



# Appendix M

## Groundwater Elevation Data

C-Block Quarry

Load Line 12

Building 1200

Landfill North of Winklepeck Burning Grounds

NACA Test Area

Load Line 5

Load Line 7

Load Line 8

Load Line 10

Atlas Scrap Yard

**Groundwater Elevations  
RI-14  
Ravenna Army Ammunition Plant, Ravenna Ohio**

Monitor Well	Measured Date	Ground Elevation at Well	TIC Elevation	Depth to Water	Depth to Water bgs	Groundwater Elevation	Total Depth of Well	Depth of Well below ground	Height of Water Column
CBLmw-001	01/26/05	1178.50	1181.08	38.90	36.32	1142.18	49.65	47.07	10.75
	03/08/05			38.15	35.57	1142.93			
	04/27/05			37.57	34.99	1143.51			
CBLmw-002	01/26/05	1172.50	1175.24	33.73	30.99	1141.51	47.31	44.57	13.58
	03/08/05			33.00	30.26	1142.24			
	04/27/05			32.45	29.71	1142.79			
CBLmw-003	01/26/05	1172.22	1175.06	30.14	27.30	1144.92	44.73	41.89	14.59
	03/08/05			30.20	27.36	1144.86			
	04/27/05			29.70	26.86	1145.36			
CBLmw-004	01/26/05	1172.08	1174.84	31.65	28.89	1143.19	46.98	44.22	15.33
	03/08/05			31.00	28.24	1143.84			
	04/27/05			30.51	27.75	1144.33			



## GROUNDWATER LEVEL FORM

Date: 04/27/05

Ravenna Army Ammunition Plant

Instrument: SOLINST

Ravenna, Ohio

Page 3 of 6

Area/Project: RVAAP - RI14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
L12mw-24A	1124	7.24	—	31.95	
L12mw-24S	1050	6.50	—	30.28	
L12mw-24B	1129	13.17	—	34.85	
CBLmw-001	1338	37.57	—	49.65	
CBLmw-002	1334	32.45	—	47.31	
CBLmw-003	1344	29.70	—	44.73	
CBLmw-004	1350	30.51	—	46.98	
NTAmw-107	1420	10.84	—	24.34	SPRAY PAINT POST PAD BROKEN
NTAmw-108	1441	15.85	—	24.50	
NTAmw-109	1455	9.92	—	20.93	REPLACE POST PADS
NTAmw-110	1502	12.46	—	29.73	
NTAmw-111	1510	3.17	—	22.05	
NTAmw-112	1515	7.04	—	26.62	REPLACE POST PADS
NTAmw-113	1525	5.18	—	29.63	REPLACE POST PADS
NTAmw-114	1534	4.51	—	22.78	REPLACE POST PADS
NTAmw-115	1543	12.43	—	25.27	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: Sue Boles

Signature: David K. Earnest

Date: 05/26/05

**Groundwater Elevations  
RI-14  
Ravenna Army Ammunition Plant, Ravenna Ohio**

Monitor Well	Measured Date	Ground Elevation at Well	TIC Elevation	Depth to Water	Depth to Water bgs	Groundwater Elevation	Total Depth of Well	Depth of Well below ground	Height of Water Column
L12mw-088	01/25/05	978.36	981.06	6.20	6.20	974.86	27.49	24.79	21.29
	03/08/05			6.00	6.00	975.06			
	04/27/05			5.60	5.60	975.46			
L12mw-107	01/25/05	977.49	980.19	7.12	7.12	973.07	33.63	30.93	26.51
	03/08/05			6.85	6.85	973.34			
	04/27/05			6.75	6.75	973.44			
L12mw-113	01/25/05	977.48	980.18	4.90	4.90	975.28	21.00	18.30	16.10
	03/08/05			4.75	4.75	975.43			
	04/27/05			4.95	4.95	975.23			
L12mw-128	01/25/05	NA	NA	7.47	7.47	NA	34.34	34.34	26.87
	03/08/05			NM	NM	NM			
	04/27/05			7.00	7.00	NA			
L12mw-153	01/25/05	975.15	977.85	4.64	4.64	973.21	25.05	22.35	20.41
	03/08/05			4.57	4.57	973.28			
	04/27/05			4.45	4.45	973.40			
L12mw-154	01/25/05	976.36	979.06	6.63	6.63	972.43	28.81	26.11	22.18
	03/08/05			6.40	6.40	972.66			
	04/27/05			6.25	6.25	972.81			
L12mw-182	01/25/05	NA	NA	7.75	7.75	NA	38.12	38.12	30.37
	03/08/05				0.00				
	04/27/05			7.75	7.75	NA			
L12mw-183	01/25/05	980.34	983.04	9.93	9.93	973.11	36.25	33.55	26.32
	03/08/05			9.64	9.64	973.40			
	04/27/05			9.55	9.55	973.49			
L12mw-184	01/25/05	980.46	983.16	10.24	10.24	972.92	31.33	28.63	21.09
	03/08/05			9.98	9.98	973.18			
	04/27/05			9.88	9.88	973.28			
L12mw-185	01/25/05	978.61	981.31	6.22	6.22	975.09	23.22	20.52	17.00
	03/08/05			5.94	5.94	975.37			
	04/27/05			5.73	5.73	975.58			
L12mw-186	01/25/05	975.61	978.31	5.19	5.19	973.12	20.94	18.24	15.75
	03/08/05			5.56	5.56	972.75			

**Groundwater Elevations  
RI-14  
Ravenna Army Ammunition Plant, Ravenna Ohio**

	04/27/05			5.04	5.04	973.27			
L12mw-187	01/25/05	977.24	979.94	6.99	6.99	972.95	29.88	27.18	22.89
	03/08/05			6.82	6.82	973.12			
	04/27/05			6.82	6.82	973.12			
L12mw-188	01/25/05	977.93	980.63	4.06	4.06	976.57	22.39	19.69	18.33
	03/08/05			3.82	3.82	976.81			
	04/27/05			4.05	4.05	976.58			
L12mw-189	01/25/05	975.34	978.04	3.23	3.23	974.81	20.02	17.32	16.79
	03/08/05			3.52	3.52	974.52			
	04/27/05			3.03	3.03	975.01			
L12mw-242	01/25/05	978.40	981.20	6.84	4.04	974.36	29.34	26.54	22.50
	03/08/05			6.54	3.74	974.66			
	04/27/05			6.56	3.76	974.64			
L12mw-243	01/25/05	978.10	980.79	11.22	8.53	969.57	25.92	23.23	14.70
	03/08/05			7.86	5.17	972.93			
	04/27/05			7.55	4.86	973.24			
L12mw-244	01/25/05	978.10	980.65	7.55	5.00	973.10	31.95	29.40	24.40
	03/08/05			7.27	4.72	973.38			
	04/27/05			7.24	4.69	973.41			
L12mw-245	01/25/05	977.50	980.04	7.09	4.55	972.95	30.28	27.74	23.19
	03/08/05			6.80	4.26	973.24			
	04/27/05			6.50	3.96	973.54			
L12mw-246	01/25/05	982.00	984.83	13.59	10.76	971.24	34.85	32.02	21.26
	03/08/05			13.57	10.74	971.26			
	04/27/05			13.17	10.34	971.66			

Legend: NM - Not Measured NA - Not Applicable
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## GROUNDWATER LEVEL FORM

Date: 25 Jan 05

Ravenna Army Ammunition Plant  
Ravenna, Ohio


Instrument: Hexon

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Area/Project: RVAAP RZ 14 LL-12

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
✓ MW-242	0855	6.84	-	29.34	
✓ MW-243	1035	11.22	-	25.92	
✓ MW-244	0905	7.55	-	31.95	Silt on Bottom of Well, May Not be actual
✓ MW-245	1025	7.09	-	30.28	
✓ MW-246	0920	13.59	-	34.85	
✓ MW-186	1308	5.19	-	20.94	
✓ MW-189	1314	3.23	-	20.02	
✓ MW-188	1322	4.06	-	22.39	Silt on Bottom
✓ MW-113	1341	4.90	-	22.1	Silt on Bottom
✓ MW-153	1328	4.64	-	25.05	
✓ MW-154	1331	6.63	-	28.81	
✓ MW-187	1346	6.99	-	29.88	
✓ MW-128	1337	7.47	-	34.34	
✓ MW-185	1352	6.22	-	23.22	
✓ MW-107	1356	7.12	-	33.63	
✓ MW-088	1407	6.20	-	27.49	

Logged By: Mark Dunlevy (Please Print)

Signature: 

Reviewed By: 

Date: 04/05/05





## GROUNDWATER LEVEL FORM

Date: 04/27/05

Ravenna Army Ammunition Plant

Ravenna, Ohio

Instrument: SOLINST

Page 2 of 6

Area/Project: RVAAP-RI14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
L12mw-088	1042	5.60	—	27.94	
L12mw-107	1046	6.75	—	33.63	
L12mw-113	1107	4.95	—	21.00	
L12mw-128	1054	7.00	—	34.34	
L12mw-153	11.00	4.45	—	25.05	
L12mw-154	1102	6.25	—	28.81	
L12mw-182	1038	7.75	—	38.12	
L12mw-183	1134	9.55	—	36.25	
L12mw-184	1137	9.88	—	31.33	
L12mw-185	1115	5.73	—	23.22	
L12mw-186	1144	5.04	—	20.94	
L12mw-187	1112	6.82	—	29.88	
L12mw-188	11.05	4.05	—	22.39	
L12mw-189	1149	3.03	—	20.02	
L12mw-242	1119	6.56	—	29.34	
L12mw-243	1057	7.55	—	25.92	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: Sue Brew

