Analytical Results of January 2008 Groundwater Sampling
Cedar Chemical Facility
Helena-West Helena, AR

Analytical Method	Analyte	Units	Primary Drinking Water Standard (ug/L)	Secondary Drinking Water Standard (ug/L)	Region 6 TapWater MSSL (ug/l)	Sample ID Sample Date	2MW-1 01/11/2008	2MW-2 01/10/2008	2MW-3 01/14/2008	2MW-4 01/11/2008	2MW-5 01/10/2008	2MW-6 01/14/2008	2MW-7 01/11/2008	4MW-3 01/11/2008	4MW-4 01/14/2008	9MW-1 01/10/2008	DUP-1 01/11/2008	DUP-2 01/14/2008	DUP-3 01/15/2008	EMW-1 01/14/2008
	General Groundwater Parameters																			
2320 B	Total Alkalinity	UG/L	-	-	-		168000	156000	262000	463000	312000	376000	384000	356000	446000	451000	447000	269000	585000	424000
300.0A	Nitrate as N	UG/L	10000	-	10000		163 J	965	< 15	228 J	977	384 J	< 15	13200	< 15	< 15	246 J	< 15	251 J	< 15
300.0A	Nitrite as N	UG/L	1000	-	1000		< 110	< 22	< 22 UJ	< 110	< 22	< 22 UJ	< 22	< 22	< 22 UJ	< 22	< 1100	< 22 UJ	< 22	< 22 UJ
300.0A	Sulfate	UG/L	-	250000	-		400000	259000	103000	67300	67300	200000	91500	102000	744000	210000	70500	98200	50200	73700
350.1	Nitrogen, as Ammonia	UG/L	-	-	210		**4790**	50.6 B	**716 J**	**4100**	< 36	< 36 UJ	**664**	54.8 J	**1510 J**	**3530**	**4320**	**724 J**	< 36 UJ	< 36 UJ
	Metals																			
6020	Aluminum	UG/L	-	50	37000		251	170	< 30.3	< 30.3	57.7	354	61	< 30.3	235	39.9 J	40.4 J	< 30.3	< 30.3	140
6020	Antimony	UG/L	6	-	15		< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 0.029	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	1
6020	Arsenic	UG/L	10	-	0.045		3.3	20.6	135	15.1	2.5	2.6	17.4	1.2	18.3	45.5	16.2	139	< 1.0 UB	2
6020	Barium	UG/L	2000	-	7300		48.2	8.6	121	1730	50	89	193	131	98.2	171	1760	123	128	118
6020	Beryllium	UG/L	4	-	73		< 0.11	0.072 J	< 0.023	< 0.046	0.027 J	< 0.023	< 0.023	< 0.023	< 0.023	< 0.046	< 0.046	< 0.023	< 0.023	0.031 J
6020	Cadmium	UG/L	5	-	18		0.47 J	0.077 J	< 0.023	0.038 J	0.2 J	0.29 J	< 0.023	0.07 J	< 0.023	< 0.023	0.043 J	< 0.023	0.16 J	3.1
6020	Calcium	UG/L	-	-	-		41800	46400	87300	1080000	63200	119000	114000	126000	176000	96900	1090000	83800	90700	66800
6020	Chromium	UG/L	100	-	-		2.9	4.1	3.9	1.7	11.6	1.2	0.58 J	8.5	16.3	3.4	1.8	3.9	< 0.56	17.8
6020	Cobalt	UG/L	-	-	730		45.4	2.7	0.36 J	14	1.1	1.9	0.85 J	0.76 J	5.6	0.97 J	14.5	0.36 J	0.098 J	1.2
6020	Copper	UG/L	1300	1000	1400		9.8	3.4	0.95 J	3.5	1.8	2	1	1.4	4.1	2.3	2.6	0.8 J	2.1	4.1
6020	Iron	UG/L	-	300	26000		1260	8060	10900	15300	1830	636	5140	14 J	16300	9220	16000	11100	14.2 J	817
6020	Dissolved Iron	UG/L		300	26000		72.8	38.5 J	437	7670	< 13.8	14.8 J	150	< 13.8	246	171	7630	417	< 13.8	< 13.8
6020	Lead	UG/L	15	-	15		0.56 J	0.53 J	0.084 J	0.26 J	0.29 J	0.66 J	0.14 J	0.18 J	0.49 J	0.12 J	0.34 J	0.08 J	0.1 J	1
6020	Magnesium	UG/L	-	-	-		9060 J	15800	40300	469000	21400	35600	48000	45200	104000	60600	472000	38300	70500	37200
6020	Manganese	UG/L	-	50	1700		14000	896	694	6600	193	739	997	56.6	2030	5930	6710	702	51.6	231
6020	Dissolved Manganese	UG/L		50	1700		15000	4 J	644	7130	2.7 J	739	863	17.3	1930	5940	6930	656	58.4	50.5
6020	Nickel	UG/L	-	-	730		120	3.6	3.4	115	4.7	8.2	3.2	3.6	28.3	8	121	3.6	2.9	18.2
6020	Potassium	UG/L	-	-	-		390000	1200	891 J	73000	1630	2930 J	1800	1180	4200 J	7710	74800	1180 J	304 J	1240 J
6020	Selenium	UG/L	50	-	180		1.2	0.46 J	< 1.0 UB	1.4	0.7 J	< 1.0 UB	0.27 J	0.97 J	< 1.0 UB	0.48 J	1.3	< 1.0 UB	< 1.0 UB	< 1.0 UB
6020	Silver	UG/L	-	100	180		0.041 J	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	0.047 J	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
6020	Sodium	UG/L	-	-	-		73500	130000	178000	147000	62900	76500	13200	41600	316000	91400	148000	170000	191000	91700
6020	Thallium	UG/L	2	-	2.6		0.1 J	< 0.019	< 0.019	< 0.019	< 0.019	0.047 J	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	0.02 J	0.036 J
6020	Vanadium	UG/L	-	-	180		1.1	0.66 J	< 0.15	1.3	2.8	7.4	0.33 J	2.3	6.3	20.5	2.2	< 0.15	1.4	24.6
6020	Zinc	UG/L	-	5000	11000		24.1	6.6 J	2.8 J	77.6	6.5 J	5 J	8.6 J	4.4 J	10.6	18.5	60.8	3 J	4.3 J	10.1
7470A	Mercury	UG/L	2	-	0.63		< 0.2 UB	< 0.06	< 0.06	< 0.2 UB	< 0.06	0.071 J	< 0.2 UB	< 0.2 UB	< 0.06	< 0.2 UB	< 0.2 UB	0.12 J	0.09 J	0.16 J
7196A	Diss Hexavalent Cr	UG/L	-	-	110		< 2.2	< 2.2	5 J	< 2.2	7 J	6 J	< 2.2	< 2.2	4 J	3 J	< 2.2	7 J	5 J	7 J
	Organochlorine Pesticides																			
8081A	4,4'-DDD	UG/L	-	-	0.28		< 0.38	< 0.013	< 0.0077 UJ	< 0.038	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077 UJ	< 0.0077	< 0.038	< 0.0077 UJ	< 0.0077	< 0.0077
8081A	4,4'-DDE	UG/L	-	-	0.2		< 0.38	< 0.013	< 0.0075 UJ	< 0.038	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075 UJ	< 0.0075	< 0.038	< 0.0075 UJ	< 0.0075	< 0.0075
8081A	4,4'-DDT	UG/L	-	-	0.2		< 0.74	< 0.025	< 0.015 UJ	< 0.074	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015 UJ	< 0.015	< 0.074	< 0.015 UJ	< 0.015	< 0.015
8081A	Aldrin	UG/L	-	-	0.004		< 0.3	< 0.01	< 0.0059 UJ	< 0.03	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059 UJ	< 0.0059	< 0.03	< 0.0059 UJ	< 0.0059	< 0.0059
8081A	alpha-BHC	UG/L	-	-	0.011		< 2.5 UB	< 0.0091	< 0.0053 UJ	< 0.026	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053 UJ	< 0.0053	< 0.026	< 0.0053 UJ	< 0.0053	< 0.0053
8081A	alpha-Chlordane	UG/L	-	-	-		< 0.26	< 0.0091	< 0.0053 UJ	< 0.026	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053 UJ	< 0.0053	< 0.026	< 0.0053 UJ	< 0.0053	< 0.0053
8081A	beta-BHC	UG/L	-	-	0.037		< 0.44	< 0.015	< 0.0087 UJ	< 0.044	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.0087 UJ	< 0.0087	< 0.044	**0.041 J**	< 0.0087	< 0.0087
8081A	Chlordane (technical)	UG/L	2	-	0.19		< 7	< 0.24	< 0.14 UJ	< 0.7	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14 UJ	< 0.14	< 0.7	< 0.14 UJ	< 0.14	< 0.14
8081A	delta-BHC	UG/L	-	-	-		< 0.29	< 0.01	< 0.0058 UJ	< 0.029	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058 UJ	< 0.0058	< 0.029	< 0.0058 UJ	< 0.0058	< 0.0058
8081A	Dieldrin	UG/L	-	-	0.0042		< 0.32	< 0.011	< 0.0063 UJ	< 0.032	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063 UJ	< 0.0063	< 0.032	< 0.0063 UJ	< 0.0063	< 0.0063
8081A	Endosulfan I	UG/L	-	-	-		< 0.29	< 0.01	< 0.0058 UJ	< 0.029	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058 UJ	< 0.0058	< 0.029	< 0.0058 UJ	< 0.0058	< 0.0058
8081A	Endosulfan II	UG/L	-	-	-		< 0.35	< 0.012	< 0.007 UJ	< 0.035	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007 UJ	< 0.007	< 0.035	< 0.007 UJ	< 0.007	< 0.007
8081A	Endosulfan sulfate	UG/L	-	-	-		< 0.28	< 0.0098	< 0.0057 UJ	< 0.028	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057 UJ	< 0.0057	< 0.028	< 0.0057 UJ	< 0.0057	< 0.0057
8081A	Endrin	UG/L	2	-	11		< 0.4	< 0.014	< 0.0079 UJ	< 0.04	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079 UJ	< 0.0079	< 0.04	< 0.0079 UJ	< 0.0079	< 0.0079
8081A	Endrin aldehyde	UG/L	-	-	-		< 0.44	< 0.015	< 0.0088 UJ	< 0.044	< 0.0088	< 0.0088	< 0.0088	< 0.0088	< 0.0088 UJ	< 0.0088	< 0.044	< 0.0088 UJ	< 0.0088	< 0.0088
8081A	Endrin ketone	UG/L	-	-	-		< 0.35	< 0.012	< 0.007 UJ	< 0.035	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007 UJ	< 0.007	< 0.035	< 0.007 UJ	< 0.007	< 0.007
8081A	gamma-BHC (Lindane)	UG/L	0.2	-	0.052		< 0.34	< 0.012	< 0.0069 UJ	< 0.034	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069 UJ	< 0.0069	< 0.034	< 0.0069 UJ	< 0.0069	< 0.0069
8081A	gamma-Chlordane	UG/L	-	-	-		< 0.46	< 0.016	< 0.0091 UJ	< 0.046	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0091 UJ	< 0.0091	< 0.046	< 0.0091 UJ	< 0.0091	< 0.0091
8081A	Heptachlor	UG/L	0.4	-	0.015		< 0.38	< 0.013	< 0.0077 UJ	< 0.038	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077 UJ	< 0.0077	< 0.038	< 0.0077 UJ	< 0.0077	< 0.0077
8081A	Heptachlor epoxide	UG/L	0.2	-	0.0074		< 0.38	< 0.013	< 0.0075 UJ	< 0.038	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075 UJ	< 0.0075	< 0.038	< 0.0075 UJ	< 0.0075	< 0.0075
8081A	Methoxychlor	UG/L	40	-	180		21	< 0.022	< 0.013 UJ	< 0.065	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013 UJ	< 0.013	< 0.065	< 0.013 UJ	< 0.013	< 0.013
8081A	Toxaphene	UG/L	3	-	0.061		< 18	< 0.63	< 0.37 UJ	< 1.8	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37 UJ	< 0.37	< 1.8	< 0.37 UJ	< 0.37	< 0.37
	Herbicides																			
8151A	Dinoseb	UG/L	7	-	37		< 0.24	< 0.35	0.31 J	< 0.24	< 0.24	0.64 J	0.4 J	< 0.24	0.5 J	< 0.24	< 0.24	< 0.24	< 0.24	0.83

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	Volatile Organic Compounds																			
8260B	1,1,1-Trichloroethane	UG/L	200	-	840		< 18	< 0.36	< 0.36	< 7.2	< 0.36	< 0.36	< 0.36	< 0.36	< 0.72	< 3.6	< 7.2	< 0.36	< 0.36	< 0.36
8260B	1,1,2,2-Tetrachloroethane	UG/L	-	-	0.055		< 16	< 0.31	< 0.31	< 6.2	< 0.31	< 0.31	< 0.31	< 0.31	< 0.62	< 3.1	< 6.2	< 0.31	< 0.31	< 0.31
8260B	1,1,2-Trichloroethane	UG/L	5	-	0.2		< 18	< 0.35	< 0.35	< 7	< 0.35	< 0.35	< 0.35	0.36 J	< 0.7	< 3.5	< 7	< 0.35	< 0.35	< 0.35
8260B	1,1-Dichloroethane	UG/L	-	-	1200		< 19	< 0.37	< 0.37	< 7.5	< 0.37	< 0.37	< 0.37	< 0.37	< 0.75	< 3.7	< 7.5	< 0.37	< 0.37	< 0.37
8260B	1,1-Dichloroethene	UG/L	7	-	340		< 21	< 0.43	< 0.43	< 8.5	< 0.43	< 0.43	< 0.43	< 0.43	< 0.85	< 4.3	< 8.5	< 0.43	< 0.43	< 0.43
8260B	1,2-Dibromoethane (EDB)	UG/L	0.05	-	0.0056		< 15	< 0.3	< 0.3	< 6	< 0.3	< 0.3	< 0.3	< 0.3	< 0.6	< 3	< 6	< 0.3	< 0.3	< 0.3
8260B	1,2-Dichlorobenzene	UG/L	600	-	49		1400	< 0.43	30	420	< 0.43	6	< 0.43	0.5 J	< 0.87	41	380	29	< 0.43	< 0.43
8260B	1,2-Dichloroethane	UG/L	5	-	0.12		410	< 0.39	2.1	1200	< 0.39	< 0.39	< 0.39	15	110	600	1200	2.4	1.8	0.6 J
8260B	1,2-Dichloroethene (total)	UG/L	-	-	-		< 37	< 0.73	< 0.73	< 15	< 0.73	< 0.73	< 0.73	< 0.73	< 1.5	< 7.3	< 15	< 0.73	< 0.73	< 0.73
8260B	1,2-Dichloropropane	UG/L	5	-	0.17		< 19	< 0.37	< 0.37	< 7.5	< 0.37	< 0.37	< 0.37	0.84 J	< 0.75	< 3.7	< 7.5	< 0.37	< 0.37	< 0.37
8260B	1,3-Dichlorobenzene	UG/L	-	-	15		< 19	< 0.39	< 0.39	< 7.7	< 0.39	< 0.39	< 0.39	4.6	< 0.77	< 3.9	< 7.7	< 0.39	< 0.39	< 0.39
8260B	1,4-Dichlorobenzene	UG/L	75	-	0.47		26 J	< 0.38	0.61 J	< 7.5	< 0.38	< 0.38	< 0.38	< 0.38	< 0.75	< 3.8	< 7.5	0.59 J	< 0.38	< 0.38
8260B	2-Butanone (MEK)	UG/L	-	-	7100		< 42	< 0.84	< 0.84	< 17	< 0.84	< 0.84	< 0.84	< 0.84	4.5 J	< 8.4	< 17	< 0.84	< 0.84	< 0.84
8260B	2-Chloroethyl vinyl ether	UG/L	-	-	-		< 31	< 0.62	< 0.62	< 12	< 0.62	< 0.62	< 0.62	< 0.62	< 1.2	< 6.2	< 12	< 0.62	< 0.62	< 0.62
8260B	2-Hexanone	UG/L	-	-	-		< 13	< 0.27	< 0.27	< 5.3	< 0.27	< 0.27	< 0.27	< 0.27	< 0.53	< 2.7	< 5.3	< 0.27	< 0.27	< 0.27
8260B	4-Methyl-2-pentanone (MIBK)	UG/L	-	-	2000		21 J	< 0.42	< 0.42	< 8.3	< 0.42	< 0.42	< 0.42	< 0.42	< 0.83	< 4.2	< 8.3	< 0.42	< 0.42	< 0.42
8260B	Acetone	UG/L	-	-	5500		120 J	< 0.82	8.8 UB	33 J	< 0.82	6.2 UB	< 5.0 UB	< 5.0 UB	15 U	< 8.2	34 J	8 UB	5.3 UB	8.2 UB
8260B	Benzene	UG/L	5	-	0.35		< 20	< 0.39	7.3	9.6 J	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78	< 3.9	8.9 J	7.2	< 0.39	< 0.39
8260B	Bromobenzene	UG/L	-	-	23		< 20	< 0.39	< 0.39	< 7.9	< 0.39	< 0.39	< 0.39	< 0.39	< 0.79	< 3.9	< 7.9	< 0.39	< 0.39	< 0.39
8260B	Bromochloromethane	UG/L	-	-	-		< 18	< 0.37	< 0.37	< 7.4	< 0.37	< 0.37	< 0.37	< 0.37	< 0.74	< 3.7	< 7.4	< 0.37	< 0.37	< 0.37
8260B	Bromodichloromethane	UG/L	-	-	0.18		< 18	< 0.37	< 0.37	< 7.4	< 0.37	< 0.37	< 0.37	< 0.37	< 0.74	< 3.7	< 7.4	< 0.37	< 0.37	< 0.37
8260B	Bromoform	UG/L	-	-	8.5		< 13	< 0.27	< 0.27	< 5.4	< 0.27	< 0.27	< 0.27	< 0.27	< 0.54	< 2.7	< 5.4	< 0.27	< 0.27	< 0.27
8260B	Bromomethane	UG/L	-	-	8.7		< 36	< 0.72	< 0.72	< 14	< 0.72	< 0.72	< 0.72	< 0.72	< 1.4	< 7.2	< 14	< 0.72	< 0.72	< 0.72
8260B	Carbon disulfide	UG/L	-	-	1000		< 19	< 0.38	< 0.38	< 7.7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.77	< 3.8	< 7.7	< 0.38	< 0.38	< 0.38
8260B	Carbon tetrachloride	UG/L	5	-	0.17		< 20	< 0.41	< 0.41	< 8.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.81	< 4.1	< 8.1	< 0.41	< 0.41	< 0.41
8260B	Chlorobenzene	UG/L	100	-	91		190	< 0.33	11	180	< 0.33	< 0.33	< 0.33	< 0.33	11	19	160	11	< 0.33	< 0.33
8260B	Chloroethane	UG/L	-	-	3.9		< 22	< 0.45	**7.4**	< 9	< 0.45	< 0.45	< 0.45	< 0.45	1.3 J	< 4.5	< 9	**7.3**	< 0.45	< 0.45
8260B	Chloroform	UG/L	-	-	0.17		**21 J**	< 0.35	< 0.35	< 7	**0.87 J**	**0.43 J**	< 0.35	**0.56 J**	< 0.7	< 3.5	< 7	< 0.35	< 0.35	< 0.35
8260B	Chloromethane	UG/L	-	-	2.1		< 24	< 0.48	< 0.48	< 9.6	< 0.48	< 0.48	< 0.48	< 0.48	1.5 J	< 4.8	< 9.6	< 0.48	< 0.48	< 0.48
8260B	cis-1,2-Dichloroethene	UG/L	70	-	61		< 18	< 0.37	< 0.37	< 7.3	< 0.37	< 0.37	< 0.37	< 0.37	< 0.73	< 3.7	< 7.3	< 0.37	< 0.37	< 0.37
8260B	cis-1,3-Dichloropropene	UG/L	-	-	0.4		< 15	< 0.31	< 0.31	< 6.1	< 0.31	< 0.31	< 0.31	< 0.31	< 0.61	< 3.1	< 6.1	< 0.31	< 0.31	< 0.31
8260B	Dibromochloromethane	UG/L	-	-	0.13		< 14	< 0.28	< 0.28	< 5.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.56	< 2.8	< 5.6	< 0.28	< 0.28	< 0.28
8260B	Dibromomethane	UG/L	-	-	61		< 20	< 0.41	< 0.41	< 8.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.81	< 4.1	< 8.1	< 0.41	< 0.41	< 0.41
8260B	Ethylbenzene	UG/L	700	-	1300		27 J	< 0.42	< 0.42	< 8.3	< 0.42	< 0.42	< 0.42	< 0.42	< 0.83	< 4.2	< 8.3	< 0.42	< 0.42	< 0.42
8260B	Methylene chloride	UG/L	5	-	4.3		3300	< 0.42	< 0.42	< 8.4	< 0.42	< 0.42	< 0.42	< 0.42	< 0.84	< 4.2	< 8.4	< 0.42	< 0.42	< 0.42
8260B	m-Xylene & p-Xylene	UG/L	-	-	-		110	< 0.83	< 0.83	< 17	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 8.3	< 17	< 0.83	< 0.83	< 0.83
8260B	o-Xylene	UG/L	-	-	1400		58	< 0.39	< 0.39	< 7.7	< 0.39	< 0.39	< 0.39	< 0.39	< 0.77	< 3.9	< 7.7	< 0.39	< 0.39	< 0.39
8260B	Styrene	UG/L	100	-	1600		< 16	< 0.31	< 0.31	< 6.2	< 0.31	< 0.31	< 0.31	< 0.31	< 0.62	< 3.1	< 6.2	< 0.31	< 0.31	< 0.31
8260B	Tetrachloroethene	UG/L	5	-	0.11		< 20	< 0.4	< 0.4	< 8	< 0.4	< 0.4	< 0.4	< 0.4	< 0.8	< 4	< 8	< 0.4	< 0.4	< 0.4
8260B	Toluene	UG/L	1000	-	2300		130	< 0.39	< 0.39	< 7.8	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78	< 3.9	< 7.8	< 0.39	< 0.39	< 0.39
8260B	trans-1,2-Dichloroethene	UG/L	100	-	110		< 19	< 0.37	< 0.37	< 7.4	< 0.37	< 0.37	< 0.37	< 0.37	< 0.74	< 3.7	< 7.4	< 0.37	< 0.37	< 0.37
8260B	trans-1,3-Dichloropropene	UG/L	-	-	0.4		< 10	< 0.21	< 0.21	< 4.2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.42	< 2.1	< 4.2	< 0.21	< 0.21	< 0.21
8260B	Trichloroethene	UG/L	5	-	0.028		< 22	< 0.45	< 0.45	< 9	< 0.45	< 0.45	< 0.45	< 0.45	< 0.9	< 4.5	< 9	< 0.45	< 0.45	< 0.45
8260B	Trichlorofluoromethane	UG/L	-	-	1300		< 24	< 0.47	< 0.47	< 9.5	< 0.47	< 0.47	< 0.47	< 0.47	1 J	< 4.7	< 9.5	< 0.47	< 0.47	< 0.47
8260B	Vinyl acetate	UG/L	-	-	410		< 15	< 0.29	< 0.29	< 5.9	< 0.29	< 0.29	< 0.29	< 0.29	< 0.59	< 2.9	< 5.9	< 0.29	< 0.29	< 0.29
8260B	Vinyl chloride	UG/L	2	-	0.015		< 20	< 0.4	< 0.4	< 8	< 0.4	< 0.4	< 0.4	< 0.4	1.2 J	< 4	< 8	< 0.4	< 0.4	< 0.4
8260B	Xylenes (total)	UG/L	10000	-	200		170	< 1.2	< 1.2	< 24	< 1.2	< 1.2	< 1.2	< 1.2	< 2.4	< 12	< 24	< 1.2	< 1.2	< 1.2
	Semivolatile Organic Compounds																			
8270C	1,2,4-Trichlorobenzene	UG/L	70	-	8.2		30	< 1.3	< 0.81	< 8.1	< 0.81	< 0.81	< 0.82	< 0.81	< 0.82	< 0.81	< 8.1	< 0.81	< 0.81	< 0.81
8270C	1,2-Dichlorobenzene	UG/L	600	-	49		1200	< 1.5	30	**420**	< 0.93	4.4 J	1.2 J	< 0.93	< 0.95	28	470	22	< 0.93	< 0.93
8270C	1,3-Dichlorobenzene	UG/L	-	-	15		< 0.94	< 1.5	< 0.95	< 9.6	< 0.95	< 0.96	< 0.97	**53**	< 0.97	< 0.96	< 9.6	< 0.96	< 0.95	< 0.95
8270C	1,4-Dichlorobenzene	UG/L	75	-	0.47		< 0.77	< 1.2	0.61J	< 7.8	< 0.78	< 0.78	< 0.79	< 0.78	< 0.79	< 0.78	< 7.8	< 0.78	< 0.78	< 0.78
8270C	2,4,5-Trichlorophenol	UG/L	-	-	3700		< 0.95	< 1.5	< 0.96	< 9.7	< 0.96	< 0.97	< 0.98	< 0.96	< 0.98	< 0.97	< 9.7	< 0.97	< 0.96	< 0.96
8270C	2,4,6-Trichlorophenol	UG/L	-	-	6.1		< 1	< 1.7	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	2,4-Dichlorophenol	UG/L	-	-	110		4 J	< 1.6	< 0.99	< 9.9	< 0.99	< 1	< 1	9.6	< 1	< 1	< 9.9	< 1	< 0.99	< 0.99
8270C	2,4-Dimethylphenol	UG/L	-	-	730		8.9 J	< 2.9	< 1.8	< 18	< 1.8	< 1.8	< 1.9	< 1.8	< 1.9	< 1.8	< 18	< 1.8	< 1.8	< 1.8
8270C	2,4-Dinitrophenol	UG/L	-	-	73		< 3.6	< 5.8	< 3.6	< 36	< 3.6	< 3.6	< 3.7	< 3.6	< 3.7	< 3.6	< 36	< 3.6	< 3.6	< 3.6
8270C	2,4-Dinitrotoluene	UG/L	-	-	73		< 2.7	< 4.4	< 2.8	< 28	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 28	< 2.8	< 2.8	< 2.8
8270C	2,6-Dinitrotoluene	UG/L	-	-	37		< 0.97	< 1.6	< 0.98	< 9.9	< 0.98	< 1	< 1	< 0.98	< 1	< 1	< 9.9	< 1	< 0.98	< 0.98
8270C	2-Chloronaphthalene	UG/L	-	-	490		< 1.4	< 2.2	< 1.4	< 14	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 14	< 1.4	< 1.4	< 1.4

