

FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

ANNUAL REPORT FOR 2007

RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO

MARC Contract Number W912QR-04-D-0036 Delivery Order No. 0006

Prepared for:

U.S. Army Corps of Engineers 600 Martin Luther King Jr. Place Louisville, Kentucky 40202

Prepared by:

Environmental Quality Management, Inc. 1800 Carillon Boulevard Cincinnati Ohio 45240

March 24, 2008

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FWGWMP Annual Report (FINAL) 2007 Distribution List

RVAAP – 2 printed copies, 2 CDs USACE - 2 printed copies, 3 CDs USACE – 1 CD Ohio EPA – 2 printed copies, 3 CDs OHARNG – 1 printed copy, 1 CD EQM – 1 printed copy, 1 CD

TABLE OF CONTENTS

	Contents	
SECTIO	N 1 INTRODUCTION	
1.1	Facility Description	
1.2	Project Description	
1.3	Summary of the Scope of Work for 2007	
1.4	Annual Report Requirements and Report Presentation	
1.5	Changes to the FWGWMP in 2007	
1.6	Changes to the FWGWMP in 2008	
SECTIO	N 2 SUMMARY OF WELLS INSTALLED OR ABANDONED IN 2007	8
SECTIO	N 3 SUMMARY OF 2007 FWGWMP EVENTS	9
3.1	Groundwater Elevation Monitoring	9
3.2	Sedimentation/Turbidity of the Wells	25
3.3	Monitoring Well Inspection Results	26
3.4	Summary of Groundwater Sampling Results	27
3.5	Laboratory Audit	30
SECTIO	N 4 SUMMARY/ASSESSMENT OF ANNUAL FWGWMP ANALYTIC	
4 1	RESULTS	
4.1 4.2	Introduction	
4.2 4.3	Background Load Line1	
4.3 4.4	Load Line 2	
4.4	Load Line 3	
4.6	Load Line 4	
4.7	Load Line 11	
4.8	Load Line 12	
4.9	Central Burn Pits	
4.10	Demolition Area #2	
4.11	Ramsdell Quarry Landfill	
4.12	Winklepeck Burning Grounds	
4.13	Assessment of Groundwater Remedial Action Effectiveness	
SECTIO	N 5 FWGWMP ANNUAL RECOMMENDATIONS/REVIEW	76
5.1	Introduction	
5.2	Background	
SECTIO	N 6 REFERENCES	78

Section

Page

List of Figures

1-1	RVAAP General Location Map	.2
	RVAAP Facility Map	

List of Tables

3-1	Depth to Water and Potentiometric Elevation – October 2007	10
3-2	Well Construction Details Including October 2007 Depth to Bottom	15
3-3	Historical Potentiometric Elevations in Selected Wells	24
3-4	Well Inspection Summary	28
4-1	Summary of Constituents Detected - October 2006 Through July 2007	33
4-2	RVAAP Facility-wide Background Criteria	46
4-3	2007 FWGWMP Region 9 PRG or MCL Exceedances	

Appendices

Appendix A	Reporting Limits that Currently Do Not Meet the RVAAP QAPP
	PQLs and/or Region 9 PRGs
Appendix B	Water Level Measurement Field Sheets

- Appendix C Well Inspection Sheets
- Appendix D Laboratory Audit Report
- Appendix E Time-trend Graphs
- Appendix F Maps of FWGWMP Study Areas
- Appendix G Proposed Well Sampling Sequence

Plates

- Plate 1 Monitoring Wells at RVAAP
- Plate 2 Potentiometric Map of Unconsolidated Aquifer (October 2007)
- Plate 3 Potentiometric Surface of Bedrock Homewood and Sharon (October 2007) Aquifer

LIST OF ACRONYMS

amsl	Above Mean Sea Level
AOC	Area of Concern
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CLP	Contract Laboratory Program
DA2	Demolition Area #2
DOD	Department of Defense
EQM	Environmental Quality Management, Inc.
FWGWMP	Facility-wide Groundwater Monitoring Program
FWSAP	Facility-wide Sampling and Analysis Plan
GOCO	Government Owned, Contractor Operated
IRP	Installation Restoration Program
LCS	Laboratory Control Sample
LCG	Louisville Chemistry Guidelines
IDW	Investigation Derived Waste
LTM	Long Term Monitoring
μg/L	microgram per Liter
MARC	Multiple Award Remediation Contract
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NELAC	National Environmental Laboratory Accreditation Conference
NGB	National Guard Bureau
NOAA	National Oceanograpic and Atmospheric Administration
Ohio EPA	Ohio Environmental Protection Agency
OHARNG	Ohio Army National Guard
PCB	Polychlorinated biphenyl
PQLs	Practical Quantitation Limits
PRGs	Preliminary Remediation Goals
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RIs	Remedial Investigations
RLs	Reporting Limits
RQL	Ramsdell Quarry Landfill
RTLS	Ravenna Training and Logistics Site
RVAAP	Ravenna Army Ammunition Plant
SVOC	Semi-volatile organic compound
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USP&FO	United States Property and Fiscal Officer
VOC	Volatile organic compound

SECTION 1

INTRODUCTION

1.1 Facility Description

Past Department of Defense (DOD) activities at the Ravenna Army Ammunition Plant (RVAAP) date to 1940 and include the manufacturing, loading, handling and storage of military explosives and ammunition. Until 1999, the RVAAP was identified as a 21,419acre installation. The property boundary was resurveyed by the Ohio Army National Guard (OHARNG) over a two year period from 2002 and 2003 and the actual total acreage of the property was found to be 21,683.289 acres. As of February 2006, a total of 20,403 acres of the former 21,683 acre RVAAP have been transferred to the United States Property and Fiscal Officer (USP&FO) for Ohio for use by the OHARNG as a military training site. The current RVAAP consists of 1.280 acres in several distinct parcels scattered throughout the confines of the OHARNG Ravenna Training and Logistics Site (RTLS). The RVAAP and the RTLS are collocated on contiguous parcels of property and the RTLS perimeter fence completely encloses the remaining parcels of the RVAAP. The RTLS is in northeastern Ohio within Portage and Trumbull Counties, approximately 4.8 kilometers (3 miles) east-northeast of the city of Ravenna and approximately 1.6 kilometers (1 mile) northwest of the city of Newton Falls (Figure 1-1). The RVAAP portions of the property are solely located within Portage County. The RTLS (inclusive of the RVAAP) is a parcel of property approximately 17.7 kilometers (11 miles) long and 5.6 kilometers (3.5 miles) wide bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad on the south; Garret, McCormick, and Berry roads on the west; the Norfolk Southern Railroad on the north; and State Route 534 on the east (see Figures 1-1 and 1-2). The RTLS is surrounded by several communities: Windham on the north; Garrettsville 9.6 kilometers (6 miles) to the northwest; Newton Falls 1.6 kilometers (1 mile) to the southeast; Charlestown to the southwest; and Wayland 4.8 kilometers (3 miles) to the south. When the RVAAP was operational the RTLS did not exist and the entire 21,683-acre parcel was a governmentowned, contractor-operated (GOCO) industrial facility. The RVAAP Installation Restoration Program (IRP) encompasses investigation and cleanup of past activities over the entire 21,683 acres of the former RVAAP and therefore references to the RVAAP in this document are considered to be inclusive of the historical extent of the RVAAP. which is inclusive of the combined acreages of the current RTLS and RVAAP, unless otherwise specifically stated.

1.2 Project Description

In 2004 the U.S. Army and the Ohio EPA finalized the Facility-wide Groundwater Monitoring Program (FWGWMP) Plan which details the requirements of the program. The FWGWMP was initiated in 2005 with three consecutive quarters of FWGWMP well

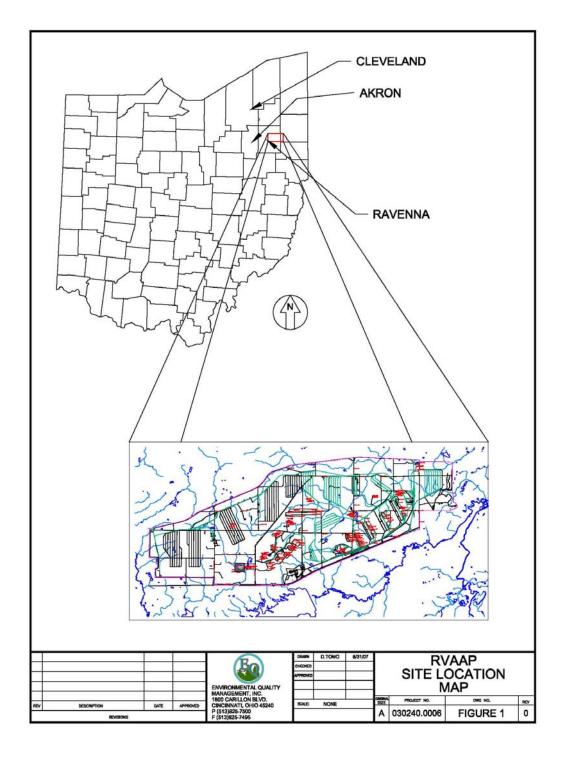


Figure 1-1 General Location Map



Figure 1-2 RVAAP Facility Map

sampling. Quarterly sampling has continued in 2006 and 2007. All FWGWMP wells were sampled once every quarter, with the exception of the Ramsdell Quarry Landfill (RQL) wells RQLmw-007, -008, and -009, and two Demolition Area #2 (DA2) wells, DA2mw-DET3 and –DET4. The RQL and DA2 wells were sampled twice a year, during the second (April) and fourth (October) sampling events.

Details of the program design and requirements are contained in the *RVAAP Facility-Wide Groundwater Monitoring Program Plan*, (Portage Environmental, September 2004). This document contains the Facility-wide Sampling and Analysis Plan (FWSAP), Site Safety and Health Plan, and Quality Assurance Project Plan (QAPP) addenda that pertain to the proposed work. Additional details pertaining to performance of field and laboratory activities are contained in the *RVAAP Facility-Wide Sampling and Analysis Plan/Quality Assurance Project Plan (FWSAP)*, (SAIC, March 2001). As detailed in the FWGWMP Plan, the initial monitoring program consists of the sampling of 36 wells specified in Table 4-1 of the FWGWMP Plan. Fourteen of these wells are "Background Wells" and the remainder are wells situated at various Areas of Concern (AOCs) at RVAAP. The first sampling event for the FWGWMP was conducted in April 2005.

By agreement with the U.S. Army and the Ohio EPA and in accordance with Amendment No. 1 to the FWGWMP Plan, the Annual Report for 2007 summarizes the October 2006, January, April, and July, 2007 sampling events. Amendment No. 1 changed the annual reporting period from 1 January – 31 December to 1 October – 30 September. The change to the program was made so that the Annual Report for 2006 would include monitoring activities performed in the 4th quarter of 2005, and the 1st, 2nd, and 3rd quarters of 2006. Subsequent annual monitoring periods would also follow this pattern, such as the 2007 annual report, which covers the fourth quarter of 2006 and the first, second, and third quarters of 2007. This change was made because it was discovered that requiring the 4th quarter data to be included in the current years' Annual Report did not allow sufficient time to collect samples, analyze samples, verify and validate data, assess results and still make the December deadline for including these results in the Annual Report.

The results of the sampling events covered under this annual report are presented in the following documents:

- Facility-Wide Groundwater Monitoring Program, Report on the October 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio, dated March 2007 (SpecPro).
- Facility-Wide Groundwater Monitoring Program, Report on the January 2007 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio, dated May 2007 (SpecPro).

- Draft Facility-Wide Groundwater Monitoring Program, Report on the April 2007 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio, dated July 2007 (EQM).
- Draft Facility-Wide Groundwater Monitoring Program, Report on the July 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio, dated October 2007 (EQM).

The results for the October 2007 sampling event will be submitted in a separate document and will be summarized in the Annual Report for 2008.

1.3 Summary of the Scope of Work for 2007

Environmental Quality Management, Inc. (EQM) has been contracted (MARC Contract Number W912QR-04-D-0036) by the U.S. Army Corps of Engineers, Louisville District (USACE) to conduct the 2007 FWGWMP monitoring program beginning in April 2007. Prior to the April 2007 monitoring event, SpecPro conducted groundwater monitoring activities under the FWGWMP. The objective of this project is to continue quarterly monitoring under the RVAAP Facility-wide Groundwater Monitoring Program. The following tasks were performed in accordance with specifications contained in the FWGWMP Plan, the FWSAP, and the Scope of Work written by the USACE:

- Performed groundwater sampling of select wells (36) for four consecutive quarters including the requisite Investigation Derived Waste (IDW) characterization, reporting and disposal. The wells were sampled in October 2006 and January 2007 by SpecPro, and in April and July 2007 by EQM. The RQL (3 wells) and DA2 wells (DET-3 and DET-4) were only sampled in October 2006 and April 2007 as required.
- Water-level measurements from the 237 RVAAP monitoring wells were measured immediately prior to the October 2007 sampling event which were used to generate updated potentiometric maps. Note that water level measurements were scheduled to be completed prior to the July 2007 sampling event but access restrictions to DA2 and the Winklepeck Burning Grounds resulted in postponement until October.
- Performed laboratory analyses and data validation for the collected samples.
- Reduced quarterly data and preparation of individual sampling event reports.
- Prepared the 2007 annual report, including the overall program review requirement.
- Performed maintenance on selected groundwater monitoring wells.

1.4 Annual Report Requirements and Report Presentation

This report presents the FWGWMP 2007 Annual Report. The report is structured in the following way:

- Section 1 Introduction
- Section 2 Summary of Monitoring Wells Installed or Abandoned in 2007
- Section 3 Summary of Annual FWGWMP Events
- Section 4 Summary and Assessment of Annual FWGWMP Analytical Results
- Section 5 FWGWMP Annual Recommendations/Review
- Section 6 References

The appendices contain the following items:

- Appendix A Reporting Limits that Currently Do Not Meet the RVAAP QAPP PQLs and/or Region 9 PRGs
- Appendix B Water Level Measurement Field Sheets
- Appendix C Well Inspection Sheets
- Appendix D Laboratory Audit Report
- Appendix E Time-Trend Graphs
- Appendix F Maps of FWGWMP Study Areas
- Appendix G Proposed Well Sampling Sequence

The following lists the information required for the annual report as detailed in Section 5.2 of the FWGWMP Plan, as well as where this information is presented in this report:

- An evaluation of the current groundwater flow direction(s) based on water-level elevation data collected in October 2007 is discussed in Section 3.1.
- An evaluation of the trends of contamination detected in groundwater, as well as an assessment of the effectiveness of any groundwater remediation activities is presented in Section 4.0.
- The plots of concentration trends are presented in Appendix E, and are discussed in Section 4.0
- The facility map is presented in Section 1.0. The monitoring well network map and groundwater flow maps are presented in Plates 1, 2, and 3. Additional FWGWMP monitoring well locations are shown in Appendix F.
- The results of the monitoring well inspections are presented in Appendix C and summarized in Section 3.2.
- FWGWMP annual recommendations and review are presented in Section 5.0.

1.5 Changes to the FWGWMP in 2007

During this reporting period, some metals analytical methods were changed from SW846 6010 to 6020 in order to achieve lower reporting limits. For the July 2006 event, only thallium was analyzed by method 6020; other metals were analyzed using 6010 (except mercury). Beginning in October 2006, antimony, iron, beryllium, zinc, cadmium, aluminum were added to the 6020, and deleted from the 6010 list.

No other changes to the FWGWMP were implemented during the 2007 reporting period.

1.6 Changes to the FWGWMP for 2008

A perchlorate analysis addendum to the FWGWMP Plan was implemented for the October 2007 monitoring event that will be reported in the 2008 Annual Report.

Several analytical methods used for a number of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyl (PCBs) and explosives cannot meet the Region 9 preliminary remediation goals (PRGs) for some analytes. Additionally, three explosive analytes did not meet the Reporting Limits (RLs) of the project QAPP. Tables listing these compounds are presented in Appendix A.

Currently the laboratory has a standard reporting limit of 1,000 μ g/L and a method detection limit (MDL) of 72 μ g /L for potassium by SW846 6010B. The project required detection limit in the QAPP is 200 μ g /L. The laboratory actually meets the QAPP specified limit with their MDL, but not with an RL. All results for this project are being reported down to the MDL, so concentrations are being evaluated at levels significantly below the QAPP required detection limit, although any concentration less than the RL of 1,000 μ g /L is flagged as an estimated value. Discussions were held with the laboratory to investigate the feasibility of using SW846 6020 for potassium to achieve a more sensitive RL. The laboratory indicated, and EQM concurs, that SW846 6020 is not a well-suited method for the analysis of potassium. Typical naturally occurring concentrations of potassium in environmental samples are such that the laboratory would end up diluting samples to levels in order to bring potassium concentrations within the linear range of the instrument, resulting in MDL's/RL's the same as, or higher, than those that can be achieved by SW846 6010.

As potassium is naturally occurring in environmental samples, and has consistently been above the specified QAPP RL in historical RVAAP samples, the need to detect potassium concentrations down to the level specified in the QAPP may not be necessary. Given the background criteria for filtered samples (5,770 μ g /L for bedrock wells, and 2,890 μ g/l for unconsolidated wells) as well as the reporting limit considerations described above, it is recommended that the reporting limit in the FWGWMP for potassium be raised to 1,000 μ g /L.

SECTION 2

SUMMARY OF WELLS INSTALLED OR ABANDONED IN 2007

No FWGWMP wells were installed or abandoned during the 2007 reporting period.

SECTION 3

SUMMARY OF 2007 FWGWMP EVENTS

3.1 Groundwater Elevation Monitoring

Groundwater elevations were measured at 237 RVAAP monitoring wells between October 1 and 3, 2007. The locations of monitoring wells at RVAAP are shown on Plate 1.

Water-level measurements were made in accordance with procedures in Section 4.3.3.1 of the FWSAP. Appendix B presents the water-level measurement field sheets. Water-level measurements were made from the top of the inner casing to the top of the groundwater surface using an electronic measuring tape. The depth to the bottom of the well from the top of the inner casing also was measured with the electronic measuring tape. Depth-to-water and groundwater elevations for the RVAAP wells are presented in Table 3-1. Well construction details and depth to well bottom are presented in Table 3-2.

Each monitoring well was inspected at the time of water-level measurement and the results are discussed in Section 3.2. The monitoring well inspection sheets are presented in Appendix C.

Historically, water-level data have been interpreted to indicate that groundwater in both the unconsolidated deposits and bedrock flows across RVAAP in an easterly direction. These historical data also indicate that the unconsolidated aquifer shows local flow variations that reflect direct hydraulic communication between groundwater and surface water.

For this 2007 annual report, two Facility-wide potentiometric maps have been prepared. These maps represent the upper unconsolidated aquifer (Plate 2) and the deeper bedrock system (Plate 3). For this presentation, the bedrock system has been differentiated by geologic formation to represent the Homewood Member of the Pennsylvania-age Pottsville Formation in the western half of the facility and the Sharon Member of the Pottsville Formation in the eastern half of the facility, per methods suggested by the USACE (Hockett, 2007). Table 3-2 lists the monitored zones defined for this report.

Plate 2 represents Facility-wide groundwater flow in wells completed into the unconsolidated aquifer. The unconsolidated aquifer includes glacial till, glacial outwash, alluvium, and soil. Plate 2 illustrates that the potentiometric surface (i.e., water table) of the unconsolidated aquifer is a subdued expression of the surface topography of the RVAAP. Groundwater potentiometric elevation decreases approximately 207 ft from west to east across RVAAP; with a maximum measured elevation of about 1136.95 ft above mean sea level (amsl) at well BKGmw-005 in the northwest portion of the facility

		Monitored Zer-	TOC Elevation	October 2007	Potentiometric	
RVAAP Area	Well ID	Monitored Zone	(ft amsl)	Depth to Water (ft, BTOC)	Elevation Octobe	
Pookaround	BKGmw-004	Unconsolidated	067.66	(п, втос) 14.79	2007 (ft amsl)	
Background		Unconsolidated	967.66		952.87	
	BKGmw-005		1,151.94	14.99	1,136.95	
	BKGmw-006	Sharon	1,028.88	23.18	1,005.70	
	BKGmw-008	Sharon	972.90	19.20	953.70	
	BKGmw-010	Sharon	1,006.18	21.25	984.93	
	BKGmw-012	Sharon	1,000.07	12.28	987.79	
	BKGmw-013	Unconsolidated	989.09	13.12	975.97	
	BKGmw-015	Sharon	1,040.40	51.53	988.87	
	BKGmw-016	Unconsolidated	1,100.92	8.10	1,092.82	
	BKGmw-017	Unconsolidated	1,135.30	21.33	1,113.97	
	BKGmw-018	Sharon	1,045.56	16.40	1,029.16	
	BKGmw-019	Unconsolidated	1,110.74	21.11	1,089.63	
	BKGmw-020	Unconsolidated	1,067.50	12.86	1,054.64	
	BKGmw-021	Unconsolidated	974.66	19.67	954.99	
Load Line 1	LL1mw-063	Sharon	994.84	27.74	967.10	
	LL1mw-064	Unconsolidated	935.10	3.86	931.24	
	LL1mw-065	Unconsolidated	944.41	14.59	929.82	
	LL1mw-067	Sharon	980.36	19.25	961.11	
	LL1mw-078	Sharon	995.84	32.24	963.60	
	LL1mw-079	Sharon	997.87	32.29	965.58	
	LL1mw-080	Sharon	996.27	14.30	981.97	
	LL1mw-081	Sharon	998.92	32.05	966.87	
	LL1mw-082	Sharon	1,006.45	31.78	974.67	
	LL1mw-083	Sharon	995.20	33.52	961.68	
	LL1mw-084	Sharon	998.73	31.43	967.30	
	LL1mw-085	Sharon	996.84	35.19	961.65	
Load Line 2	LL2mw-059	Sharon	966.67	13.88	952.79	
	LL2mw-060	Sharon	961.57	10.91	950.66	
	LL2mw-261	Sharon	1,011.40	8.10	1,003.30	
	LL2mw-262	Sharon	1,012.62	11.34	1,001.28	
	LL2mw-263	Sharon	1,011.47	11.43	1,000.04	
	LL2mw-264	Sharon	1,011.88	10.15	1,001.73	
	LL2mw-265	Sharon	961.24	10.48	950.76	
	LL2mw-266	Sharon	1,016.28	14.50	1,001.78	
	LL2mw-267	Sharon	1,014.81	13.90	1,000.91	
	LL2mw-268	Sharon	1,017.28	16.20	1,001.08	
	LL2mw-269	Sharon	1,011.62	19.49	992.13	
	LL2mw-270	Sharon	1,010.18	11.53	998.65	
Load Line 3	LL3mw-232	Sharon	1,000.41	23.33	977.08	
	LL3mw-233	Sharon	1,004.36	27.00	977.36	
	LL3mw-234	Sharon	1,006.56	10.99	995.57	
	LL3mw-235	Sharon	1,009.94	21.83	988.11	
	LL3mw-236	Sharon	1,011.17	20.13	991.04	
	LL3mw-237	Sharon	1,005.57	19.80	985.77	
	LL3mw-238	Sharon	1,006.91	17.44	989.47	
	LL3mw-239	Sharon	1,003.50	27.11	976.39	
	LL3mw-240	Sharon	1,007.52	28.93	978.59	
	LL3mw-241	Sharon	994.65	14.97	979.68	
	LL3mw-241	Sharon	9994.03	18.90	980.42	
	LL3mw-242	Sharon	999.32 991.16	18.36	972.80	

Table 3-1. Depth to Water and Potentiometric Elevation (October 2007)

