Groundwater Sampling Report

Woolfolk Chemical Works Superfund Site,
Fort Valley, Georgia

November 18, 2011

Prepared for:
US Environmental Protection Agency, Region 4
Atlanta, Georgia

Under subcontract to CMC, Inc.

Prepared by:

TETRA TECH

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 11-0042
Project: 11-0424, Woolfolk Chemical - Reported by Kristin Trapp

Volatile Organics

Project: 11-0424, Woolfolk Chemical

Sample ID: MW14T
Station ID: MW14T
Lab ID: E112104-04
Matrix: Groundwater
Date Collected: 5/18/11 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	5/20/11 12:02	5/20/11 12:02	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	5/20/11 12:02	5/20/11 12:02	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	5/20/11 12:02	5/20/11 12:02	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C

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75-25-2	Bromoform	1.0	U, J, QC-1, QL-1	ug/L	1.0	5/20/11 12:02	5/20/11 12:02	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	5/20/11 12:02	5/20/11 12:02	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
75-00-3	Chloroethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	5/20/11 12:02	5/20/11 12:02	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	5/20/11 12:02	5/20/11 12:02	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	5/20/11 12:02	5/20/11 12:02	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	5/20/11 12:02	5/20/11 12:02	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C

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135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	5/20/11 12:02	5/20/11 12:02	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	5/20/11 12:02	5/20/11 12:02	EPA 8260C

GROUNDWATER SAMPLING FORM

TETRA TECH GEO

Well Number: MW-14/T
State Permit No.:
Project Name: Woolfolk
Project Number: 117-7261002.03

Sampling Date: 5/18/11
Weather:
Sampled by: J. Huang (initials)

Well Information

Well Type: X Monitor ___ Other ___
Well Diameter: 2 Inches
Well Depth (ft below TIC): 128.50' ↑
Water Level (ft below TIC): ↓ >300'
Well Notes (Odor, well condition, etc.):

Well Construction: X PVC ___ Steel ___ Other ___
Well Screened Interval ___ to ___ feet below TIC
Well Headspace Reading (PID/FID):
Product Level-if present (ft below TIC):

Volume of Water in Casing (gallons)

(___) - (___) * ___ ^{2}* 0.0408 = ___ gallons
Well Depth — Water Level — Well Diameter (in)

Purging Information

Purge Method: X Low Flow ___ NJDEP 3 Well Volumes ___ Not Purged ___ Other ___
Pump: X Submersible Pump (2 inch) ___ Peristaltic ___ Positive displacement ___ Other ___
Pump intake depth: 290' Purge water discharged to ___ Ground ___ Drum ___ Other ___
Tubing ___ Polypropylene X Teflon-line ___ Other ___ / ___ New ___ Dedicated

Time (HH:MM)	Temp (°C)	pH (pH units)	D.O. (mg/L)	Cond. (mS/cm)	Turb (NTU)	DTW (feet)	Rate (L/min)	ORP mV				Notes
0800						129.18						
0805	12.15	7.45	12.45	0.014	0.0		0.25	137				Purge Start
0810												light brown muddy
												pump stuck.
0900	18.37	6.59	10.37	0.032	91.5	129.04	0.2	158				
0902	18.50	5.41	7.55	0.029	92.2	129.04	0.2	211				pump again
0905	18.71	5.42	6.75	0.028	73.4	129.03	0.2	216				clear water
0910	18.98	5.42	5.71	0.028	34.6	129.02	0.2	216				"
0915	19.20	5.37	5.13	0.032	35.6	129.02	0.2	227				"
0920	19.51	5.33	4.91	0.035	29.7	129.02	0.2	224				"
0925	19.81	5.34	5.01	0.037	25.9	129.02	0.2	216				"
0930	20.01	5.37	5.02	0.037	25.5	129.02	0.2	212				258.2 Hz
	Sampled @ 0930											

Total Volume Purged: 2 gal
Water Quality Meter(s): Horiba U52

Post-sampling Measurements

Sample Information

Groundwater Sample Field ID:
Lab Analysis Requested:

Sampling Time: 0930 Sampling End Time: 0955 DTW before Sampling: 129.02
Sampling Method: ___ Bailer (type: ___) X Same as Above ___ Other: ___
Sampling Observations: