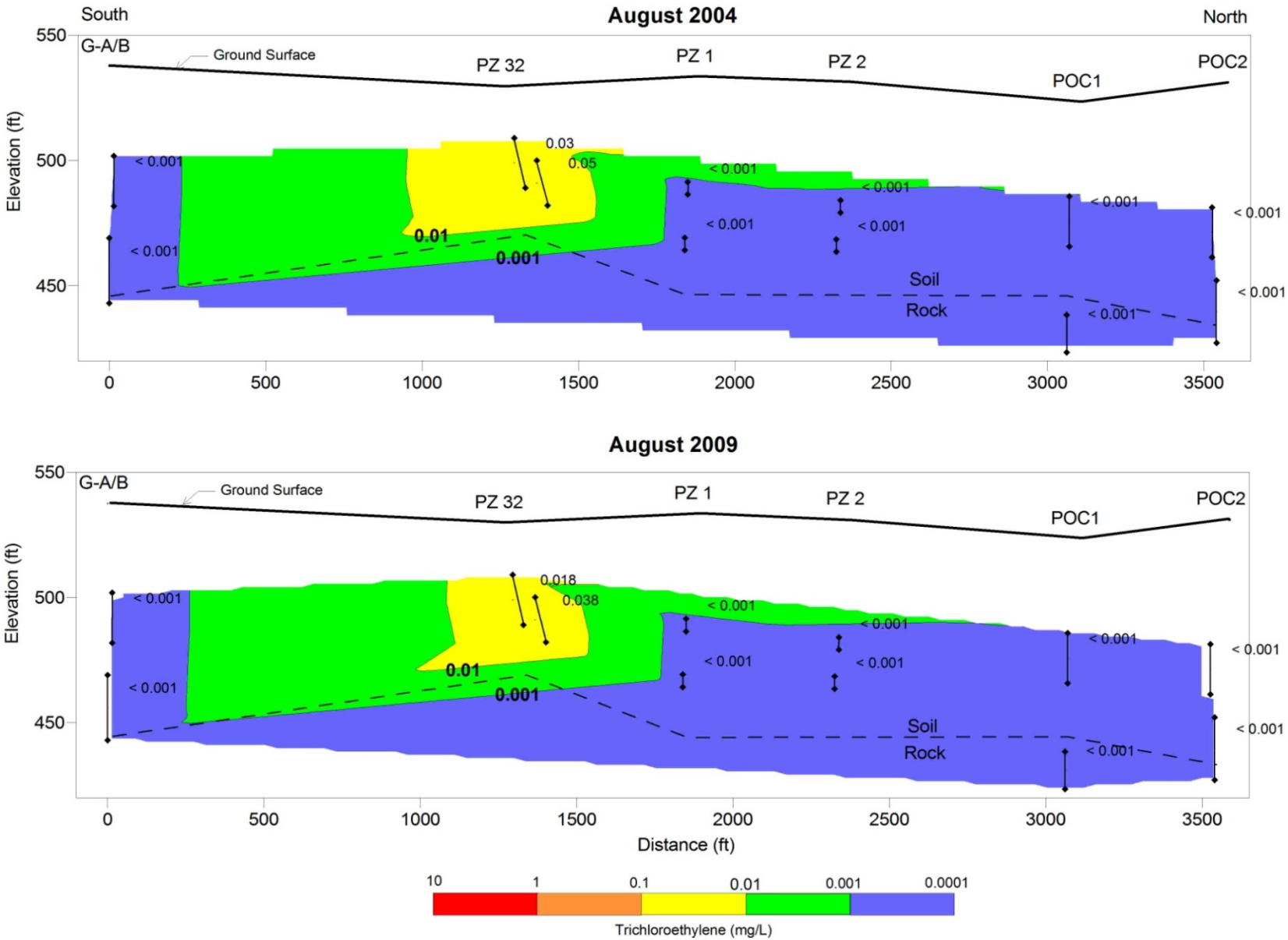

Figure F-9. Trichloroethylene Concentration Vertical Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