RVAAP Area	Well ID	Monitored Zone	TOC Elevation (ft amsl)	October 2007 Depth to Water	Potentiometric Elevation Octobe 2007 (ft amsl) 972.69	
Load Line 4	LL4mw-193	Unconsolidated	982.92	(ft, BTOC) 10.23		
Load Line 4	LL4mw-194	Unconsolidated	983.76	10.69	973.07	
	LL4mw-195	Unconsolidated	982.59	11.67	970.92	
	LL4mw-195	Unconsolidated	984.55	14.12	970.92	
	LL4mw-196	Unconsolidated	984.55 985.46	14.12	970.43	
		Unconsolidated	983.40	10.74		
	LL4mw-198	Unconsolidated		8.22	972.68	
	LL4mw-199		977.28		969.06	
Lood Line F	LL4mw-200 LL5mw-001	Unconsolidated	987.93	18.39	969.54	
Load Line 5		Homewood	1,127.92	21.74	1,106.18	
	LL5mw-002	Homewood	1,128.68	22.48	1,106.20	
	LL5mw-003	Unconsolidated	1,127.70	21.34	1,106.36	
	LL5mw-004	Homewood	1,125.81	19.70	1,106.11	
	LL5mw-005	Homewood	1,129.42	23.25	1,106.17	
	LL5mw-006	Homewood	1,128.00	21.83	1,106.17	
Load Line 6	LL6mw-001	Unconsolidated	1,124.16	16.37	1,107.79	
	LL6mw-002	Unconsolidated	1,129.36	22.72	1,106.64	
	LL6mw-003	Homewood	1,125.38	17.87	1,107.51	
	LL6mw-004	Homewood	1,125.39	18.61	1,106.78	
	LL6mw-005	Homewood	1,120.47	13.49	1,106.98	
	LL6mw-006	Unconsolidated	1,124.37	16.19	1,108.18	
	LL6mw-007	Homewood	1,115.62	9.21	1,106.41	
Load Line 7	LL7mw-001	Homewood	1,129.64	22.20	1,107.44	
	LL7mw-002	Homewood	1,129.55	18.71	1,110.84	
	LL7mw-003	Homewood	1,120.84	13.14	1,107.70	
	LL7mw-004	Homewood	1,126.32	16.61	1,109.71	
	LL7mw-005	Homewood	1,135.87	23.79	1,112.08	
	LL7mw-006	Homewood	1,123.56	13.24	1,110.32	
Load Line 8	LL8mw-001	Unconsolidated	1,121.46	13.79	1,107.67	
	LL8mw-002	Unconsolidated	1,124.51	21.35	1,103.16	
	LL8mw-003	Unconsolidated	1,119.05	15.51	1,103.54	
	LL8mw-004	Unconsolidated	1,115.75	13.94	1,101.81	
	LL8mw-005	Homewood	1,115.73	15.79	1,099.94	
	LL8mw-006	Homewood	1,117.17	21.24	1,095.93	
Load Line 9	LL9mw-001	Homewood	1,134.62	17.41	1,117.21	
	LL9mw-002	Homewood	1,127.30	16.94	1,110.36	
	LL9mw-003	Homewood	1,135.76	14.63	1,121.13	
	LL9mw-004	Homewood	1,131.83	22.57	1,109.26	
	LL9mw-005	Homewood	1,130.93	18.51	1,112.42	
	LL9mw-006	Homewood	1,129.88	21.20	1,108.68	
	LL9mw-007	Homewood	1,119.99	11.43	1,108.56	
Load Line	LL10mw-001	Homewood	1,132.77	26.21	1,106.56	
10	LL10mw-002	Homewood	1,127.13	19.42	1,107.71	
	LL10mw-002	Homewood	1,130.28	21.73	1,108.55	
	LL10mw-004	Homewood	1,122.39	15.29	1,107.10	
	LL10mw-005	Homewood	1,125.67	17.55	1,108.12	
	LL10mw-006	Unconsolidated	1,123.83	14.87	1,108.96	

Table 3-1. Depth to Water and Potentiometric Elevation (October 2007)

RVAAP Area	Well ID	Monitored Zone	TOC Elevation	October 2007 Depth to Water	Potentiometric Elevation Octobe
			(ft amsl)	(ft, BTOC)	2007 (ft amsl)
Load Line	LL11mw-001	Unconsolidated	1,100.16	13.71	1,086.45
11	L L11mw-002	Unconsolidated	1,080.00	6.05	1,073.95
	LL11mw-003	Unconsolidated	1,088.48	4.41	1,084.07
	LL11mw-004	Unconsolidated	1,084.72	4.29	1,080.43
	LL11mw-005	Unconsolidated	1,079.40	11.64	1,067.76
	LL11mw-006	Unconsolidated	1,086.50	9.25	1,077.25
	LL11mw-007	Unconsolidated	1,082.00	16.39	1,065.61
	LL11mw-008	Unconsolidated	1,087.74	5.70	1,082.04
	LL11mw-009	Unconsolidated	1,088.28	3.87	1,084.41
	LL11mw-010	Unconsolidated	1,082.68	7.82	1,074.86
Load Line	LL12mw-088	Unconsolidated	981.06	8.03	973.03
12	LL12mw-107	Unconsolidated	980.15	11.13	969.02
	LL12mw-113	Sharon	980.18	8.12	972.06
	LL12mw-128	Unconsolidated	978.24	11.00	967.24
	LL12mw-153	Unconsolidated	977.85	7.55	970.30
	LL12mw-154	Unconsolidated	979.06	10.40	968.66
	LL12mw-182	Unconsolidated	984.42	13.12	971.30
	LL12mw-183	Sharon	982.98	14.56	968.42
	LL12mw-184	Unconsolidated	983.16	14.27	968.89
	LL12mw-185	Unconsolidated	981.31	10.63	970.68
	LL12mw-186	Sharon	978.31	7.29	971.02
	LL12mw-187	Unconsolidated	979.94	11.92	968.02
	LL12mw-188	Unconsolidated	980.63	7.65	972.98
	LL12mw-189	Sharon	978.04	7.68	970.36
	LL12mw-242	Unconsolidated	981.20	11.80	969.40
	LL12mw-243	Unconsolidated	980.79	9.93	970.86
	LL12mw-244	Unconsolidated	980.65	12.58	968.07
	LL12mw-245	Unconsolidated	980.04	9.12	970.92
	LL12mw-246	Unconsolidated	984.83	18.41	966.42
Atlas Scrap	ASYmw-001	Sharon	981.13	13.62	967.51
Yard	ASYmw-002	Sharon	985.24	16.02	969.22
	ASYmw-003	Sharon	982.21	14.51	967.70
	ASYmw-004	Sharon	979.66	11.55	968.11
	ASYmw-005	Sharon	979.80	10.77	969.03
	ASYmw-006	Sharon	983.01	15.12	967.89
	ASYmw-007	Unconsolidated	984.16	15.80	968.36
	ASYmw-008	Unconsolidated	978.85	6.09	972.76
	ASYmw-009	Sharon	982.70	14.35	968.35
	ASYmw-010	Unconsolidated	981.05	13.32	967.73
Building	B12mw-010	Unconsolidated	1,005.92	20.63	985.29
1200	B12mw-011	Unconsolidated	1,006.70	23.02	983.68
	B12mw-012	Unconsolidated	1,006.32	22.45	983.87
C-Block	CBLmw-001	Homewood	1,181.08	44.53	1,136.55
Quarry	CBLmw-002	Homewood	1,175.24	39.03	1,136.21
-	CBLmw-003	Homewood	1,175.06	37.70	1,137.36
	CBLmw-004	Homewood	1,174.84	37.40	1,137.44

Table 3-1. Depth to Water and Potentiometric Elevation (October 2007)

RVAAP Area	Well ID	Monitored Zone	TOC Elevation (ft amsl)	October 2007 Depth to Water (ft, BTOC)	Potentiometric Elevation Octobe 2007 (ft amsl)		
Central Burn	CBPmw-001	Unconsolidated	975.84	14.67	961.17		
Pits	CBPmw-002	Unconsolidated	970.04	11.09	958.95		
	CBPmw-003	Unconsolidated	974.67	14.78	959.89		
	CBPmw-004	Unconsolidated	971.13	12.32	958.81		
	CBPmw-005	Unconsolidated	971.59	13.48	958.11		
	CBPmw-006	Unconsolidated	967.64	9.32	958.32		
	CBPmw-007	Unconsolidated	976.37	18.15	958.22		
	CBPmw-008	Unconsolidated	973.19	17.08	956.11		
Cobbs Pond	CPmw-001	Unconsolidated	975.26	6.82	968.44		
	CPmw-002	Unconsolidated	972.31	4.45	967.86		
	CPmw-003	Unconsolidated	972.92	3.44	969.48		
	CPmw-004	Unconsolidated	981.20	13.50	967.70		
	CPmw-005	Unconsolidated	973.58	12.56	961.02		
	CPmw-006	Unconsolidated	965.13	9.18	955.95		
Demo. Area	DET-001B	Unconsolidated	1,065.85	24.75	1,041.10		
2	DET-001B	Unconsolidated	1,065.85	33.08	1,041.10		
2	DET-002	Unconsolidated	1,036.81	9.84	1,026.97		
	DET-003	Unconsolidated	1,038.68	11.11	1,020.97		
	DA2mw-104	Unconsolidated	,	21.70			
	DA2mw-104 DA2mw-105		1,073.89		1,052.19		
		Unconsolidated	1,045.34	3.70	1,041.64		
	DA2mw-106	Unconsolidated	1,043.79	5.67	1,038.12		
	DA2mw-107	Unconsolidated	1,041.63	8.41	1,033.22		
	DA2mw-108	Unconsolidated	1,032.36	6.67	1,025.69		
	DA2mw-109	Unconsolidated	1,071.29	17.37	1,053.92		
	DA2mw-110	Unconsolidated	1,063.78	12.49	1,051.29		
	DA2mw-111	Unconsolidated	1,042.12	4.67	1,037.45		
	DA2mw-112	Unconsolidated	1,037.44	8.08	1,029.36		
	DA2mw-113	Unconsolidated	1,037.11	8.79	1,028.32		
Erie Burning	EBGmw-123	Unconsolidated	947.82	11.81	936.01		
Grounds	EBGmw-124	Unconsolidated	941.39	5.53	935.86		
	EBGmw-125	Unconsolidated	949.89	14.22	935.67		
	EBGmw-126	Unconsolidated	940.61	4.29	936.32		
	EBGmw-127	Unconsolidated	943.07	6.92	936.15		
	EBGmw-128	Unconsolidated	945.13	9.22	935.91		
	EBGmw-129	Unconsolidated	944.36	8.35	936.01		
	EBGmw-130	Unconsolidated	944.00	8.57	935.43		
Fuze and	FBQmw-166	Unconsolidated	1,108.86	6.33	1,102.53		
Booster	FBQmw-167	Unconsolidated	1,115.90	6.21	1,109.69		
Quarry	FBQmw-168	Homewood	1,133.91	13.28	1,120.63		
	FBQmw-169	Homewood	1,120.58	8.36	1,112.22		
	FBQmw-170	Homewood	1,142.26	19.81	1,122.45		
	FBQmw-171	Homewood	1,143.55	20.74	1,122.81		
	FBQmw-172	Homewood	1,150.09	28.14	1,121.95		
	FBQmw-173	Homewood	1,165.94	43.30	1,122.64		
	FBQmw-174	Homewood	1,139.97	18.14	1,121.83		
	FBQmw-175	Homewood	1,140.73	18.85	1,121.88		
	FBQmw-176	Unconsolidated	1,131.91	11.11	1,120.80		
	FBQmw-177	Homewood	1,128.57	15.70	1,112.87		

Table 3-1. Depth to Water and Potentiometric Elevation (October 2007)

RVAAP Area	Well ID	Monitored Zone	TOC Elevation (ft amsl)	October 2007 Depth to Water	Potentiometric Elevation Octobe		
			. ,	(ft, BTOC)	2007 (ft amsl)		
Landfill North	LNWmw-024	Unconsolidated	1,038.00	14.89	1,023.11		
of	LNWmw-025	Unconsolidated	1,029.13	5.76	1,023.37		
Winklepeck	LNWmw-026	Unconsolidated	1,027.80	12.72	1,015.08		
	LNWmw-027	Unconsolidated	1,027.13	10.14	1,016.99		
NACA Test	NTAmw-107	Unconsolidated	1,080.30	13.30	1,067.00		
Area	NTAmw-108	Unconsolidated	1,085.62	18.34	1,067.28		
	NTAmw-109	Unconsolidated	1,079.84	12.73	1,067.11		
	NTAmw-110	Unconsolidated	1,082.62	15.20	1,067.42		
	NTAmw-111	Unconsolidated	1,080.94	6.55	1,074.39		
	NTAmw-112	Unconsolidated	1,078.33	9.98	1,068.35		
	NTAmw-113	Unconsolidated	1,075.68	8.11	1,067.57		
	NTAmw-114	Unconsolidated	1,078.71	8.00	1,070.71		
	NTAmw-115	Unconsolidated	1,089.65	16.45	1,073.20		
	NTAmw-116	Unconsolidated	1,094.33	8.02	1,086.31		
	NTAmw-117	Unconsolidated	1,094.54	16.56	1,077.98		
	NTAmw-118	Unconsolidated	1,081.44	10.59	1,070.85		
Ramsdell	RQLmw-006	Sharon	995.39	35.34	960.05		
Quarry	RQLmw-007	Sharon	965.91	8.10	957.81		
Landfill	RQLmw-008	Sharon	966.08	7.97	958.11		
	RQLmw-009	Sharon	964.58	6.73	957.85		
	RQLmw-010	Sharon	982.14	26.88	955.26		
	RQLmw-011	Sharon	976.57	23.51	953.06		
	RQLmw-012	Sharon	977.65	23.54	954.11		
	RQLmw-013	Sharon	980.71	26.87	953.84		
	RQLmw-014	Sharon	973.49	21.52	951.97		
	RQLmw-015	Sharon	991.26	32.32	958.94		
	RQLmw-016	Sharon	996.60	35.63	960.97		
	RQLmw-017	Sharon	991.23	30.65	960.58		
Winklepeck	WBGmw-005	Unconsolidated	1,054.70	8.32	1,046.38		
Burning	WBGmw-006	Unconsolidated	1,014.66	10.25	1,004.41		
Grounds	WBGmw-007	Unconsolidated	1,000.59	18.95	981.64		
	WBGmw-008	Unconsolidated	1,008.21	16.38	991.83		
	WBGmw-009	Unconsolidated	1,047.53	16.04	1,031.49		
	WBGmw-010	Unconsolidated	1,069.85	9.78	1,060.07		
	WBGmw-011	Unconsolidated	1,072.38	12.27	1,060.11		
	WBGmw-012	Unconsolidated	1,079.11	24.21	1,054.90		
	WBGmw-013	Unconsolidated	1,071.70	12.66	1,059.04		
	WBGmw-014	Unconsolidated	996.78	17.90	978.88		
	WBGmw-015	Unconsolidated	1,011.60	14.83	996.77		
	WBGmw-016	Unconsolidated	997.03	18.73	978.30		
	WBGmw-017	Unconsolidated	1,006.62	11.04	995.58		
Suspected	MBS-001	Unconsolidated	1,082.20	18.09	1,064.11		
Mustard	MBS-002	Unconsolidated	1,083.22	18.52	1,064.70		
Agent Burial	MBS-002	Unconsolidated	1,084.45	19.23	1,065.22		
Site	MBS-004	Unconsolidated	1,081.80	17.29	1,064.51		
0.10	MBS-005	Unconsolidated	1,082.42	18.35	1,064.07		
	MBS-006	Unconsolidated	1,081.83	17.80	1,064.03		

Table 3-1. Depth to Water and Potentiometric Elevation	(October 2007)	
Table 3-1. Depth to water and Potentioniethic Elevation		

TOC = top of casing

amsl = above mean sea level

BTOC = below top of casing

 Table 3-2. Construction Details Including October 2007 Depth to Bottom Measurements

			J									Bottom of			October 2007	
												Inner		Reported	Measured	
												Casing		Bottom of	Bottom of	
		Ohio State	Ohio State	Ground	Total		Well			Top of	Bottom	Plug or	Stickup	Inner	Inner	Sediment
		Plane	Plane	Level	Drilled	тос	Head	Monitor	ing Zone	Screen	of Screen	End Cap	height	Casing	Casing	Accumulation
RVAAP Area	Well ID	Easting	Northing	Elevation ^a	Depthb	Elevation ^a	Type ^c	Old	New	(ft, BGS)	(ft, BGS)	(ft, BGS)	(ft. AGS)	(ft, BTOC)	(ft, BTOC)	(ft)
	BKGmw-004	2368852.97	569464.76	965.16	19.5	967.66	A	Unconsolidated	Unconsolidated	9.2	19.2	19.5	2.50	22.0	22.32	-0.32
	BKGmw-005	2340835.86	562288.45	1149.44	19.0	1151.94	Α	Unconsolidated	Unconsolidated	8.2	18.2	18.5	2.50	21.0	21.03	-0.03
	BKGmw-006	2358643.96	571910.47	1026.38	35.1	1028.88	Α	Bedrock	Sharon	24.7	34.7	35.1	2.50	37.6	37.64	-0.04
	BKGmw-008	2372741.08	569654.23	970.40	25.0	972.90	Α	Bedrock	Sharon	14.7	24.7	25.0	2.50	27.5	27.48	0.02
	BKGmw-010	2371372.86	565540.54	1003.80	22.0	1006.18	Α	Bedrock	Sharon	8.9	18.9	19.2	2.38	21.6	22.07	-0.47
	BKGmw-012	2367795.23	563918.86	997.57	59.8	1000.07	А	Bedrock	Sharon	38.6	59.6	59.8	2.50	62.3	62.27	0.03
Background	BKGmw-013	2361627.39	558269.16	986.59	25.5	989.09	А	Unconsolidated	Unconsolidated	15.2	25.2	25.5	2.50	28.0	28.07	-0.07
Dackground	BKGmw-015	2361482.22	569339.87	1037.90	51.0	1040.40	А	Bedrock	Sharon	30.1	50.1	50.4	2.50	52.9	53.12	-0.22
	BKGmw-016	2342407.08	553983.50	1098.42	19.0	1100.92	А	Unconsolidated	Unconsolidated	8.4	18.5	18.6	2.50	21.1	21.28	-0.18
	BKGmw-017	2346115.35	562452.04	1132.80	34.8	1135.30	А	Unconsolidated	Unconsolidated	23.2	33.3	33.6	2.50	36.1	36.11	-0.01
	BKGmw-018	2354993.91	570873.35	1043.06	24.7	1045.56	А	Bedrock	Sharon	14.5	24.5	24.7	2.50	27.2	27.68	-0.48
	BKGmw-019	2349882.14	559864.55	1108.24	34.0	1110.74	Α	Unconsolidated	Unconsolidated	23.0	33.0	33.2	2.50	35.7	35.79	-0.09
	BKGmw-020	2357856.24	558756.24	1065.00	30.7	1067.50	Α	Bedrock	Unconsolidated	20.5	30.5	30.7	2.50	33.2	33.30	-0.10
	BKGmw-021	2367622.95	571016.75	972.16	19.0	974.66	Α	Unconsolidated	Unconsolidated	7.7	17.8	18.1	2.50	20.6	21.47	-0.87
	LL1mw-063	2376841.36	563650.53	992.20	27.4	994.84	А	Bedrock	Sharon	17.1	27.1	27.4	2.64	30.0	30.17	-0.17
	LL1mw-064	2380286.97	563118.74	932.32	18.4	935.10	Α	Unconsolidated	Unconsolidated	8.0	18.0	18.4	2.78	21.1	21.17	-0.07
	LL1mw-065	2380452.00	560916.92	941.53	20.5	944.41	Α	Unconsolidated	Unconsolidated	10.2	20.2	20.5	2.88	23.4	23.14	0.26
	LL1mw-067	2376545.30	565201.14	977.55	22.8	980.36	Α	Bedrock	Sharon	12.8	22.5	22.8	2.81	25.6	25.82	-0.22
	LL1mw-078	2376275.85	564623.87	993.40	38.7	995.84	Α	Bedrock	Sharon	28.7	38.2	38.7	2.44	41.1	41.22	-0.12
Load Line 1	LL1mw-079	2376228.31	563739.63	995.30	29.5	997.87	Α	Bedrock	Sharon	29.5	38.9	39.5	2.57	42.0	41.98	0.02
	LL1mw-080	2376845.07	562479.73	993.70	19.5	996.27	Α	Bedrock	Sharon	9.5	19.0	19.5	2.57	22.0	22.48	-0.48
	LL1mw-081	2376672.66	563462.73	996.40	39.4	998.92	Α	Bedrock	Sharon	29.4	38.9	39.4	2.52	41.9	42.08	-0.18
	LL1mw-082	2376977.38	562956.86	1003.70	39.0	1006.45	A	Bedrock	Sharon	28.9	38.5	39.0	2.75	41.8	41.56	0.24
	LL1mw-083	2377074.80	563612.75	992.80	39.3	995.20	Α	Bedrock	Sharon	29.1	38.6	39.3	2.40	41.7	41.56	0.14
	LL1mw-084	2377316.02	563160.44	996.40	37.0	998.73	Α	Bedrock	Sharon	26.7	36.3	37.0	2.33	39.3	38.99	0.31
	LL1mw-085	2377246.94	562046.25	994.30	42.1	996.84	А	Bedrock	Sharon	32.2	41.6	42.1	2.54	44.7	44.86	-0.16

 Table 3-2. Construction Details Including October 2007 Depth to Bottom Measurements

		2010.10										Bottom of			October 2007	
												Inner		Reported	Measured	
												Casing		Bottom of	Bottom of	
		Ohio State	Ohio State	Ground	Total		Well			Top of	Bottom	Plug or	Stickup	Inner	Inner	Codimont
		Plane	Plane	Level	Drilled	тос	Head	Monitori	ing Zone	Screen	of Screen	End Cap	height	Casing	Casing	Sediment
RVAAP Area	Well ID							Old	New	(ft, BGS)		(ft, BGS)	-	-	(ft, BTOC)	Accumulation
RVAAP Area		Easting	Northing	Elevation ^a	Depth ^b	Elevationa	Type ^c				(ft, BGS)		(ft, AGS)	(ft, BTOC)		(ft)
	LL2mw-059	2375453.00	558020.00	964.33	19.5	966.67	A	Bedrock	Sharon	9.3	19.1	19.5	2.34	21.8	21.97	-0.17
	LL2mw-060	2375978.00	558022.00	958.93	18.3	961.57	A	Bedrock	Sharon	8.1	17.9	18.3	2.64	20.9	20.88	0.02
	LL2mw-261	2373317.81	561898.25	1009.55	22.5	1011.40	A	Bedrock	Sharon	9.8	19.8	20.0	1.85	21.9	22.56	-0.66
	LL2mw-262	2373970.79	562219.87	1011.12	21.2	1012.62	A	Bedrock	Sharon	10.6	20.6	20.8	1.50	22.3	22.76	-0.46
	LL2mw-263	2374289.51	561591.19	1009.42	22.2	1011.47	A	Bedrock	Sharon	10.8	20.8	21.0	2.05	23.0	22.66	0.34
Load Line 2	LL2mw-264	2374532.00	561173.60	1010.10	20.5	1011.88	A	Bedrock	Sharon	9.8	19.8	20.0	1.78	21.7	22.48	-0.78
	LL2mw-265	2375594.06	557972.91	959.47	22.5	961.24	A	Bedrock	Sharon	11.8	21.8	22.0	1.77	23.8	24.50	-0.70
	LL2mw-266	2373744.03	561981.86	1014.09	20.5	1016.28	Α	Bedrock	Sharon	9.8	19.8	20.0	2.19	22.2	22.77	-0.57
	LL2mw-267	2373715.04	561393.22	1012.81	20.5	1014.81	Α	Bedrock	Sharon	9.8	19.8	20.0	2.00	22.0	22.77	-0.77
	LL2mw-268	2374157.30	560831.04	1015.47	28.8	1017.28	А	Bedrock	Sharon	17.3	27.3	27.5	1.81	29.3	29.97	-0.67
	LL2mw-269	2374756.07	559484.12	1009.49	28.0	1011.62	Α	Bedrock	Sharon	17.1	27.1	27.3	2.13	29.4	30.40	-1.00
	LL2mw-270	2372858.41	562655.93	1009.93	20.5	1010.18	А	Bedrock	Sharon	9.8	19.8	20.0	0.25	20.3	22.52	-2.22
	LL3mw-232	2369862.96	561365.91	998.59	37.8	1000.41	А	Bedrock	Sharon	26.8	36.8	37.0	1.82	38.8	39.94	-1.14
	LL3mw-233	2369934.52	560750.41	1002.47	31.1	1004.36	А	Bedrock	Sharon	20.1	30.1	30.3	1.89	32.2	32.89	-0.69
	LL3mw-234	2370297.47	560058.89	1004.47	20.5	1006.56	А	Bedrock	Sharon	9.8	19.8	20.0	2.09	22.1	22.75	-0.65
	LL3mw-235	2370642.47	559812.63	1008.05	21.2	1009.94	А	Bedrock	Sharon	10.1	20.1	20.3	1.89	22.2	23.09	-0.89
	LL3mw-236	2371178.58	559866.75	1008.94	25.5	1011.17	А	Bedrock	Sharon	13.8	23.8	24.0	2.23	26.2	26.68	-0.48
	LL3mw-237	2371475.00	559328.09	1003.57	23.9	1005.57	А	Bedrock	Sharon	12.7	22.7	22.9	2.00	24.9	25.62	-0.72
Load Line 3	LL3mw-238	2370625.34	559569.06	1004.75	20.7	1006.91	Α	Bedrock	Sharon	10.5	20.5	20.7	2.16	22.9	23.46	-0.56
	LL3mw-239	2370895.01	559101.39	1001.70	35.7	1003.50	Α	Bedrock	Sharon	24.9	34.9	35.0	1.80	36.8	37.23	-0.43
	LL3mw-240	2371309.57	558204.34	1005.60	35.5	1007.52	А	Bedrock	Sharon	24.4	34.4	34.6	1.92	36.5	36.81	-0.31
	LL3mw-241	2370332.80	559298.09	992.41	23.8	994.65	Α	Bedrock	Sharon	12.7	22.7	22.9	2.24	25.1	21.60	3.50
	LL3mw-242	2371993.30	557034.21	997.39	20.5	999.32	А	Bedrock	Sharon	9.8	19.8	20.0	1.93	21.9	22.61	-0.71
	LL3mw-243	2371532.61	556688.92	989.36	24.5	991.16	А	Bedrock	Sharon	13.8	23.8	24.0	1.80	25.8	26.42	-0.62
	LL4mw-193	2364237.44	554959.74	980.88	21.9	982.92	А	Unconsolidated	Unconsolidated	11.3	21.3	21.5	2.04	23.5	24.45	-0.95
	LL4mw-194	2364584.76	555088.18	981.87	22.0	983.76	А	Unconsolidated	Unconsolidated	11.3	21.3	21.5	1.89	23.4	23.79	-0.39
	LL4mw-195	2365198.84	555045.69	980.83	21.0	982.59	А	Unconsolidated	Unconsolidated	10.3	20.3	20.5	1.76	22.3	23.00	-0.70
	LL4mw-196	2365297.28	555212.59	982.56	20.0	984.55	А	Unconsolidated	Unconsolidated	9.2	19.2	19.4	1.99	21.4	21.92	-0.70
Load Line 4	LL4mw-197	2365385.95	555396.55	983.79	21.7	985.46	A	Unconsolidated	Unconsolidated	10.8	20.8	21.0	1.67	22.7	23.72	-0.32
	LL4mw-198	2364991.12	555440.99	981.61	22.0	983.42	A	Unconsolidated	Unconsolidated	10.3	20.3	20.5	1.81	22.3	21.04	1.26
	LL4mw-199	2365421.66	554621.06	975.20	22.0	977.28	A	Unconsolidated	Unconsolidated	10.3	20.3	20.5	2.08	22.6	23.34	-0.74
	LL4mw-200	2365904.12	554579.72	985.97	23.5	987.93	A	Unconsolidated	Unconsolidated	12.6	22.6	23.0	1.96	25.0	25.38	
	LL4111W-200	2303904.12	554579.72	903.97	23.5	901.93	А	Unconsolidated	Unconsolidated	12.0	22.0	23.0	1.90	20.0	20.00	-0.38

