

Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

Location ID Sample ID Sample Type Depth (ft.) Parameter Sample Date	Units	Reporting Limit	MW-1 SAIC09 WELL 32 4/21/2008	MW-1 SAIC09F WELL 32 4/21/2008	MW-1 SAIC10 WELL 34 7/31/2008	MW-1 SAIC10F WELL 34 7/31/2008	MW-1 SAIC11 WELL 32.7 10/23/2008	MW-1 SAIC11F WELL 32.7 10/23/2008	MW-10 SAIC09 WELL 38.1 4/23/2008	MW-10 SAIC09F WELL 38.1 4/23/2008	MW-10 SAIC10 WELL 38.5 7/17/2008	MW-10 SAIC10F WELL 38.5 7/17/2008	MW-10 SAIC11 WELL 12 10/27/2008	MW-10 SAIC11F WELL 12 10/27/2008	MW-11 SAIC09 WELL 39.4 4/23/2008	MW-11 SAIC09F WELL 39.4 4/23/2008
Alkalinity																
Alkalinity	mg/l	1	220	N/A	310	N/A	330	N/A	400	N/A	370	N/A	350	N/A	120	N/A
Common Anions																
Chloride	mg/l	0.1	1.4	0.1 U	0.5	0.46	0.67	0.61	8	8.2	6.7	6.5	5.6	6	51	51
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.11	0.1 U	0.1 UJ	0.1 U	0.1 U	0.31	0.33
Sulfate	mg/l	0.1	12	0.31	20	20	21	21	23	23	20	20	18	18	8.5	9.3
Metals																
Aluminum	µg/l	200	32.9 J	130 J	61.6 JN	94.6 JN	35 U	35 U	130 J	26.7 U	267	35 U	35 UN	35 UN	218	26.7 U
Calcium	µg/l	1000	69200	65800	109000	111000	99300	98100	77300	78200	86400 J	79200 J	67900	77200	32400	31300
Iron	µg/l	150	110 J	143 J	427	37 J	150 U	150 U	396	15.4 U	882	21 J	200	8.2 U	296	25.4 J
Magnesium	µg/l	250	17400	16600	17400	17700	27000	26500	29300	29800	32300 J	29700 J	24300 J	27800 J	6900	6740
Manganese	µg/l	5	4.3 J	1.9 J	15.2	6.2	5 U	5 U	11.6	3.2 J	61.6	19.8	11.2	5 U	5.6	2.1 J
Potassium	µg/l	250	1310	1310	1570	1570	1600	1540	1380	1380	853	894	1920	1460	1390	1400
Silicon	µg/l	50	2700	2770	3450 N*	3230 N*	4300	4230	9370	9310	8680	8830	8660	9500	1970	1610
Sodium	µg/l	2500	2680	2520	1910 J	1690 J	1540 J	1600 J	41100	41900	37600	41100	53100	47500	40700	43600
TDS																
Total Dissolved Solids			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC																
Total Organic Carbon	mg/l	1	1.2	1	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	3	1.4	1 U	1 U

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Location ID Sample ID Sample Type Depth (ft.) Parameter Sample Date	Units	Reporting Limit	MW-11 SAIC10 WELL 42.3 8/1/2008	MW-11 SAIC10F WELL 42.3 8/1/2008	MW-11 SAIC11 WELL 42 10/27/2008	MW-11 SAIC11F WELL 42 10/27/2008	MW-2 SAIC09 WELL 22.9 4/22/2008	MW-2 SAIC09F WELL 22.9 4/22/2008	MW-2 SAIC10 WELL 22.9 7/22/2008	MW-2 SAIC10F WELL 22.9 7/22/2008	MW-2 SAIC11 WELL 22 10/10/2008	MW-2 SAIC11F WELL 22 10/10/2008	MW-3 SAIC09 WELL 42.5 4/22/2008	MW-3 SAIC09F WELL 42.5 4/22/2008	MW-3 SAIC10 WELL 42.5 7/22/2008	MW-3 SAIC10D WELL 42.5 7/22/2008
Alkalinity																
Alkalinity	mg/l	1	N/A	N/A	190	N/A	300	N/A	290	N/A	330	N/A	320	N/A	300	300
Common Anions																
Chloride	mg/l	0.1	N/A	N/A	6600	12000	2	2	3.4	3.4	7	7.1	1.1	1.1	1.3	1.5
Nitrate	mg/l	0.1	N/A	N/A	4.6	5.2	1.5	1.5	0.1 U	0.1 U	0.1 U	0.1 U	0.15	0.14	0.1 U	0.1 U
Sulfate	mg/l	0.1	N/A	N/A	95	80	46	45	40	41	20	21	35	36	28	29
Metals																
Aluminum	µg/l	200	N/A	N/A	3500 UND	3500 UND	200 U	200 U	35 U	53.2 J	35 U	35 U	227 U	200 U	35 U	35 U
Calcium	µg/l	1000	N/A	N/A	893000 D	804000 D	78900	80600	83000	78200	75900 J	76500 J	92800	86500	91100	91500
Iron	µg/l	150	N/A	N/A	4040 JD	820 UD	319	150 U	134 JE	80.5 J	226	150 U	1090	150 U	509 E	373 E
Magnesium	µg/l	250	N/A	N/A	491000 J	499000 J	33400	34400	34400	33200	31700 J	32200 J	30400	28900	27800	28700
Manganese	µg/l	5	N/A	N/A	253 JD	210 JD	7.3	5.7	27.5	29.7	18.2 J	16.4 J	17.6	5.5	368	328
Potassium	µg/l	250	N/A	N/A	90300 D	81000 D	393	413	676	575	1060	1070	378	350	318	280
Silicon	µg/l	50	N/A	N/A	4270 JD	3180 JD	3660	3520	3800	3750	4510 J	4310 J	17300 D	22600 D	21800	21700
Sodium	µg/l	2500	N/A	N/A	5870000 D	5520000 D	5080	5150	8680 E	6510	18900 J	18900 J	10900	10700	13100 E	13100 E
TDS																
Total Dissolved Solids			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC																
Total Organic Carbon	mg/l	1	N/A	N/A	N/A	N/A	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

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Location ID Sample ID Sample Type Depth (ft.) Parameter Sample Date	Units	Reporting Limit	MW-3 SAIC10DF WELL 42.5 7/22/2008	MW-3 SAIC10F WELL 42.5 7/22/2008	MW-3 SAIC11 WELL 38 10/7/2008	MW-3 SAIC11F WELL 38 10/7/2008	MW-4 SAIC09 WELL 21 4/15/2008	MW-4 SAIC09F WELL 21 4/15/2008	MW-4 SAIC10 WELL 28.3 7/21/2008	MW-4 SAIC10D WELL 28.3 7/21/2008	MW-4 SAIC10DF WELL 28.3 7/21/2008	MW-4 SAIC10F WELL 28.3 7/21/2008	MW-4 SAIC11 WELL 22 10/6/2008	MW-4 SAIC11F WELL 22 10/6/2008	MW-5 SAIC09 WELL 32.8 4/25/2008	MW-5 SAIC09F WELL 32.8 4/25/2008
Alkalinity																
Alkalinity	mg/l	1	N/A	N/A	330	N/A	160	N/A	300	300	N/A	N/A	330	N/A	240	N/A
Common Anions																
Chloride	mg/l	0.1	1.5	1.4	1.2	1.6	10	9.9	7.8	8.1	8.8	8.3	8.6	9.3	2100	1900
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.11	0.1	2.1	2	0.1 U	0.1 U	0.18	0.18	1.1	1.5	0.21	0.17
Sulfate	mg/l	0.1	29	28	28	29	53	50	68	66	67	65	52	53	50	50
Metals																
Aluminum	µg/l	200	35 U	57.7 J	1070	49.4 J	47.1 J	53.7 J	35 U	35 U	35 U	35 U	96.5 J	94.6 J	77.9 J	28.1 J
Calcium	µg/l	1000	91500	90100	96400	96300	67700	70100	77300	80800	77700	80100	83600	84700	205000	199000
Iron	µg/l	150	55.5 JE	90.3 JE	966	210	317	67.8 J	244	300	41.2 J	23.7 J	32.6 J	15.4 U	258	40.6 J
Magnesium	µg/l	250	28700	27700	29400	31000	34600	35900	39100	41300	39000	41100	43100	43800	85000	83100
Manganese	µg/l	5	180	296	258	114	146	74.3	120	133	101	123	43.8	6.2	37.6	30.8
Potassium	µg/l	250	255	274	508 N	540 N	250 J	270	250 U	250 U	250 U	250 U	580	466	30000	29500
Silicon	µg/l	50	21800	20900	23100 N*	21900 N*	6100	5880	5320	5330	5360	5410	6110	6360	4340 N*D	4130 N*
Sodium	µg/l	2500	12600 E	13500 E	14100 E	15300 E	17800	18400	18300	18700	18200	18900	21300 E	21200 E	924000 D	900000 D
TDS																
Total Dissolved Solids			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC																
Total Organic Carbon	mg/l	1	1 U	1 U	1 U	1 U	1	1.1	1.2	1.1	1.2	1.6	1 U	1 U	1.1	1 U

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Location ID Sample ID Sample Type Depth (ft.) Parameter Sample Date	Units	Reporting Limit	MW-5 SAIC10 WELL 34.8 7/29/2008	MW-5 SAIC10F WELL 34.8 7/29/2008	MW-5 SAIC11 WELL 32.1 10/21/2008	MW-5 SAIC11F WELL 32.1 10/21/2008	MW-6 SAIC09 WELL 40 4/15/2008	MW-6 SAIC09F WELL 40 4/15/2008	MW-6 SAIC10 WELL 40 7/30/2008	MW-6 SAIC10F WELL 40 7/30/2008	MW-6 SAIC11 WELL 43 10/21/2008	MW-6 SAIC11F WELL 43 10/21/2008	MW-7 SAIC09 WELL 50.7 4/9/2008	MW-7 SAIC09F WELL 50.7 4/9/2008	MW-7 SAIC10 WELL 53.4 7/22/2008	MW-7 SAIC10F WELL 53.4 7/22/2008
Alkalinity																
Alkalinity	mg/l	1	280	N/A	210	N/A	160	N/A	340	N/A	330	N/A	400	N/A	390	N/A
Common Anions																
Chloride	mg/l	0.1	1800	1900	3400	3200	2.1	2.1	4.4	4.6	0.31	7.1	30	28	25	26
Nitrate	mg/l	0.1	0.28	0.23	0.66	0.66	0.1 U	0.1 J	0.1 U	0.11	0.46	0.38	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate	mg/l	0.1	52	52	56	33	17	17	11	12	12	11	7	7	6.1	6.2
Metals																
Aluminum	µg/l	200	65.7 J	92.1 J	35 UN	35 UN	413	30.8 J	525	263	3670 N	526 N	26.7 U	26.7 U	49.2 J	35 U
Calcium	µg/l	1000	214000	210000	192000	185000	60500	59100	83900	13600	47000	46200	91300	90800	92100	93400
Iron	µg/l	150	172	115 J	19.7 JN	15.4 UN	378	15.4 U	444	6580	3660 N	794 N	758	560	665 E	608 E
Magnesium	µg/l	250	89100	86400	83800	80900	14400	14100	24800	3400	16000	15500	34900	35000	35000	36000
Manganese	µg/l	5	21.9	19.7	37.2	36.2	64.4	4.5 J	136	656	497	108	187	150	161	141