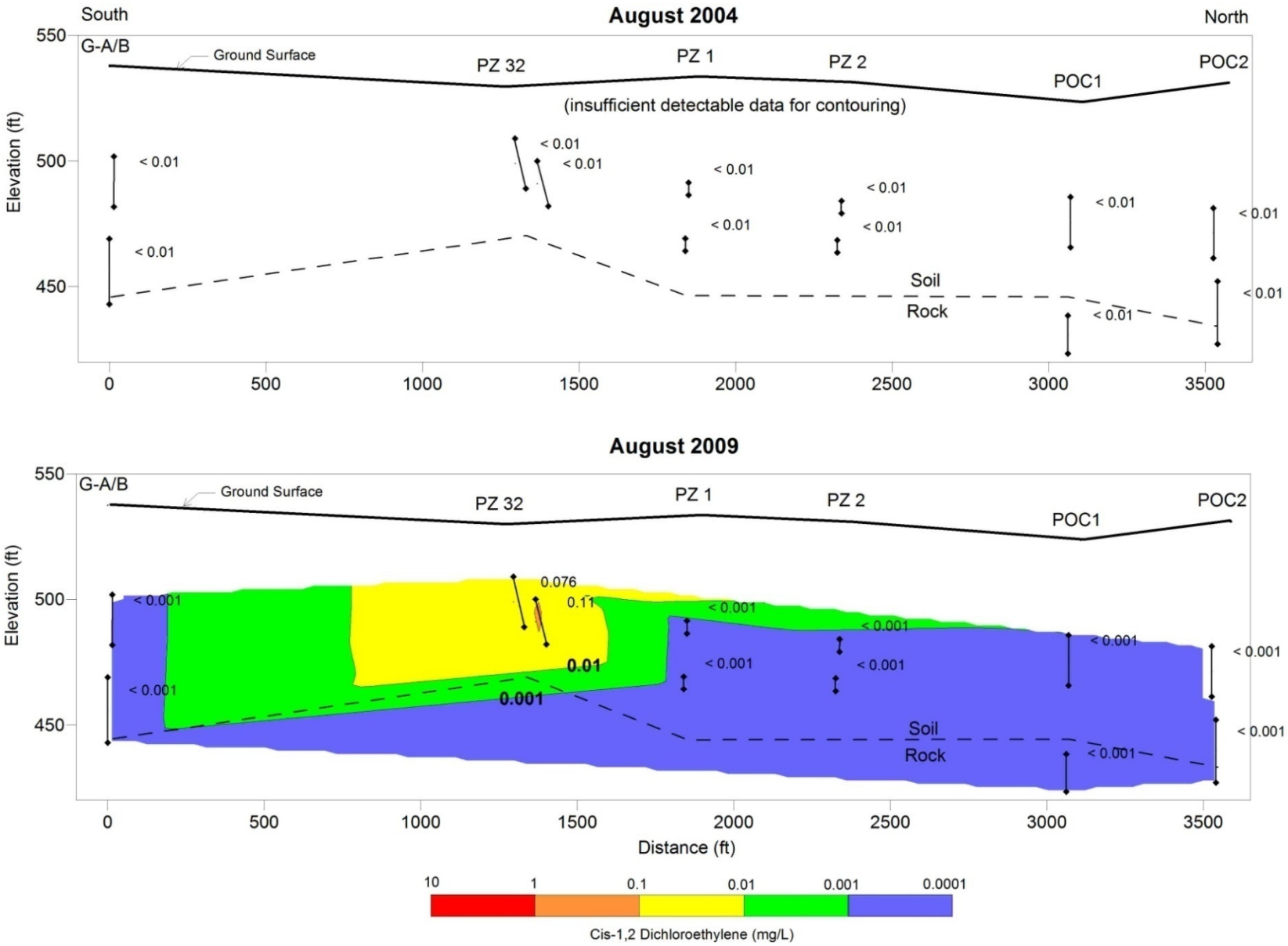

Figure F-10. Cis-1,2 Dichloroethylene Concentration Vertical Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