 Table 3-2. Construction Details Including October 2007 Depth to Bottom Measurements

			J									Bottom of			October 2007	
												Inner		Reported	Measured	
												Casing		Bottom of	Bottom of	
		Ohio State	Ohio State	Ground	Total		Well			Top of	Bottom	Plug or	Stickup	Inner	Inner	Sediment
		Plane	Plane	Level	Drilled	тос	Head	Monitor	ng Zone	Screen	of Screen	End Cap	height	Casing	Casing	Accumulation
RVAAP Area	Well ID	Easting	Northing	Elevation ^a	Depthb	Elevation ^a	Type ^c	Old	New	(ft, BGS)	(ft, BGS)	(ft, BGS)	(ft, AGS)	(ft, BTOC)	(ft, BTOC)	(ft)
	LL5mw-001	2354625.07	554319.25	1125.00	24.0	1127.92	A	Unconsolidated	Homewood	14.0	24.0	24.0	2.92	26.9	27.12	-0.22
	LL5mw-002	2354571.52	554604.01	1125.80	25.0	1128.68	А	Unconsolidated	Homewood	15.0	25.0	25.0	2.88	27.9	27.60	0.30
Load Line 5	LL5mw-003	2354964.47	554535.41	1124.70	21.0	1127.70	А	Unconsolidated	Unconsolidated	11.0	21.0	21.0	3.00	24.0	24.08	-0.08
Load Line 5	LL5mw-004	2355006.44	554073.73	1122.90	22.4	1125.81	А	Unconsolidated	Homewood	12.0	22.0	22.0	2.91	24.9	25.51	-0.61
	LL5mw-005	2354422.02	554152.73	1126.50	27.8	1129.42	Α	Unconsolidated	Homewood	17.0	27.0	27.0	2.92	29.9	29.83	0.07
	LL5mw-006	2354730.78	553984.82	1125.10	24.5	1128.00	А	Unconsolidated	Homewood	14.0	24.0	24.0	2.90	26.9	29.83	-2.93
	LL6mw-001	2353153.23	554214.84	NA	18.0	1124.16	F	Unconsolidated	Unconsolidated	7.0	17.0	17.0	0.00	17.0	17.72	-0.72
	LL6mw-002	2353820.09	553589.88	NA	23.0	1129.36	F	Unconsolidated	Unconsolidated	12.5	22.5	22.5	0.00	22.5	24.59	-2.09
	LL6mw-003	2353048.68	553544.34	NA	23.4	1125.38	Α	Unconsolidated	Homewood	12.5	22.5	22.5	3.35	25.9	25.82	0.08
Load Line 6	LL6mw-004	2353368.79	553431.82	NA	23.0	1125.39	Α	Unconsolidated	Homewood	12.5	22.5	22.5	2.58	25.1	24.61	0.49
	LL6mw-005	2353194.52	553170.76	NA	19.9	1120.47	Α	Unconsolidated	Homewood	9.5	19.5	19.5	2.96	22.5	22.38	0.12
	LL6mw-006	2352419.15	553165.28	NA	20.0	1124.37	Α	Unconsolidated	Unconsolidated	7.0	17.0	17.0	0.00	17.0	17.88	-0.88
	LL6mw-007	2353354.89	552677.17	NA	20.0	1115.62	F	Unconsolidated	Homewood	9.5	19.5	19.5	0.00	19.5	19.44	0.06
	LL7mw-001	2352192.91	554925.77	1126.90	30.0	1129.64	А	Unconsolidated	Homewood	19.5	29.5	29.5	2.74	32.2	33.14	-0.94
	LL7mw-002	2351918.23	555126.55	1126.70	26.5	1129.55	Α	Bedrock	Homewood	15.0	25.0	25.0	2.85	27.8	27.28	0.52
Load Line 7	LL7mw-003	2352351.04	555417.04	1118.23	31.5	1120.84	Α	Bedrock	Homewood	21.0	31.0	31.0	2.61	33.6	33.64	-0.04
	LL7mw-004	2352035.20	555581.14	1123.30	29.5	1126.32	Α	Bedrock	Homewood	19.5	29.5	29.5	3.02	32.5	32.34	0.16
	LL7mw-005	2351741.47	555581.80	1133.30	28.2	1135.87	Α	Bedrock	Homewood	18.0	28.0	28.0	2.57	30.6	30.44	0.16
	LL7mw-006	2351879.92	555990.59	1120.70	28.0	1123.56	Α	Bedrock	Homewood	17.5	27.5	27.5	2.86	30.4	30.43	-0.03
	LL8mw-001	2351666.10	552607.06	1118.69	24.0	1121.46	Α	Unconsolidated	Unconsolidated	14.0	24.0	24.0	2.77	26.8	27.63	-0.83
	LL8mw-002	2351010.33	552408.18	1121.67	30.4	1124.51	A	Unconsolidated	Unconsolidated	20.0	30.0	30.0	2.84	32.8	32.66	0.14
Load Line 8	LL8mw-003	2351359.25	552231.14	1116.30	21.0	1119.05	A	Unconsolidated	Unconsolidated	10.5	20.5	20.5	2.75	23.3	23.13	0.17
	LL8mw-004	2351261.83	551807.58	1112.73	20.5	1115.75	A	Unconsolidated	Unconsolidated	10.0	20.0	20.0	3.02	23.0	22.74	0.26
	LL8mw-005	2351748.32	551522.48	1112.51	24.0	1115.73	A	Unconsolidated	Homewood	14.0	24.0	24.0	3.22	27.2	27.26	-0.06
	LL8mw-006	2351483.58	551296.77	1114.33	24.2	1117.17	A	Unconsolidated	Homewood	14.0	24.0	24.0	2.84	26.8	27.16	-0.36
	LL9mw-001	2355817.04	556125.81	NA	21.6	1134.62	A	Bedrock	Homewood	10.5	20.5	20.5	2.78	23.3	23.40	-0.10
	LL9mw-002	2355907.76	556755.11	NA	21.0	1127.30	A	Bedrock	Homewood	10.0	20.0	20.0	2.42	22.4	22.83	-0.43
	LL9mw-003	2356635.21	556445.31	NA	22.0	1135.76	A	Bedrock	Homewood	11.5	21.5	21.5	2.30	23.8	24.26	-0.46
Load Line 9	LL9mw-004	2357338.76	556002.00	NA	33.0	1131.83	A	Bedrock	Homewood	22.0	32.0	32.0	2.91	34.9	34.74	0.16
	LL9mw-005	2356505.95	557063.36	NA	20.6	1130.93	A	Bedrock	Homewood	10.0	20.0	20.0	3.30	23.3	23.58	-0.28
	LL9mw-006	2357446.67	556434.79	NA	26.8	1129.88	A	Bedrock	Homewood	16.0	26.0	26.0	2.90	28.9	28.88	0.02
	LL9mw-007	2357024.34	557000.56	NA	19.0	1119.99	F	Bedrock	Homewood	8.5	18.5	18.5	0.00	18.5	18.23	0.27

 Table 3-2. Construction Details Including October 2007 Depth to Bottom Measurements

			J		1							Bottom of			October 2007	
														Demonstrad		
												Inner		Reported	Measured	
											_	Casing		Bottom of	Bottom of	
		Ohio State	Ohio State	Ground	Total		Well		_	Top of	Bottom	Plug or	Stickup	Inner	Inner	Sediment
		Plane	Plane	Level	Drilled	TOC	Head	Monitori	-	Screen	of Screen	End Cap	height	Casing	Casing	Accumulation
RVAAP Area	Well ID	Easting	Northing	Elevation ^a	Depth ^b	Elevation ^a	Туре℃	Old	New	(ft, BGS)	(ft, BGS)	(ft, BGS)	(ft, AGS)	(ft, BTOC)	(ft, BTOC)	(ft)
	LL10mw-001	2355272.22	555816.25	1130.00	28.0	1132.77	A	Bedrock	Homewood	17.0	27.0	27.0	2.77	29.8	29.66	0.14
	LL10mw-002	2355710.51	555523.36	1124.40	28.0	1127.13	A	Bedrock	Homewood	17.0	27.0	27.0	2.73	29.7	29.87	-0.17
Load Line 10	LL10mw-003	2355389.92	555494.71	1127.40	26.4	1130.28	A	Bedrock	Homewood	16.0	26.0	26.0	2.88	28.9	28.62	0.28
	LL10mw-004	2355438.20	555236.59	1119.60	31.2	1122.39	A	Bedrock	Homewood	21.0	31.0	31.0	2.79	33.8	33.64	0.16
	LL10mw-005	2355943.55	555380.53	1122.90	27.0	1125.67	A	Bedrock	Homewood	16.5	26.5	26.5	2.77	29.3	29.31	-0.01
	LL10mw-006	2355654.80	554995.25	1121.20	24.0	1123.83	Α	Unconsolidated	Unconsolidated	13.5	23.5	23.5	2.63	26.1	26.58	-0.48
	LL11mw-001	2352778.89	557505.03	1097.46	23.0	1100.16	А	Unconsolidated	Unconsolidated	11.4	21.4	21.4	2.70	24.1	21.61	2.49
	L L11mw-002	2353354.28	558310.52	1080.29	20.0	1080.00	F	Unconsolidated	Unconsolidated	6.3	16.3	16.3	-0.29	16.0	16.54	-0.54
	LL11mw-003	2352737.87	557999.62	1088.45	17.0	1088.48	F	Unconsolidated	Unconsolidated	5.9	15.9	15.9	0.03	15.9	16.15	-0.25
	LL11mw-004	2352737.24	558164.36	1084.60	17.0	1084.72	F	Unconsolidated	Unconsolidated	6.1	16.1	16.1	0.12	16.2	16.27	-0.07
Load Line 11	LL11mw-005	2352847.56	558501.02	1079.60	17.0	1079.40	F	Unconsolidated	Unconsolidated	6.2	16.2	16.2	-0.20	16.0	16.51	-0.51
Load Line II	LL11mw-006	2352521.36	558263.28	1086.61	17.0	1086.50	F	Unconsolidated	Unconsolidated	5.6	15.6	15.6	-0.11	15.5	15.81	-0.31
	LL11mw-007	2352094.81	558189.71	1079.22	23.0	1082.00	А	Unconsolidated	Unconsolidated	12.4	22.4	22.4	2.78	25.2	25.42	-0.22
	LL11mw-008	2352388.60	557981.17	1087.90	17.0	1087.74	F	Unconsolidated	Unconsolidated	5.6	15.6	15.6	-0.16	15.4	15.82	-0.42
	LL11mw-009	2352577.18	557901.18	1088.38	17.0	1088.28	F	Unconsolidated	Unconsolidated	6.7	16.7	16.7	-0.10	16.6	16.88	-0.28
	LL11mw-010	2352039.00	557675.43	1080.22	22.0	1082.68	А	Unconsolidated	Unconsolidated	10.9	20.9	20.9	2.46	23.4	23.53	-0.13
	LL12mw-088	2368667.75	556393.79	978.94	29.0	981.06	А	Unconsolidated	Unconsolidated	14.8	24.8	25.0	2.12	27.1	27.62	-0.52
	LL12mw-107	2368595.67	556759.02	978.03	33.0	980.15	А	Unconsolidated	Unconsolidated	20.7	30.7	31.0	2.12	33.1	33.79	-0.69
	LL12mw-113	2368223.73	558345.37	977.67	23.0	980.18	А	Unconsolidated	Sharon	12.3	22.3	22.5	2.51	25.0	20.43	4.57
	LL12mw-128	2368293.20	557371.54	976.21	34.0	978.24	А	Unconsolidated	Unconsolidated	21.1	31.1	31.3	2.03	33.3	34.29	-0.99
	LL12mw-153	2368138.87	557823.23	975.34	26.0	977.85	А	Unconsolidated	Unconsolidated	12.3	22.3	22.5	2.51	25.0	24.91	0.09
	LL12mw-154	2368183.88	557754.56	977.00	29.0	979.06	А	Unconsolidated	Unconsolidated	16.4	26.4	26.6	2.06	28.7	28.47	0.23
	LL12mw-182	2368853.20	555890.35	982.20	36.1	984.42	А	Unconsolidated	Unconsolidated	25.2	35.2	35.5	2.22	37.7	38.24	-0.54
	LL12mw-183	2369224.36	556068.15	980.59	36.0	982.98	А	Unconsolidated	Sharon	23.3	33.3	33.6	2.39	36.0	36.40	-0.40
	LL12mw-184	2368997.48	556399.46	980.96	29.5	983.16	А	Unconsolidated	Unconsolidated	18.8	28.8	29.0	2.20	31.2	31.20	0.00
Load Line 12	LL12mw-185	2368829.86	556946.75	979.09	24.0	981.31	Α	Unconsolidated	Unconsolidated	10.8	20.8	21.0	2.22	23.2	23.33	-0.13
	LL12mw-186	2367912.39	559065.95	976.34	23.0	978.31	Α	Unconsolidated	Sharon	8.8	18.8	19.0	1.97	21.0	21.14	-0.14
	LL12mw-187	2368524.14	557633.10	977.90	29.0	979.94	А	Unconsolidated	Unconsolidated	17.2	27.2	27.4	2.04	29.4	29.71	-0.31
	LL12mw-188	2367908.82	558132.59	978.46	20.5	980.63	А	Unconsolidated	Unconsolidated	9.8	19.8	20.0	2.17	22.2	22.31	-0.11
	LL12mw-189	2367945.92	558569.27	976.17	18.5	978.04	А	Unconsolidated	Sharon	7.5	17.5	17.7	1.87	19.6	19.87	-0.27
	LL12mw-242	2368545.29	558020.51	978.40	26.3	981.20	А	Unconsolidated	Unconsolidated	15.5	25.5	25.5	2.80	28.3	29.41	-1.11
	LL12mw-243	2368190.04	557376.32	978.10	24.0	980.79	А	Unconsolidated	Unconsolidated	13.0	23.0	23.0	2.69	25.7	25.80	-0.10
	LL12mw-244	2368751.42	557377.17	978.10	30.0	980.65	А	Unconsolidated	Unconsolidated	19.5	29.5	29.5	2.55	32.1	31.67	0.43
	LL12mw-245	2368370.74	557044.55	977.50	29.0	980.04	А	Unconsolidated	Unconsolidated	18.0	28.0	28.0	2.54	30.5	30.45	0.05
	LL12mw-246	2369432.17	556658.89	982.00	32.0	984.83	А	Unconsolidated	Unconsolidated	21.5	31.5	31.5	2.83	34.3	35.12	-0.82

 Table 3-2. Construction Details Including October 2007 Depth to Bottom Measurements

			J									Bottom of			October 2007	
												Inner		Reported	Measured	
												Casing		Bottom of	Bottom of	
		Ohio State	Ohio State	Ground	Total		Well			Top of	Bottom	Plug or	Stickup	Inner	Inner	Sediment
		Plane	Plane	Level	Drilled	тос	Head	Monitori	ing Zone	Screen	of Screen	End Cap	height	Casing	Casing	Accumulation
RVAAP Area	Well ID	Easting	Northing	Elevation ^a	Depthb	Elevation ^a	Type ^c	Old	New	(ft, BGS)	(ft, BGS)	(ft, BGS)		(ft, BTOC)	(ft, BTOC)	
	ASYmw-001	2366260.85	558404.04	978.40	22.0	981.13	A	Unconsolidated/	Sharon	11.0	21.0	21.0	(ft, AGS) 2.73	23.7	23.18	(ft) 0.52
	ASYmw-002	2366170.86	557887.86	982.00	20.0	985.24	A	Unconsolidated	Sharon	10.0	19.5	19.5	3.24	22.7	23.02	-0.32
	ASYmw-003	2366651.49	558015.94	979.70	21.5	982.21	A	Unconsolidated	Sharon	11.0	21.0	21.0	2.51	23.5	23.52	-0.02
	ASYmw-004	2367166.04	557640.81	977.10	27.8	979.66	A	Unconsolidated	Sharon	17.0	27.0	27.0	2.56	29.6	29.86	-0.26
	ASYmw-005	2367448.16	557783.01	977.60	25.0	979.80	A	Unconsolidated	Sharon	14.0	24.0	24.0	2.20	26.2	27.25	-0.20
Atlas Scrap Yard	ASYmw-006	2366746.73	557257.72	980.20	27.0	983.01	A	Unconsolidated	Sharon	16.0	26.0	26.0	2.81	28.8	28.97	-0.17
-	ASYmw-007	2366834.49	556818.08	981.40	28.0	984.16	А	Unconsolidated	Unconsolidated	16.0	26.0	26.0	2.76	28.8	28.94	-0.14
-	ASYmw-008	2367475.07	557087.66	976.20	26.0	978.85	А	Unconsolidated	Unconsolidated	15.0	25.0	25.0	2.65	27.7	27.73	-0.03
-	ASYmw-009	2366631.94	557603.68	979.90	22.0	982.70	А	Unconsolidated	Sharon	11.5	21.5	21.5	2.80	24.3	24.63	-0.33
	ASYmw-010	2366985.37	557270.61	978.20	28.0	981.05	А	Unconsolidated	Unconsolidated	17.0	27.0	27.0	2.85	29.8	31.21	-1.41
	B12mw-010	2371292.81	565827.43	1002.72	21.0	1005.92	А	Bedrock	Unconsolidated	10.0	20.0	20.0	3.20	23.2	22.92	0.28
Building 1200	B12mw-011	2371416.15	565687.82	1003.76	24.7	1006.70	А	Bedrock	Unconsolidated	14.0	24.0	24.0	2.94	26.9	26.82	0.08
	B12mw-012	2371430.41	565828.01	1003.43	22.3	1006.32	А	Bedrock	Unconsolidated	12.0	22.0	22.0	2.89	24.9	24.91	-0.01
	CBLmw-001	2343657.08	559403.12	1178.50	50.0	1181.08	А	Bedrock	Homewood	39.0	49.0	49.0	2.58	51.6	49.79	1.81
	CBLmw-002	2343845.22	559044.48	1172.50	45.3	1175.24	Α	Bedrock	Homewood	34.5	44.5	44.5	2.74	47.2	49.79	-2.59
C-Block Quarry	CBLmw-003	2343970.00	559695.52	1172.22	44.0	1175.06	А	Bedrock	Homewood	33.0	43.0	43.0	2.84	45.8	44.82	0.98
	CBLmw-004	2343688.76	559951.58	1172.08	45.0	1174.84	А	Bedrock	Homewood	34.0	44.0	44.0	2.76	46.8	47.12	-0.32
	CBPmw-001	2367095.37	561616.01	972.71	32.3	975.84	А	Unconsolidated	Unconsolidated	21.8	31.8	31.8	3.13	34.9	32.84	2.06
	CBPmw-002	2367295.66	561865.83	967.33	30.0	970.04	А	Unconsolidated	Unconsolidated	19.5	29.5	29.5	2.71	32.2	32.12	0.08
	CBPmw-003	2366768.68	561944.14	972.04	25.0	974.67	Α	Unconsolidated	Unconsolidated	14.5	24.5	24.5	2.63	27.1	30.29	-3.19
Central Burn Pits	CBPmw-004	2366978.80	562123.80	968.58	27.5	971.13	А	Unconsolidated	Unconsolidated	17.0	27.0	27.0	2.55	29.5	29.80	-0.30
Central Burn 113	CBPmw-005	2366919.66	562311.88	968.83	25.0	971.59	А	Unconsolidated	Unconsolidated	14.5	24.5	24.5	2.76	27.3	27.52	-0.22
	CBPmw-006	2367243.68	562311.87	965.01	23.0	967.64	А	Unconsolidated	Unconsolidated	12.5	22.5	22.5	2.63	25.1	25.43	-0.33
	CBPmw-007	2366512.62	562006.41	973.47	30.0	976.37	А	Unconsolidated	Unconsolidated	19.5	29.5	29.5	2.90	32.4	31.86	0.54
	CBPmw-008	2366757.21	562668.84	970.57	25.5	973.19	А	Unconsolidated	Unconsolidated	15.0	25.0	25.0	2.62	27.6	28.01	-0.41
	CPmw-001	2368948.81	560440.91	975.46	16.0	975.26	F	Unconsolidated	Unconsolidated	5.5	15.5	15.5	-0.20	15.3	14.80	0.50
[CPmw-002	2368239.23	560311.26	972.72	16.0	972.31	F	Unconsolidated	Unconsolidated	5.5	15.5	15.5	-0.41	15.1	15.08	0.02
Cobbs Pond	CPmw-003	2368796.49	560676.30	973.27	18.5	972.92	F	Unconsolidated	Unconsolidated	8.0	18.0	18.0	-0.35	17.6	17.80	-0.20
Sobbarond	CPmw-004	2368674.31	561843.46	978.51	20.0	981.20	А	Unconsolidated	Unconsolidated	9.5	19.5	19.5	2.69	22.2	22.60	-0.40
[CPmw-005	2367900.41	561846.78	970.71	40.0	973.58	А	Unconsolidated	Unconsolidated	29.5	39.5	39.5	2.87	42.4	43.27	-0.87
	CPmw-006	2367727.13	562830.13	962.97	18.5	965.13	А	Unconsolidated	Unconsolidated	8.0	18.0	18.0	2.16	20.2	20.74	-0.54

 Table 3-2. Construction Details Including October 2007 Depth to Bottom Measurements