Analytical Results of January 2008 Groundwater Sampling
Cedar Chemical Facility
Helena-West Helena, AR

Analytical Method	Analyte	Units	Primary Drinking Water Standard (ug/L)	Secondary Drinking Water Standard (ug/L)	Region 6 TapWater MSSL (ug/l)	Sample ID Sample Date	2MW-1 01/11/2008	2MW-2 01/10/2008	2MW-3 01/14/2008	2MW-4 01/11/2008	2MW-5 01/10/2008	2MW-6 01/14/2008	2MW-7 01/11/2008	4MW-3 01/11/2008	4MW-4 01/14/2008	9MW-1 01/10/2008	DUP-1 01/11/2008	DUP-2 01/14/2008	DUP-3 01/15/2008	EMW-1 01/14/2008
Semivolatile Organic Compounds (continued)																				
8270C	2-Chlorophenol	UG/L	-	-	30		< 1.4	< 2.3	< 1.4	< 14	< 1.4	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 14	< 1.4	< 1.4	< 1.4
8270C	2-Methylnaphthalene	UG/L	-	-	-		< 0.92	< 1.5	< 0.93	< 9.3	< 0.93	< 0.94	< 0.95	< 0.93	< 0.95	< 0.94	< 9.3	< 0.94	< 0.93	< 0.93
8270C	2-Methylphenol	UG/L	-	-	1800		< 1.7	< 2.8	< 1.8	< 18	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 18	< 1.8	< 1.8	< 1.8
8270C	2-Nitroaniline	UG/L	-	-	110		< 1.1	< 1.8	< 1.1	< 11	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 11	< 1.2	< 1.1	< 1.1
8270C	2-Nitrophenol	UG/L	-	-	-		< 1	< 1.6	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1
8270C	3,3'-Dichlorobenzidine	UG/L	-	-	0.15		< 1.6	< 2.6	< 1.6	< 16	< 1.6	< 1.7	< 1.7	< 1.6	< 1.7	< 1.7	< 16	< 1.7	< 1.6	< 1.6
8270C	3,4-Dichloroaniline	UG/L	-	-	-		27000	< 15	110	2800	8.8 J	4.9 J	49	< 9.6	3.9 J	41	2600	140	6.6 J	< 9.6
8270C	3-Methylphenol & 4-Methylphenol	UG/L	-	-	180		12 J	< 4	< 2.5	< 25	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 25	< 2.5	< 2.5	< 2.5
8270C	3-Nitroaniline	UG/L	-	-	-		< 1.2	< 1.9	< 1.2	< 12	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 12	< 1.2	< 1.2	< 1.2
8270C	4,6-Dinitro-2-methylphenol	UG/L	-	-	-		< 3.4 UJ	< 5.5	< 3.4 UJ	< 34 UJ	< 3.4	< 3.5 UJ	< 3.5 UJ	< 3.4 UJ	< 3.5 UJ	< 3.5	< 34 UJ	< 3.5 UJ	< 3.4 UJ	< 3.4 UJ
8270C	4-Bromophenyl phenyl ether	UG/L	-	-	-		< 0.89	< 1.4	< 0.9	< 9	< 0.9	< 0.91	< 0.91	< 0.9	< 0.91	< 0.91	< 9	< 0.91	< 0.9	< 0.9
8270C	4-Chloro-3-methylphenol	UG/L	-	-	-		< 1	< 1.7	< 1	< 10	< 1	< 1	< 1.1	< 1	< 1.1	< 1	< 10	< 1	< 1	< 1
8270C	4-Chloroaniline	UG/L	-	-	150		45	< 2.6	7.9 J	**260**	< 1.6	< 1.6	< 1.6	< 1.6	2.6 J	30	**270**	8.3 J	< 1.6	< 1.6
8270C	4-Chlorophenyl phenyl ether	UG/L	-	-	-		< 1.4	< 2.2	< 1.4	< 14	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 14	< 1.4	< 1.4	< 1.4
8270C	4-Nitroaniline	UG/L	-	-	-		< 1	< 1.7	< 1	< 10	< 1	< 1.1	< 1.1	< 1	< 1.1	< 1.1	< 10	< 1.1	< 1	< 1
8270C	4-Nitrophenol	UG/L	-	-	290		< 3.9	< 6.3	< 3.9	< 39	< 3.9	< 4	< 4	< 3.9	< 4	< 4	< 39	< 4	< 3.9	< 3.9
8270C	Acenaphthene	UG/L	-	-	370		< 1	< 1.7	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	Acenaphthylene	UG/L	-	-	-		< 0.86	< 1.4	< 0.87	< 8.7	< 0.87	< 0.88	< 0.89	< 0.87	< 0.89	< 0.88	< 8.7	< 0.88	< 0.87	< 0.87
8270C	Aniline	UG/L	-	-	12		< 1.9	< 3.2	< 2	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 20	< 2	< 2	< 2
8270C	Anthracene	UG/L	-	-	1800		< 1.1	< 1.7	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	Benzo(a)anthracene	UG/L	-	-	0.03		< 1.1	< 1.7	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	Benzo(a)pyrene	UG/L	0.2	-	0.003		< 1.1	< 1.7	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	Benzo(b)fluoranthene	UG/L	-	-	0.03		< 0.75	< 1.2	< 0.76	< 7.6	< 0.76	< 0.76	< 0.77	< 0.76	< 0.77	< 0.76	< 7.6	< 0.76	< 0.76	< 0.76
8270C	Benzo(ghi)perylene	UG/L	-	-	-		< 0.72	< 1.2	< 0.73	< 7.3	< 0.73	< 0.74	< 0.75	< 0.73	< 0.75	< 0.74	< 7.3	< 0.74	< 0.73	< 0.73
8270C	Benzo(k)fluoranthene	UG/L	-	-	0.3		< 1.2	< 1.9	< 1.2	< 12	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 12	< 1.2	< 1.2	< 1.2
8270C	Benzoic acid	UG/L	-	-	150000		< 13	< 21	< 13	< 130	< 13	< 13	< 13	< 13	< 13	< 13	< 130	< 13	< 13	< 13
8270C	Benzyl alcohol	UG/L	-	-	11000		< 1.6	< 2.5	< 1.6	< 16	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 16	< 1.6	< 1.6	< 1.6
8270C	bis(2-Chloroethoxy)methane	UG/L	-	-	-		< 1.1	< 1.7	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	bis(2-Chloroethyl) ether	UG/L	-	-	0.0098		< 1.1	< 1.8	**20**	< 12	< 1.1	< 1.2	< 1.2	< 1.1	**28**	< 1.2	< 12	**8.1 J**	< 1.1	< 1.1
8270C	bis(2-Chloroisopropyl) ether	UG/L	-	-	0.27		< 1.2	< 1.9	< 1.2	< 12	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 12	< 1.2	< 1.2	< 1.2
8270C	bis(2-Ethylhexyl) phthalate	UG/L	6	-	4.8		< 2.6	< 15 UB	< 2.6	< 26	< 9.6 UB	< 2.7	< 2.7	< 2.6	4 J	< 9.7 UB	< 26	< 2.7	23 J	< 2.6
8270C	Butyl benzyl phthalate	UG/L	-	-	7300		< 0.94	< 15 UB	< 0.95	< 9.5	< 0.95	< 0.96	< 0.97	< 0.95	< 0.97	< 0.96	< 9.5	< 0.96	< 0.95	< 0.95
8270C	Chrysene	UG/L	-	-	3		< 1	< 1.7 UJ	< 1	< 10	< 1 UJ	< 1	< 1.1	< 1	< 1.1	< 1 UJ	< 10	< 1	< 1	< 1
8270C	Dibenz(a,h)anthracene	UG/L	-	-	0.003		< 0.96 UJ	< 1.6	< 0.97 UJ	< 9.7 UJ	< 0.97	< 0.98 UJ	< 0.99 UJ	< 0.97 UJ	< 0.99 UJ	< 0.98	< 9.7 UJ	< 0.98 UJ	< 0.97 UJ	< 0.97 UJ
8270C	Dibenzofuran	UG/L	-	-	12		< 1	< 1.6	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1
8270C	Diethyl phthalate	UG/L	-	-	29000		< 1.4	< 2.3	< 1.4	< 14	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 14	< 1.4	< 1.4	3.4 J
8270C	Dimethyl phthalate	UG/L	-	-	370000		< 1.2	< 1.9	< 1.2	< 12	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 12	< 1.2	< 1.2	< 1.2
8270C	Di-n-butyl phthalate	UG/L	-	-	3700		< 1.1	< 1.7	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	Di-n-octyl phthalate	UG/L	-	-	-		< 1.1	< 1.7	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	Dinoseb	UG/L	7	-	37		< 0.51	12 J	< 0.52	< 5.2	22	< 0.53	< 0.53	< 0.52	< 0.53	< 0.53	< 5.2	< 0.53	< 0.52	8.5 J
8270C	Fluoranthene	UG/L	-	-	1500		< 0.87	< 1.4	< 0.88	< 8.9	< 0.88	< 0.89	< 0.9	< 0.88	< 0.9	< 0.89	< 8.9	< 0.89	< 0.88	< 0.88
8270C	Fluorene	UG/L	-	-	240		< 0.96	< 1.6	< 0.97	< 9.8	< 0.97	< 0.98	< 0.99	< 0.97	< 0.99	< 0.98	< 9.8	< 0.98	< 0.97	< 0.97
8270C	Hexachlorobenzene	UG/L	1	-	0.042		< 1.4	< 2.3	< 1.4	< 14	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 14	< 1.4	< 1.4	< 1.4
8270C	Hexachlorobutadiene	UG/L	-	-	0.86		< 1.2	< 2	< 1.2	< 12	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 12	< 1.2	< 1.2	< 1.2
8270C	Hexachlorocyclopentadiene	UG/L	50	-	220		< 3.2	< 5.2	< 3.3	< 33	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	< 3.3	< 33	< 3.3	< 3.3	< 3.3
8270C	Hexachloroethane	UG/L	-	-	4.8		< 0.89	< 1.4	< 0.9	< 9	< 0.9	< 0.91	< 0.92	< 0.9	< 0.92	< 0.91	< 9	< 0.91	< 0.9	< 0.9
8270C	Indeno(1,2,3-cd)pyrene	UG/L	-	-	0.03		< 1.1	< 1.8	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	Isophorone	UG/L	-	-	71		< 1	< 1.7	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	Naphthalene	UG/L	-	-	6.2		< 0.83	< 1.3	< 0.84	< 8.4	< 0.84	< 0.85	< 0.86	< 0.84	< 0.86	< 0.85	< 8.4	< 0.85	< 0.84	< 0.84
8270C	Nitrobenzene	UG/L	-	-	3.4		< 1.1	< 1.7	< 1.1	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 11	< 1.1	< 1.1	< 1.1
8270C	N-Nitrosodi-n-propylamine	UG/L	-	-	0.0096		< 0.99	< 1.6	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1
8270C	N-Nitrosodiphenylamine	UG/L	-	-	14		< 0.89	< 1.4	< 0.9	< 9	< 0.9	< 0.91	< 0.92	< 0.9	< 0.92	< 0.91	< 9	< 0.91	< 0.9	< 0.9
8270C	Pentachlorophenol	UG/L	1	-	0.56		< 5.2	< 8.4	< 5.2	< 52	< 5.2	< 5.3	< 5.3	< 5.2	< 5.3	< 5.3	< 52	< 5.3	< 5.2	< 5.2
8270C	Phenanthrene	UG/L	-	-	-		< 0.95	< 1.5	< 0.96	< 9.6	< 0.96	< 0.97	< 0.98	< 0.96	< 0.98	< 0.97	< 9.6	< 0.97	< 0.96	< 0.96
8270C	Phenol	UG/L	-	-	11000		23	< 3.3	< 2	< 21	< 2	< 2.1	< 2.1	< 2	< 2.1	< 2.1	< 21	< 2.1	< 2	< 2
8270C	Propanil	UG/L	-	-	180		**530 J**	< 15	< 9.6	< 96	< 9.6	< 9.7	< 9.8	< 9.6	< 9.8	< 9.7	< 96	6 J	< 9.6	< 9.6
8270C	Pyrene	UG/L	-	-	180		< 0.87	< 1.4	< 0.88	< 8.8	< 0.88	< 0.89	< 0.9	< 0.88	< 0.9	< 0.89	< 8.8	< 0.89	< 0.88	< 0.88

Analytical Results of January 2008 Groundwater Sampling
Cedar Chemical Facility
Helena-West Helena, AR