Potassium	µg/l	250	30100 E	30000 E	41700	42000	924	904	911 E	268 E	1210	992	1370	1450	1170	1250
Silicon	µg/l	50	3900	3990	4020 N	4090 N	4430	3830	5790	7260	9150 N	5360 N	4600	4760	4300	4570
Sodium	µg/l	2500	982000 D	1000000 D	1640000 D	1570000 D	6460	6500	14500	2400 J	19000	19300	39300	41500	35100 E	38200 E
TDS																
Total Dissolved Solids			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC																
Total Organic Carbon	mg/l	1	1 U	1 U	1 U	1 U	2.5	2.6	1.8	1.7	N/A	N/A	1 U	1 U	1 U	1 U

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Location ID Sample ID Sample Type Depth (ft.) Parameter Sample Date	Units	Reporting Limit	MW-7 SAIC11 WELL 44 10/7/2008	MW-7 SAIC11F WELL 44 10/7/2008	MW-8 SAIC09 WELL 27 4/15/2008	MW-8 SAIC09F WELL 27 4/15/2008	MW-8 SAIC10 WELL 29 7/21/2008	MW-8 SAIC10F WELL 29 7/21/2008	MW-8 SAIC11 WELL 29.6 10/9/2008	MW-8 SAIC11F WELL 29.6 10/9/2008	MW-9 SAIC09 WELL 38 4/25/2008	MW-9 SAIC09F WELL 38 4/25/2008	MW-9 SAIC10 WELL 36 7/27/2008	MW-9 SAIC10F WELL 36 7/27/2008	MW-9 SAIC11 WELL 38 10/14/2008	MW-9 SAIC11F WELL 38 10/14/2008
Alkalinity																
Alkalinity	mg/l	1	400	N/A	170	N/A	230	N/A	250	N/A	N/A	N/A	N/A	N/A	320	N/A
Common Anions																
Chloride	mg/l	0.1	28	28	1.7	1.7	1.6	1.4	1.6	1.6	3800	N/A	3200	3300	3100	2700
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.16	0.16	0.16	0.16	0.22	0.21	18	N/A	21	22 J	20	20
Sulfate	mg/l	0.1	6.7	6.7	3.7	3.8	3.5	3.4	3.6	3.5	82	N/A	88	89	95	93
Metals																
Aluminum	µg/l	200	39.9 J	81.6 J	511	26.7 U	35 U	35 U	109 J	33.4 J	N/A	N/A	1530	N/A	175 UD	175 UD
Calcium	µg/l	1000	98600	99000	63500	64300	76000	75400	86500	85300	N/A	N/A	225000	N/A	145000 D	138000 D
Iron	µg/l	150	596	517	2160	23.5 J	123 J	34.9 J	166	25.7 J	N/A	N/A	1860	N/A	175	8.2 U
Magnesium	µg/l	250	38700	39200	10400	10400	13200	13100	14400	14200	N/A	N/A	118000	N/A	82000	81400
Manganese	µg/l	5	141	125	9.4	0.78 J	131	111	13.8 E	6.1 E	N/A	N/A	119	N/A	47.8 ED	35.3 ED
Potassium	µg/l	250	1700 N	1740 N	972	860	823	786	1220	1130	N/A	N/A	42600	N/A	28400 D	27700 D
Silicon	µg/l	50	4680 N*	4910 N*	6060	6390	5980	6030	6390	6640	N/A	N/A	4140	N/A	2240	2020
Sodium	µg/l	2500	43900 E	44200 E	2120 J	2180 J	1410 J	1150 J	2410 J	2360 J	N/A	N/A	1920000 D	N/A	1370000 D	1310000 D
TDS																
Total Dissolved Solids			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC																
Total Organic Carbon	mg/l	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	N/A	N/A	N/A	N/A	N/A	N/A