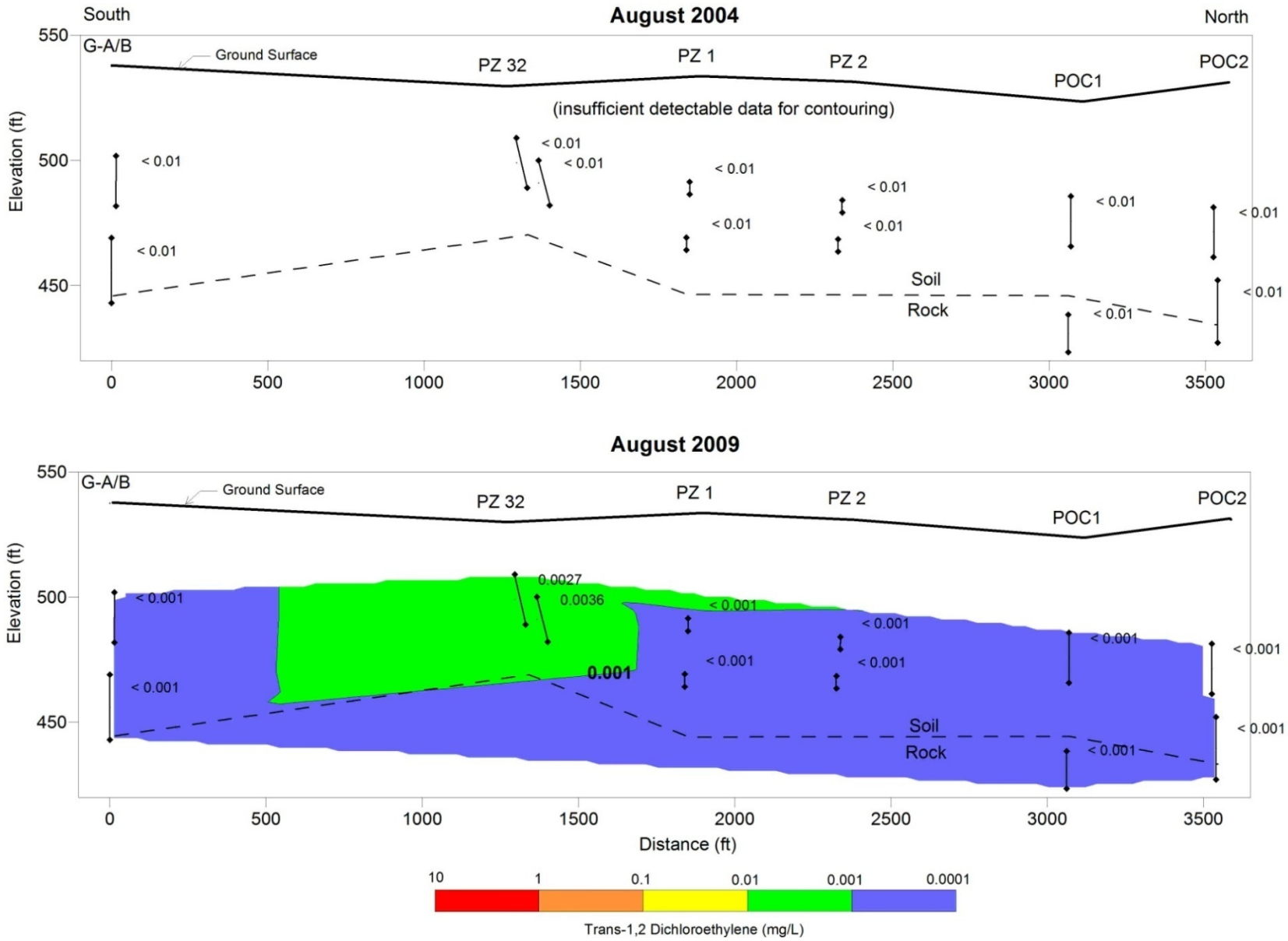

Figure F-11. Trans-1,2 Dichloroethylene Concentration Vertical Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