Analytical Method	Analyte	Units	Primary Drinking Water Standard (ug/L)	Secondary Drinking Water Standard (ug/L)	Region 6 TapWater MSSL (ug/l)	Sample ID Sample Date	2MW-1 01/11/2008	2MW-2 01/10/2008	2MW-3 01/14/2008	2MW-4 01/11/2008	2MW-5 01/10/2008	2MW-6 01/14/2008	2MW-7 01/11/2008	4MW-3 01/11/2008	4MW-4 01/14/2008	9MW-1 01/10/2008	DUP-1 01/11/2008	DUP-2 01/14/2008	DUP-3 01/15/2008	EMW-1 01/14/2008
	Dissolved Gases																			
SOP-175	Ethane	UG/L	-	-	-		< 0.062	< 0.062	< 0.062	13 J	< 0.062	< 0.062	< 0.062	< 0.062	1.7	< 0.062	8.7 J	< 0.062	< 0.062	< 0.062
SOP-175	Ethene	UG/L	-	-	-		150	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	0.52	< 0.057	0.75	< 0.057	< 0.057	< 0.057
SOP-175	Methane	UG/L	-	-	-		13000	0.35 J	780	3800 J	0.26 J	67	7.7	0.24 J	290	760	2000 J	820	19	29
SOP-175	Carbon Dioxide	UG/L	-	-	-		1600	1900	410	1200	370	360	330	370	750	970	2500	430	1200	540
SOP-175	Nitrogen	UG/L	-	-	-		3700	4400	4300	4300	4600	4500	4800	4600	4100	4700	3300	5900	3700	4600
SOP-175	Oxygen	UG/L	-	-	-		1300	1500	1400	1400	1600	1600	1600	1500	1300	1500	1100	2000	1300	1600
SOP-175	Carbon Monoxide	UG/L	-	-	-		< 13	< 13	67	49 J	< 13	< 13	< 13	< 13	< 13	< 13	< 13	58	< 13	< 13

Analytical Results of January 2008 Groundwater Sampling
Cedar Chemical Facility
Helena-West Helena, AR

Analytical Method	Analyte	Units	Primary Drinking Water Standard (ug/L)	Secondary Drinking Water Standard (ug/L)	Region 6 TapWater MSSL (ug/l)	Sample ID Sample Date	EMW-2 01/11/2008	EMW-4 01/14/2008	EMW-6 01/09/2008	EMW-6A 01/09/2008	EMW-6B 01/09/2008	EMW-6C 01/09/2008	EMW-7 01/10/2008	IMW-1 01/15/2008	IMW-2 01/15/2008	IMW-3 01/15/2008	IMW-4 01/15/2008	IMW-5 01/15/2008	IMW-6 01/15/2008	IMW-7 01/14/2008
	General Groundwater Parameters																			
2320 B	Total Alkalinity	UG/L	-	-	-		84900	574000	490000	330000	513000	388000	495000	111000	397000	581000	532000	310000	617000	271000
300.0A	Nitrate as N	UG/L	10000	-	10000		1560	< 15	< 15	< 15	< 15	338 J	< 15	678	< 15	263 J	1190	445 J	< 15	< 15
300.0A	Nitrite as N	UG/L	1000	-	1000		< 22	< 22 UJ	< 22	< 110	< 44	< 22	< 22	< 22	< 22	< 22	< 22	< 22	< 1100	< 22 UJ
300.0A	Sulfate	UG/L	-	250000	-		46200	113000	34000	5330	101000	104000	119000	10700	19500	47300	65500	22000	123000	26800
350.1	Nitrogen, as Ammonia	UG/L	-	-	210		52.9 J	**366 J**	162	**1850**	**382**	**601**	**414**	< 100 UJ	< 36 UJ	< 36 UJ	< 36 UJ	< 36 UJ	**1620 J**	**791 J**
	Metals																			
6020	Aluminum	UG/L	-	50	37000		161	299	45 J	< 30.3	95.5	< 30.3	38.8 J	545	30.8 J	< 30.3	< 30.3	423	124	80.4
6020	Antimony	UG/L	6	-	15		< 1.0 UB	1.4	< 1.0 UB	< 1.0 UB	2.5	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB	< 1.0 UB
6020	Arsenic	UG/L	10	-	0.045		1.3	34.3	2.7	5.7	16.7	14.9	7.8	10.7 J	5.8	< 1.0 UB	< 1.0 UB	1.1	3.9	< 1.0 UB
6020	Barium	UG/L	2000	-	7300		36.4	623	216	773	313	190	163	90.7	98.1	128	103	106	819	541
6020	Beryllium	UG/L	4	-	73		< 0.023	0.067 J	< 0.023	< 0.023	< 0.023	< 0.046	< 0.023	0.025 J	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
6020	Cadmium	UG/L	5	-	18		0.099 J	0.11 J	< 0.023	< 0.023	2.9	0.52 J	< 0.023	< 0.023	< 0.023	0.16 J	0.14 J	< 0.023	< 0.023	< 0.023
6020	Calcium	UG/L	-	-	-		23800	157000	106000	221000	91600	41000	160000	25800	67400	86600	99000	53000	362000	114000
6020	Chromium	UG/L	100	-	-		11.3	22.2	4.5	4.1	0.85 J	< 0.56	1.5	1.4	3	< 0.56	0.56 J	1.9	3.2	< 0.56
6020	Cobalt	UG/L	-	-	730		0.15 J	2.8	0.36 J	0.5 J	3.7	4.9	0.8 J	0.45 J	0.66 J	0.1 J	0.12 J	0.24 J	1.1	0.18 J
6020	Copper	UG/L	1300	1000	1400		1.6	3.6	0.79 J	1.2	3.5	5.2	1.2	2.4	3.3	2.1	1.5	1.2	7	0.72 J
6020	Iron	UG/L	-	300	26000		184	4300	3220	11500	285	342	3010	932	1580	19.6 J	39.3 J	682	7270	2340
6020	Dissolved Iron	UG/L		300	26000		23.5 J	166	17.1 J	232	< 13.8	< 13.8	72.2	53.8	170	< 13.8	< 13.8	22.4 J	419	74.2
6020	Lead	UG/L	15	-	15		0.34 J	1	0.15 J	< 0.05	0.4 J	0.083 J	0.13 J	0.43 J	0.3 J	0.16 J	0.061 J	0.37 J	1.2	0.22 J
6020	Magnesium	UG/L	-	-	-		8950 J	81600	45700	97500	41300	18000	64600	12600	54700	67600	85300	30000	178000	48900
6020	Manganese	UG/L	-	50	1700		8.3 J	394	294	97500	2320	4600	400	99.4	573	51.3	47.1	15.8	700	289
6020	Dissolved Manganese	UG/L		50	1700		5.1 J	293	202	416	2060	3970	363	65.7	198	63.9	83.8	3 J	678	289
6020	Nickel	UG/L	-	-	730		2.9	55.4	15.3	25.2	66.1	35.1	7.5	4.2	3.7	2.9	4.8	1.2	8.1	1.5
6020	Potassium	UG/L	-	-	-		1440	2150 J	2860	940 J	695 J	283 J	1850	2240 J	< 220	324 J	305 J	246 J	2080 J	1670 J
6020	Selenium	UG/L	50	-	180		1.5	< 1.0 UB	0.33 J	1.5	1.9	1.1	0.55 J	< 0.11	< 1.0 UB	< 1.0 UB	4.1 J	2.2 J	< 1.0 UB	< 1.0 UB
6020	Silver	UG/L	-	100	180		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
6020	Sodium	UG/L	-	-	-		22000	179000	42100	37100	169000	146000	59000	10300	34900	183000	128000	42500	239000	20600
6020	Thallium	UG/L	2	-	2.6		< 0.019	< 0.019	< 0.019	< 0.019	0.88 J	0.028 J	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
6020	Vanadium	UG/L	-	-	180		1.2	1	0.29 J	0.29 J	10.8	1.2	0.45 J	2.9	0.22 J	1.5	1.3	2	0.22 J	0.2 J
6020	Zinc	UG/L	-	5000	11000		3.9 J	19	154	59.5	13.4	15.5	206	7.3 J	3.4 J	5.5 J	4.4 J	4 J	20.4	10.1
7470A	Mercury	UG/L	2	-	0.63		< 0.2 UB	< 0.06	< 0.06	< 0.06	< 0.2 UB	< 0.2 UB	< 0.2 UB	0.22	< 0.06	< 0.06	0.13 J	0.091 J	0.13 J	2.4
7196A	Diss Hexavalent Cr	UG/L	-	-	110		7 J	7 J	6 J	3 J	8 J	8 J	6 J	5 J	8 J	7 J	6 J	6 J	< 2.2	8 J
	Organochlorine Pesticides																			
8081A	4,4'-DDD	UG/L	-	-	0.28		< 0.0077	< 0.0077	< 0.0077 UJ	< 0.0077	< 0.038	< 0.038	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077 UJ	< 0.0077
8081A	4,4'-DDE	UG/L	-	-	0.2		< 0.0075	< 0.0075	< 0.0075 UJ	< 0.0075	< 0.038	< 0.038	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075 UJ	< 0.0075
8081A	4,4'-DDT	UG/L	-	-	0.2		< 0.015	< 0.015	< 0.015 UJ	< 0.015	< 0.074	< 0.074	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015 UJ	< 0.015
8081A	Aldrin	UG/L	-	-	0.004		< 0.0059	< 0.0059	< 0.0059 UJ	< 0.0059	< 0.03	< 0.03	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059 UJ	< 0.0059
8081A	alpha-BHC	UG/L	-	-	0.011		< 0.0053	< 0.0053	< 0.0053 UJ	< 0.0053	**0.11 J**	**0.082 J**	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053 UJ	< 0.0053
8081A	alpha-Chlordane	UG/L	-	-	-		< 0.0053	< 0.0053	< 0.0053 UJ	< 0.0053	< 0.026	< 0.026	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053 UJ	< 0.0053
8081A	beta-BHC	UG/L	-	-	0.037		< 0.0087	**0.092 J**	< 0.0087 UJ	< 0.0087	**0.96 J**	**0.3**	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.0087	0.014 J	< 0.0087 UJ	< 0.0087
8081A	Chlordane (technical)	UG/L	2	-	0.19		< 0.14	< 0.14	< 0.14 UJ	< 0.14	< 0.7	< 0.7	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14 UJ	< 0.14
8081A	delta-BHC	UG/L	-	-	-		< 0.0058	< 0.0058	< 0.0058 UJ	< 0.0058	0.3	< 0.029	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058 UJ	< 0.0058
8081A	Dieldrin	UG/L	-	-	0.0042		< 0.0063	< 0.0063	< 0.0063 UJ	< 0.0063	< 0.032	< 0.032	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063 UJ	< 0.0063
8081A	Endosulfan I	UG/L	-	-	-		< 0.0058	< 0.0058	< 0.0058 UJ	< 0.0058	< 0.029	< 0.029	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058 UJ	< 0.0058
8081A	Endosulfan II	UG/L	-	-	-		< 0.007	< 0.007	< 0.007 UJ	< 0.007	0.038 J	< 0.035	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007 UJ	< 0.007
8081A	Endosulfan sulfate	UG/L	-	-	-		< 0.0057	< 0.0057	< 0.0057 UJ	< 0.0057	< 0.028	< 0.028	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057 UJ	< 0.0057
8081A	Endrin	UG/L	2	-	11		< 0.0079	< 0.0079	< 0.0079 UJ	< 0.0079	< 0.04	< 0.04	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079 UJ	< 0.0079
8081A	Endrin aldehyde	UG/L	-	-	-		< 0.0088	< 0.0088	< 0.0088 UJ	< 0.0088	< 0.044	< 0.044	< 0.0088	< 0.0088	< 0.0088	< 0.0088	< 0.0088	< 0.0088	< 0.0088 UJ	< 0.0088
8081A	Endrin ketone	UG/L	-	-	-		< 0.007	< 0.007	< 0.007 UJ	< 0.007	< 0.035	< 0.035	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007 UJ	< 0.007
8081A	gamma-BHC (Lindane)	UG/L	0.2	-	0.052		< 0.0069	0.015 J	< 0.0069 UJ	< 0.0069	< 0.034	< 0.034	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069 UJ	< 0.0069
8081A	gamma-Chlordane	UG/L	-	-	-		< 0.0091	< 0.0091	< 0.0091 UJ	< 0.0091	< 0.046	0.1 J	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0091 UJ	< 0.0091
8081A	Heptachlor	UG/L	0.4	-	0.015		< 0.0077	< 0.0077	< 0.0077 UJ	< 0.0077	< 0.038	< 0.038	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077 UJ	< 0.0077
8081A	Heptachlor epoxide	UG/L	0.2	-	0.0074		< 0.0075	< 0.0075	< 0.0075 UJ	< 0.0075	< 0.038	0.12 J	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075 UJ	< 0.0075
8081A	Methoxychlor	UG/L	40	-	180		< 0.013	< 0.013	< 0.013 UJ	< 0.013	< 0.065	< 0.065	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013 UJ	< 0.013
8081A	Toxaphene	UG/L	3	-	0.061		< 0.37	< 0.37	< 0.37 UJ	< 0.37	< 1.8	< 1.8	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37 UJ	< 0.37
	Herbicides																			
8151A	Dinoseb	UG/L	7	-	37		< 0.24	0.73	< 0.24	0.29 J	< 0.24	< 0.24	0.47 J	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24