Signature: David K. Earnest

Date: 05/26/05

## GROUNDWATER LEVEL FORM

Date: 04/27/05

Ravenna Army Ammunition Plant

Ravenna, Ohio

Instrument: SOLINST

Page 3 of 6

Area/Project: RVAAP - RI14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
L12mw-2A	1124	7.24	—	31.95	
L12mw-2A5	1050	6.50	—	30.28	
L12mw-2A6	1129	13.17	—	34.85	
CBLmw-001	1338	37.57	—	49.65	
CBLmw-002	1334	32.45	—	47.31	
CBLmw-003	1344	29.70	—	44.73	
CBLmw-004	1350	30.51	—	46.98	
NTAmw-107	1420	10.84	—	24.34	SPRAY PAINT POST PAD BROKEN
NTAmw-108	1441	15.85	—	24.50	
NTAmw-109	1455	9.92	—	20.93	REPLACE POST PADS
NTAmw-110	1502	12.46	—	29.73	
NTAmw-111	1510	3.17	—	22.05	
NTAmw-112	1515	7.04	—	26.62	REPLACE POST PADS
NTAmw-113	1525	5.18	—	29.63	REPLACE POST PADS
NTAmw-114	1534	4.51	—	22.78	REPLACE POST PADS
NTAmw-115	1543	12.43	—	25.27	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: [Signature]

Signature: [Signature]

Date: 05/26/05

**Groundwater Elevations  
RI-14  
Ravenna Army Ammunition Plant, Ravenna Ohio**

Monitor Well	Measured Date	Ground Elevation at Well	TIC Elevation	Depth to Water	Depth to Water bgs	Groundwater Elevation	Total Depth of Well	Depth of Well below ground	Height of Water Column
B12mw-010	01/25/05	1002.72	1005.92	14.71	11.51	991.21	22.80	19.60	8.09
	03/08/05			14.07	10.87	991.85			
	04/27/05			14.05	10.85	991.87			
B12mw-011	01/25/05	1003.76	1006.70	17.24	14.30	989.46	26.68	23.74	9.44
	03/08/05			15.45	12.51	991.25			
	04/27/05			14.65	11.71	992.05			
B12mw-012	01/25/05	1003.43	1006.32	17.50	14.61	988.82	24.80	21.91	7.30
	03/08/05			16.12	13.23	990.20			
	04/27/05			13.80	10.91	992.52			
BKGmw-010	01/25/05	1003.80	1006.18	13.86	11.48	992.32	21.97	19.59	8.11
	03/08/05			13.45	11.07	992.73			
	04/27/05			14.65	12.27	991.53			



## GROUNDWATER LEVEL FORM

Date: 04/27/05

Ravenna Army Ammunition Plant

Ravenna, Ohio

Instrument: SOLINST

Page 1 of 10

Area/Project: RVAAP - RI 14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
B12mw-010	952	14.05	—	22.80	POST PADS NEED REPLACE
B12mw-011	947	14.65	—	26.68	
B12mw-012	950	13.80	—	24.80	
BK3mw-010	954	14.65	—	21.97	
AS4mw-001	1012	8.45	—	23.10	
AS4mw-002	1015	10.85	—	22.90	
AS4mw-003	1008	9.50	—	23.45	
AS4mw-004	1004	7.10	—	29.45	
AS4mw-005	1002	5.85	—	27.15	
AS4mw-006	1022	11.15	—	28.85	
AS4mw-007	1028	12.50	—	28.86	NO WELL CAP
AS4mw-008	1031	4.20	—	27.75	COLLAR OF CAP CRACKED
AS4mw-009	1017	9.60	—	24.53	
AS4mw-010	1024	9.35	—	31.10	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: [Signature]

Signature: [Signature]

Date: 05/26/05

**Groundwater Elevations  
RI-14  
Ravenna Army Ammunition Plant, Ravenna Ohio**

Monitor Well	Measured Date	Ground Elevation at Well	TIC Elevation	Depth to Water	Depth to Water bgs	Groundwater Elevation	Total Depth of Well	Depth of Well below ground	Height of Water Column
LNWmw-024	02/01/05	1035.30	1038.00	10.68	7.98	1027.32	22.41	19.71	11.73
	03/08/05			9.80	7.10	1028.20			
	04/28/05			9.76	7.06	1028.24			
LNWmw-025	02/01/05	1027.20	1029.13	4.21	2.28	1024.92	20.21	18.28	16.00
	03/08/05			3.75	1.82	1025.38			
	04/28/05			3.73	1.80	1025.40			
LNWmw-026	02/01/05	1025.00	1027.80	3.87	1.07	1023.93	25.95	23.15	22.08
	03/08/05			3.40	0.60	1024.40			
	04/28/05			3.56	0.76	1024.24			
LNWmw-027	02/01/05	1024.40	1027.13	6.55	3.82	1020.58	26.80	24.07	20.25
	03/08/05			5.45	2.72	1021.68			
	04/28/05			5.48	2.75	1021.65			