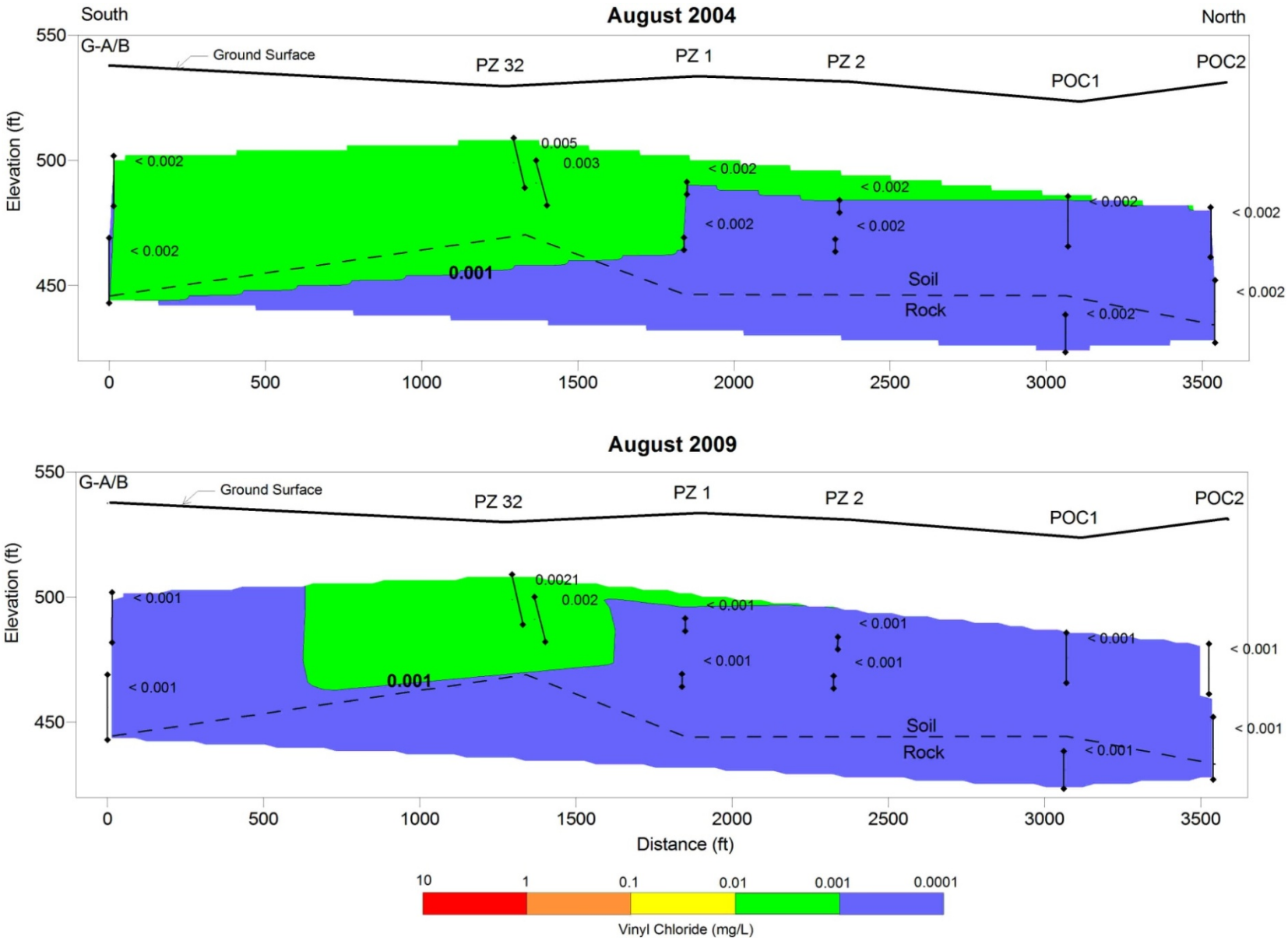

Figure F-12. Vinyl Chloride Concentration Vertical Distribution August 2004 and August 2009

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

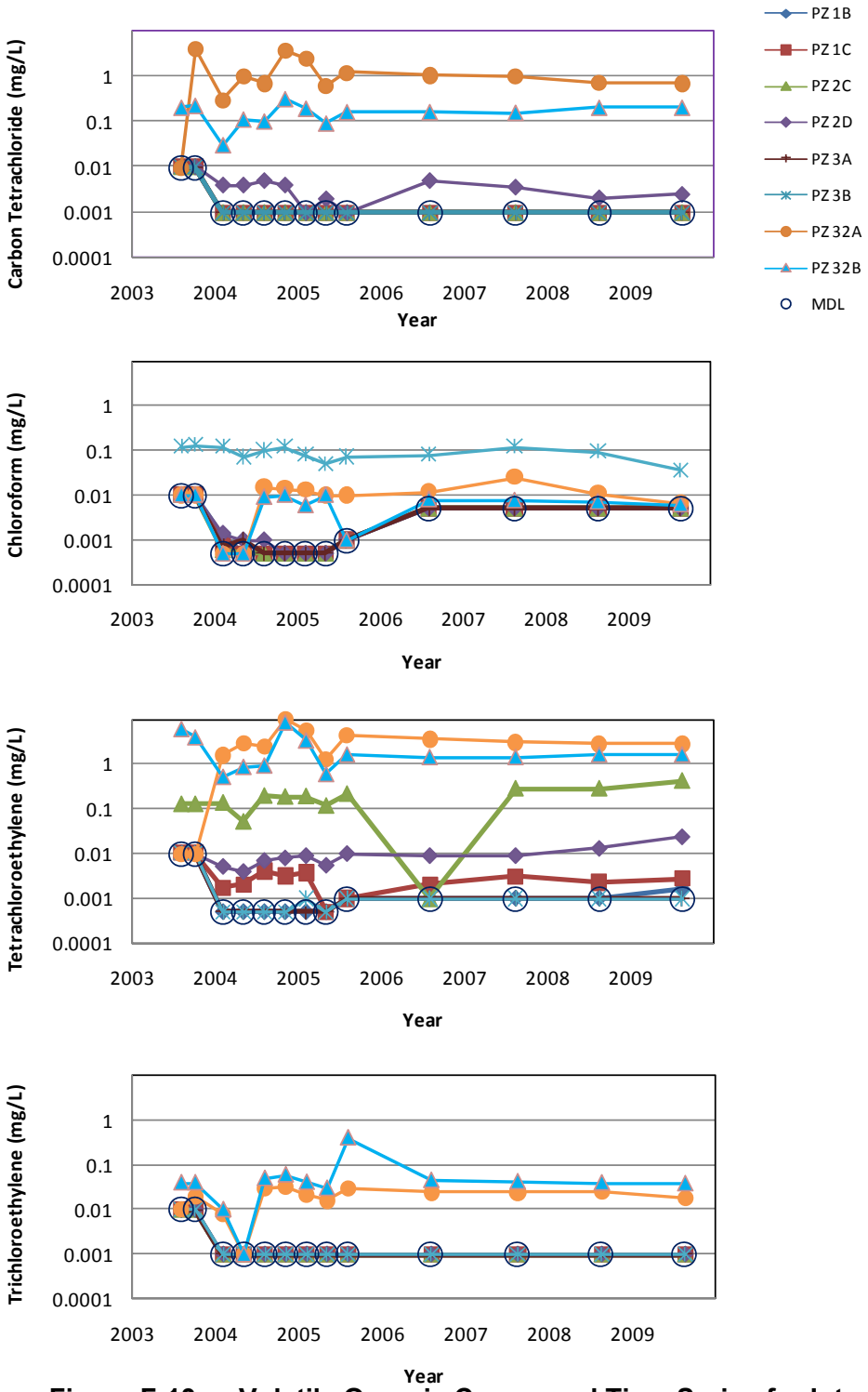

Figure F-13a. Volatile Organic Compound Time Series for Interior Monitoring Wells