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Helena-West Helena, AR

Analytical Method	Analyte	Units	Primary Drinking Water Standard (ug/L)	Secondary Drinking Water Standard (ug/L)	Region 6 TapWater MSSL (ug/l)	Sample ID Sample Date	EMW-2 01/11/2008	EMW-4 01/14/2008	EMW-6 01/09/2008	EMW-6A 01/09/2008	EMW-6B 01/09/2008	EMW-6C 01/09/2008	EMW-7 01/10/2008	IMW-1 01/15/2008	IMW-2 01/15/2008	IMW-3 01/15/2008	IMW-4 01/15/2008	IMW-5 01/15/2008	IMW-6 01/15/2008	IMW-7 01/14/2008
	Volatile Organic Compounds																			
8260B	1,1,1-Trichloroethane	UG/L	200	-	840		< 0.36	< 0.36	< 0.36	< 3.6	< 0.36	< 0.36	< 9	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
8260B	1,1,2,2-Tetrachloroethane	UG/L	-	-	0.055		< 0.31	< 0.31	< 0.31	< 3.1	< 0.31	< 0.31	< 7.8	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
8260B	1,1,2-Trichloroethane	UG/L	5	-	0.2		< 0.35	< 0.35	< 0.35	< 3.5	< 0.35	< 0.35	< 8.8	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
8260B	1,1-Dichloroethane	UG/L	-	-	1200		< 0.37	< 0.37	< 0.37	< 3.7	< 0.37	< 0.37	< 9.4	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
8260B	1,1-Dichloroethene	UG/L	7	-	340		< 0.43	< 0.43	< 0.43	< 4.3	< 0.43	< 0.43	< 11	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
8260B	1,2-Dibromoethane (EDB)	UG/L	0.05	-	0.0056		< 0.3	< 0.3	< 0.3	< 3	< 0.3	< 0.3	< 7.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
8260B	1,2-Dichlorobenzene	UG/L	600	-	49		< 0.43	33	< 0.43	< 4.3	85	13	< 11	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	0.74 J
8260B	1,2-Dichloroethane	UG/L	5	-	0.12		< 0.39	85	0.55 J	620	13	1.6	2100	< 0.39	< 0.39	1.7	33	< 0.39	1.6	1.6
8260B	1,2-Dichloroethene (total)	UG/L	-	-	-		< 0.73	< 0.73	< 0.73	< 7.3	< 0.73	< 0.73	< 18	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73
8260B	1,2-Dichloropropane	UG/L	5	-	0.17		< 0.37	< 0.37	< 0.37	< 3.7	< 0.37	< 0.37	< 9.3	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
8260B	1,3-Dichlorobenzene	UG/L	-	-	15		1.4	< 0.39	< 0.39	< 3.9	< 0.39	< 0.39	< 9.6	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
8260B	1,4-Dichlorobenzene	UG/L	75	-	0.47		< 0.38	0.48 J	< 0.38	< 3.8	1.9	0.58 J	< 9.4	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
8260B	2-Butanone (MEK)	UG/L	-	-	7100		< 0.84	< 0.84	< 0.84	< 8.4	< 0.84	< 0.84	< 21	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84
8260B	2-Chloroethyl vinyl ether	UG/L	-	-	-		< 0.62	< 0.62	< 0.62	< 6.2	< 0.62	< 0.62	< 16	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62
8260B	2-Hexanone	UG/L	-	-	-		< 0.27	< 0.27	< 0.27	< 2.7	< 0.27	< 0.27	< 6.7	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
8260B	4-Methyl-2-pentanone (MIBK)	UG/L	-	-	2000		< 0.42	< 0.42	< 0.42	< 4.2	< 0.42	< 0.42	< 10	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
8260B	Acetone	UG/L	-	-	5500		< 5.0 UB	8.4 UB	< 0.82	< 8.2	< 0.82	< 0.82	< 20	< 0.82	49 UB	5.5 UB	6.9 UB	< 0.82	< 5.0 UB	9.7 UB
8260B	Benzene	UG/L	5	-	0.35		< 0.39	2.3	< 0.39	< 3.9	0.84 J	0.48 J	< 9.8	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
8260B	Bromobenzene	UG/L	-	-	23		< 0.39	< 0.39	< 0.39	< 3.9	< 0.39	< 0.39	< 9.9	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
8260B	Bromochloromethane	UG/L	-	-	-		< 0.37	< 0.37	< 0.37	< 3.7	< 0.37	< 0.37	< 9.2	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
8260B	Bromodichloromethane	UG/L	-	-	0.18		< 0.37	< 0.37	< 0.37	< 3.7	< 0.37	< 0.37	< 9.2	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
8260B	Bromoform	UG/L	-	-	8.5		< 0.27	< 0.27	< 0.27	< 2.7	< 0.27	< 0.27	< 6.7	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
8260B	Bromomethane	UG/L	-	-	8.7		< 0.72	< 0.72	< 0.72	< 7.2	< 0.72	< 0.72	< 18	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
8260B	Carbon disulfide	UG/L	-	-	1000		< 0.38	< 0.38	< 0.38	< 3.8	< 0.38	< 0.38	< 9.6	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
8260B	Carbon tetrachloride	UG/L	5	-	0.17		< 0.41	< 0.41	< 0.41	< 4.1	< 0.41	< 0.41	< 10	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
8260B	Chlorobenzene	UG/L	100	-	91		< 0.33	74	< 0.33	< 3.3	25	6.1	< 8.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
8260B	Chloroethane	UG/L	-	-	3.9		< 0.45	< 0.45	< 0.45	< 4.5	< 0.45	< 0.45	< 11	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
8260B	Chloroform	UG/L	-	-	0.17		< 0.35	< 0.35	< 0.35	< 3.5	< 0.35	< 0.35	< 8.7	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
8260B	Chloromethane	UG/L	-	-	2.1		< 0.48	< 0.48	< 0.48	< 4.8	< 0.48	< 0.48	< 12	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
8260B	cis-1,2-Dichloroethene	UG/L	70	-	61		< 0.37	< 0.37	< 0.37	< 3.7	0.53 J	< 0.37	< 9.2	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
8260B	cis-1,3-Dichloropropene	UG/L	-	-	0.4		< 0.31	< 0.31	< 0.31	< 3.1	< 0.31	< 0.31	< 7.7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
8260B	Dibromochloromethane	UG/L	-	-	0.13		< 0.28	< 0.28	< 0.28	< 2.8	< 0.28	< 0.28	< 7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
8260B	Dibromomethane	UG/L	-	-	61		< 0.41	< 0.41	< 0.41	< 4.1	< 0.41	< 0.41	< 10	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
8260B	Ethylbenzene	UG/L	700	-	1300		< 0.42	< 0.42	< 0.42	< 4.2	2.2	2.3	< 10	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
8260B	Methylene chloride	UG/L	5	-	4.3		< 0.42	< 0.42	< 0.42	< 4.2	< 0.42	< 0.42	< 11	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
8260B	m-Xylene & p-Xylene	UG/L	-	-	-		< 0.83	< 0.83	< 0.83	< 8.3	< 0.83	< 0.83	< 21	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83
8260B	o-Xylene	UG/L	-	-	1400		< 0.39	< 0.39	< 0.39	< 3.9	< 0.39	< 0.39	< 9.7	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
8260B	Styrene	UG/L	100	-	1600		< 0.31	< 0.31	< 0.31	< 3.1	< 0.31	< 0.31	< 7.8	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
8260B	Tetrachloroethene	UG/L	5	-	0.11		< 0.4	< 0.4	< 0.4	< 4	< 0.4	< 0.4	< 9.9	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
8260B	Toluene	UG/L	1000	-	2300		< 0.39	< 0.39	< 0.39	< 3.9	< 0.39	< 0.39	< 9.8	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
8260B	trans-1,2-Dichloroethene	UG/L	100	-	110		< 0.37	< 0.37	< 0.37	< 3.7	< 0.37	< 0.37	< 9.3	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
8260B	trans-1,3-Dichloropropene	UG/L	-	-	0.4		< 0.21	< 0.21	< 0.21	< 2.1	< 0.21	< 0.21	< 5.2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
8260B	Trichloroethene	UG/L	5	-	0.028		< 0.45	< 0.45	< 0.45	< 4.5	< 0.45	< 0.45	< 11	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
8260B	Trichlorofluoromethane	UG/L	-	-	1300		< 0.47	< 0.47	< 0.47	< 4.7	< 0.47	< 0.47	< 12	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
8260B	Vinyl acetate	UG/L	-	-	410		< 0.29	< 0.29	< 0.29	< 2.9	< 0.29	< 0.29	< 7.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
8260B	Vinyl chloride	UG/L	2	-	0.015		< 0.4	< 0.4	< 0.4	< 4	< 0.4	< 0.4	< 10	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
8260B	Xylenes (total)	UG/L	10000	-	200		< 1.2	< 1.2	< 1.2	< 12	< 1.2	< 1.2	< 30	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	Semivolatile Organic Compounds																			
8270C	1,2,4-Trichlorobenzene	UG/L	70	-	8.2		< 0.8	< 4	< 0.8	< 0.84	< 8.3	< 9.9	< 0.88	< 0.81	< 0.82	< 0.81	< 0.81	< 0.84	< 0.8	< 0.81
8270C	1,2-Dichlorobenzene	UG/L	600	-	49		< 0.92	27 J	< 0.92	< 0.97	51 J	70 J	< 1	< 0.93	< 0.95	< 0.93	< 0.93	< 0.97	< 0.92	< 0.94
8270C	1,3-Dichlorobenzene	UG/L	-	-	15		< 0.94	< 4.8	< 0.94	< 0.99	< 9.8	< 12	< 1	< 0.95	< 0.97	< 0.95	< 0.95	< 0.99	< 0.94	< 0.96
8270C	1,4-Dichlorobenzene	UG/L	75	-	0.47		< 0.77	< 3.9	< 0.77	< 0.81	< 8	< 9.5	< 0.85	< 0.78	< 0.79	< 0.78	< 0.78	< 0.81	< 0.77	< 0.78
8270C	2,4,5-Trichlorophenol	UG/L	-	-	3700		< 0.95	< 4.8	< 0.95	< 1	< 9.9	< 12	< 1.1	< 0.96	< 0.98	< 0.96	< 0.96	< 1	< 0.95	< 0.97
8270C	2,4,6-Trichlorophenol	UG/L	-	-	6.1		< 1	< 5.3	< 1	< 1.1	< 11	< 13	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1	< 1.1
8270C	2,4-Dichlorophenol	UG/L	-	-	110		< 0.98	< 5	< 0.98	< 1	< 10	< 12	< 1.1	< 0.99	< 1	< 0.99	< 0.99	< 1	< 0.98	< 1
8270C	2,4-Dimethylphenol	UG/L	-	-	730		< 1.8	< 9.1	< 1.8	< 1.9	< 19	< 22	< 2	< 1.8	< 1.9	< 1.8	< 1.8	< 1.9	< 1.8	< 1.8
8270C	2,4-Dinitrophenol	UG/L	-	-	73		< 3.6	< 18	< 3.6	< 3.7	< 37	< 44	< 3.9	< 3.6	< 3.7	< 3.6	< 3.6	< 3.7	< 3.6	< 3.6
8270C	2,4-Dinitrotoluene	UG/L	-	-	73		< 2.7	< 14	< 2.7	< 2.9	< 29	< 34	< 3	< 2.8	< 2.8	< 2.8	< 2.8	< 2.9	< 2.7	< 2.8
8270C	2,6-Dinitrotoluene	UG/L	-	-	37		< 0.97	< 4.9	< 0.97	< 1	< 10	< 12	< 1.1	< 0.98	< 1	< 0.98	< 0.98	< 1	< 0.97	< 1
8270C	2-Chloronaphthalene	UG/L	-	-	490		< 1.4	< 7	< 1.4	< 1.5	< 14	< 17	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4