			Ŭ									Bottom of			October 2007	
												Inner		Reported	Measured	
												Casing		Bottom of	Bottom of	
		Ohio State	Ohio State	Cround	Total		Wall			Ton of	Bettem	°,	Stieleum			
			Ohio State	Ground	Total	тос	Well	Manitari		Top of	Bottom	Plug or	Stickup	Inner	Inner	Sediment
RVAAP Area	Well ID	Plane	Plane	Level	Drilled		Head	Monitori Old	-	Screen	of Screen	End Cap	height	Casing	Casing	Accumulation
RVAAP Area		Easting	Northing	Elevationa	Depth ^b	Elevationa	Type ^c		New	(ft, BGS)	(ft, BGS)	(ft, BGS)	(ft, AGS)	(ft, BTOC)	(ft, BTOC)	(ft)
- I	DET-001B	2354959.47	560820.03	1064.35	39.0	1065.85	A	Unconsolidated	Unconsolidated	34.0	39.0	39.0	1.50	40.5	38.61	1.89
-	DET-002	2355360.33	560664.71	1060.24	39.0	1061.24	A	Unconsolidated	Unconsolidated	34.0	39.0	39.0	1.00	40.0	42.08	-2.08
- I	DET-003	2355204.94	560456.10	1035.81	15.0	1036.81	A	Unconsolidated	Unconsolidated	7.0	12.0	12.0	1.00	13.0	16.09	-3.09
- I	DET-004	2355072.36	560454.22	1037.68	11.0	1038.68	A	Unconsolidated	Unconsolidated	6.0	11.0	11.0	1.00	12.0	13.92	-1.92
-	DA2mw-104	2354773.79	561129.59	1070.82	27.0	1073.89	A	Unconsolidated	Unconsolidated	16.3	26.3	26.5	3.07	29.6	29.35	0.25
-	DA2mw-105	2354557.62	560572.58	1042.66	14.0	1045.34	A	Unconsolidated	Unconsolidated	8.3	13.3	13.5	2.68	16.2	16.32	-0.12
Demo.Area 2	DA2mw-106	2354848.85	560560.49	1041.19	16.0	1043.79	A	Unconsolidated	Unconsolidated	8.3	15.3	15.5	2.60	18.1	16.90	1.20
	DA2mw-107	2354924.29	560480.05	1039.18	15.0	1041.63	A	Unconsolidated	Unconsolidated	8.8	13.8	14.0	2.45	16.5	16.97	-0.47
-	DA2mw-108	2355604.43	560181.78	1029.92	15.0	1032.36	A	Bedrock	Unconsolidated	9.3	14.3	14.5	2.44	16.9	17.29	-0.39
-	DA2mw-109	2354793.14	559897.89	1068.66	24.0	1071.29	A	Unconsolidated	Unconsolidated	11.3	21.3	21.5	2.63	24.1	24.48	-0.38
1 -	DA2mw-110	2355195.91	559927.02	1061.39	20.0	1063.78	A	Unconsolidated	Unconsolidated	9.3	19.3	19.5	2.39	21.9	22.45	-0.55
-	DA2mw-111	2354728.33	560222.94	1039.63	12.6	1042.12	A	Bedrock	Unconsolidated	7.1	12.1	12.3	2.49	14.8	14.93	-0.13
-	DA2mw-112	2355018.98	560378.36	1034.87	15.0	1037.44	A	Unconsolidated	Unconsolidated	8.8	13.8	14.0	2.57	16.6	17.18	-0.58
	DA2mw-113	2355153.13	560394.81	1034.51	14.0	1037.11	A	Unconsolidated	Unconsolidated	8.3	13.3	13.5	2.60	16.1	16.42	-0.32
	EBGmw-123	2380049.21	571747.04	945.59	32.0	947.82	A	Unconsolidated	Unconsolidated	21.0	31.0	31.5	2.23	33.7	34.90	-1.20
	EBGmw-124	2380030.24	571618.07	939.02	32.0	941.39	A	Unconsolidated	Unconsolidated	20.0	30.0	30.5	2.37	32.9	32.86	0.04
	EBGmw-125	2379679.20	571655.63	947.55	25.0	949.89	A	Unconsolidated	Unconsolidated	14.0	24.0	24.5	2.34	26.8	27.58	-0.78
Erie Burning Grounds	EBGmw-126	2380307.31	572348.81	938.20	28.0	940.61	A	Unconsolidated	Unconsolidated	15.2	25.2	25.5	2.41	27.9	28.00	-0.10
Grounds	EBGmw-127	2380172.16	571083.61	940.21	30.0	943.07	A	Unconsolidated	Unconsolidated	19.0	29.0	29.5	2.86	32.4	32.82	-0.42
	EBGmw-128	2379892.79	570970.32	942.47	28.0	945.13	A	Unconsolidated	Unconsolidated	15.0	25.0	25.3	2.66	28.0	28.31	-0.31
-	EBGmw-129	2379240.52	572035.68	941.97	29.0	944.36	A	Unconsolidated	Unconsolidated	16.0	26.0	26.0	2.39	28.4	31.12	-2.72
	EBGmw-130	2379220.69	570695.61	941.18	26.0	944.00	A	Unconsolidated	Unconsolidated	15.2	25.2	25.5	2.82	28.3	28.49	-0.19
	FBQmw-166	2349584.33	553123.86	1104.87	16.0	1108.86	А	Unconsolidated	Unconsolidated	5.5	15.5	15.5	3.99	19.5	19.84	-0.34
	FBQmw-167	2349675.45	553556.12	1112.05	18.0	1115.90	А	Unconsolidated	Unconsolidated	5.0	15.0	15.0	3.85	18.9	19.09	-0.19
	FBQmw-168	2350066.87	553620.85	1131.27	19.5	1133.91	А	Unconsolidated	Homewood	9.0	19.0	19.0	2.64	21.6	21.36	0.24
[FBQmw-169	2349730.90	553681.21	1117.36	16.0	1120.58	А	Unconsolidated	Homewood	5.0	15.0	15.0	3.22	18.2	18.21	-0.01
[FBQmw-170	2350102.41	553975.40	1139.67	30.5	1142.26	А	Bedrock	Homewood	20.0	30.0	30.0	2.59	32.6	32.82	-0.22
Fuze and Booster	FBQmw-171	2350072.44	554230.93	1140.49	30.0	1143.55	А	Bedrock	Homewood	18.0	28.0	28.0	3.06	31.1	31.52	-0.42
Quarry	FBQmw-172	2349907.37	554322.17	1145.71	33.0	1150.09	А	Bedrock	Homewood	20.0	30.0	30.0	4.38	34.4	34.53	-0.13
	FBQmw-173	2350449.01	554491.35	1162.43	50.0	1165.94	А	Bedrock	Homewood	29.5	49.5	49.5	3.51	53.0	51.79	1.21
I [FBQmw-174	2350289.81	554142.44	1135.78	22.5	1139.97	А	Bedrock	Homewood	12.0	22.0	22.0	4.19	26.2	22.95	3.25
[FBQmw-175	2350297.98	553989.24	1137.16	22.5	1140.73	А	Bedrock	Homewood	12.0	22.0	22.0	3.57	25.6	25.91	-0.31
[FBQmw-176	2350219.45	553273.33	1129.57	21.5	1131.91	А	Unconsolidated	Unconsolidated	11.0	21.0	21.0	2.34	23.3	24.12	-0.82
	FBQmw-177	2350112.18	553321.94	1125.73	22.5	1128.57	А	Unconsolidated	Homewood	12.0	22.0	22.0	2.84	24.8	24.99	-0.19

												Bottom of			October 2007	
												Inner		Reported	Measured	
												Casing		Bottom of	Bottom of	
		Ohio State	Ohio State	Ground	Total		Well			Top of	Bottom	Plug or	Stickup	Inner	Inner	Sediment
		Plane	Plane	Level	Drilled	тос	Head	Monitori	ng Zone	Screen	of Screen	End Cap	height	Casing	Casing	Accumulation
RVAAP Area	Well ID	Easting	Northing	Elevation ^a	Depth ^b	Elevation ^a	Type ^c	Old	New	(ft, BGS)	(ft, BGS)	(ft, BGS)	(ft, AGS)	(ft, BTOC)	(ft, BTOC)	(ft)
	LNWmw-024	2358403.21	564825.89	1035.30	24.0	1038.00	А	Unconsolidated	Unconsolidated	10.0	20.0	20.0	2.70	22.7	22.65	0.05
Landfill North of	LNWmw-025	2358417.06	565071.92	1027.20	19.0	1029.13	А	Unconsolidated/	Unconsolidated	8.0	18.0	18.0	1.93	19.9	20.45	-0.55
Winklepeck	LNWmw-026	2358952.24	564658.16	1025.00	24.0	1027.80	А	Unconsolidated	Unconsolidated	13.0	23.0	23.0	2.80	25.8	26.12	-0.32
	LNWmw-027	2358628.75	564517.41	1024.40	25.0	1027.13	А	Bedrock	Unconsolidated	14.0	24.0	24.0	2.73	26.7	26.96	-0.26
	NTAmw-107	2345433.40	551697.29	1077.65	23.0	1080.30	А	Unconsolidated	Unconsolidated	12.0	22.0	22.0	2.65	24.6	24.44	0.16
	NTAmw-108	2345781.60	551916.22	1083.22	23.0	1085.62	А	Unconsolidated	Unconsolidated	12.0	22.0	22.0	2.40	24.4	24.61	-0.21
[NTAmw-109	2345997.72	551293.25	1076.89	19.0	1079.84	Α	Unconsolidated	Unconsolidated	8.0	18.0	18.0	2.95	20.9	21.01	-0.11
	NTAmw-110	2346438.94	551351.46	1080.03	28.0	1082.62	А	Unconsolidated	Unconsolidated	17.0	27.0	27.0	2.59	29.6	29.82	-0.22
	NTAmw-111	2346638.01	551538.60	1078.07	20.0	1080.94	А	Unconsolidated	Unconsolidated	9.5	19.5	19.5	2.87	22.4	22.18	0.22
NACA Test Area	NTAmw-112	2346889.48	551712.14	1075.36	23.9	1078.33	Α	Unconsolidated	Unconsolidated	13.9	23.9	23.9	2.97	26.9	26.76	0.14
NACA Test Alea	NTAmw-113	2347082.83	551488.52	1072.61	27.5	1075.68	А	Unconsolidated	Unconsolidated	17.0	27.0	27.5	3.07	30.6	29.41	1.19
	NTAmw-114	2347301.57	551592.94	1075.61	20.0	1078.71	А	Unconsolidated	Unconsolidated	9.5	19.5	19.5	3.10	22.6	22.91	-0.31
	NTAmw-115	2347581.16	551791.78	1086.91	24.0	1089.65	А	Unconsolidated	Unconsolidated	12.5	22.5	22.5	2.74	25.2	25.41	-0.21
	NTAmw-116	2348196.39	551748.00	1091.68	22.0	1094.33	Α	Unconsolidated	Unconsolidated	10.0	20.0	20.0	2.65	22.6	22.69	-0.09
	NTAmw-117	2347994.83	551584.57	1091.67	25.0	1094.54	Α	Unconsolidated	Unconsolidated	14.5	24.5	24.5	2.87	27.4	27.61	-0.21
	NTAmw-118	2347609.41	551335.04	1078.86	22.5	1081.44	Α	Unconsolidated	Unconsolidated	12.0	22.0	22.0	2.58	24.6	24.82	-0.22
	RQLmw-006	2375927.71	566091.26	993.52	42.1	995.39	А	Bedrock	Sharon	19.4	39.4	39.6	1.87	41.4	42.12	-0.72
	RQLmw-007	2375872.56	566544.36	963.86	18.7	965.91	А	Bedrock	Sharon	6.0	16.0	16.2	2.05	18.2	18.60	-0.40
	RQLmw-008	2376011.08	566327.94	963.82	18.7	966.08	А	Bedrock	Sharon	6.0	16.0	16.2	2.26	18.5	18.72	-0.22
	RQLmw-009	2376253.65	566351.20	962.60	18.8	964.58	А	Bedrock	Sharon	5.9	15.9	16.4	1.98	18.4	18.90	-0.50
	RQLmw-010	2376048.58	566857.39	980.04	35.4	982.14	Α	Bedrock	Sharon	12.5	32.5	33.0	2.10	35.1	35.42	-0.32
Ramsdell Quarry	RQLmw-011	2376398.19	566819.66	974.60	35.4	976.57	А	Bedrock	Sharon	12.4	32.4	32.6	1.97	34.6	35.44	-0.84
Landfill	RQLmw-012	2376558.19	566551.95	975.12	30.5	977.65	А	Bedrock	Sharon	19.8	29.8	30.0	2.53	32.5	32.76	-0.26
[RQLmw-013	2376204.93	566928.09	978.04	34.4	980.71	Α	Bedrock	Sharon	23.7	33.7	33.9	2.67	36.6	36.57	0.03
[RQLmw-014	2376519.38	566941.29	970.83	29.4	973.49	А	Bedrock	Sharon	18.6	28.6	28.9	2.66	31.6	31.44	0.16
[RQLmw-015	2375490.96	566560.90	989.19	40.1	991.26	А	Bedrock	Sharon	29.2	39.2	39.5	2.07	41.6	42.14	-0.54
[RQLmw-016	2375649.55	566177.68	994.02	39.5	996.60	А	Bedrock	Sharon	28.5	38.5	39.0	2.58	41.6	43.82	-2.22
	RQLmw-017	2376124.18	565931.38	988.69	30.5	991.23	А	Bedrock	Sharon	19.8	29.8	30.0	2.54	32.5	32.86	-0.36

 Table 3-2. Construction Details Including October 2007 Depth to Bottom Measurements

												Bottom of			October 2007	
												Inner		Reported	Measured	
												Casing		Bottom of	Bottom of	
		Ohio State	Ohio State	Ground	Total		Well			Top of	Bottom	Plug or	Stickup	Inner	Inner	Sediment
		Plane	Plane	Level	Drilled	TOC	Head	Monitori	ng Zone	Screen	of Screen	End Cap	height	Casing	Casing	Accumulation
RVAAP Area	Well ID	Easting	Northing	Elevation ^a	Depth ^b	Elevation ^a	Type ^c	Old	New	(ft, BGS)	(ft, BGS)	(ft, BGS)	(ft, AGS)	(ft, BTOC)	(ft, BTOC)	(ft)
	WBGmw-005	2357163.55	563037.18	1052.20	19.0	1054.70	А	Unconsolidated	Unconsolidated	8.3	18.3	18.6	2.50	21.1	21.22	-0.12
	WBGmw-006	2359087.79	563008.87	1012.16	19.0	1014.66	А	Unconsolidated	Unconsolidated	7.6	17.6	17.9	2.50	20.4	20.29	0.11
	WBGmw-007	2360420.44	562479.87	998.09	24.0	1000.59	Α	Unconsolidated	Unconsolidated	13.5	23.5	23.8	2.50	26.3	26.50	-0.20
	WBGmw-008	2359700.57	562010.35	1005.71	18.5	1008.21	Α	Unconsolidated	Unconsolidated	8.1	18.2	18.5	2.50	21.0	20.92	0.08
	WBGmw-009	2357159.20	561603.54	1045.03	24.0	1047.53	Α	Unconsolidated	Unconsolidated	11.4	21.4	21.5	2.50	24.0	24.40	-0.40
	WBGmw-010	2356051.96	562893.20	1067.10	21.0	1069.85	Α	Unconsolidated	Unconsolidated	10.5	20.5	20.8	2.75	23.6	23.50	0.10
Winklepeck Burning Grounds	WBGmw-011	2356187.29	562609.18	1069.70	22.0	1072.38	Α	Unconsolidated	Unconsolidated	11.0	21.0	21.3	2.68	24.0	23.96	0.04
_	WBGmw-012	2354810.65	562240.90	1076.50	30.0	1079.11	Α	Unconsolidated	Unconsolidated	19.0	29.0	29.4	2.61	32.0	31.73	0.27
	WBGmw-013	2355223.25	561518.27	1069.10	22.0	1071.70	А	Unconsolidated	Unconsolidated	11.0	21.0	21.3	2.60	23.9	24.22	-0.32
	WBGmw-014	2360439.22	562061.26	994.10	23.0	996.78	Α	Unconsolidated	Unconsolidated	12.0	22.0	22.3	2.68	25.0	25.09	-0.09
	WBGmw-015	2359182.41	562340.12	1009.10	22.0	1011.60	А	Unconsolidated	Unconsolidated	11.0	21.0	21.3	2.50	23.8	23.62	0.18
	WBGmw-016	2360645.88	562709.13	994.90	24.0	997.03	Α	Unconsolidated	Unconsolidated	13.0	23.0	23.3	2.13	25.4	25.30	0.10
	WBGmw-017	2359603.84	562913.24	1004.00	22.0	1006.62	Α	Unconsolidated	Unconsolidated	11.0	21.0	21.3	2.62	23.9	23.82	0.08
	MBS-001	2345323.00	550759.50	1079.68	30.0	1082.20	А	Unconsolidated	Unconsolidated	19	28.7	29	2.52	31.5	31.03	0.47
	MBS-002	2345322.30	550886.20	1080.50	30.0	1083.22	Α	Unconsolidated	Unconsolidated	18	27.3	28	2.72	30.7	30.44	0.26
Suspected Mustard Agent	MBS-003	2345172.40	550922.80	1082.45	30.0	1084.45	Α	Unconsolidated	Unconsolidated	18.5	28.2	28.5	2.00	30.5	30.81	-0.31
Burial Site	MBS-004	2345134.20	550767.90	1079.55	26.0	1081.80	Α	Unconsolidated	Unconsolidated	14.7	24.4	24.7	2.25	27.0	26.66	0.34
	MBS-005	2345354.10	550800.70	1080.50	30.0	1082.42	А	Unconsolidated	Unconsolidated	18	28	28.08	1.92	30.2	30.12	0.08
	MBS-006	2345282.3	550726.1	1080.29	28.0	1081.83	A	Unconsolidated	Unconsolidated	16.5	26.5	26.56	1.54	28.2	28.22	-0.02

 Table 3-2. Construction Details Including October 2007 Depth to Bottom Measurements

a elevations are in feet above mean sea level (amsl)

b total drilled well borehole depth relative to ground surface.

c A = above grade completion; F = flush-mount completion

NA = Not available

AGS = above ground surface

BGS = below ground surface

BTOC = below top of casing

and minimum measured elevation of 929.82 ft amsl southeast of Load Line 1 (well LL1mw-065). At the watershed scale (e.g., Hinkley Creek, Sand Creek, and Eagle Creek), groundwater flow patterns are influenced by topography and the drainage patterns of the streams. The influence of surface topography on groundwater flow is especially observed within the Hinkley Creek watershed (e.g., NACA Test Area, Suspected Mustard Agent Burial Site, and Demolition Area 1 vicinity) where groundwater flow is toward the southwestern RVAAP boundary. In four areas of RVAAP, including the Atlas Scrap, C Block Quarry, Load Lines 1, 2, 3, 7, 9 and 12, Ramsdell Quarry, the unconsolidated aquifer is not present and is replaced by the Homewood Member or Sharon Member. Refer to Plate 2 for the location of these areas.

Plate 3 represents Facility-wide groundwater flow in wells completed into bedrock. Preglacial erosion has resulted in bedrock highs (i.e., islands) surrounded and topped by glacial and recent deposits (i.e., unconsolidated aquifer). At least three such islands have been interpreted to exist at RVAAP. Two are topped by the Homewood Member and one by the Sharon Member. These islands may not be in hydraulic communication with each other, but there is hydraulic communication with the unconsolidated aquifer. Plate 3 illustrates that groundwater in bedrock of the Sharon Member flows radially outward from bedrock into the surrounding unconsolidated aquifer. The potentiometric high is located beneath Load Line 2. Plate 3 indicates that groundwater flow of the Homewood Member is to the southeast toward the Michael J. Kerwin Reservoir on the Mahoning River, which is a regional hydraulic sink.

Groundwater-elevation measurements are collected each time a groundwater sample is collected from one of 41 wells that are a part of the FWGWMP. These data can be used to evaluate the vertical fluctuate of groundwater in wells. Table 3-3 presents the water-level elevations of the 41 wells between September 2005 and October 2007. While the historical record under the FWGWMP is relatively short the following observations can be made:

- Year to year (i.e. September/October) comparisons indicate that between September 2005 and September 2006, average groundwater elevation increased more than one foot.
- Between September 2006 and October 2007, average groundwater elevation declined over 1.9 feet.
- Between April and October 2007, average groundwater levels in wells declined about 4.25 feet. The greatest decline was at well BKGmw-012 (8.38 ft) and the least decline was at well BKGmw-006 (0.79 ft).

During the July and October monitoring events EQM determined that groundwater levels in some wells had declined significantly from April levels. EQM initiated an evaluation of conditions, which may have caused this decline. Through reviewing data available from the U.S. Department of Agriculture (USDA) and the National Oceanographic and Atmospheric Administration (NOAA) it was determined that starting about June 1, the RVAAP area was experiencing abnormally dry weather conditions. This condition lasted until about August 10.

RVAAP Area	Well ID	Monitoring Zone	TOC Elevation (ft, amsl)	(ft. amsl)	Potentiometric Elevation March 2006 (ft. amsl)	Potentiometric Elevation July 2006 (ft. amsl)	Potentiometric Elevation September 2006 (ft. amsl)	Potentiometric Elevation January 2007 (ft. amsl)	Potentiometric Elevation April 2007 (ft. amsl)	Potentiometric Elevation July 2007 (ft. amsl)	Potentiometric Elevation October 2007 (ft. amsl)	Elevation Change (Sept 05- Sept 06) (ft)		Elevation Change (April- October)
Background		Unconsolidated	967.66	953.24	953.93	954.08	953.74	953.74	955.45	954.08	952.87	0.50	-0.87	-2.58
	BKGmw-005	Unconsolidated	1,151.94	1,137.82	1,140.86	1,141.91	1,138.51	1,138.54	1,141.89	1,137.92	1,136.95	0.69	-1.56	-4.94
	BKGmw-006	Sharon	1,028.88	1,005.66	1,006.20	1,007.03	1,006.20	1,006.20	1,006.49	1,006.46	1,005.70	0.54	-0.50	-0.79
	BKGmw-008	Sharon	972.90	954.36	956.32	957.53	955.54	955.54	959.32	956.38	953.70	1.18	-1.84	-5.62
	BKGmw-010	Sharon	1,006.18	985.84	993.11	993.87	992.39	994.80	993.31	988.84	984.93	6.55	-7.46	-8.38
	BKGmw-012	Sharon	1,000.07	988.40	992.30	992.35	989.74	993.02	993.05	989.21	987.79	1.34	-1.95	-5.26
	BKGmw-013	Unconsolidated Sharon	989.09 1,040.40	976.26 989.43	977.03 991.66	977.50 991.99	976.68 991.11	978.00 992.42	978.07 992.73	976.65 990.66	975.97 988.87	0.42	-0.71 -2.24	-2.10
	BKGmw-015	Unconsolidated	1,040.40	1,093.73	1,095.28	1,095.71	1,094.04	1,095.88	1,095.70	1,093.00	1,092.82	0.31	-2.24 -1.22	-3.86 -2.88
	BKGmw-016 BKGmw-017	Unconsolidated	1,135.30	1,115.02	1,095.28	1,118.72	1,116.16	1,119.32	1,119.41	1,115.32	1,113.97	1.14	-1.22	-2.00
	BKGmw-018	Sharon	1,045.56	1,029.33	1,029.69	1,030.16	1,029.62	1,030.39	1,030.63	1,029.96	1,029.16	0.29	-2.19	-5.44 -1.47
	BKGmw-019	Unconsolidated	1,045.30	1,090.06	1,092.24	1,092.64	1,091.02	1,093.59	1,095.64	1,091.38	1,089.63	0.29	-0.40	-6.01
	BKGmw-020	Unconsolidated	1,067.50	1,055.92	1,059.47	1,059.85	1,057.25	1,060.51	1,060.41	1,055.69	1,054.64	1.33	-2.61	-5.77
	BKGmw-021	Unconsolidated	974.66	955.67	956.00	959.32	956.29	961.80	962.33	960.00	954.99	0.62	-1.30	-7.34
Load Line 1	LL1mw-078	Sharon	995.84	964.46	963.39	965.80	965.05	966.85	968.58	966.51	963.60	0.59	-1.45	-4.98
	LL1mw-080	Sharon	996.27	984.78	986.07	987.04	985.60	987.15	986.98	984.18	981.97	0.82	-3.63	-5.01
	LL1mw-083	Sharon	995.20	962.67	961.76	964.12	963.36	965.35	967.14	964.78	961.68	0.69	-1.68	-5.46
Load Line 2	LL2mw-059	Sharon	966.67	953.09	954.45	954.99	953.56	955.77	956.66	954.22	952.79	0.47	-0.77	-3.87
	LL2mw-262	Sharon	1,012.62	1,001.63	1,005.65	1,006.01	1,003.52	1,006.20	1,006.86	1,002.58	1,001.28	1.89	-2.24	-5.58
	LL2mw-263	Sharon	1,011.47	1,000.50	1,004.26	1,004.94	1,002.79	1,002.79	1,005.14	1,001.28	1,000.04	2.29	-2.75	-5.10
Load Line 3	LL3mw-238	Sharon	1,006.91	989.83	991.29	992.07	990.76	992.80	992.31	988.20	989.47	0.93	-1.29	-2.84
	LL3mw-242	Sharon	999.32	980.60	984.32	985.12	981.99	986.53	986.04	981.95	980.42	1.39	-1.57	-5.62
Load Line 4	LL4mw-198	Unconsolidated	983.42	973.60	976.61	977.54	973.99	978.02	978.07	974.09	972.68	0.39	-1.31	-5.39
	LL4mw-199	Unconsolidated	977.28	969.47	970.36	970.96	969.83	971.78	971.90	969.99	969.06	0.36	-0.77	-2.84
Load Line 11	L L11mw-2	Unconsolidated	1,080.00	1,076.99	1,078.30	1,079.10	1,077.86	1,079.08	1,079.10	1,074.88	1,073.95	0.87	-3.91	-5.15
	LL11mw-7	Unconsolidated	1,082.00	1,066.26	1,068.31	1,068.66	1,067.62	1,069.00	1,068.85	1,066.18	1,065.61	1.36	-2.01	-3.24
Load Line 12	LL12mw-153	Unconsolidated	977.85	970.28	972.21	972.73	971.60	972.70	973.55	971.63	970.30	1.32	-1.30	-3.25
		Unconsolidated	984.42	971.90	975.51	975.90	974.10	976.54	976.63	973.94	971.30	2.20	-2.80	-5.33
	LL12mw-183	Sharon	982.98	969.07	971.58	972.16	970.49	972.66	973.74	970.72	968.42	1.42	-2.07	-5.32
	LL12mw-186	Sharon	978.31	970.92	972.91	973.25	972.28	973.73	973.48	971.21	971.02	1.36	-1.26	-2.46
Central Burn		Unconsolidated	971.59	958.58	960.20	960.84	959.46	961.50	NM	NM	NM	0.88	NM	NM
Pits		Unconsolidated	967.64	NM 050.00	NM	NM	NM	NM	962.01	959.70	958.32	NM	NM	-3.69
Domo Aroo 2	CBPmw-7	Unconsolidated	976.37	958.82	961.38	962.35	960.21	963.20	963.29	960.29	958.22	1.39	-1.99	-5.07
Demo. Area 2	DET-003	Unconsolidated	1,036.81	1,031.08	1,027.53	NM	1,026.86	1,027.98	1,027.85	NM	1,026.97	-4.22	0.11	-0.88
	DET-004 DA2mw-107	Unconsolidated Unconsolidated	1,038.68 1,041.63	NM 1,032.75	NM 1,033.99	NM 1,034.93	NM 1,033.62	NM 1,035.29	1,028.48 1,035.23	NM 1 032 87	1,027.57 1,033.22	NA 0.87	NA -0.40	-0.91 -2.01
Ramsdell	RQLmw-007	Sharon	965.91	959.95	958.74	1,034.93 NM	961.63	961.63	962.31	1,032.87 NM	957.81	1.68	-0.40 -3.82	-2.01
Quarry	RQLmw-007 RQLmw-008	Sharon	965.91	960.06	959.14	NM	961.63	961.49	962.31	NM	957.81	1.66	-3.82 -3.38	-4.50
Quality	RQLmw-008	Sharon	964.58	959.84	958.78	NM	961.27	961.27	962.08	NM	957.85	1.43	-3.30	-4.27
Winklepeck		Unconsolidated	1,014.66	1,005.56	1,008.27	1,009.56	1,006.87	1,009.76	1,009.88	1,005.40	1,004.41	1.43	-3.42	-4.23
Burning		Unconsolidated	1,000.59	981.96	983.54	984.06	982.53	984.47	984.39	982.47	981.64	0.57	-0.89	-2.75
		Unconsolidated	1,047.53	1,032.50	1,035.06	1,036.02	1,033.64	1,036.77	1,037.28	1,033.03	1,031.49	1.14	-2.15	-5.79
0.001100			,	,	,	,	,	,	,	,	Average Change	1.06	-1.94	-4.23

amsl = above mean sea level

NM = not measured

Ohio EPA's Technical Guidance for Ground Water Investigations – Chapter 3 (Characterization of Site Hydrogeology) (October 2006) indicates that the fluctuation of groundwater levels are affected by groundwater recharge (i.e., infiltration to the water table) and evapotranspiration and phreatophytic consumption (i.e., utilization of groundwater by plants to sustain growth and health).