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

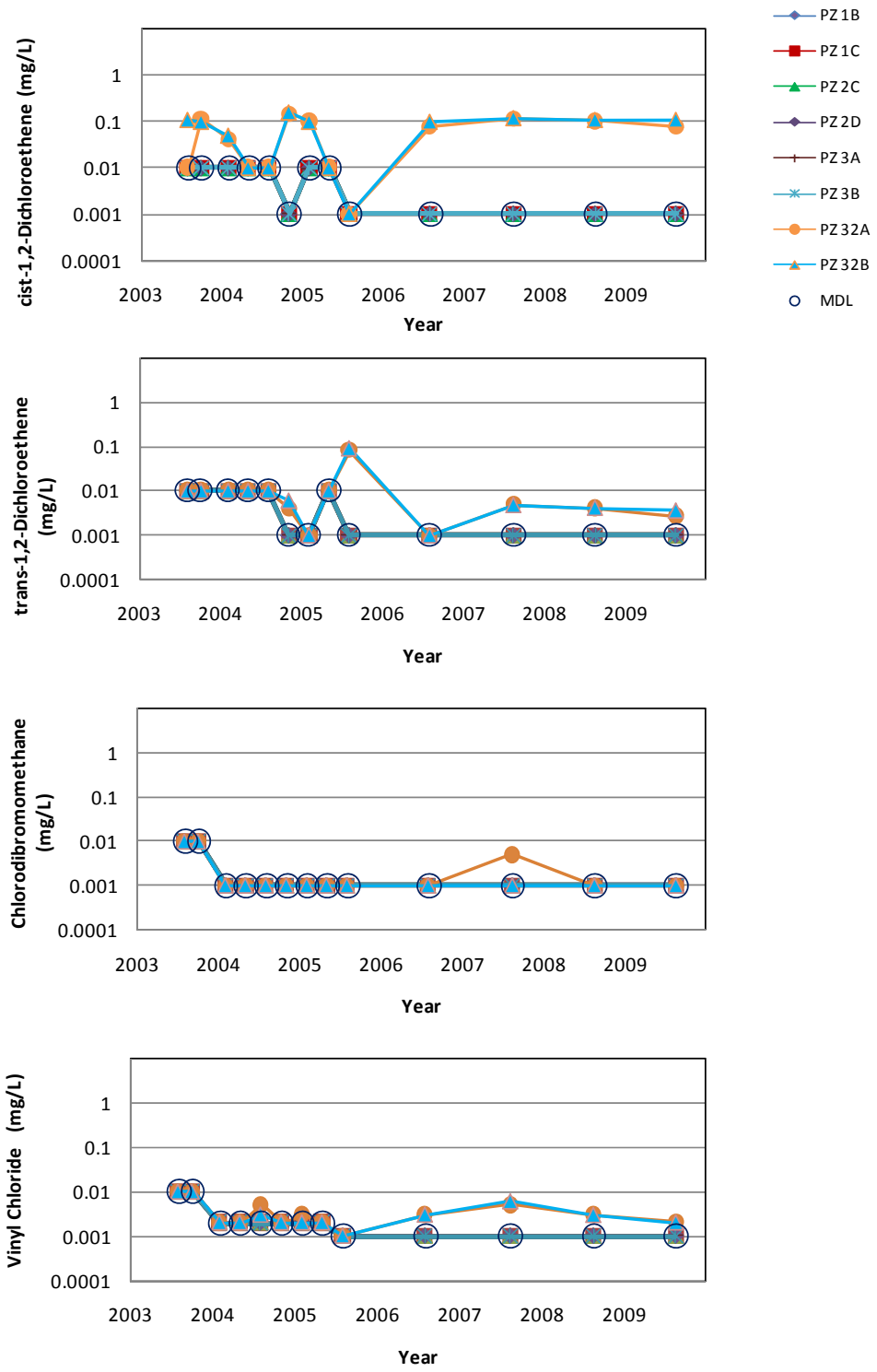

Figure F-13b. Volatile Organic Compound Time Series for Interior Monitoring Wells