Analytical Results of January 2008 Groundwater Sampling
Cedar Chemical Facility
Helena-West Helena, AR

Analytical Method	Analyte	Units	Primary Drinking Water Standard (ug/L)	Secondary Drinking Water Standard (ug/L)	Region 6 TapWater MSSL (ug/l)	Sample ID Sample Date	EMW-2 01/11/2008	EMW-4 01/14/2008	EMW-6 01/09/2008	EMW-6A 01/09/2008	EMW-6B 01/09/2008	EMW-6C 01/09/2008	EMW-7 01/10/2008	IMW-1 01/15/2008	IMW-2 01/15/2008	IMW-3 01/15/2008	IMW-4 01/15/2008	IMW-5 01/15/2008	IMW-6 01/15/2008	IMW-7 01/14/2008
Semivolatile Organic Compounds (continued)																				
8270C	2-Chlorophenol	UG/L	-	-	30		< 1.4	< 7.1	< 1.4	< 1.5	< 15	< 17	< 1.6	< 1.4	< 1.5	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4
8270C	2-Methylnaphthalene	UG/L	-	-	-		< 0.92	< 4.7	< 0.92	< 0.97	< 9.6	< 11	< 1	< 0.93	< 0.95	< 0.93	< 0.93	< 0.97	< 0.92	< 0.94
8270C	2-Methylphenol	UG/L	-	-	1800		< 1.7	< 8.8	< 1.7	< 1.8	< 18	< 21	< 1.9	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.7	< 1.8
8270C	2-Nitroaniline	UG/L	-	-	110		< 1.1	< 5.7	< 1.1	< 1.2	< 12	< 14	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2
8270C	2-Nitrophenol	UG/L	-	-	-		< 1	< 5.1	< 1	< 1.1	< 10	< 12	< 1.1	< 1	< 1	< 1	< 1	< 1.1	< 1	< 1
8270C	3,3'-Dichlorobenzidine	UG/L	-	-	0.15		< 1.6	< 8.2	< 1.6	< 1.7	< 17	< 20	< 1.8	< 1.6	< 1.7	< 1.6	< 1.6	< 1.7	< 1.6	< 1.7
8270C	3,4-Dichloroaniline	UG/L	-	-	-		9 J	100	8.7 J	200	51000	5500	< 10	< 9.6	< 9.8	6.4 J	8.3 J	< 0	12	0.85 J
8270C	3-Methylphenol & 4-Methylphenol	UG/L	-	-	180		< 2.5	< 12	< 2.5	< 2.6	< 26	< 30	< 2.7	< 2.5	< 2.5	< 2.5	< 2.5	< 2.6	< 2.5	< 2.5
8270C	3-Nitroaniline	UG/L	-	-	-		< 1.2	< 5.8	< 1.2	< 1.2	< 12	< 14	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
8270C	4,6-Dinitro-2-methylphenol	UG/L	-	-	-		< 3.4 UJ	< 17 UJ	< 3.4	< 3.6	< 35	< 42	< 3.7	< 3.4 UJ	< 3.5 UJ	< 3.4 UJ	< 3.4 UJ	< 3.6 UJ	< 3.4 UJ	< 3.5 UJ
8270C	4-Bromophenyl phenyl ether	UG/L	-	-	-		< 0.89	< 4.5	< 0.89	< 0.93	< 9.2	< 11	< 0.98	< 0.9	< 0.91		< 0.9	< 0.93	< 0.89	< 0.91
8270C	4-Chloro-3-methylphenol	UG/L	-	-	-		< 1	< 5.2	< 1	< 1.1	< 11	< 13	< 1.1	< 1	< 1.1	< 1	< 1	< 1.1	< 1	< 1
8270C	4-Chloroaniline	UG/L	-	-	150		< 1.6	**430**	< 1.6	**530**	**4800 J**	**1700**	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.7	< 1.6	< 1.6
8270C	4-Chlorophenyl phenyl ether	UG/L	-	-	-		< 1.4	< 6.9	< 1.4	< 1.4	< 14	< 17	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
8270C	4-Nitroaniline	UG/L	-	-	-		< 1	< 5.2	< 1	< 1.1	< 11	< 13	< 1.1	< 1	< 1.1	< 1	< 1	< 1.1	< 1	< 1.1
8270C	4-Nitrophenol	UG/L	-	-	290		< 3.9	< 20	< 3.9	< 4.1	< 41	< 48	< 4.3	< 3.9	< 4	< 3.9	< 3.9	< 4.1	< 3.9	< 4
8270C	Acenaphthene	UG/L	-	-	370		< 1	< 5.3	< 1	< 1.1	< 11	< 13	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1	< 1.1
8270C	Acenaphthylene	UG/L	-	-	-		< 0.86	< 4.4	< 0.86	< 0.9	< 9	< 11	< 0.95	< 0.87	< 0.89	< 0.87	< 0.87	< 0.9	< 0.86	< 0.88
8270C	Aniline	UG/L	-	-	12		< 1.9	< 9.8	< 1.9	< 2	< 20	< 24	< 2.1	< 2	< 2	< 2	< 2	< 2	< 1.9	< 2
8270C	Anthracene	UG/L	-	-	1800		< 1.1	< 5.4	< 1.1	< 1.1	< 11	< 13	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
8270C	Benzo(a)anthracene	UG/L	-	-	0.03		< 1.1	< 5.4	< 1.1	< 1.1	< 11	< 13	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
8270C	Benzo(a)pyrene	UG/L	0.2	-	0.003		< 1.1	< 5.3	< 1.1	< 1.1	< 11	< 13	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
8270C	Benzo(b)fluoranthene	UG/L	-	-	0.03		< 0.75	< 3.8	< 0.75	< 0.79	< 7.8	< 9.3	< 0.83	< 0.76	< 0.77	< 0.76	< 0.76	< 0.79	< 0.75	< 0.76
8270C	Benzo(ghi)perylene	UG/L	-	-	-		< 0.72	< 3.7	< 0.72	< 0.76	< 7.5	< 9	< 0.8	< 0.73	< 0.75	< 0.73	< 0.73	< 0.76	< 0.72	< 0.74
8270C	Benzo(k)fluoranthene	UG/L	-	-	0.3		< 1.2	< 5.9	< 1.2	< 1.2	< 12	< 14	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
8270C	Benzoic acid	UG/L	-	-	150000		< 13	< 65	< 13	< 13	< 130	< 160	< 14	< 13	< 13	< 13	< 13	< 13	< 13	< 13
8270C	Benzyl alcohol	UG/L	-	-	11000		< 1.6	< 7.9	< 1.6	< 1.6	< 16	< 19	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
8270C	bis(2-Chloroethoxy)methane	UG/L	-	-	-		< 1.1	< 5.4	< 1.1	< 1.1	< 11	< 13	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
8270C	bis(2-Chloroethyl) ether	UG/L	-	-	0.0098		< 1.1	< 5.8	< 1.1	< 1.2	< 12	< 14	< 1.3	< 1.1	< 1.2	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2
8270C	bis(2-Chloroisopropyl) ether	UG/L	-	-	0.27		< 1.2	< 5.9	< 1.2	< 1.2	< 12	< 14	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
8270C	bis(2-Ethylhexyl) phthalate	UG/L	6	-	4.8		< 2.6	< 13	< 2.6	<10 UB	< 27	< 32	< 10 UB	< 2.6	< 2.7	< 2.6 UJ	< 2.6	< 2.7	< 2.6	< 2.7
8270C	Butyl benzyl phthalate	UG/L	-	-	7300		< 0.94	< 4.7	< 0.94	< 0.99	< 9.8	< 12	< 1	< 0.95	< 0.97	< 0.95	< 0.95	< 0.99	< 0.94	< 0.96
8270C	Chrysene	UG/L	-	-	3		< 1	< 5.2	< 1 UJ	<10 UJ	< 11 UJ	< 13 UJ	< 1.1 UJ	< 1	< 1.1	< 1	< 1	< 1.1	< 1	< 1