During an abnormal dry period it can be expected that the amount of recharge to groundwater will be less than "normal" and that the amount of plant use will be above "normal" resulting in abnormal (i.e., lower than "normal") groundwater levels.

For the purpose of comparison, the changes in groundwater elevation in sampled wells were determined for the Spring to Summer sampling events for 2006 and 2007. In 2006, groundwater levels in wells increased by an average of 0.79 feet (actual range was up to 2.4 feet). USDA and NOAA records indicate that the RVAAP area was not experiencing abnormally dry conditions during that time.

In 2007, groundwater levels in wells declined an average of 2.94 feet (actual range was up to 8 feet). As previously indicated USDA and NOAA record indicate that the RVAAP area was experiencing abnormally dry conditions during this time. Thus, EQM concluded that the low water levels measured in wells in July and October2007 were climatically controlled.

3.2 Sedimentation/Turbidity of the Wells

As described in Section 3.1 groundwater elevations for the FWGWMP monitoring wells were obtained during the last four quarters. The groundwater elevations for the FWGWMP wells are presented in Table 3-2. EQM reviewed the sediment accumulation footages and the description of bottom for the wells. The majority of wells at RVAAP indicate a <0.20 ft accumulation of sediment with a hard bottom indicated over the last 2 sampling events. During the last two quarters, four wells indicated a 0.50 -1.0 ft accumulation if compared to the original reported construction depths and most were not highly turbid wells. Comparison of the last four quarters of measured depth to bottom indicates that there is little to no change in accumulation of sediment or measured depth to bottom. The correlation of wells with sediment accumulation versus high turbidity has not been established based on the past two quarters of data. Additionally, the sediment accumulation compared over the last four quarters to historical data has not established a correlation to a potential increase of sediment accumulation. Neither has the turbidity in these wells shown a trend of increases during the past two quarters. EQM will continue to monitor the sediment accumulation, descriptions of bottom, and the chance for turbidity increases at all of the well sampled at RVAAP.

To minimize turbid samples, low flow purging and sampling techniques are used. The pumps are suspended at least one foot above the bottom of the well to avoid agitation of the sediment potentially accumulating in the well sump. Additionally, in-line field filtering of metals samples is currently employed to mitigate high sample turbidity. EQM

will continue to monitor the high turbidity readings and make a determination for future redevelopment and other evaluation of any affected wells.

3.3 Monitoring Well Inspection Results

All FWGWMP monitoring wells at RVAAP were inspected during the week of October 1, 2007. Inspection of the physical condition of all existing facility monitoring wells was conducted at the same time potentiometric surface measurements were collected. The well inspection survey consisted of the following elements:

- Following collection of water-level measurements at each well, the total depth of each monitoring well was sounded using the water level indicator. These data allow a determination of the degree of siltation and comparison of the constructed depths recorded in the well construction logs.
- Visual examination of the condition of the above-ground components of each well was performed. The examination included the condition of access roads to the well, well identification tags or markings, protective casing condition, traffic guard posts, protective covers and locks, protective pads, weep holes, and watertight inner casing caps.
- Recording of well inspection data and any maintenance needs were done using a well inspection/maintenance checklist.

The well inspections did not reveal irreparable damage to any specific monitoring wells. General well conditions include:

- Many of the outer well casings and guard posts are showing signs of rust and peeling paint, especially the smaller square outer casings that are painted yellow (e.g., BKGmw-010, BKGmw-12, BKGmw-19, LL10mw-002, as well as most of the wells at Load Line12 and the Atlas Scrap Yard). All of the FWGWMP wells should be considered for repainting within the next 2 years.
- The vegetation around the wells was cleared in June of 2007 (the Winklepeck Burning Ground wells were not cleared of vegetation at the request of the USACE). The vegetation around the majority of the wells was cleared, although starting to grow back. Access roads were passable.
- At many of the wells (e.g., BKG 20, Central Burn Pit wells, Building 1200 wells, and Winklepeck Burning Ground wells) the guard posts were missing the concrete plugs at the top of the post. This does not appear to affect the integrity or life of the posts
- Overall the locks associated with the wells were in good condition with the few exceptions noted on the attached table.

• Per the recommendation of the 2006 well inspection, monitoring well LL11mw-009 was converted from a flush-mounted well to a stickup casing (3-feet) in order to minimize the opportunity for artesian flow. In order to protect against rupture of the PVC due to potential freezing in the well casing a reinforced concrete collar was also installed.

Table 3-4 presents a list of specific wells that have conditions potentially requiring attention. Appendix C presents the well inspection sheets.

3.4 Summary of Groundwater Sampling Results

3.4.1 October 2006

The October 2006 FWGWMP sampling event was performed between October 2 and 5, 2006. Forty-one wells were sampled for this event. The results of this sampling event are reported in the *Facility-Wide Groundwater Monitoring Program, Report on the October 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio*, dated March 2007 (SpecPro). The results of this sampling event are also summarized in Section 4.0 of this report.

3.4.2 January 2007

The January 2007 FWGWMP sampling event was performed between January 18 and 25, 2007. Thirty-six wells were sampled for this event. The results of this sampling event are reported in the *Facility-Wide Groundwater Monitoring Program, Report on the January 2007 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio*, dated May 2007 SpecPro). The results of this sampling event are also summarized in Section 4.0 of this report.

3.4.3 April 2007

The April 2007 FWGWMP sampling event was performed between April 16 and 19, 2007. Forty-one wells were sampled for this event. The results of this sampling event are reported in the *Draft Facility-Wide Groundwater Monitoring Program, Report on the April 2007 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohi*o, dated July 2007 (EQM). The results of this sampling event are also summarized in Section 4.0 of this report.

 Table 3-4. Well Inspection Summary

Area	Well Number	Well Condition/Issue	Recommendation
Background Wells	BKGmw-017	Concrete pad cracked, although still stable.	Repair cracks with silicone caulking to prevent infiltration.
	BKGmw-021	Square outer casing, hinge very rusted, will not close all the way.	Replace top of outer casing.
Load Line 5	LL5mw-001	Well cap was missing.	The cap was replaced by EQM during the inspection.
Load Line 6	LL6mw-001	Flush-mounted well had no gasket around well cover.	Replace gasket.
	LL6mw-006	1.Outer casing box was full of water. Flush-mounted well had no gasket around well cover.2.Concrete pad is not secure (wobbles). Appears to be void underneath.3.Lock is hard to open.	 Replace gasket. Fill in void or replace pad. Take lock in to be repaired or replaced.
	LL6mw-007	1. Outer casing box was full of water. Flush-mounted well had no gasket around well cover.2. Lock is hard to open.	 Replace gasket. Take lock in to be repaired or replaced.
Load Line 8	LL8mw-003	The steel outer casing is dented but does not appear to be damaged. One of the guard posts has damaged concrete. The concrete is cracked and wobbles but is still stable.	There does not appear to be any structural damage to the inner casing or well - no action at this time.
	LL8mw0006	Concrete pad cracked, although still stable.	No action at this time, monitor cracks during future inspections.
Load Line 10	LL10mw-004	Concrete pad cracked, although still stable.	No action at this time, monitor cracks during future inspections.
Load Line 11	LL11mw0002	Flush-mounted well had no gasket around well cover.	Replace gasket.
	LL11mw0003	Flush-mounted well had no gasket around well cover.	Replace gasket.
	LL11mw-004	1.Outer casing box was full of water. Flush-mounted well had no gasket around well cover.2.Lock is hard to open.	 Replace gasket. Take lock in to be repaired or replaced.
	LL11mw-005	Flush-mounted well had no gasket around well cover.	Replace gasket.
	LL11mw-006	Flush-mounted well had no gasket around well cover.	Replace gasket.
	LL11mw-008	Flush-mounted well had no gasket around well cover.	Replace gasket.

Table 3-4. (cont.)			
Area	Well Number	Well Condition/Issue	Recommendation
Load Line 11	LL11mw-009	1.Flush-mounted well had no gasket around well cover.	1.Replace gasket.
		2.Concrete pad is not secure (wobbles). Appears to be void	2.Fill in void or replace pad.
		underneath.	3. Take lock in to be repaired or replaced.
		3. Lock is hard to open and has no gasket.	
Cobbs Pond	CPmw-001	Outer casing box was full of water. Flush-mounted well had no	Replace gasket.
		gasket around well cover	
	CPmw-002	Outer casing box was full of water. Flush-mounted well had no	Replace gasket.
		gasket around well cover	
Detonation Area 2	DA2mw-106	Soil is eroded away from the concrete pad. Pad is stable at this	Monitor the erosion during subsequent
		time.	inspections.
	DA2mw-109	Well cap was missing.	The cap was replaced by EQM during the
			inspection.
NACA Test Area	NTAmw0109	Concrete pad is not secure (wobbles).	Stabilize pad with additional concrete or
			replace pad.
Winklepeck Burning	WBGmw-005	Square outer casing hinge rusted, hard to close.	Replace top of outer casing.
Grounds			
	WBGmw-012	One of the guard posts is leaning and appears to have been hit.	Post is secure. Monitor during future
			inspections.
Ramsdell Quarry	RQLmw-008	Hinge on the top of the outer casing is broken off.	Replace hinge/top of outer casing.
	RQLmw-009	Hinge on the top of the outer casing is broken off.	Replace hinge/top of outer casing.

3.4.4 July 2007

The July 2007 FWGWMP sampling event was performed between July 9 and 12, 2007. Thirty-six wells were sampled for this event. The results of this sampling event are reported in the *Draft Facility-Wide Groundwater Monitoring Program, Report on the July 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio,* dated October 2007 (EQM). The results of this sampling event are also summarized in Section 4.0 of this report. Note that the annual Facility-wide monitoring well inspections for all 237 wells were originally scheduled to be completed in conjunction with the July sampling event. The inspection was postponed until the October 2007 event due to safety concerns associated with the Open Detonation area 2 and Winklepeck Burning Grounds. The results of the well inspections and the associated potentiometric map are included in this report as discussed in Section 3.1.

As discussed in the April and July groundwater reports elevated sample receipt temperatures were an issue for two coolers received by the laboratory in 2007 (one from the April event and one from the July event). In order to ensure that this situation does not re-occur, EQM has instituted the policy that temperature blanks accompany the samples at all times prior to shipment. Additionally, a secondary check will be performed prior to cooler shipment to ensure that sufficient ice has been placed in each cooler. Further, the laboratory (TestAmerica) has been notified that any temperature exceedances must immediately be reported to EQM so that an evaluation can be made as to the need for re-sampling.

It should be noted that while every attempt is made to meet the temperature requirement, exceptions may have to be made for this requirement when samples are collected and then submitted to the laboratory within a relatively short time period of sample collection as detailed in Section 5.4.3 of the FWSAP. Should this situation occur in the future, the Ohio EPA will be notified immediately upon discovery of the situation.

3.5 Laboratory Audit

EQM conducted an on-site Performance Audit at the TestAmerica North Canton on July 24, 2007. The audit was conducted during the processing and analysis of the RVAAP samples from the July sampling event. The purpose of this audit was to evaluate the laboratory for continued use by EQM in support of the USACE RVAAP contract. It was also used as a communication mechanism to address laboratory performance issues identified by EQM personnel relevant to TestAmerica North Canton's analytical documentation in support of EQM's USACE contract

The audit was intended to focus on the data reporting process of TestAmerica North Canton, which actively plays a role in the handling of EQM samples. The Audit Report reflected issues observed during the on-site evaluation and any associated items discovered during the July 2007 data package review. Applicable processes covered during this audit were:

- Viewing of the Laboratory Facility (lay-out, cleanliness, equipment, and space).
- Review of Sample Receiving and custody procedures.
- Interviews with laboratory management, quality assurance personnel, and technical staff.
- Review of techniques employed to communicate client-specific analytical requirements to technical personnel within the laboratory and general project management within TA.
- Review of data reporting and records retention.

A copy of the Audit Report and a modified National Environmental Laboratory Accreditation Conference (NELAC) Audit checklist used to assist in ascertaining TestAmerica North Canton's ability to provide complete, correct, and compliant data packages is presented in Appendix D.

SECTION 4

SUMMARY/ASSESSMENT OF ANNUAL FWGWMP ANALYTICAL RESULTS

4.1 Introduction

A summary of the constituents detected above background levels or above RLs at each of the FWGWMP wells during the 2007 study is discussed in the following subsections. Calcium, magnesium, iron, potassium, and sodium concentrations above background levels are not discussed in this section because they are considered as essential nutrients. A summary of all compounds detected in 2007 are presented in Table 4-1. The Maximum Contaminant Levels (MCLs) are provided where applicable in the following sections. MCLs and United States Environmental Protection Agency (USEPA) Region 9 Preliminary Remediation Goals (PRG) are provided where applicable in Table 4-1. RVAAP background levels are presented in Table 4-2.

Since potassium is a naturally occurring inorganic element in environmental samples, and has consistently been above the specified reporting limit (RL) of 200 μ g/L in historical samples at RVAAP, it is apparent that the need for this degree of sensitivity for potassium is not necessary. It is suggested that the RL for potassium be raised to 1,000 μ g/L. Pending approval of this change by the Ohio EPA, potassium has been added to the list of RLs that currently do not meet RVAAP QAAAP PQLs in Appendix A of the 2007 Annual Report.

Note that prior to the April 2007 monitoring event nitroglycerine and pentaerythritol tetranitrate (PETN) (USEPA SW-846 8330M) were not analyzed for any of the wells. The April and July 2007 groundwater reports present the results for nitroglycerine and PETN.

The Primary Chemicals of Potential Concern	at the RVAAP Facility
Dinitrotoluene-2,4	Dinitrotoluene-2,6
Trinitrotoluene-2,4,6	RDX (cyclotrimethylenetrinitramine)
Composition B [RDX + Trinitrotoluene (TNT)]	HMX [high melting point explosive (octogen)]
Nitrocellulose	Nitroglycerine
Nitroguanidine	Perchlorate
Aluminum	Arsenic
Barium	Cadmium
Chromium	Lead
Mercury	Selenium
Silver	Zinc
Other Chemicals of Potent	tial Concern at the Facility
1,3,5-trinitrobenzene	1,3-Dinitrobenzene
Nitrobenzene	o-Nitrotoluene
n-nitrotoluene	p-Nitrotoluene
Manganese	VOCs
SVOCs	PCBs

Table 4-1. Summar	y of Constituents Detected - October 2006 through July 2007
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Area	Well Number	Monitoring	Compound or Element	Oct 2006 Level	Jan 2007 Level	Apr 2007 Level	July 2007 Level	MCL	Region 9 PRG	Facilitywi Backgrou
Alea	weir number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	ug/L)
ackground Wells	BKGmw-004	Unconsolidated	2-Nitrotoluene	0.5 U	0.5 U	(ug/L) 0.1	0.55 U	NS	0.049	(ug/L)
ackground Wens	BROMW OUT	onconsolidated	Aluminum	50 U	2.8 J	50 U	6.2 J	200	36000	0
			Antimony	2 U	0.11 J	2 U	2 U	6	15	0
			Barium	20.1	20.4	20.2	17.1	2000	2600	82.1
			Benzoic acid	10 R	10 R	9.5 J	10 UJ	NS	150000	*
			bis(2-Ethylhexyl) phthalate	10 UJ	0.94 J	10 U	10 U	NS	4.8	*
			Calcium	18800	18000	17200	16200	NS	NS	11500
			Copper	5 U	5 U	2.7 B,J	5 U	1300	1500	0
			Cyanide	10 U	10 U	10 R	5.1 J	200	730	0
			Di-n-octyl phthalate	1 U	1 U	1.2 J	1 U	NS	1500	*
			Iron	89.5	68.2	53.8 J	110 B, J	300	11000	279
			Magnesium	6620	6430	6260	5430	NS	NS	43300
			Manganese	2.4 J	1.1 J	0.89 J	0.98 J	50	880	1020
			Methylene chloride	2 UJ	2 U	0.29 J	2 U	NS	4.3	*
			Nickel	1 J	10 U	2 J	10 U	NS	730	0
			Potassium	773	685 U	653 J	668 J	NS	NS	2890
			Sodium	12900	12700	12900	10700	NS	NS	4570
		ļ	Zinc	7.6 UJ	6.3 UJ	5 J	3 J	5000	11000	60.9
ackground Wells	BKGmw-005	Unconsolidated	2-Nitrotoluene	0.5 U	0.096 U	0.098 J	0.48 U	NS	0.049	*
			Aluminum	50 U	50 U	5 J	50 U	NS	36000	0
			Antimony	0.6 UJ	0.12 J	2 UJ	2 U	6	15	0
			Barium	14.3	14.0	14.8	13.6	2000	2600	82.1
			Benzene	1 U	1 U	0.81 J	0.54 J	5	0.35	*
			beta-BHC	0.03 J	0.03 U	0.03 UJ	0.017 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	10 UJ	10 U	10 U	2.4 J	NS	4.8	*
			Calcium	88300	77800	86700	87600	NS	NS	11500
			Copper	5 U	5 U	3 J	5 U	1300	1500	0
			HMX	0.1 U	0.096 U	0.073 J	0.097 U	NS	1800	*
			Iron	493	312	347	339 BJ	300	11000	279
			Magnesium	19300	18700	21100	18700	NS	NS	4330
			Manganese	3 J	0.73 J	2.2 J	0.91 J	50	880	1020
			Nickel	10 U	10 U	1.5 J	10 U	NS	730	0
			Potassium	1280 J	391 U	399 J	864	NS	NS	2890
			Sodium	6870	3140	3240	7660	NS	NS	4570
			Toxaphene	0.36 J	2 U	2 UJ	2 U	3	0.061	(0.0
		D datal	Zinc	6.1 UJ	5.5 UJ	12.7 B	10 U	5000	11000	60.9
ackground Wells	BKGmw-006	Bedrock	bis(2-Ethylhexyl) phthalate	10 U	10 UJ	10 UJ	1 J	NS	4.8	*
			Di-n-butyl phthalate	10	0.61 J	1 UJ	1 U	NS	NS	
			Barium	9.6 J	11.8	11.7	0.03 UJ	2000	2600	256
			Calcium	72400	75800	76200	71700	NS 1200	NS 1E00	5310
			Copper	5 U	5 U	2.1 J	0.025 UJ	1300	1500	83.4
			Cyanide	10 U	22	10 U	10 U	200	730	0
			Iron Magnesium	929 22600	587 23100	1540 23100	1100 BJ 21800	300 NS	11000 NS	1430 1500
			Manganese	22600	23100 384 J	23100	182	50	880	1340
			Nickel							0
			Nickei	10 U 0.5 U	10 U 0.13 J	3.8 J 0.5 UJ	10 U 0.5 U	NS NS	730 NS	0 *
			Potassium	1490	1300 J	1340	1360 J	NS	NS	5770
			Sodium	38800	42000	44200	41500	NS	NS	5140
			Zinc	3.8 UJ	42000 3.1 J	44200 6 B,J	41500 10 U	5000	11000	52.3
ackground Wells	BKGmw-008	Bedrock	Antimony	2 U	0.093 J	2 U	0.066 J	6	15	0
acityrounu wells		Deurock	Barium	2 U 4 J	0.093 J 5 J	2 U 5 J	4.4 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	4 J 10 UJ	10 UJ	10 U	4.4 J 3.3 J	2000 NS	4.8	230
			Calcium	27000	27100 J	30300	27900	NS	NS	5310
			Copper	27000 5 U	1.8 J	2.3 B,J	27900 5 U	1300	1500	0
			Di-n-octyl phthalate	1 U	0.95 J	2.3 D,3 1 U	1 U	NS	1500	*
			Iron	135	114	95.4	98.2 B, J	300	11000	1430
			Magnesium	10800	10700	12200	90.2 D, J 11100	NS	NS	1500
			Manganese	0.81 J	0.74 J	0.27 J	0.73 J	50	880	1340
			Methoxychlor	0.01 U	0.74 J 0.1 U	0.27 J	0.73 J 0.1 U	40	180	1340
			Potassium	529 J	485 U	480 J	519 J	40 NS	NS	5770
			Sodium	9700	9940	10200	8800	NS	NS	51400
		1	oouum	//00	7770	10200	0000	140	110	51400