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

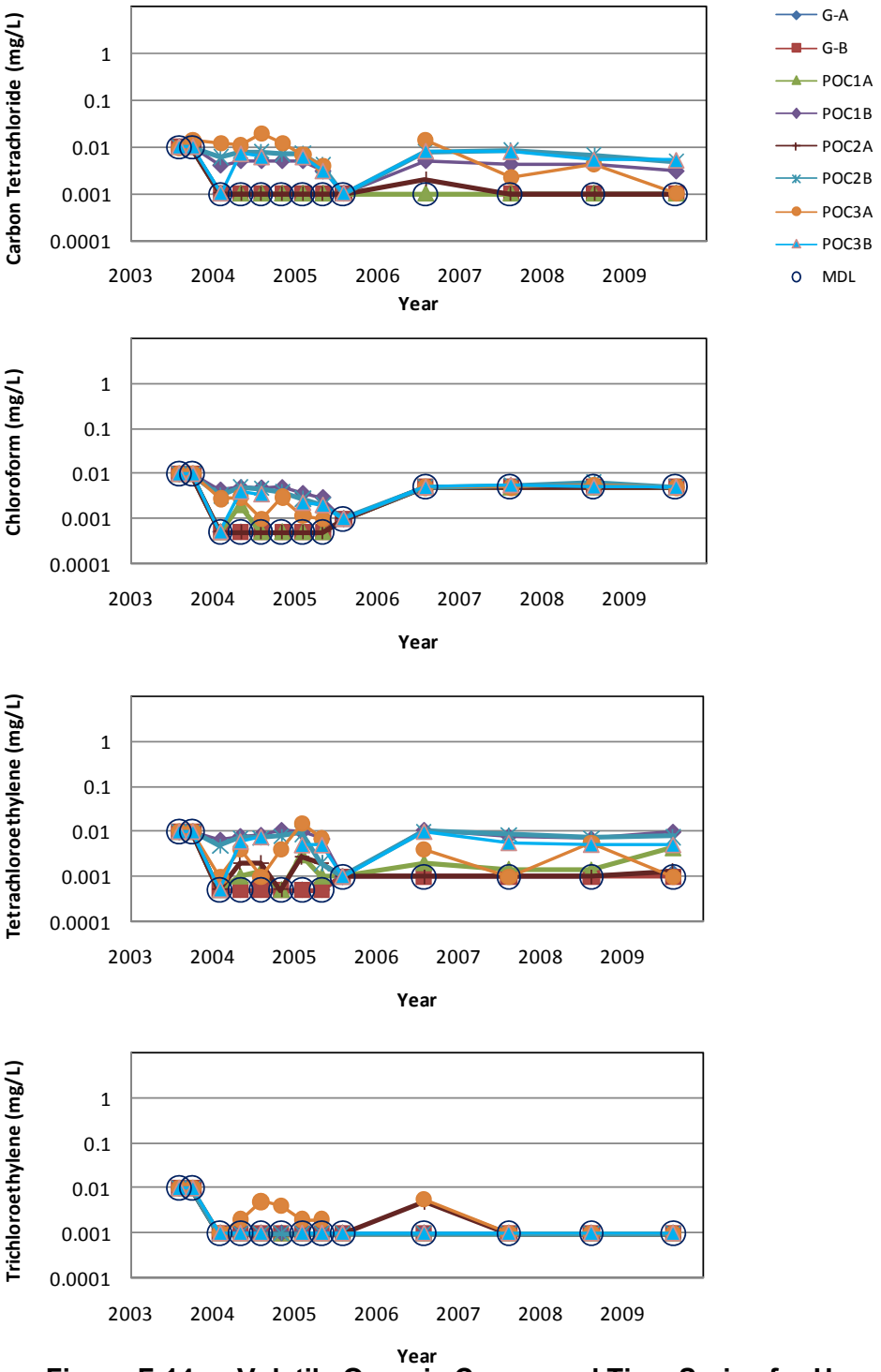

Figure F-14a. Volatile Organic Compound Time Series for Upgradient and Point of Compliance Wells