8270C	Dibenz(a,h)anthracene	UG/L	-	-	0.003		< 0.96 UJ	< 4.9 UJ	< 0.96	< 1	< 10	< 12	< 1.1	< 0.97 UJ	< 0.99 UJ	< 0.97 UJ	< 0.97 UJ	< 1 UJ	< 0.96 UJ	< 0.98 UJ
8270C	Dibenzofuran	UG/L	-	-	12		< 1	< 5.1	< 1	< 1.1	< 10	< 12	< 1.1	< 1	< 1	< 1	< 1	< 1.1	< 1	< 1
8270C	Diethyl phthalate	UG/L	-	-	29000		< 1.4	< 7.1	< 1.4	< 1.5	< 15	< 17	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4
8270C	Dimethyl phthalate	UG/L	-	-	370000		< 1.2	< 6.1	< 1.2	< 1.3	< 13	< 15	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2
8270C	Di-n-butyl phthalate	UG/L	-	-	3700		< 1.1	< 5.4	< 1.1	< 1.1	< 11	< 13	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
8270C	Di-n-octyl phthalate	UG/L	-	-	-		< 1.1	< 5.3	< 1.1	< 1.1	< 11	< 13	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
8270C	Dinoseb	UG/L	7	-	37		< 0.51	< 2.6	< 0.51	< 0.54	< 5.4	110 J	< 0.57	< 0.52	< 0.53	< 0.52	< 0.52	< 0.54	< 0.51	< 0.53
8270C	Fluoranthene	UG/L	-	-	1500		< 0.87	< 4.4	< 0.87	< 0.92	< 9.1	< 11	< 0.97	< 0.88	< 0.9	< 0.88	< 0.88	< 0.92	< 0.87	< 0.89
8270C	Fluorene	UG/L	-	-	240		< 0.96	< 4.9	< 0.96	< 1	< 10	< 12	< 1.1	< 0.97	< 0.99	< 0.97	< 0.97	< 1	< 0.96	< 0.98
8270C	Hexachlorobenzene	UG/L	1	-	0.042		< 1.4	< 7.1	< 1.4	< 1.5	< 15	< 17	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4
8270C	Hexachlorobutadiene	UG/L	-	-	0.86		< 1.2	< 6.1	< 1.2	< 1.3	< 13	< 15	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2
8270C	Hexachlorocyclopentadiene	UG/L	50	-	220		< 3.2	< 16	< 3.2	< 3.4	< 34	< 40	< 3.6	< 3.3	< 3.3	< 3.3	< 3.3	< 3.4	< 3.2	< 3.3
8270C	Hexachloroethane	UG/L	-	-	4.8		< 0.89	< 4.5	< 0.89	< 0.94	< 9.3	< 11	< 0.99	< 0.9	< 0.92	< 0.9	< 0.9	< 0.94	< 0.89	< 0.91
8270C	Indeno(1,2,3-cd)pyrene	UG/L	-	-	0.03		< 1.1	< 5.5	< 1.1	< 1.1	< 11	< 13	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
8270C	Isophorone	UG/L	-	-	71		< 1	< 5.3	< 1	< 1.1	< 11	< 13	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1	< 1.1
8270C	Naphthalene	UG/L	-	-	6.2		< 0.83	< 4.2	< 0.83	< 0.88	< 8.7	< 10	< 0.92	< 0.84	< 0.86	< 0.84	< 0.84	< 0.88	< 0.83	< 0.85
8270C	Nitrobenzene	UG/L	-	-	3.4		< 1.1	< 5.4	< 1.1	< 1.1	< 11	< 13	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
8270C	N-Nitrosodi-n-propylamine	UG/L	-	-	0.0096		< 0.99	< 5	< 0.99	< 1	< 10	< 12	< 1.1	< 1	< 1	< 1	< 1	< 1	< 0.99	< 1
8270C	N-Nitrosodiphenylamine	UG/L	-	-	14		< 0.89	< 4.5	< 0.89	< 0.94	< 9.3	< 11	< 0.98	< 0.9	< 0.92	< 0.9	< 0.9	< 0.94	< 0.89	< 0.91
8270C	Pentachlorophenol	UG/L	1	-	0.56		< 5.2	< 26	< 5.2	< 5.4	< 54	< 64	< 5.7	< 5.2	< 5.3	< 5.2	< 5.2	< 5.4	< 5.2	< 5.3
8270C	Phenanthrene	UG/L	-	-	-		< 0.95	< 4.8	< 0.95	< 1	< 9.9	< 12	< 1	< 0.96	< 0.98	< 0.96	< 0.96	< 1	< 0.95	< 0.97
8270C	Phenol	UG/L	-	-	11000		< 2	< 10	< 2	< 2.1	< 21	< 25	< 2.2	< 2	< 2.1	< 2	< 2	< 2.1	< 2	< 2.1
8270C	Propanil	UG/L	-	-	180		< 9.5	19 J	< 9.5	2.9 J	1 J	< 120	< 10	< 9.6	< 9.8	< 9.6	< 9.6	< 0	< 9.5	< 9.7
8270C	Pyrene	UG/L	-	-	180		< 0.87	< 4.4	< 0.87	< 0.92	< 9.1	< 11	< 0.96	< 0.88	< 0.9	< 0.88	< 0.88	< 0.92	< 0.87	< 0.89

Analytical Results of January 2008 Groundwater Sampling
Cedar Chemical Facility
Helena-West Helena, AR

Analytical Method	Analyte	Units	Primary Drinking Water Standard (ug/L)	Secondary Drinking Water Standard (ug/L)	Region 6 TapWater MSSL (ug/l)	Sample ID Sample Date	EMW-2 01/11/2008	EMW-4 01/14/2008	EMW-6 01/09/2008	EMW-6A 01/09/2008	EMW-6B 01/09/2008	EMW-6C 01/09/2008	EMW-7 01/10/2008	IMW-1 01/15/2008	IMW-2 01/15/2008	IMW-3 01/15/2008	IMW-4 01/15/2008	IMW-5 01/15/2008	IMW-6 01/15/2008	IMW-7 01/14/2008
	Dissolved Gases																			
SOP-175	Ethane	UG/L	-	-	-		< 0.062	51	< 0.062	< 0.062	< 0.062	< 0.062	160	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	2.4	0.31 J
SOP-175	Ethene	UG/L	-	-	-		< 0.057	< 0.057	< 0.057	< 0.057	0.86	< 0.057	13	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057
SOP-175	Methane	UG/L	-	-	-		0.43 J	610	430	3200	810	< 0.21	13	0.37 J	59	14	2	0.22 J	850	110
SOP-175	Carbon Dioxide	UG/L	-	-	-		650	1000	270	340	1000	1100	480	440	740	1000	760	520	1000	230
SOP-175	Nitrogen	UG/L	-	-	-		4400	3700	4400	1500	4300	4700	4500	4500	4400	4300	4200	3700	4300	3800
SOP-175	Oxygen	UG/L	-	-	-		1500	1300	1500	4500	1500	1600	1500	1600	1500	1500	1500	1300	1400	1300
SOP-175	Carbon Monoxide	UG/L	-	-	-		< 13	< 13	<13	<13	<13	<13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13

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Notes:

	Exceeds the Primary Drinking Water Standard
	Exceeds the Secondary Drinking Water Standard
Bold	Exceeds the Tap Water MSSL
	Non-detect Exceeds one of more Regulatory Level(s)

J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UB	Data point is non-detect at the reported value.
UJ	The analyte was not detected above the reported detection limit. However, the reported detection limit is approximate and may be innaccurate or imprecise.