Table 4-1. Summar	y of Constituents Detected	- October 2006 through July 2007
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			cted - October 2006 thr Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007		Region 9	Facilitywid
Area	Well Number	Monitorina	Element	Level	Level	Level	Level	MCL	PRG	Backgroun
7100		Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Background Wells	BKGmw-010	Bedrock	alpha-Chordane	0.03 U	0.03 U	0.03 U	0.009 J	NS	NS	(ug/L) *
	Dittoinin 010	Dearbeit	Aluminum	117	136 J	156	107 B, J	200	36000	0
			Barium	18.6	18.4	21.4	15	2000	2600	256
			Beryllium	0.13 J	10.1	10	1 U	4	NS	0
			bis(2-Ethylhexyl) phthalate	10 U	10 UJ	24	2.1 J	NS	4.8	*
			Cadmium	0.12 J	0.14 J	0.14 J	0.5 U	5	NS	0
			Calcium	11100	12100 J	11600	11800	NS	NS	53100
			Copper	5 U	5 U	3.6 B,J	5 U	1300	1500	0
			Cyanide	10 U	10 U	3.0 B,J 10 R	10 U	200	730	0
			delta-BHC	0.03 U	0.03 U	0.03 U	0.0066 J	200 NS	NS	*
				84.9	47.2	43.4		300	11000	1420
			Iron				47.1 B, J			1430
			Magnesium	14200	14900	15600	13800	NS	NS 880	15000
			Manganese	509	838	944	79.5	50		1340
			Methoxychlor	0.1 U	0.1 U	0.028 J	0.1 U	40	180	
			Nickel	78.4	76.3	78.7	23.7	100	730	0
			Nitrocellulose	0.5 U	0.5 U	0.5 UJ	0.18 J	NS	NS	
			Potassium	706	591 u	540 J	715 J	NS	NS	5770
			Sodium	3800	8000 U	3730	3860	NS	NS	51400
			Tetryl	0.71 J	0.099 U	0.096 U	0.1 U	NS	360	*
			Zinc	14.7 U	12.3 U	11.6	4.4 J	5000	11000	52.3
Background Wells BKG	BKGmw-012	Bedrock	2-Nitrotoluene	0.5 U	0.049 U	0.098 J	0.48 U	NS	0.049	*
			4,4'-DDT	0.012 J	0.03 U	0.03 UJ	0.03 U	NS	0.2	*
			Aluminum	50 U	50 U	8.1 J	103	200	36000	0
			Antimony	2 UJ	0.096 J	2 UJ	0.13 J	6	15	0
			Barium	331	343.0	283	227	2000	2600	256
			Benzene	1.1	0.46 J	0.81 J	0.54 J	5	0.35	*
			beta-BHC	0.0076 J	0.03 U	0.03 UJ	0.017 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	10 UJ	10 UJ	10 U	2.4 J	NS	4.8	*
			Calcium	36200	35800 J	28600	26200	NS	NS	53100
			Copper	5 U	5 U	2.1 J	5 U	1300	1500	0
			HMX	0.1 U	0.098 U	0.073 J	0.097 U	NS	1800	*
			Iron	425	413	469	372	300	11000	1430
			Magnesium	12500	12000	9530	9040	NS	NS	15000
			Manganese	51.7	49.8 J	34.6	37.9	50	880	1340
			Methylene chloride	2 UJ	2 U	0.26 B,J	2 U	NS	4.3	*
			Nickel	10 U	10 U	10 U	2.2 J	NS	730	0
			Potassium	6020	4980 J	4640	4100	NS	NS	5770
			Sodium	33400	36700	42900	40500	NS	NS	51400
			Toluene	0.2 J	1 U	1 U	0.45 UJ	1000	720	*
			Zinc	12.2 U	9 UJ	11.7 B	8.2 J	5000	11000	52.3
Background Wells	BKGmw-013	Unconsolidated	2-Nitrotoluene	0.5 U	0.49 U	0.098 J	0.55 U	NS	0.049	*
		Linconconduced	Aluminum	3.6 J	50 U	50 U	6.2 J	200	36000	0
			Antimony	2 UJ	0.94 J	2 UJ	2 U	6	15	0
			Arsenic	11.4	13.4	10.3	5 U	10	0.007	11.7
			Barium	77.6	87.6	93.6	17.1	2000	2600	
			bis(2-Ethylhexyl) phthalate	10 UJ	87.0 3 J	93.0 10 UJ	17.1 10 U	2000 NS	4.8	82.1 *
		1	Calcium	70700	73500	76100	16200	NS	4.0 NS	115000
				/0/00						110000
					1 []	1		NC		*
			Carbon disulfide	0.29 J	1 U 1 II	10	1 U 1 II	NS	1000	*
			Carbon disulfide Chloromethane	0.29 J 0.15 J	1 U	1 U	1 U	NS	160	*
			Carbon disulfide Chloromethane Copper	0.29 J 0.15 J 5 U	1 U 5 U	1 U 2.2 J	1 U 5 U	NS 1300	160 1500	0
			Carbon disulfide Chloromethane Copper Cyanide	0.29 J 0.15 J 5 U 10 U	1 U 5 U 9.5 J	1 U 2.2 J 10 UJ	1 U 5 U 5.1 J	NS 1300 200	160 1500 730	0
			Carbon disulfide Chloromethane Copper Cyanide Iron	0.29 J 0.15 J 5 U 10 U 1480	1 U 5 U 9.5 J 1170	1 U 2.2 J 10 UJ 1150	1 U 5 U 5.1 J 110 B, J	NS 1300 200 300	160 1500 730 11000	0 0 279
			Carbon disulfide Chloromethane Copper Cyanide Iron Magnesium	0.29 J 0.15 J 5 U 10 U 1480 23900	1 U 5 U 9.5 J 24600	1 U 2.2 J 10 UJ 1150 25700	1 U 5 U 5.1 J 110 B, J 5430	NS 1300 200 300 NS	160 1500 730 11000 NS	0 0 279 43300
			Carbon disulfide Chloromethane Copper Cyanide Iron Magnesium Manganese	0.29 J 0.15 J 5 U 10 U 1480 23900 391	1 U 5 U 9.5 J 1170 24600 432	1 U 2.2 J 10 UJ 1150 25700 434	1 U 5 U 5.1 J 110 B, J 5430 0.98 J	NS 1300 200 300 NS 50	160 1500 730 11000 NS 880	0 0 279 43300 1020
			Carbon disulfide Chloromethane Copper Cyanide Iron Magnesium Manganese Methylene chloride	0.29 J 0.15 J 5 U 10 U 1480 23900 391 2 U	1 U 5 U 9.5 J 1170 24600 432 2 U	1 U 2.2 J 10 UJ 1150 25700 434 0.24 B,J	1 U 5 U 5.1 J 110 B, J 5430 0.98 J 2 U	NS 1300 200 300 NS 50 NS	160 1500 730 11000 NS 880 1300	0 0 279 43300 1020 *
			Carbon disulfide Chloromethane Copper Cyanide Iron Magnesium Manganese Methylene chloride Potassium	0.29 J 0.15 J 5 U 10 U 1480 23900 391 2 U 1950	1 U 5 U 9.5 J 1170 24600 432 2 U 1870 J	1 U 2.2 J 10 UJ 1150 25700 434 0.24 B,J 1750	1 U 5 U 5.1 J 110 B, J 5430 0.98 J 2 U 668 J	NS 1300 200 300 NS 50 NS NS	160 1500 730 11000 NS 880 1300 NS	0 0 279 43300 1020 * 2890
			Carbon disulfide Chloromethane Copper Cyanide Iron Magnesium Manganese Methylene chloride	0.29 J 0.15 J 5 U 10 U 1480 23900 391 2 U	1 U 5 U 9.5 J 1170 24600 432 2 U	1 U 2.2 J 10 UJ 1150 25700 434 0.24 B,J	1 U 5 U 5.1 J 110 B, J 5430 0.98 J 2 U	NS 1300 200 300 NS 50 NS	160 1500 730 11000 NS 880 1300	0 0 279 43300 1020 *

Table 4-1. Summa	y of Constituents Detected	- October 2006 through July 2007
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Table 4-1. Sun	nmary of Cor	istituents Dete	cted - October 2006 thr	<u> </u>						
A			Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007		Region 9	Facilitywid
Area	Well Number	Monitoring	Element	Level	Level	Level	Level	MCL	PRG	Backgrour
		Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Background Wells	BKGmw-015	Bedrock	2-nitrotoluene	0.50 U	0.48 U	0.095 J	0.56 U	NS	0.049	*
			Acetone	10 U	10 U	10 R	1.3 J	NS	5500	*
			Barium	279	273	302	220	2000	2600	256
			bis(2-Ethylhexyl) phthalate	10 UJ	10.0 U	1.9 J	10 U	NS	4.8	*
			Calcium	29800	30500	31600	28500	NS	NS	53100
			Copper	5.0 U	5.0 U	3.2 B,J	5 U	1300	1500	0
			Cyanide	10.000 U	10.000 U	10 U	10 U	200	730	0
			Iron	153	213	128	145 BJ	300	10000	1430
			Magnesium	12800	12700	13200	11700	NS	NS	15000
			Manganese	2.4 J	25.6 J	11.3	61.4	50	880	1340
			Methoxychlor	0.10 U	0.10 U	0.061 J	0.10 U	40	180	*
			Nickel	10 U	10 U	3.5 J	2.9 J	100	730	83.4
			Potassium	5560	4360 J	4780	4150 J	NS	NS	5770
			Sodium	12300	13100	14200	11900	NS	NS	51400
			Zinc	14.3 U	9.9 J	13.6	8.9 J	5000	11000	52.3
Background Wells	PKCmw 014	Unconsolidated	2-Amino-4,6-dinitrotoluene	0.10 U	0.097 U	7	0.7 J 0.11 U	NS	NS	JZ.J *
sackground wens	BKGIIIW-UI0	Unconsolidated								0
	1		Aluminum	24.4 J	26.7 J	25.5 J	14.8 B, J	200	36000	0
	1		Antimony	2 UJ	0.073 J	2 UJ	2 UJ	6	15	0
	1		Arsenic	5 U	5 U	15.4	5 U	10	0	11.7
	1		Barium	13.2	14.1	13.9	14.1	2000	2600	82.1
	1		Calcium	8950	9600	9950	9980	NS	NS	115000
	1		Copper	5.0 U	2.4 J	2.6 J	5.0 U	1300	1500	0
			Iron	74.6 J	80.5	111	85.2 B, J	300	10000	279
			Magnesium	4230	4090	4190	4090	NS	NS	43300
			Manganese	6.1 J	9.6 J	5 J	9.2 J	50	880	1020
			Mercury	0.2 U	0.091 J	0.2 U	0.2 U	2	11	0
			Nickel	2.3 J	10.0 U	2.6 J	3.5 J	100	730	0
			Potassium	576 J	506 U	509 J	603 J	NS	NS	2890
			Sodium	3240	2350	2640	2680	NS	NS	45700
			Zinc	8.4 UJ	6.4 UJ	6.1 B,J	3.6 J	5000	11000	60.9
Background Wells	RKCmw 017	Unconsolidated	Aluminum	50 U	50 U	419	50 U	200	3600	00.7
backyrouriu weiis	DKGIIIW-UT/	Unconsolidated	Antimony	2.0 U	0.073 J	419 2 U	0.18 J	6	15	0
			,							
			Arsenic	19.8	20.4	15.4	17.1	10	0.007	11.7
			Barium	36.7	37	40.1	38.8	2000	2600	82.1
			Benzoic Acid	10 R	10 U	8.9 J	10 R	NS	150000	*
			bis(2-Ethylhexyl) phthalate	10 UJ	10 U	10 U	1.3 J	NS	4.8	*
			Calcium	107000	101000	88600	98300	NS	NS	115000
			Copper	5 U	5 U	4.5 B,J	5 U	1300	1500	0
			Iron	2000	1800	2050	1420 B, J	300	10000	279
			Magnesium	45400	43200	40000	41800	NS	NS	43300
			Manganese	210	211	190	190	50	880	1020
			Nickel	10 U	10 U	2.5 J	10 U	100	730	0
			Nitrocellulose	0.5 U	0.5 U	0.5 UJ	0.18 J	NS	NS	*
			Potassium	2990	2340 J	4760	2560 J	NS	NS	2890
			Sodium	22500	22100	22200	20800	NS	NS	45700
			Thallium	1 U	1 U	0.031 J	20000 1 U	2	2.4	43700
a ali ana i 1147 - 11	DKOm 010	Dedaaal	Zinc	6.1 UJ	5.1 UJ	12.4	10 U	5000	11000	60.9
Background Wells	BKGWM-018	Bedrock	Acetone	10 U	10 U	10 U	1.1 J	NS	5500	
			Aluminum	2.9 J	2.8 J	50 U	50 U	200	36000	0
			Barium	22.7	16.2	21.7	17.4	2000	2600	256
			2-butanone	10 U	10 U	0.51 B,J	10 U	NS	700	*
			Cadmium	0.09 J	0.5 U	0.5 U	0.5 U	5	18	0
			Calcium	63600	33300	47900	56100	NS	NS	53100
			Chloromethane	1 U	1 U	1 U	0.49 J	NS	160	*
			Copper	5.0 U	2.0 J	2.8 J	5 U	1300	1500	0
			Cyanide	10 U	41	10 UJ	10 U	200	730	0
			Di-n-octyl phthalate	1.0 U	0.540 J	1 U	1 U	NS	1500	*
			Iron	490	273	275	248 B, J	300	10000	1430
			Magnesium	7230	4020	5290	6000	NS	NS	15000
		maynesium		4020 45.6 J	28.4	0.75 J	50	880	1340	
			Manganoso	201						
			Manganese	30.1						1340
			Methoxychlor	0.10 U	0.10 U	0.016 J	0.10 U	40	180	*
			Methoxychlor Potassium	0.10 U 1670	0.10 U 835 J	0.016 J 1090	0.10 U 1240 J	40 NS	180 NS	* 5770
			Methoxychlor	0.10 U	0.10 U	0.016 J	0.10 U	40	180	*

			Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007		Region 9
Area	Well Number	Monitoring	Element	Level	Level	Level	Level	MCL	PRG
		Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Background Wells	BKGmw-019	Unconsolidated	Aluminum	50.0 U	25.5 J	50 U	6.9 J	200	36000
			Antimony	2.0 U	0.074 J	2 UJ	2.0 U	6	15
			Barium	38.4	43.3	4.6	39.3	2000	2600
			Calcium	111000	114000	118000	112000	NS	NS
			Copper	5 U	5 U	3.3 J	5 U	1300	1500
			Cyanide	10 U	10 U	10 UJ	0.0042 J	200	730
			Iron	659	520	540	480 J	300	10000
			Magnesium	31800	32600	33800	32000	NS	NS
			Manganese	125	146	70.8	128	50	880
			Nickel	10 U	10 U	4 J	10 U	NS	730
			Potassium	1370	1200 J	1320	1140 J	NS	NS
			Sodium	8640	8120	8770	8760	NS	NS
			Zinc	3.8 UJ	4.4 UJ	6.5 B,J	10 U	5000	11000
Background Wells	BKGmw-020	Bedrock	2-Nitrotoluene	0.5 U	0.5 U	0.095 J	0.5 U	NS	0.049
			Aluminum	50.0 U	3.1 J	50 U	50 U	200	36000
			Antimony	0.22 UJ	0.92 J	2 U	2 U	6	15
			Barium	148	154	147	111	2000	2600
			beta-BHC	0.030 U	0.030 U	0.0081 J	0.030 U	NS	0
			Calcium	51400	49600	49200	46900	NS	NS
			Copper	5.0 U	5.0 U	2.4 J	5 U	1300	1500
			Cyanide	10 U	9 J	10 UJ	10 U	200	730
			Iron	3550	1950	2040	2510 J	300	10000
			Magnesium	16600	15900	15500	14600	NS	NS
			Manganese	829	744 J	706	652	50	880
			Nickel	10 U	10 U	2.3 J	10 U	NS	730
			Potassium	3610	2630	2540	2280 J	NS	NS
			Selenium	5.0 U	3.0 J	5 U	5 U	50	180
			Sodium	8160	8000	8090	7070	NS	NS
			Zinc	8.0 UJ	9.5 J	10.9 B	3.6 J	NS	1100
Background Wells	BKGmw-021	Unconsolidated	Antimony	2.000 U	0.19 J	2 U	0.07 J	6	15
			Barium	37.2	31	30.4	35.7 J	2000	2600
			Benzoic acid	10 R	10 R	8.9 J	10 UJ	NS	150000
			bis(2-Ethylhexyl) phthalate	10 UJ	10 U	1.1 J	0.88 J	NS	4.8
			Calcium	81000	88200	82400	78800 J	NS	NS
			Chloromethane	1.0 U	1.0 U	10	0.37 J	NS	160
			Copper	5.0 U	5.0 U	2.8 B,J	5 U	1300	1500
			Iron	392	296	293	285 J	300	10000
			Magnesium	45500	50800	15500	40800	NS	NS
			Manganese	10 U	0.47 J	10 U	10 U	50	880
			Nickel	10 U	10 U	2.3 J	10 U	NS	730
			Potassium	1100	695 U	2540	1030	NS	NS
			Sodium	10200	15200	8090	10300	NS	NS
	111	De local	Zinc	4.7 UJ	3.9 UJ	10.9 B	10 U	5000	11000
oad Line 1	LL1mw-078	Bedrock	Aluminum	50.0 U	50.0 U	50 U	18.8 J	200	36000
			Antimony	0.10 J	0.067 J	2 UJ	2 U	6	15
			Barium	6.1 J	8.0 J	7 J	6.4 J	2000	2600
			bis(2-Ethylhexyl) phthalate	10 UJ	10 UJ	2.4 J	0.96 J	NS NS	4.8

5.0 U

5.0 U

1 U

255

7310

15.9

10.0 U

0.1 U

0.50 U

NO DATA

2230

5410

0.1 U

0.13 UJ

4.6 UJ

48200

Calcium

Cobalt

Copper Diethyl phthalate

Manganese

Nitrobenzene

Nitrocellulose

Iron Magnesium

Nickel

PETN

Potassium

Sodium

Thallium

Tetryl

Zinc

3.9 J

1.9 J

200

7630

82.0

10.0 U

0.1 U

0.13 J

1940 J

0.1 U

0.1 J

10.3 U

6170

NO DATA

1 U

52200 J

1.7 J

0.81 BJ

212 J

4.4 J

0.5 UJ

0.42 J

0.1 U

5.9 B,J

0.07 J

2080

6450

0.1

7410

24.2

5 U

53000

5 U

5 U

1 U

192 J

7460

18.4

3.7 J

0.5 R

0.4 J

2170 J

0.06 J

0.077 J

6.2 J

5650

0.097 U

53100

NS

NS

1300

NS

300

NS

50

100

NS

NS

NS

NS

NS

NS

2 5000 NS

730

1500

29000

10000

NS

880

730

3

NS

NS

NS

NS

360

2.4

11000

53100

0

0

1430

15000

1340

83.4

* *

*

5770

51400

0

52.3

Table 4-1. Summary	of Constituents Detected - October 2006 through July 20	07
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			Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007		Region 9	Facilitywie		
Area	Well Number	Monitoring	Element	Level	Level	Level	Level	MCL	PRG	Backgrou		
		Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
oad Line 1	LL1mw-080	Bedrock	1,3,5-Trinitrobenzene	0.80	0.22	0.17	0.92	NS	1100	*		
			2,4,6-TNT	0.61	0.15	0.13	0.45 J	NS	2	*		
			2,4-Dinitrotoluene	0.059 J	0.099 U	0.096 U	0.5 U	NS	73	*		
			2,6-Dinitrotoluene	0.10 U	0.099 U	0.061 J	0.5 U	NS	36	*		
			2-Amino-4,6-dinitrotoluene	3.5	1.4	1.4	4.1	NS	NS	*		
			4-amino-2,6-dinitrotoluene	5.4	3.1	3.1	6.5	NS	NS	*		
			4-Nitrotoluene	0.13 J	0.14 J	0.48 U	2.5 U	NS	1	*		
			Aluminum	5.2 J	50 U	50 U	50 U	200	36000	0		
			Antimony	0.38 J	0.21 J	2 UJ	0.18 J	6	15	0		
			Barium	11.3	10 U	10 U	9.5 J	2000	2600	256		
			beta-BHC	0.039	0.029 J	0.030 U	0.030 U	NS	0.037	*		
			bis(2-Ethylhexyl) phthalate	10 UJ	10 U	5 J	3 J	NS	4.8	*		
			Calcium	60000	45100	43300	88300	NS	NS	53100		
			Carbon disulfide	0.33 J	1.0 U	1.0 U	1.0 U	NS	1000	*		
			Diethyl phthalate	1.0 U	1.0 U	0.83 B,J	1.0 U	NS	NS	*		
				0.71 J	1.0 U	1.0 U	1.0 U	NS	29000	*		
			Di-n-octyl phthalate							*		
			HMX	2.7	0.55	0.59	7.3	NS 200	1800	1.00		
			Iron	323	147	159 J	316 J	300	10000	1430		
			Nitrocelluslose	0.13 J	0.12 UJ	0.5 UJ	0.5 U	NS	NS	*		
			Magnesium	4880	3180	3260	6490	NS	NS	15000		
			Manganese	0.74 J	0.34 J	3.5 J	6.9 J	50	880	1340		
			Nickel	10 U	10 U	2.8 J	4.7 J	100	730	83.4		
			Potassium	2720	1500 J	1410	1950	NS	NS	5770		
			RDX	15	2.4	2.3	52	NS	0.61	*		
			Selenium	2.7 J	5.0 U	5.0 U	5 U	50	180	0		
			Sodium	1440	722 J	1130	1830	NS	NS	51400		
			Zinc	8 UJ	3.7 UJ	6.5 B,J	3.1 J	5000	11000	52.3		
oad Line 1	LL1mw-083	Bedrock	1,3,5-Trinitrobenzene	7.1	7.2	6.5	7 J	NS	1100	*		
			1,3-Dinitrobenzene	26 J	0.27 J	0.48 U	0.49 R	NS	3.6	*		
			2,4,6-TNT	6.4	6.5	5.3	6 J	NS	2.20	*		
			2,4-Dinitrotoluene	3.5	3.2	2.6	3.2 J	NS	73	*		
			2,6-Dinitrotoluene	1.7	1.4	1	1.2 J	NS	36	*		
			2-Amino-4,6-dinitrotoluene	1.7	1.4 18 J	16	1.2 J 17 J	NS	NS	*		
						26	30 J	24	25 J	NS	NS	*
					4-amino-2,6-dinitrotoluene 4,4'-DDT	0.030 U	0.030 U	0.024 J	0.6 U	NS	0.20	*
										*		
			Alpha-BHC	0.030 U	0.030 U	0.011 J	0.6 U	NS	0.011			
			Alpha-chlordane	0.0074 J	0.030 U	0.030 U	0.6 U	NS	0.19	Ŷ		
			Aluminum	648	612	640	730 J	200	36000	0		
			Antimony	2.0 UJ	0.95 J	2 U	2 U	6	15	0		
			Barium	16.3	15.6	16.4	16.4	2000	2600	256		
			Beryllium	0.25 J	0.27 J	0.19 B	0.26 J	4	NS	0		
			beta-BHC	0.069	0.086 J	0.17 J	0.6 U	NS	0.037	*		
			Cadmium	0.43 J	0.34 J	0.29 B	0.31 J	5	NS	0		
			Calcium	16900	16100 J	17300	16400	NS	NS	53100		
			Cobalt	7.2	6.4	6.8	7.5	NS	730	0		
			Copper	2.4 J	3.2 J	2.9 B	5 U	1300	1500	0		
			Cyanide	10.000 U	10	10 U	10 UJ	200	730	0		
			Di-n-octyl phthalate	0.72 J	0.88 J	100	1005	NS	1500	*		
			Endosulfan I	0.12 5	0.25 UJ	0.025 U	0.5 UJ	NS	220	*		
			Endrin aldehyde	0.17	0.23 U	0.023 U	0.5 UJ	NS	11	*		
			Endrin Ketone	0.18 0.03 U	0.3 U 0.3 U	0.03 U 0.044 J	0.6 U	NS	11	*		
				0.03 U 0.021 J					NS	*		
			gamma-Chlordane		0.030 U	0.03 U	0.6 U	NS		*		
			HMX	0.50 U	0.27 J	0.18 J	0.2 J	NS	1800			
			Iron	125	74	61.2	82.5 B,J	300	10000	1430		
			Magnesium	4500	4120	4490	4560	NS	NS	15000		
			Manganese	395	374	427 J	394	50	880	1340		
			Methoxychlor	0.10 U	0.10 U	0.028 J	2 U	40	180	*		
			Nickel	26.9	20.2	26.9	28.4	100	730	83.4		
			Potassium	2770	2210 J	2280 J	2170 J	NS	NS	5770		
	1		RDX	0.19 J	0.49 U	0.48 U	0.49 R	NS	0.61	*		
										1		
			Sodium	14800	12000	11800	13500	NS	NS	51400		
			Sodium Thallium	14800 0.07 UJ	12000 0.085 J	11800 0.041 B	13500 0.072 J	NS 2	NS 2.4	51400 0		