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

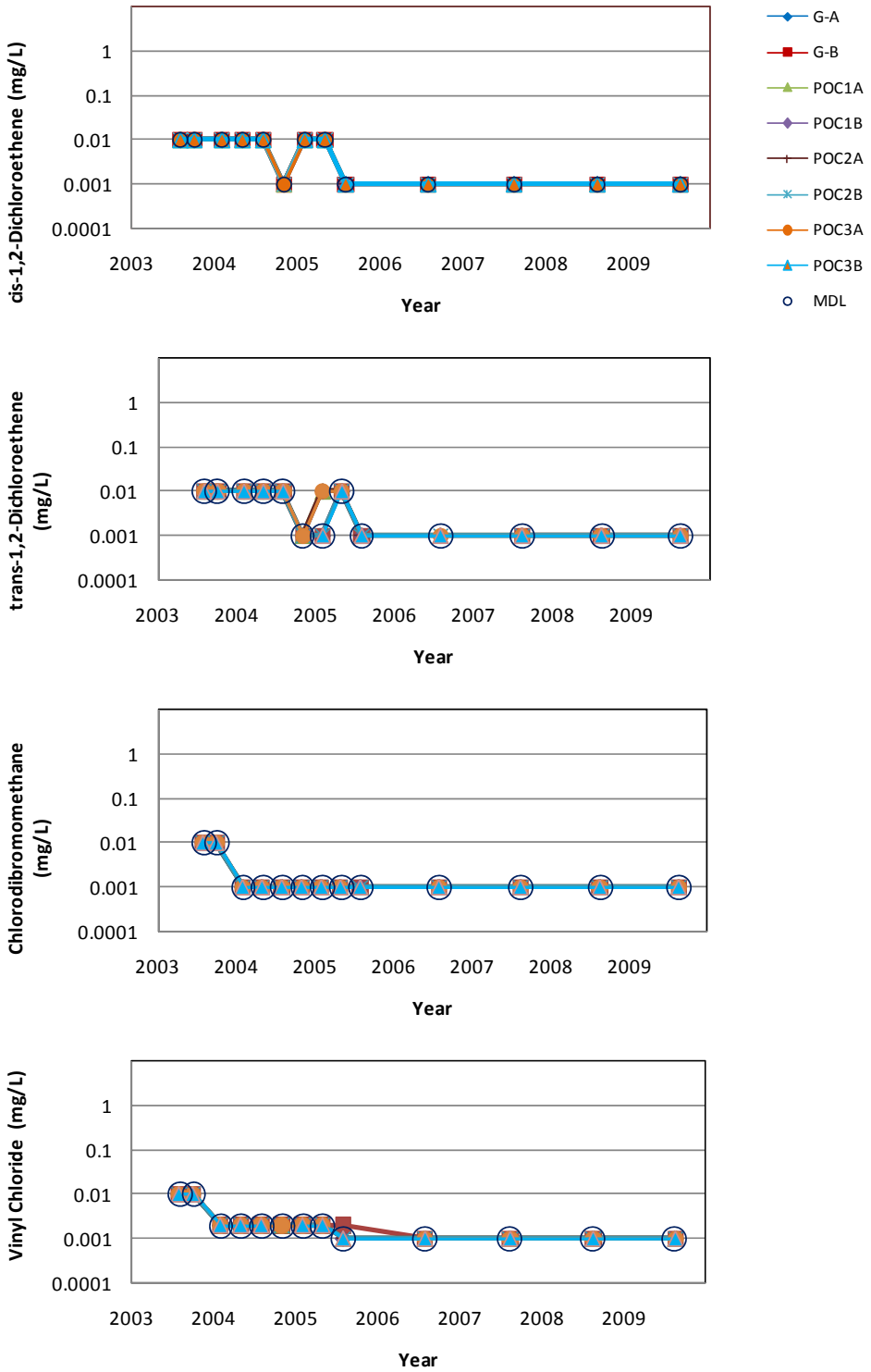

Figure F-14b. Volatile Organic Compound Time Series for Upgradient and Point of Compliance Wells

Source: Tennessee Valley Authority. 2009. *Environmental Research Center Post-Closure 2009 Annual Monitoring Report.* November 2009.

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