## GROUNDWATER LEVEL FORM

Date: 04/28/05

Ravenna Army Ammunition Plant  
Ravenna, Ohio

Instrument: SOLINST

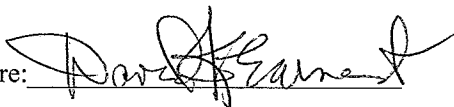
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Area/Project: RVAAP - RI 14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
LL5mw-005	1049	18.12	—	29.72	
LL5mw-006	1046	16.58	—	27.05	
LNWmw-024	1325	9.76	—	22.41	
LNWmw-025	1329	3.73	—	20.21	
LNWmw-026	1334	3.56	—	25.95	
LNWmw-027	1337	5.48	—	26.80	NO WELL CAP
L10mw-001	1352	20.92	—	29.53	
L10mw-002	1356	13.55	—	29.74	
L10mw-003	1409	16.71	—	28.48	
L10mw-004	1406	9.39	—	33.47	
L10mw-005	1401	11.92	—	29.18	
L10mw-006	1403	9.00	—	26.45	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: Sue Boles

Signature: 

Date: 05/26/05



**Groundwater Elevations**  
**RI-14**  
**Ravenna Army Ammunition Plant, Ravenna Ohio**

Monitor Well	Measured Date	Ground Elevation at Well	TIC Elevation	Depth to Water	Depth to Water bgs	Groundwater Elevation	Total Depth of Well	Depth of Well below ground	Height of Water Column
NTAmw-107	01/24/05	1077.65	1080.30	11.01	8.36	1069.29	24.34	21.69	13.33
	03/08/05			10.60	7.95	1069.70			
	04/27/05			10.84	8.19	1069.46			
NTAmw-108	01/24/05	1083.22	1085.62	15.90	13.50	1069.72	24.50	22.10	8.60
	03/08/05			15.50	13.10	1070.12			
	04/27/05			15.85	13.45	1069.77			
NTAmw-109	01/24/05	1076.89	1079.84	10.38	7.43	1069.46	20.93	17.98	10.55
	03/08/05			10.00	7.05	1069.84			
	04/27/05			9.92	6.97	1069.92			
NTAmw-110	01/24/05	1080.03	1082.62	16.08	13.49	1066.54	29.73	27.14	13.65
	03/08/05			12.45	9.86	1070.17			
	04/27/05			12.46	9.87	1070.16			
NTAmw-111	01/24/05	1078.07	1080.94	3.64	0.77	1077.30	22.05	19.18	18.41
	03/08/05			3.18	0.31	1077.76			
	04/27/05			3.17	0.30	1077.77			
NTAmw-112	01/24/05	1075.36	1078.33	7.20	4.23	1071.13	26.62	23.65	19.42
	03/08/05			6.90	3.93	1071.43			
	04/27/05			7.04	4.07	1071.29			
NTAmw-113	01/24/05	1072.61	1075.68	5.19	2.12	1070.49	29.63	26.56	24.44
	03/08/05			5.20	2.13	1070.48			
	04/27/05			5.18	2.11	1070.50			
NTAmw-114	01/24/05	1075.61	1078.71	4.58	1.48	1074.13	22.78	19.68	18.20
	03/08/05			4.43	1.33	1074.28			
	04/27/05			4.51	1.41	1074.20			
NTAmw-115	01/24/05	1086.91	1089.65	12.49	9.75	1077.16	25.27	22.53	12.78
	03/08/05			12.39	9.65	1077.26			
	04/27/05			12.43	9.69	1077.22			
NTAmw-116	01/24/05	1091.68	1094.33	4.68	2.03	1089.65	22.55	19.90	17.87
	03/08/05			4.07	1.42	1090.26			
	04/27/05			4.42	1.77	1089.91			
NTAmw-117	01/24/05	1091.67	1094.54	12.50	9.63	1082.04	27.50	24.63	15.00
	03/08/05			12.12	9.25	1082.42			
	04/27/05			12.17	9.30	1082.37			
NTAmw-118	01/24/05	1078.86	1081.44	7.27	4.69	1074.17	27.50	24.92	20.23
	03/08/05			7.09	4.51	1074.35			
	04/27/05			3.17	0.59	1078.27			

## GROUNDWATER LEVEL FORM

Date: 24 Jan 05

Ravenna Army Ammunition Plant  
Ravenna, Ohio

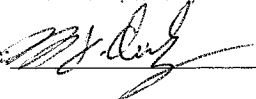
Instrument: Heron


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Area/Project: RVAAP RE14 - NACA Test Area

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
✓ MW 107	0935	11.01	-	24.34	
✓ MW 108	0950	15.90	-	24.50	
✓ MW 109	1002	10.38	-	20.93	
✓ MW 110	1055	16.08	-	29.73	
✓ MW 111	1105	3.64	-	22.05	
✓ MW 112	1110	7.20	-	26.62	
✓ MW 113	1350	5.19	-	29.63	
✓ MW 114	1465	4.58	-	22.78	
✓ MW 115	1525	12.49	-	25.27	
✓ MW 116	1515	4.68	-	22.55	
✓ MW 117	1505	12.5	-	27.50	
✓ MW 118	1415	7.27	-	24.70	

Logged By: Mark Dunlap (Please Print)

Signature: 

Reviewed By: 

Date: 04/05/05

## GROUNDWATER LEVEL FORM

Date: 04/27/05

Ravenna Army Ammunition Plant

Ravenna, Ohio

Page 3 of 6

Instrument: SOLINST

Area/Project: RVAAP - RI 14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
L12mw-24A	1124	7.24	—	31.95	
L12mw-245	1050	6.50	—	30.28	
L12mw-246	1129	13.17	—	34.85	
CBLmw-001	1338	37.57	—	49.65	
CBLmw-002	1384	32.45	—	47.31	
CBLmw-003	1344	29.70	—	44.73	
CBLmw-004	1350	30.51	—	46.98	
NTAmw-107	1420	10.84	—	24.34	SPRAY PAINT POST PAD BROKEN
NTAmw-108	1441	15.85	—	24.50	
NTAmw-109	1455	9.92	—	20.93	REPLACE POST PADS
NTAmw-110	1502	12.46	—	29.73	
NTAmw-111	1510	8.17	—	22.05	
NTAmw-112	1515	7.04	—	26.62	REPLACE POST PADS
NTAmw-113	1525	5.18	—	29.63	REPLACE POST PADS
NTAmw-114	1534	4.51	—	22.78	REPLACE POST PADS
NTAmw-115	1543	12.43	—	25.27	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: Sue Boer

Signature: David K. Earnest

Date: 05/26/05



**Groundwater Elevations  
RI-14  
Ravenna Army Ammunition Plant, Ravenna Ohio**

Monitor Well	Measured Date	Ground Elevation at Well	TIC Elevation	Depth to Water	Depth to Water bgs	Groundwater Elevation	Total Depth of Well	Depth of Well below ground	Height of Water Column
LL5mw-001	01/20/05	1125.00	1127.92	16.25	13.33	1111.67	27.00	24.08	10.75
	03/08/05			16.17	13.25	1111.75			
	04/28/05			16.59	13.67	1111.33			
LL5mw-002	01/20/05	1125.80	1128.68	16.96	14.08	1111.72	27.47	24.59	10.51
	03/08/05			16.98	14.10	1111.70			
	04/28/05			17.30	14.42	1111.38			
LL5mw-003	01/20/05	1124.70	1127.70	14.91	11.91	1112.79	23.95	20.95	9.04
	03/08/05			14.42	11.42	1113.28			
	04/28/05			15.24	12.24	1112.46			
LL5mw-004	01/20/05	1122.90	1125.81	14.07	11.16	1111.74	25.38	22.47	11.31
	03/08/05			13.96	11.05	1111.85			
	04/28/05			14.34	11.43	1111.47			
LL5mw-005	01/20/05	1126.50	1129.42	17.79	14.87	1111.63	29.72	26.80	11.93
	03/08/05			17.67	14.75	1111.75			
	04/28/05			18.12	15.20	1111.30			
LL5mw-006	01/20/05	1125.10	1128.00	18.02	15.12	1109.98	27.05	24.15	9.03
	03/08/05			16.07	13.17	1111.93			
	04/28/05			16.58	13.68	1111.42			



## GROUNDWATER LEVEL FORM

Date: 04/28/05

Ravenna Army Ammunition Plant  
Ravenna, Ohio

Instrument: SOLINST

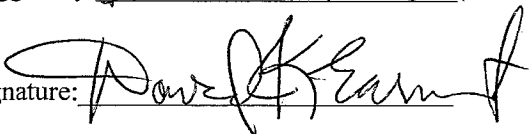
Page 5 of 6

Area/Project: RVAAP-RI 14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
LL8mw-001	940	7.02	—	27.40	
LL8mw-002	950	14.15	—	32.44	
LL8mw-003	1009	8.45	—	22.89	NO WELL CAP
LL8mw-004	1006	7.01	—	22.56	NO WELL CAP
LL8mw-005	1003	9.17	—	27.10	
LL8mw-006	957	15.72	—	27.50	
LL7mw-001	1029	17.24	—	32.97	
LL7mw-002	1015	13.03	—	27.04	NO WELL CAP
LL7mw-003	1027	8.30	—	33.42	
LL7mw-004	1024	11.55	—	32.08	
LL7mw-005	1018	18.11	—	30.22	
LL7mw-006	1021	7.82	—	30.21	
LL5mw-001	1035	16.59	—	27.00	
LL5mw-002	1039	17.30	—	27.47	
LL5mw-003	1041	15.24	—	23.95	
LL5mw-004	1043	14.34	—	25.38	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: Sue Boles

Signature: 

Date: 05/26/05

## GROUNDWATER LEVEL FORM

Date: 04/28/05

Ravenna Army Ammunition Plant  
Ravenna, Ohio

Instrument: SOLINST

Page 5 / 6 of 6

Area/Project: RVAAP - RI 14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
LL5mw-005	1049	18.12	—	29.72	
LL5mw-006	1046	16.58	—	27.05	
LNWmw-024	1325	9.76	—	22.41	
LNWmw-025	1329	3.73	—	20.21	
LNWmw-026	1334	3.56	—	25.95	
LNWmw-027	1337	5.48	—	26.80	NO WELL CAP
L10mw-001	1352	20.92	—	29.53	
L10mw-002	1356	13.55	—	29.74	
L10mw-003	1409	16.71	—	28.48	
L10mw-004	1406	9.39	—	33.47	
L10mw-005	1401	11.92	—	29.18	
L10mw-006	1403	9.00	—	26.45	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: Sue Boles

Signature: David K. Earnest

Date: 05/26/05



**Groundwater Elevations  
RI-14  
Ravenna Army Ammunition Plant, Ravenna Ohio**

Monitor Well	Measured Date	Ground Elevation at Well	TIC Elevation	Depth to Water	Depth to Water bgs	Groundwater Elevation	Total Depth of Well	Depth of Well below ground	Height of Water Column
LL7mw-001	02/02/05	1126.90	1129.64	18.22	15.48	1111.42	32.97	30.23	14.75
	03/08/05			16.85	14.11	1112.79			
	04/28/05			17.24	14.50	1112.40			
LL7mw-002	02/02/05	1126.70	1129.55	14.67	11.82	1114.88	27.04	24.19	12.37
	03/08/05			13.60	10.75	1115.95			
	04/28/05			13.03	10.18	1116.52			
LL7mw-003	02/02/05	1118.23	1120.84	9.40	6.79	1111.44	33.42	30.81	24.02
	03/08/05			8.20	5.59	1112.64			
	04/28/05			8.30	5.69	1112.54			
LL7mw-004	02/02/05	1123.30	1126.32	12.67	9.65	1113.65	32.08	29.06	19.41
	03/08/05			11.40	8.38	1114.92			
	04/28/05			11.55	8.53	1114.77			
LL7mw-005	02/02/05	1133.30	1135.87	19.34	16.77	1116.53	30.22	27.65	10.88
	03/08/05			18.04	15.47	1117.83			
	04/28/05			18.11	15.54	1117.76			
LL7mw-006	02/02/05	1120.70	1123.56	8.97	6.11	1114.59	30.21	27.35	21.24
	03/08/05			7.65	4.79	1115.91			
	04/28/05			7.82	4.96	1115.74			



## GROUNDWATER LEVEL FORM

Date: 04/28/05

Ravenna Army Ammunition Plant  
Ravenna, Ohio

Instrument: SOLINST

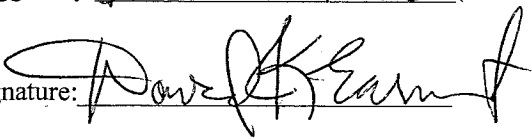
Page 5 of 6

Area/Project: RVAAP-RI 14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
LL8mw-001	940	7.02	—	27.40	
LL8mw-002	950	14.15	—	32.44	
LL8mw-003	1009	8.45	—	22.89	NO WELL CAP
LL8mw-004	1006	7.01	—	22.56	NO WELL CAP
LL8mw-005	1003	9.17	—	27.10	
LL8mw-006	957	15.72	—	27.50	
LL7mw-001	1029	17.24	—	32.97	
LL7mw-002	1015	13.03	—	27.04	NO WELL CAP
LL7mw-003	1027	8.30	—	33.42	
LL7mw-004	1024	11.55	—	32.08	
LL7mw-005	1018	18.11	—	30.22	
LL7mw-006	1021	7.82	—	30.21	
LL5mw-001	1035	16.59	—	27.00	
LL5mw-002	1039	17.30	—	27.47	
LL5mw-003	1041	15.24	—	23.95	
LL5mw-004	1043	14.34	—	25.38	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: Sue Boles

Signature: 

Date: 05/26/05

**Groundwater Elevations  
RI-14  
Ravenna Army Ammunition Plant, Ravenna Ohio**

Monitor Well	Measured Date	Ground Elevation at Well	TIC Elevation	Depth to Water	Depth to Water bgs	Groundwater Elevation	Total Depth of Well	Depth of Well below ground	Height of Water Column
LL8mw-001	02/03/05	1118.69	1121.46	8.22	5.45	1113.24	27.40	24.63	19.18
	03/08/05			6.58	3.81	1114.88			
	04/28/05			7.02	4.25	1114.44			
LL8mw-002	02/03/05	1121.67	1124.51	14.98	12.14	1109.53	32.44	29.60	17.46
	03/08/05			13.77	10.93	1110.74			
	04/28/05			14.15	11.31	1110.36			
LL8mw-003	02/03/05	1116.30	1119.05	9.26	6.51	1109.79	22.89	20.14	13.63
	03/08/05			8.40	5.65	1110.65			
	04/28/05			8.45	5.70	1110.60			
LL8mw-004	02/03/05	1112.73	1115.75	7.72	4.70	1108.03	22.56	19.54	14.84
	03/08/05			6.62	3.60	1109.13			
	04/28/05			7.01	3.99	1108.74			
LL8mw-005	02/03/05	1112.51	1115.73	10.43	7.21	1105.30	27.10	23.88	16.67
	03/08/05			8.86	5.64	1106.87			
	04/28/05			9.17	5.95	1106.56			
LL8mw-006	02/03/05	1114.33	1117.15	17.18	14.36	1099.97	27.50	24.68	10.32
	03/08/05			15.57	12.75	1101.58			
	04/28/05			15.72	12.90	1101.43			



## GROUNDWATER LEVEL FORM

Date: 04/28/05

Ravenna Army Ammunition Plant  
Ravenna, Ohio

Instrument: SOLINST

Page 5 of 6

Area/Project: RVAAP-RI 14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
LL8mw-001	940	7.02	—	27.40	
LL8mw-002	950	14.15	—	32.44	
LL8mw-003	1009	8.45	—	22.89	NO WELL CAP
LL8mw-004	1006	7.01	—	22.56	NO WELL CAP
LL8mw-005	1003	9.17	—	27.10	
LL8mw-006	957	15.72	—	27.50	
LL7mw-001	1029	17.24	—	32.97	
LL7mw-002	1015	13.03	—	27.04	NO WELL CAP
LL7mw-003	1027	8.30	—	33.42	
LL7mw-004	1024	11.55	—	32.08	
LL7mw-005	1018	18.11	—	30.22	
LL7mw-006	1021	7.82	—	30.21	
LL5mw-001	1035	16.59	—	27.00	
LL5mw-002	1039	17.30	—	27.47	
LL5mw-003	1041	15.24	—	23.95	
LL5mw-004	1043	14.34	—	25.38	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: Sue Bolin

Signature: David K. Earnest

Date: 05/26/05

**Groundwater Elevations  
RI-14  
Ravenna Army Ammunition Plant, Ravenna Ohio**

Monitor Well	Measured Date	Ground Elevation at Well	TIC Elevation	Depth to Water	Depth to Water bgs	Groundwater Elevation	Total Depth of Well	Depth of Well below ground	Height of Water Column
L10mw-001	01/26/05	1130.00	1132.77	20.87	18.10	1111.90	29.53	26.76	8.66
	03/08/05			20.90	18.13	1111.87			
	04/28/05			20.92	18.15	1111.85			
L10mw-002	01/26/05	1124.40	1127.13	13.54	10.81	1113.59	29.74	27.01	16.20
	03/08/05			13.30	10.57	1113.83			
	04/28/05			13.55	10.82	1113.58			
L10mw-003	01/26/05	1127.40	1130.28	16.89	14.01	1113.39	28.48	25.60	11.59
	03/08/05			15.54	12.66	1114.74			
	04/28/05			16.71	13.83	1113.57			
L10mw-004	01/26/05	1119.60	1122.39	9.53	6.74	1112.86	33.47	30.68	23.94
	03/08/05			9.13	6.34	1113.26			
	04/28/05			9.39	6.60	1113.00			
L10mw-005	01/26/05	1122.90	1125.67	11.86	9.09	1113.81	29.18	26.41	17.32
	03/08/05			13.69	10.92	1111.98			
	04/28/05			11.92	9.15	1113.75			
L10mw-006	01/26/05	1121.20	1123.83	9.48	6.85	1114.35	26.45	23.82	16.97
	03/08/05			8.86	6.23	1114.97			
	04/28/05			9.00	6.37	1114.83			





## GROUNDWATER LEVEL FORM

Date: 04/28/05

Ravenna Army Ammunition Plant  
Ravenna, Ohio

Instrument: SOLINST


Page 7 of 6

Area/Project: RVAAP - RI 14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
L5mw-005	1049	18.12	—	29.72	
L5mw-006	1046	16.58	—	27.05	
LNWmw-024	1325	9.76	—	22.41	
LNWmw-025	1329	3.73	—	20.21	
LNWmw-026	1334	3.56	—	25.95	
LNWmw-027	1337	5.48	—	26.80	NO WELL CAP
L10mw-001	1352	20.92	—	29.53	
L10mw-002	1356	13.55	—	29.74	
L10mw-003	1409	16.71	—	28.48	
L10mw-004	1406	9.39	—	33.47	
L10mw-005	1401	11.92	—	29.18	
L10mw-006	1403	9.00	—	26.45	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: Sue Boles

Signature: 

Date: 05/26/05

**Groundwater Elevations  
RI-14  
Ravenna Army Ammunition Plant, Ravenna Ohio**

Monitor Well	Measured Date	Ground Elevation at Well	TIC Elevation	Depth to Water	Depth to Water bgs	Groundwater Elevation	Total Depth of Well	Depth of Well below ground	Height of Water Column
ASYmw-001	01/21/05	978.40	981.13	9.14	6.41	971.99	23.10	20.37	13.96
	03/08/05			8.75	6.02	972.38			
	04/27/05			8.45	5.72	972.68			
ASYmw-002	01/21/05	982.00	985.24	12.15	8.91	973.09	22.90	19.66	10.75
	03/08/05			11.30	8.06	973.94			
	04/27/05			10.85	7.61	974.39			
ASYmw-003	01/21/05	979.70	982.21	10.24	7.73	971.97	23.45	20.94	13.21
	03/08/05			9.80	7.29	972.41			
	04/27/05			9.50	6.99	972.71			
ASYmw-004	01/21/05	977.10	979.66	7.59	5.03	972.07	29.75	27.19	22.16
	03/08/05			7.30	4.74	972.36			
	04/27/05			7.10	4.54	972.56			
ASYmw-005	01/21/05	977.60	979.80	6.42	4.22	973.38	27.15	24.95	20.73
	03/08/05			9.10	6.90	970.70			
	04/27/05			5.85	3.65	973.95			
ASYmw-006	01/21/05	980.20	983.01	11.86	9.05	971.15	28.85	26.04	16.99
	03/08/05			11.50	8.69	971.51			
	04/27/05			11.15	8.34	971.86			
ASYmw-007	01/21/05	981.40	984.16	13.19	10.43	970.97	28.86	26.10	15.67
	03/08/05			12.90	10.14	971.26			
	04/27/05			12.50	9.74	971.66			
ASYmw-008	01/21/05	976.20	978.85	4.35	1.70	974.50	27.75	25.10	23.40
	03/08/05			4.25	1.60	974.60			
	04/27/05			4.20	1.55	974.65			
ASYmw-009	01/21/05	979.90	982.70	10.46	7.66	972.24	24.53	21.73	14.07
	03/08/05			9.95	7.15	972.75			
	04/27/05			9.60	6.80	973.10			
ASYmw-010	01/21/05	978.20	981.05	10.12	7.27	970.93	31.10	28.25	20.98
	03/08/05			9.65	6.80	971.40			
	04/27/05			9.35	6.50	971.70			

## GROUNDWATER LEVEL FORM

Date: 21 Jan 05

Ravenna Army Ammunition Plant  
Ravenna, Ohio

Instrument: Heron

Page 1 of 1

Area/Project: RVAAP RI14 - AHow Scrap Yard

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
✓ MW-001	0827	9.14		23.10	TCC=3.0 TIC D.M. = 0.28
✓ MW-002	0843	12.15		22.90	TCC=3.6 TIC D.M. = 0.27
✓ MW-003	0855	10.24		23.45	TCC=2.9 TIC D.M. = 0.31
✓ MW-004	1112	7.59		29.75	TCC=2.80 TIC D.M. = 0.28
✓ MW-005	1102	6.42		27.15	TCC=3.11 TIC D.M. = 0.76
✓ MW-006	1345	11.86		28.85 <del>24.5 ADD</del>	TCC=3.0 TIC D.M. = 0.20
✓ MW-007	1456	13.19		28.86	TCC=2.93 TIC D.M. = 0.29
✓ MW-008	1505	4.35		27.75	TCC=2.75 TIC D.M. = 0.19
✓ MW-009	11:22	10.46		24.53	TCC=2.9 TIC D.M. = 0.19
✓ MW-010	14.00	10.12		31.10	TCC=3.29 TIC D.M. = 0.24

Logged By: Mark Dunley (Please Print)

Reviewed By: Lee Boles

Signature: [Handwritten Signature]

Date: 04/05/05

## GROUNDWATER LEVEL FORM

Date: 04/27/05

Ravenna Army Ammunition Plant

Ravenna, Ohio

Instrument: SOLINST

Page 1 of 0

Area/Project: RVAAP - RI 14

Monitoring Well ID	Time Taken	Depth to Water	Depth to Product	Total Depth of Well	Comments
B12mw-010	952	14.05	—	22.80	POST PADS NEED REPLACE
B12mw-011	947	14.65	—	26.68	
B12mw-012	950	13.80	—	24.80	
BK6mw-010	954	14.65	—	21.97	
AS4mw-001	1012	8.45	—	23.10	
AS4mw-002	1015	10.85	—	22.90	
AS4mw-003	1008	9.50	—	23.45	
AS4mw-004	1004	7.10	—	29.45	
AS4mw-005	1002	5.85	—	27.15	
AS4mw-006	1022	11.15	—	28.85	
AS4mw-007	1028	12.50	—	28.86	NO WELL CAP
AS4mw-008	1031	4.20	—	27.75	COLLAR OF CAP CRACKED
AS4mw-009	1017	9.60	—	24.53	
AS4mw-010	1024	9.35	—	31.10	

Logged By: DAVID K. EARNEST (Please Print)

Reviewed By: [Signature]

Signature: [Signature]

Date: 05/26/05