Table 4-1. Summary of Co	Instituents Detected - October 2006 through July 20)07
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			ected - October 2006 thr Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007		Region 9	Facilitywid
Area	Well Number	Monitoring	Element	Level	Level	Level	Level	MCL	PRG	Backgroun
		Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
oad Line 2	LL2mw-059	Bedrock	1,3,5-Trinitrobenzene	1.9	1.1	0.66	1.6	NS	1100	*
			1,3-Dinitrobenzene	0.083 J	0.099 U	0.098 U	0.07 J	NS	3.6	*
			2,4-Dinitrotoluene	0.44	0.2	0.12	0.41	NS	73	*
			2-Amino-4,6-dinitrotoluene	0.83	0.45	0.22	0.77	NS	NS	*
			4-amino-2,6-dinitrotoluene	0.81	0.49	0.21	0.78	NS	NS	*
			alpha-Chordane	0.030 U	0.030 U	0.027 J	0.03 U	NS	NS	*
			Aluminum	9.0 J	5 J	50 U	50 U	NS	36000	0
			Antimony	0.77 J	0.93 J	2 UJ	0.16 J	6	15	0
			Barium	17	23.1	17.6	13.4	2000	2600	256
			beta-BHC	0.011 J	0.030 U	0.0094 B,J	0.0084 J	NS	0	*
			bis(2-Ethylhexyl) phthalate	10 UJ	10 UJ	10 U	1.3 J	NS	4.8	*
			Calcium	21200	40800	45300	24700	NS	NS	53100
			Chloromethane	0.23 J	1.0 U	1 U	1 U	NS	160	*
			Cobalt	3.7 J	1.3 J	5 U	3.7 J	NS	730	0
			Copper	2.3 J	5.0 U	3.1 J	5 U	1300	1500	0
			НМХ	0.085 J	0.061 J	0.038 J	0.13	NS	1800	*
			Iron	508	313	176	435 J	300	10000	1430
			Magnesium	7840	7850	7910	7970	NS	NS	15000
			Manganese	514	151 J	9.5 J	259	50	880	13000
			Methoxychlor	0.1 U	0.1 U	0.025 J	0.1 U	40	180	*
			Nickel	5.3 J	10.0 U	3.7 J	4.5 J	100	730	83.4
			Nitrocellulose	0.5 U	0.17 J	0.5 UJ	0.12 J	NS	NS	*
			Potassium	805	552 U	589 J	703 J	NS	NS	5770
			RDX	0.10 U	0.046 J	0.098 U	0.1 B	NS	0.61	*
			Selenium	3.4 J	5.0 U	5.0 U	5 U	50	180	0
			Sodium	4590	5980	8530	4670	NS	NS	51400
			Thallium	0.036 UJ	0.037 J	1.0 UJ	0.048 J	2	2.4	0
			Zinc	9.6 UJ	6.1 J	6.6 B,J	3.2 J	5000	11000	52.3
oad Line 2	LL2mw-262	Bedrock	Aluminum	9.8 UJ 50 U	50 U	3.4 B	50 U	200	36000	0
Judu Line z	LL2IIIW-202	DEULOCK	Antimony	0.72 J	0.31 UJ	2 U	0.087 J	6	15	0
			,	22.5	15.3	15.2	13.1	2000	2600	256
			Barium Calcium	74300	42900	42500	43100	2000 NS	2800 NS	53100
			Cobalt	14.9	42900 5.0 U	42300 1.3 B	43100 1.6 J	NS	730	
										0
			Copper	5.0 U	5.0 U 188	1.8 B 200 J	5 U 142 J	1300	1500 10000	1430
			Iron	3490				300		
			Magnesium	43000	30800	30300	33300	NS	NS	15000
			Manganese	2020	259 J	281 J	266	50	880	1340
			Nickel	17.6	10.9	14.3	14.1	100	730	83.4
			Nitrocellulose	500 U	0.16 J	0.5 U	0.5 R	NS	NS	5770
			Potassium	2870	1670 J	1600 J	1810 J	NS	NS 0.(1	5770
			RDX	0.10 U	0.056 J	0.1 U	0.099 U	NS	0.61	
			Sodium	9380	8720	9180	9370	NS	NS	51400
			Thallium	0.049 UJ	1.0 U	10	0.026 J	2	2.4	0
			Zinc	15.7 UJ	5.2 J	6.6 B,J	3.1 J	5000	11000	52.3
oad Line 2	LL2mw-263	Bedrock	Antimony	0.27 J	0.17 UJ		0.066 J	6	15	0
			Arsenic	15.5	15.7	12.9	14.4	10	0.007	0
			Barium	18.1	18.1	19.2	16.4	2000	2600	256
			Calcium	28300	29500	29600	28100	NS	NS	53100
			Cobalt	2.1 J	3 J	2.4 B	2.3 J	NS	730	0
			Iron	4810	4800	4160	5460 J	300	10000	1430
			Magnesium	12400	12600	12900	11900	NS	NS	15000
			Manganese	1330	1540 J	1200 J	1370	50	880	1340
			Nickel	4.7 J	4.3 J	5.7 B	4.9 J	100	730	83.4
			Potassium	652	625 U	602 B,J	567 J	NS	NS	5770
			PETN	NO DATA	NO DATA	0.48 J	0.94 J	NS	NS	*
			Sodium	3550	4170	5240	3450	NS	NS	51400
	1	1	Zinc	7.5 UJ	4.3 J	6.6 B J	10 U	5000	11000	52.3

Table 4-1. Summar	y of Constituents Detected - October 2006 through July 2007
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Aroo	Woll Number	Monitoring	Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007	MCL	Region 9	Facilitywid
Area	Well Number	Monitoring	Element Detected	Level	Level	Level	Level	MCL	PRG	Backgrour
.oad Line 3	LL3mw-238	Zone Bedrock	1,3,5-Trinitrobenzene	(ug/L) 37	(ug/L) 30	(ug/L) 26 J	(ug/L) 41 J	(ug/L) NS	(ug/L) 1100	(ug/L)
	LEJIIIW-230	Dedrock	2,4,6-TNT	100	65	60 J	97 J	NS	2.2	*
			2.6-Dinitrotoluene	1.0 U	0.49	0.5 R	0.49 R	NS	36	*
			2-Amino-4,6-dinitrotoluene	17	13	11 J	9.9 J	NS	NS	*
			4,4'-DDE	0.025 J	0.030 U	1.5 R	1.5 UJ	NS	0	*
			4-amino-2,6-dinitrotoluene	35	27	25 J	26 J	NS	NS	*
			4-nitrotoluene	2.3 J	2.5 U	2.5 R	2.5 R	NS	0.66	*
			Aluminum	50.0 U	50 U	15.5 J	20.8 B, J	200	36000	0
			Antimony	0.075 UJ	0.13 J	2 UJ	2 U	6	15	0
			Barium	6.2 J	5.6 J	5.1 B	5.2 J	2000	2600	256
			beta-BHC	0.18 J	0.17 J	1.5 R	1.5 UJ	NS	0.032	*
			bis(2-Ethylhexyl) phthalate	10.0 UJ	10 U	4 J	1.4 J	NS	4.8	*
			Calcium	37600	36600	36700	34700	NS	NS	53100
			Copper	5.0 U	1.9 J	5 U	5 U	1300	1500	0
			Diethyl phthalate	1.0 U	1.0 U	0.8 B,J	10	NS	1500	*
			Endrin aldehyde Gamma-BHC	0.059 J	0.030 U 0.030 U	1.5 R 1.5 R	1.5 UJ 1.5 UJ	NS NS	11 0.052	*
			нмх	0.014 J 12	1.5	1.5 K 1.2 J	1.5 UJ 1.7 J	NS	1800	*
			Iron	232	1.5	1.2 J 185 J	204 J	300	10000	1430
			Magnesium	3950	3990	3970	4460	NS NS	NS	15000
			Magnese	1.3 J	0.79 J	1.8 B,J	2.9 J	50	880	13000
			Methoxychlor	0.044 J	1 U	5 R	5 UJ	40	180	*
			Nickel	1.6 J	10.0 U	1.7 B	10 U	100	730	83.4
		Nitrobenzene	1.5	0.49 U	1 UJ	0.27 B, J	NS	3.4	*	
			Nitrocellulose	0.5 U	0.5 U	0.5 UJ	0.13 J	NS	NS	*
			Potassium	2370	1620 J	1500 J	1600 J	NS	NS	5770
			RDX	5.1	4.6	4.8 J	6.6 J	NS	0.61	*
			Selenium	2.4 J	5.0 U	5 U	2.9 J	50	180	0
			Sodium	2120	1910	2120	1370	NS	NS	51400
			Zinc	6.1 UJ	6.2 UJ	5.5 B,J	10 U	5000	11000	52.3
oad Line 3	LL3mw-242	Bedrock	Aluminum	12.0 J	9.8 J	11.8 B	50 U	200	36000	0
			Barium	4.9 J	7.5 J	8.5 B	8.8 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	10 U	10 U	10 U	1.5 J	NS	4.8	*
			Calcium	14700	11000	11700	15900	NS	NS 1/0	53100
			Chloromethane	2.0 J	1.0 U	1.0 U	1.0 U 5 U	NS 1200	160	0
			Copper HMX	5.0 U 0.10 U	5.0 U	2.6 B 0.099 U	0.06 J	1300 NS	1500 1800	0
			Iron	141	0.10 U 36.0	51.2	63.8 B,J	300	10000	1430
			Magnesium	6300	5640	5750	6730	NS NS	NS	15000
			Magnesium	413	5.3 J	7.7 B,J	113	50	880	13000
			Methoxychlor	0.1 U	0.1 U	0.021 J	0.1 U	40	180	*
			Nickel	15.7	4.8 J	8.2 B	12.2	100	730	83.4
			Nitrocellulose	0.5 U	0.5 U	0.2 D	0.14 J	NS	NS	*
			Potassium	1130	768 J	721 B,J	929 J	NS	NS	5770
			Sodium	12800	9750	9480	12700	NS	NS	51400
			Zinc	9.4 UJ	6.7 UJ	8.2 B,J	7.8 J	5000	11000	52.3
oad Line 4	LL4mw-198	Unconsolidated	Aluminum	26.3 J	15.7 J	28.2 B	1540 J	200	36000	0
			Antimony	2.0 UJ	0.11 UJ	2 U	0.11 J	6	15	0
			Barium	13.1	13.7	12.8	20.1	2000	2600	82.1
			Cadmium	0.5 U	0.091 J	0.5 U	0.5 U	5	18	0
			Calcium	26700	31100 J	29200	28800	NS	NS	115000
			Cobalt	5.0 U	1.2 J	1.4 B	1.6 J	NS	730	0
			Copper	5.0 U	5.0 U	5.0 U	2.5 J	1300	1500	0
			Iron	5090	4690 J	5400	10400 J	300	10000	279
	1		Magnesium	12900	14700	14100	13700	NS	NS	43300
				1240	1480 J	1330 J	1050	50	880	1020
			Manganese							
			Methoxychlor	0.10 UJ	0.1 U	0.038 J	0.1 UJ	40	180	*
			Methoxychlor Nickel	0.10 UJ 26.4	32.2	36.6	29.6	100	730	* 0 *
			Methoxychlor Nickel Nitrocellulose	0.10 UJ 26.4 0.5 U	32.2 0.5 U	36.6 0.5 U	29.6 0.12 J	100 NS	730 NS	*
			Methoxychlor Nickel Nitrocellulose PETN	0.10 UJ 26.4 0.5 U NO DATA	32.2 0.5 U NO DATA	36.6 0.5 U 0.57 J	29.6 0.12 J 0.32 J	100 NS NS	730 NS NS	*
			Methoxychlor Nickel Nitrocellulose PETN Potassium	0.10 UJ 26.4 0.5 U NO DATA 1330	32.2 0.5 U NO DATA 1140 J	36.6 0.5 U 0.57 J 1060 J	29.6 0.12 J 0.32 J 1550 J	100 NS NS NS	730 NS NS NS	* * 2890
			Methoxychlor Nickel Nitrocellulose PETN Potassium Sodium	0.10 UJ 26.4 0.5 U NO DATA 1330 8900	32.2 0.5 U NO DATA 1140 J 10500	36.6 0.5 U 0.57 J 1060 J 9650	29.6 0.12 J 0.32 J 1550 J 8740	100 NS NS NS NS	730 NS NS NS NS	* 2890 45700
			Methoxychlor Nickel Nitrocellulose PETN Potassium	0.10 UJ 26.4 0.5 U NO DATA 1330	32.2 0.5 U NO DATA 1140 J	36.6 0.5 U 0.57 J 1060 J	29.6 0.12 J 0.32 J 1550 J	100 NS NS NS	730 NS NS NS	*

Table 4-1. Summar	y of Constituents Detected - October 2006 through July 2007	
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			Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007		Region 9	Facilitywid
Area	Well Number	Monitoring	Element	Level	Level	Level	Level	MCL	PRG	Backgrour
		Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
oad Line 4	LL4mw-199	Unconsolidated	Arsenic	11.6	4.8 J	8.9	12	10	0.007	11.7
			Barium	109	129	101	105	2000	2600	82.1
			Calcium	87400	104000 J	85500	90300	NS	NS	115000
			Carbon disulfide	0.31 J	1.0 U	1 U	1 U	NS	1000	*
			Chloromethane	10	1 U	10	0.38 J	NS	160	*
			Iron	3180	5280 J	2460 J	3770 J	300	10000	279
			Magnesium	21800	26200	21500	22400	NS	NS	43300
			Manganese	746	1160 J	425	410	50	880	1020
			Potassium RDX	1860 0.064 J	1760 J 0.096 U	1240 0.098 U	1270 J 0.11 U	NS NS	NS 0.61	2890
					9380	9230	9140	NS	NS	45700
			Sodium Zinc	9640 7.9 UJ	9380 5.7 UJ	9230 6.7 B,J	9140 3.8 J	5000	11000	45700 60.9
oad Line 11	LL11mw-002	Unconsolidated	1,3,5-Trinitrobenzene	0.041 J	0.098 U	0.7 B,J 0.099 U	0.12 U	5000 NS	11000	*
	LLTIIIW-002	Unconsolidated	Aluminum	50 U	50 U	20.5 B	1430 J	200	36000	0
			Antimony	0.18 UJ	0.1 UJ	20.3 D 2 U	0.19 J	6	15	0
			Barium	32.7	30.1	26.1	38.5	2000	2600	82.1
			Beta-BHC	0.030 U	0.030 U	0.21 B	0.013 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	10 U	10 U	10 U	1.7 J	NS	4.8	*
			Cadmium	3.0	1.4	1.2	0.87	5	NS	0
			Calcium	93800	96300 J	93400	94400	NS	NS	115000
			Chromium	5.0 U	5.0 U	5.0 U	2.4 J	100	120	7.3
			Cobalt	5.0 U	5.0 U	5.0 U	1.7 J	NS	730	0
			Copper	5 U	5 U	2 B	2.3 J	1300	1500	0
			Diethyl phthalalte	1 U	1 U	1 U	1.3	NS	1500	*
			Iron	596	337 J	402	2830 J	300	10000	279
			Magnesium	25300	27100	23900	29500	NS	NS	43300
			Manganese	534	84.8 J	277 J	500	50	880	1020
			Methoxychlor	0.10 U	0.10 U	0.031 J	0.1 U	40	180	*
			Nickel	10.0 U	10.0 U	10 U	4.2 J	100	730	0
			Nitrobenzene	0.085 J	1.0 UJ	0.099 U	0.12 U	NS	3	*
			Nitrocellulose	0.50 U	0.30 J	0.5 U	0.5 UJ	NS	NS	
			Potassium	1880	1410 J	1390 J	2060 J	NS	NS	2890
			Sodium	6600	9100	6240	9170	NS	NS	45700
			Thallium Vanadium	1 U 10.0 U	1 U 10.0 U	1 U 10 U	0.03 J 3.3 J	2 NS	2.4 36	0
			Zinc	223 J	92.9 J	19.5 J	23.5 J	5000	11000	60.9
oad Line 11	LL11mw-007	Unconsolidated	Arsenic	223 J 21.2	92.9 J 16.0	19.5 J 18.2	23.5 J 20	10	0.007	11.7
	LLTIIIW-007	Unconsolidated	Barium	84.4	88.5	88.1	84	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	10 U	10 UJ	0.9 J	10 U	NS	4.8	*
			Calcium	90200	94300 J	90500	90500	NS	NS	115000
			Iron	1570	523 J	1560	1460 J	300	10000	279
			Magnesium	32400	33600	32200	32200	NS	NS	43300
			Manganese	211	274 J	214 J	203	50	880	1020
			Methoxychlor	0.1 U	0.1 U	0.038 J	0.1 U	40	180	*
			Potassium	1700	1420 J	1310 J	1330 J	NS	NS	2890
			Sodium	13300	14400	13600	12900	NS	NS	45700
			Zinc	6.9 UJ	5.1 UJ	6.7 B J	3.7 J	5000	11000	60.9
oad Line 12	LL12mw-153	Unconsolidated	2-Nitrotoluene	0.5 U	0.48 U	0.097 J	0.49 U	NS	0.049	*
			Aluminum	50.0 U	50.0 U	13.3 J	50 U	200	36000	0
			Antimony	2.0 UJ	2.0 UJ	2 U	0.096 J	6	15	0
			Arsenic	26.9	12.7	14.6	26.9	10	0.007	11.7
			Barium	80.8	73.2	74.9	74.4	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	10 UJ	10 U	3 J	10 U	NS	4.8	*
			Calcium	148000	133000	138000	145000	NS	NS	115000
	1		Copper	5.0 U	5.0 U	3 B,J	5 U	1300	1500	0
			Iron	5320	4020	4000	4810 J	300	10000	279
			Magnesium	80100	72600	75500	79700	NS	NS	43300
			Manganese	196	187	198	195	50	880	1020
			Nickel	10.0 U	10.0 U 1960 J	1.7 J 1950	10 U 2120	100 NS	730 NS	0 2890
					1060 1	1050	1170		1 1/15	1 1200
			Potassium Sodium	2740 25800	24400	25400	25100	NS	NS	45700

Table 4-1. Summary	y of Constituents Detected - October 2006 through July 2007
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			Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007		Region 9	Facilitywid
Area	Well Number	Monitoring	Element	Level	Level	Level	Level	MCL	PRG	Backgrour
		Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
oad Line 12	LL12mw-182	Unconsolidated	2,6-Dinitrotoluene	0.10 U	0.059 J	0.098 U	0.098 U	NS	36	*
			2-Nitrotoluene	0.50 U	0.48 U	0.1 J	0.49 U	NS	0.049	*
			4-Nitrotoluene	0.12 J	0.31 J	0.098 U	0.49 U	NS	0.66	*
			Aluminum	50.0 U	5.4 J	14.7 J	20.1 J	200	36000	0
			Antimony	0.069 UJ	0.34 J	2 U	2 U	6	15	0
			Arsenic	31.9	26.6	35.3	51 J	10	0.007	11.7
			Barium	92.0	94.4	85.8	79	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	10 UJ	74.4 10 U	1.4 J	3.7 J	2000 NS	4.8	0Z.1 *
			Calcium	70100	73200	83700	83200	NS	4.0 NS	115000
				70100 5 U	73200 2 J		5 U	1300	1500	0
			Copper			2.4 B,J			730	-
			Cyanide	10 U	3.5 J	10 U	10 U	200		0
			Iron	819	292	1170	1680 J	300	10000	279
			Magnesium	50500	49700	61900	65100	NS	NS	43300
			Manganese	40.5	22.3	52.6	53.8	50	880	1020
			Nickel	10.0 U	1.6 J	10 U	10 U	100	730	0
			Nitrobenzene	0.1 U	0.097 U	0.097 U	0.064 J	NS	3	*
			Potassium	7030	6140 J	3950	4100	NS	NS	2890
			Sodium	26600	29200	27300	26300	NS	NS	45700
			Zinc	7.7 UJ	4.8 UJ	6.1 J	3.8 J	5000	11000	60.9
Load Line 12 LL12mw	LL12mw-183	Unconsolidated	Aluminum	50 U	50 U	5.3 J	50 U	200	36000	0
			Antimony	0.080 UJ	0.12 J	2 U	2 U	6	15	0
			Arsenic	41.3	34.5	20.2	33.3	10	0.007	11.7
			Barium	72.1	82.3	78.4	71.8	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	10 UJ	10 U	1.9 J	2.1 J	NS	4.8	*
			Calcium	109000	110000	116000	115000	NS	NS	115000
			Copper	5.0 U	5.0 U	2.8 B,J	5 U	1300	1500	0
			Iron	1850	1220	830	1670 J	300	10000	279
			Magnesium	43900	44700	46200	46100	NS	NS	43300
			Manganese	66.7	56.9	53.4	74.1	50	880	1020
			Methoxychlor	0.1 U	0.1 U	0.012 J	0.1 U	40	180	*
			Potassium	3660	4920 J	3880	3800	NS	NS	2890
			Sodium	15500	20600	18700	17600	NS	NS	45700
			Zinc	6.2 UJ	6.3 UJ	5 J	5.3 J	5000	11000	60.9
oad Line 12	LL12mw-186	Unconsolidated	1,3,5-Trinitrobenzene	0.2 UJ 0.1 U	0.095 U	0.031 J	0.12 U	NS	11000	*
Udu LINE 12	LL12111W-100	Unconsolidated	2-nitrotoluene	0.1 U	0.045 U	0.031 J 0.1 J	0.12 U 0.6 U	NS	0.049	*
			4-4'-DDT	0.19 J	0.048 U 0.030 U	0.030 U	0.03 UJ	NS	0.049	*
										*
			alpha-BHC	0.065 J	0.030 U	0.030 U	0.03 UJ	NS	0.011	0
			Aluminum	3.6 J	50.0 U	11.6 J	6.4 J	200	36000	0
			Antimony	0.073 J	0.17 J	2 U	0.17 J	6	15	0
			Arsenic	5.7	5.0 U	5 U	5 U	10	0.007	11.7
			Barium	47.6	47.3	46.9	45	2000	2600	82.1
			beta-BHC	0.57 J	0.030 U	0.03 U	0.03 UJ	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	10 UJ	10 U	2 J	0.97 J	NS	4.8	*
			Calcium	137000	141000	139000	135000	NS	NS	115000
			Chloromethane	1.0 J	1.0 U	1.0 U	1.0 U	NS	160	*
			Cobalt	2.0 J	1.4 J	1.3 J	1.9 J	NS	730	0
			Copper	5.0 U	5.0 U	3.4 B,J	5 U	1300	1500	0
			Cyanide	10 U	8.6 J	10 U	25	200	730	0
			delta-BHC	0.0073 J	0.030 U	0.03 U	0.03 UJ	NS	NS	*
			1,2-Dichloroethane	0.46 J	1.0 U	1.0 U	1.0 U	NS	0.12	*
			dieldrin	0.0093 J	0.030 U	0.03 U	0.03 UJ	NS	0.0042	*
			Gamma-BHC	0.1 J	0.030 U	0.03 U	0.03 UJ	NS	0.052	*
			gamma-Chlordane	0.028 J	0.030 U	0.03 U	0.03 UJ	NS	0.019	*
			Heptachlor	0.0072 J	0.030 U	0.030 U	0.03 UJ	0.40	0.02	*
			Heptachlor epoxide	0.11 J	0.030 U	0.030 U	0.03 UJ	0.20	0.01	*
			Iron	2290	699	820	941 J	300	10000	279
			Magnesium	61900	65000	64100	61300	NS	NS	43300
			Magnese	373	295	287	398	50	880	1020
			Methoxychlor	0.012 J	0.1 U	0.09 J	0.1 UJ	40	180	*
			Nickel	0.012 J 2.4 J		0.09 J 3.8 J	2.5 J	100	730	0
					10.0 U					U *
			Nitrate-Nitrite	0.07 UJ	0.1 U	0.1 U	0.02 J	10000	1000	0000
				2070	1520 J	1340	1560	NS	NS	2890
			Potassium				A · · ·		A 4 1	-
			RDX	0.10 U	0.053 J	0.098 U	0.093 UJ	NS	0.61	*
			RDX Sodium	0.10 U 15700	0.053 J 16600	16200	15300	NS	NS	* 45700
			RDX	0.10 U	0.053 J					* 45700 0 60.9

			Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007		Region 9	Facilitywie
Area	Well Number	Monitoring	Element	Level	Level	Level	Level	MCL	PRG	Backgrou
		Zone	Detected	(ug/L)	(uq/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
entral Burn Pits	CBPmw-005	Unconsolidated	Antimony	0.070 UJ	0.11 J	NT	NT	(ug/L) 6	15	(ug/L) 0
	CDI IIIW-005	Unconsolidated	Anamony	21.6	24.6	NT	NT	10	0.007	11.7
			Barium	33.2	36.4	NT	NT	2000	2600	82.1
			Calcium	76500	75600	NT	NT	NS	NS	11500
			Iron	1200	1040	NT	NT	300	10000	279
			Magnesium	36500	37400	NT	NT	NS	NS	43300
			Manganese	51.9	51.7	NT	NT	50	880	1020
			Potassium	3360	4190 J	NT	NT	NS	NS	2890
			Sodium	25500	29400	NT	NT	NS	NS	45700
antral Dura Dita	000	Lineanelidated								43700
entral Burn Pits	CBPmw-006	Unconsolidated	2-Nitrotoluene	NT	NT	0.09 J	0.5 U	NS	0.049	
			Aluminum	NT	NT	25.2 J	50 U	200	36000	0
			Antimony	NT	NT	2 UJ	0.13 J	6	15	0
			Arsenic	NT	NT	9.2	11.5	10	0.007	11.7
			Barium	NT	NT	150	134	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	NT	10 UJ	2.5 J	NS	4.8	*
			Calcium	NT	NT	78800	72800	NS	NS	11500
				NT			5 U		1500	
			Copper		NT	2.4 J		1300		0
			Cyanide	NT	NT	11 J	10 U	200	730	0
			Iron	NT	NT	718	900 J	300	10000	279
			Magnesium	NT	NT	31500	29100	NS	NS	43300
			Manganese	NT	NT	71.7	56.9	50	880	1020
			Methoxychlor	NT	NT	0.028 J	0.1 UJ	40	180	*
			Nickel	NT	NT	3.2 J	1.7 J	100	730	0
			Potassium	NT	NT	1900	1740	NS	NS	2890
			Sodium	NT	NT	16400	14200	NS	NS	45700
			Zinc	NT	NT	10.7 B	5.2 J	5000	11000	60.9
entral Burn Pits	CBPmw-007	Unconsolidated	4,4'-DDT	0.013 J	0.030 U	0.03 U	0.03 U	NS	0.2	*
			Aluminum	50 U	50 U	50 U	40 J	200	36000	0
			Antimony	0.55 J	0.12 J	2 U	0.34 J	6	15	0
			Arsenic	22.3	18.8	44.9	46.8	10	0.007	11.7
			Barium	10.2	12.9	9.9 B	10	2000	2600	82.1
										82.1
			bis(2-Ethylhexyl) phthalate	10 U	10 UJ	10 U	4.3 J	NS	4.8	
			Calcium	218000	198000	265000	258000	NS	NS	11500
			Cobalt	5.0 U	5.0 U	2.2 B	2.1 J	NS	730	0
			Copper	5.0 U	2.3 J	5 U	5 U	1300	1500	0
			Iron	3520	2290	5610	5940 J	300	10000	279
			Magnesium	112000	104000	145000	141000	NS	NS	43300
			Manganese	72.0	73.6	117 J	119	50	880	10000
			Nickel				4.4 J	100	730	0
				2.0 J	10 U	3.8 B				
			Potassium	5680	5070 J	4960 J	4960	NS	NS	2890
			Sodium	111000	136000	88300	88000	NS	NS	45700
			Thallium	0.035 J	1 U	1 U	0.031 J	2	2.4	0
			Zinc	5.6 UJ	10 U	7.2 B,J	3.2 J	5000	11000	60.9
emolition Area 2	DA2mw-107	Unconsolidated	Antimony	0.35 UJ	2.0 UJ	2 U	0.34 J	6	15	0
	Drizini 107	onconsolidated	Arsenic	6.9	5.0 U	5 U	6.8	10	0.007	11.7
			Barium	32.4	32	28.8	31.9	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	10 UJ	10 UJ	10 U	5.3 J	NS	4.8	*
			Calcium	81200	80000 J	81000	84600	NS	NS	11500
			Iron	1920	876	952	1970 J	300	10000	279
		1	Magnesium	26900	29300	27300	27900	NS	NS	43300
			Manganese	170	345	347 J	198	50	880	1020
			Nickel	2.0 J	10 U	1.7 B	10 U	100	730	0
							1560 J			
			Potassium	2020	1440 J	1320 J		NS	NS	2890
		1	Sodium	9300	9810	9250	9300	NS	NS	45700
			Thallium	1.0 U	1.0 U	1 U	0.026 J	2	2.4	0
			Zinc	4.2 UJ	4.7 UJ	10.4 J	10 U	5000	11000	60.9
emolition Area 2	DA2mw-Det3	Unconsolidated	2,6-Dinitrotoluene	5 U	NT	4.6 J	NT	NS	36	*
		1	Arsenic	9.9	NT	8.6	NT	10	0.007	11.7
		1	Barium	45.6	NT	52.3	NT	2000	2600	82.1
			Calcium	80300	NT	91000	NT	NS	NS	11500
		1								
		1	Copper	5 U	NT	2.4 B	NT	1300	1500	0
			Cyanide	10 U	NT	9 B,J	NT	200	730	0
		1	Di-n-octyl phthalate	1 U	NT	1.1	NT	NS	NS	*
		1	Iron	1920	NT	1990	NT	300	10000	279
			Magnesium	29300	NT	33300	NT	NS	NS	43300
		1	Manganese	239	NT	291 J	NT	50	880	1020
		1	Nickel	10.0 U	NT	1.6 B	NT	100	730	0
		1	Potassium	2030	NT	1600 J	NT	NS	NS	2890
		1	Cardhum	11200	NT	13200	NT	NS	NS	45700
			Sodium	11200	INT	13200	111	110	113	43700

Table 4-1. Summary of Constituents Detected - October 2006 through July 2007

A		M	Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007	1401	Region 9	Facilitywid
Area	Well Number	Ŭ	Element	Level	Level	Level	Level	MCL	PRG	Backgroun
	DA2mu Data	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
emolition Area 2	DA2mw-Del4	Unconsolidated	1,1-Dichloroethene (total)	1.0 U 0.1 U	NT NT	0.3 J	NT NT	NS NS	340 0.049	*
			2-Nitrotoluene	1.2 J	NT	0.11 J 5 U	NT	6	15	0
			Antimony Barium	65.2	NT	43.7	NT	2000	2600	82.1
			Calcium	156000	NT	43.7 140000	NT	2000 NS	2800 NS	115000
				130000 5 U	NT	2.5 B	NT	1300	1500	0
			Copper HMX	2	NT	2.5 B	NT	NS	1800	0 *
			Iron	894	NT	528	NT	300	10000	279
			Magnesium	31000	NT	28700	NT	NS	NS	43300
			Magnese	1.8 J	NT	1.6 B,J	NT	50	880	1020
			Potassium	4590	NT	1470 J	NT	NS	NS	2890
			RDX	0.21	NT	0.5	NT	NS	0.61	*
			Sodium	17600	NT	3750	NT	NS	NS	45700
			Thallium	0.026 J	NT	1 U	NT	2	2	0
			Zinc	20.9 U	NT	12.1 J	NT	5000	11000	60.9
amsdell	RQLmw-007	Bedrock	Antimony	0.73 J	NT	2 UJ	NT	6	15	0
Quarry Landfill			Arsenic	53.3	NT	53.6	NT	10	0.007	0
Luarry Landini			Barium	41.6 J	NT	58.8	NT	2000	2600	256
			bis(2-Ethylhexyl) phthalate	10 U	NT	2.3 J	NT	NS	4.8	*
			Calcium	102000	NT	161000	NT	NS	NS	53100
			Cobalt	6.7	NT	8.7	NT	NS	730	0
	1		Diethyl phthalate	1.0 U	NT	0.86 B,J	NT	NS	29000	*
			Iron	15000	NT	21700 J	NT	300	10000	1430
			Magnesium	115000	NT	133000	NT	NS	NS	15000
			Manganese	1700 J	NT	2590	NT	50	880	1340
			Nickel	11.9	NT	12.5	NT	100	730	83.4
			Potassium	8310	NT	9050	NT	NS	NS	5770
			Sodium	6320	NT	9960	NT	NS	NS	51400
			Thallium	0.023 J	NT	0.029 J	NT	2	2	0
			Zinc	9.7 UJ	NT	32.4 B,J	NT	5000	11000	52.3
Ramsdell	RQLmw-008	Bedrock	1,3,5-Trinitrobenzene	0.19	NT	0.099 U	NT	NS	1100	*
Quarry Landfill			1,3-Dinitrobenzene	0.085 J	NT	0.099 U	NT	NS	3.6	*
			2,6-Dinitrotoluene	0.1 U	NT	0.27	NT	NS	36	*
			4,4'-DDE	0.0095 J	NT	0.15 UJ	NT	NS	0	*
			Aluminum	50 U	NT	29.4 J	NT	200	36000	0
			Arsenic	18.4	NT	53.3	NT	10	0.007	0
			Barium	146	NT	152	NT	2000	2600	256
			Beta-BHC	0.012 J	NT	0.15 UJ	NT	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	10 UJ	NT	1.9 J	NT	NS	4.8	*
			Calcium	64400	NT	86200	NT	NS	NS	53100
			Cobalt	2.2 J	NT	2.8	NT	NS	730	0
			Copper	5 U	NT	1.9 J	NT	1300	1500	0
			Diethyl phthalate	1 U	NT	0.83 B,J	NT	NS	29000	*
			HMX	0.88	NT	0.099 U	NT	NS	1800	*
			Iron	89600	NT	134000 J	NT	300	10000	1430
			Magnesium	62900	NT	41600	NT	NS	NS	15000
			Manganese	835	NT	930	NT	50	880	1340
			Nickel	5.7 J	NT	9.00 J	NT	100	730	83.4
			Nitrocellulose	0.5 U	NT	0.13 J	NT	NS	NS	*
			Potassium	6590	NT	5940	NT	NS	NS	5770
			Sodium	10200	NT	10900	NT	NS	NS	51400
			Tetryl	0.16	NT	0.099 U	NT	NS	360	*
			Zinc	10.8 U	NT	9.3 B,J	NT	5000	11000	52.3
Ramsdell	RQLmw-009	Bedrock	2-Nitrotoluene	0.10 U	NT	0.11 J	NT	NS	0.049	*
uarry Landfill			Arsenic	39.8	NT	40.6	NT	10	0.007	0
	1		Barium	52.9	NT	56.3	NT	2000	2600	256
	1		bis(2-Ethylhexyl) phthalate	10 U	NT	1.6 J	NT	NS	4.8	*
	1		Calcium	31600	NT	33900	NT	NS	NS	53100
			Cobalt	4.9 J	NT	7	NT	NS	730	0
	1		Diethyl phthalate	1 U	NT	0.81 B,J	NT	NS	29000	*
	1		Iron	15000	NT	21700 J	NT	300	10000	1430
			Magnesium	25200	NT	36900	NT	NS	NS	15000
			Manganese	1640	NT	2050	NT	50	880	1340
			Nickel	5.5 J	NT	5.5 J	NT	100	730	83.4
	1		PETN	No data	NT	0.88	NT	NS	NS	*
			Potassium	5750	NT	4430	NT	NS	NS	5770
	1	1	Sodium	3380	NT	4360	NT	NS	NS	51400
			Thallium Zinc	0.20 J 11.3 U	NT NT	0.079 J 7.7 B,J	NT NT	2 5000	2 11000	0 52.3

Table 4-1. Summar	y of Constituents Detected -	October 2006 through July 2007
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			Compound or	Oct 2006	Jan 2007	Apr 2007	July 2007		Region 9	Facilitywide
Area	Well Number	Monitoring	Element	Level	Level	Level	Level	MCL	PRG	Backgroun
	14/50 00/	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Winklepeck	WBGmw-006	Unconsolidated	1,3,5-Trinitrobenzene	0.44 J	0.50 U	0.5 U	0.49 U	NS	1100	Â
Burning			Aluminum	2 U	4 J	50 U	50 U	200	36000	0
Ground			Antimony	5 U 23.5	1 J 26.5	2 UJ 26.5	2 U	6 2000	15 2600	0 82.1
			Barium bis(2-Ethylhexyl) phthalate	23.5 10 U	20.5 10 UJ	20.5 10 U	25 1.1 J	2000 NS	4.8	82.1
			Calcium	64800	66000 J	68200	68100	NS	4.0 NS	115000
			Cobalt	5.0 U	5.0 U	5.0 U	1.4 J	NS	730	0
			Copper	5.0 U	5.0 U	2.2 J	5 U	1300	1500	0
			Cyanide	10 U	10 U	2.2 J 9 J	10 U	200	730	0
			Gamma-BHC	0.057	0.30 U	0.30 U	0.03 U	0.2	0.052	*
			HMX	13	13	12	12	NS	1800	*
			Iron	376	263	278	254 J	300	10000	279
			Magnesium	21400	21800	22600	22400	NS	NS	43300
			Manganese	51.7	59.2	54.6	55.3	50	880	1020
			Nickel	10 U	10 U	10 U	2.2 J	100	730	83.4
			Nitrocellulose	0.12 J	0.13 J	0.5 UJ	0.12 J	NS	NS	*
			Potassium	940 J	812 J	784 J	837 J	NS	NS	2890
			RDX	50	53	51	48	NS	0.61	*
			Sodium	5820	6200	6350	6500	NS	NS	45700
			Thallium	1.0 U	0.03 J	1 UJ	0.025 J	2	2	0
			Zinc	4.4 UJ	3.4 UJ	5.1 B,J	3.6 J	5000	11000	60.9
Winklepeck	WBGmw-007	Unconsolidated	1,1,-Dichloroethene (total)	1.0 U	1.0 U	1.0 U	0.32 J	5	2	*
Burning			2,6-Dinitrotoluene	0.010 U	0.66 J	0.1 U	0.11 U	NS	36	*
Ground			2-Nitrotoluene	0.5 U	0.54 U	0.091 J	0.54 U	NS	0.049	
			Antimony	0.69 UJ	0.37 J	2 UJ	2 U	6	15	0
			Arsenic Barium	5.0 U	5.0 U	5.0 U	4.8 J	10	0.007	11.7
			bis(2-Ethylhexyl) phthalate	34 10 UJ	19.1 10 UJ	22.3 10 UJ	36.6 2.5 J	2000 NS	2600 5	82.1
			Calcium	59900	61900 J	63700	64800	NS	5 NS	115000
			Copper	57900 5.0 U	5.0 U	2 J	5 U	1300	1500	0
			Iron	573	288	350	604 J	300	10000	279
			Magnesium	14700	14200	14900	17300	NS	NS	43300
			Manganese	74.3	41.5	46.8	118	50	880	10000
			Methylene chloride	2.0 UJ	2.0 U	0.26 B,J	2 R	NS	4.3	*
			Nitrobenzene	0.1 U	0.1 U	0.1 U	0.064 B,J	NS	3.4	*
			Nitrocellulose	0.5 U	0.5 U	0.5 U	0.14 J	NS	NS	*
			Potassium	1180	938 J	1030	1120 J	NS	NS	2890
			Sodium	3670	3400	3620	4990	NS	NS	45700
			Zinc	5.4 UJ	4.1 UJ	6 B,J	10 U	5000	11000	60.9
Winklepeck	WBGmw-009	Unconsolidated	1,3,5-Trinitrobenzene	0.32 J	0.10 U	0.1 UJ	0.099 U	NS	1100	*
Burning			Aluminum	50 U	5.8 J	2.9 J	50 U	200	36000	0
Ground			Antimony	2.0 U	0.13 J	2 UJ	0.16 J	6	15	0
			Barium	8.4 J	9.0 J	9.7 J	13	2000	2600	82.1
			Beta-BHC	0.030 U	0.030 U	0.0087 J	0.03 U	NS	0.037	*
			Calcium	31800	39000 J	46200	83300	NS	NS	115000
			Copper	5.0 U	5.0 U	2.1 J	5 U	1300	1500	0
			HMX	1.9	1.3	1.1	2	NS	1800	
			Iron	167	165	196	362 J	300	10000	279
			Magnesium	9920	11900	14300	25500	NS	NS	43300
			Manganese	33.7	40.1	52.6	106	50	880 NC	1020
			Potassium	536 J	453 U	475 J	850 J	NS	NS 0.(1	2890
			RDX	7.8	3.8	3.4	9 J	NS	0.61	45700
			Sodium	4050	3760	4060	4330	NS	NS 240	45700
			Tetryl	0.061 J	0.10 U	0.10 U	0.099 U	NS	360	(0.0
			Zinc	11.3 U	5.7 UJ	5.4 B,J	10 U	5000	11000	60.9

Notes:

NS = no standard NT = not tested

Bold = inorganic constituent detected above facility wide background levels Shaded boxes indicate organic contituent detected above the reporting limit * There are no background levels for organic constituents

Table 4-1 Summary of Constituents Detected in 2007

Data Qualifiers

Data qualifier flags are used in an effort to describe the quality of each piece of data for each constituent. These flags are letter codes appended to the numerical data. The following data qualifiers are specified in the USACE Louisville Chemistry Guidelines (LCG). For a complete explanation of qualifiers used for each constituent please refer to the Data Verification Summaries in Appendix B.

- U- The analyte was analyzed for but not detected. The numerical value preceding the U is the associated RL.
- J- The identification of the analyte is acceptable, but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision (i.e., the quantitative value is estimated). Examples include:
 - Results detected above the laboratory MDL but less than the laboratory RL.
 - MS/MSD percent recoveries outside the acceptance criteria.
 - Laboratory control sample (LCS) percent recoveries outside acceptance criteria.
- R- Data are considered to be rejected and shall not be used. This flag denotes the failure of quality control criteria such that it cannot be determined if the analyte is present or absent from the sample [e.g., the method reporting limit (MRL) verification standard was below quality control guidelines; associated sample results that were non-detect are unusable].
- UJ- This flag is a combination of the U and J qualifiers which indicate that the analyte is not present. The reported value is considered to be an estimated RL.
- B- The B flag is used for both organic and inorganic analyses when the analyte is found in the method blank or any of the field blanks. This designation overrides the Contract Laboratory Program (CLP) "B" designation when used by the laboratory as an estimated value for inorganics.

Media Units	Surface Soil mg/kg	Subsurface Soil mg/kg	Sediment mg/kg	Surface Water µg/L	Groundwater Bedrock Zone Filtered µg/L	Groundwater Bedrock Zone Unfiltered µg/L	Groundwater Unconsolidated Zone Filtered µg/L	Groundwater Unconsolidated Unfiltered µg/L
Analyte								
Cyanide	0	0	0	0	0	0	0	0
Aluminum	17700	19500	13900	3370	0	9410	0	0
Antimony	0.96	0.96	0	0	0	0	0	0
Arsenic	15.4	19.8	19.5	3.2	0	19.1	11.7	11.7
Barium	88.4	124	123	47.5	256	241	82.1	82.1
Beryllium	0.88	0.88	0.38	0	0	0	0	0
Cadmium	0	0	0	0	0	0	0	0
Calcium	15800	35500	5510	41400	53100	48200	115000	115000
Chromium	17.4	27.2	18.1	0	0	19.5	7.3	7.3
Cobalt	10.4	23.2	9.1	0	0	0	0	0
Copper	17.7	32.3	27.6	7.9	0	17	0	0
Iron	23100	35200	28200	2560	1430	21500	279	279
Lead	26.1	19.1	27.4	0	0	23	0	0
Magnesium	3030	8790	2760	10800	15000	13700	43300	43300
Manganese	1450	3030	1950	391	1340	1260	1020	1020
Mercury	0.036	0.044	0.059	0	0	0	0	0
Nickel	21.1	60.7	17.7	0	83.4	85.3	0	0
Potassium	927	3350	1950	3170	5770	6060	2890	2890
Selenium	104	105	107	0	0	0	0	0
Silver	0	0	0	0	0	0	0	0
Sodium	123	145	112	21300	51400	49700	45700	45700
Thallium	0	0.91	0.89	0	0	0	0	0
Vanadium	31.1	37.6	26.1	0	0	15.5	0	0
Zinc	61.8	93.3	532	42	52.3	193	60.9	60.9

 Table 4-2 RVAAP Facility-wide Background Criteria, (SAIC, 2001b)

Table 4-3 presents those compounds and elements detected in any of the October 2006, March 2007, May 2007, or July 2007 sampling events that exceeded Region 9 PRGs, primary MCLs, or secondary MCLs.

Sections 4.2 through 4.12 present a summary of the trends of concentrations of Chemicals of Potential Concern identified in groundwater samples collected under the FWGWMP over the last eight quarters. A Chemical of Potential Concern is defined, for this report, to be any analyte determined by the analytical laboratory to be present at a concentration greater than the respective analyte RL in at least three of the eight FWGWMP sampling events. Each of Sections 4.2 through 4.12 contains several subsections presented by group of Chemicals of Potential Concern (e.g., inorganics, semi-volatile organic compounds, explosives, etc.).

Time-trend graphs for the Chemicals of Potential Concern are presented in Appendix E. The graphs are organized by AOC. The background wells are grouped before the AOCs.

The time-trend plots include the comparative criteria of: 1) MCL, 2) PRG for tap water, and 3) background concentration (either unconsolidated or bedrock) for inorganics. It is noted that background concentrations for several inorganics are identified as "0" (i.e., not expected to be naturally present at any measurable concentration) (Table 4-3). These inorganics include cyanide, aluminum, antimony, arsenic (bedrock only), beryllium, cadmium, chromium (bedrock only), cobalt copper, lead, selenium, silver, thallium and vanadium. These criteria were calculated from data collected prior to implementation of the FWGWMP. With implementation of the FWGWMP, many of the inorganics with a "0" background criterion are found to be present at concentrations greater than the respective FWGWMP RLs. Consideration should be made for a re-evaluation of background criteria for inorganics with thought given to inclusion of the FWGWMP data.

4.2 Background Wells

Aluminum, antimony, arsenic, barium, cadmium, calcium, copper, cyanide, iron, magnesium, manganese, nickel, potassium, carbon disulfide, and bis(2-ethylhexyl)-phthalate are reported to be present at concentrations exceeding their respective RL in three or more samples from background wells. No explosive, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from background wells.

4.2.1 Inorganics

4.2.1.1 Aluminum

Aluminum is present above the RL in background wells BKGmw-004 (unconsolidated well), BKGmw-010 (bedrock well), and BKGmw-016 (unconsolidated well). The reported concentrations in all three wells show fluctuation over time without identifiable

Table 4-3 2007 FWGWMP Region 9 PRG or MCL Exceedences

			Compound or	Oct 20	Oct 2006		Jan 2007		Apr 2007		2007		Region 9
Area	Well Number	Monitoring Zone	Element Detected	Level		Level		Level		Lev		MCL	PRG
1		0		(ug/l	_)	(ug/l)	(ug/l)	(ug	/L)	(ug/L)	(ug/L)
Background Wells	BKGmw-004	Unconsolidated	2-Nitrotoluene	0.5	U	0.5	_, U	0.1	-/	0.55	U	NS	0.049
Daoliground Trono	BKGmw-005	Unconsolidated	2-Nitrotoluene	0.5	U	0.096	U	0.098	J	0.48	U	NS	0.049
		Chiconochidated	Toxaphene	0.36	J	2	U	2	IJ	2	U	3	0.061
			Iron	493	5	312	0	347	05	339	BJ	300	11000
	BKGmw-006	Bedrock	Iron	929		587		1540		1100	BJ	300	11000
	BKGIIIW-000	Beulock	Manganese	268		384	J	209		182	DJ	50	880
	DKC mu 010	Dadraali	5	10	U	10	UJ	209		2.1	-	NS	4.8
	BKGmw-010	Bedrock	bis(2-Ethylhexyl) phthalate		U		UJ				J		
			Iron	84.9		47.2		43.4		47.1	B, J	300	11000
			Manganese	509		838	J	944		79.5		50	880
	BKGmw-012	Bedrock	2-Nitrotoluene	0.5	U	0.049	U	0.098	J	0.48	U	NS	0.049
			Benzene	1.1		0.46	J	0.81	J	0.54	J	5	0.35
			Iron	425		413		469		372		300	11000
			Manganese	51.7		49.8	J	34.6		37.9		50	880
	BKGmw-013	Unconsolidated	2-Nitrotoluene	0.5	U	0.49	U	0.098	J	0.55	U	NS	0.049
			Arsenic	11.4		13.4		10.3		5	U	10	0.007
			Iron	1480		1170		1150		110	B, J	300	11000
			Manganese	391		432		434		0.98	J	50	880
	BKGmw-015	Bedrock	2-nitrotoluene	0.50	U	0.48	U	0.095	J	0.56	U	NS	0.049
			Manganese	2.4	J	25.6	J	11.3		61.4		50	880
	BKGmw-017	Unconsolidated	Arsenic	19.8		20.4		15.4		17.1		10	0.007
			Iron	2000		1800		2050		1420	B, J	300	10000
			Manganese	210		211		190		190		50	880
	BKGmw-018	Bedrock	Iron	490		273		275		248	B, J	300	10000
	BKGmw-019	Unconsolidated	Iron	659		520		540		480	J	300	10000
		Chiconochidated	Manganese	125		146		70.8		128	,		880
	BKGmw-020	Bedrock	Iron	3550		1950		2040		2510	J		880
	DRGIIIW-020	Dedrock	Manganese	829		744	J	706		652	5		880
	BKGmw-021	Unconsolidated	Iron	392		296	J	293		285	J		10000
Lood Line 4				15.9		290 82.0		293		18.4	J		880
Load Line 1	LL1mw-078	Bedrock	Manganese										
	LL1mw-080	Bedrock	beta-BHC	0.039		0.029	J	0.030	U	0.030	U	50 300 50 300 50 NS NS	0.037
			bis(2-Ethylhexyl) phthalate	10	UJ	10	U	5	J	3	J		4.8
			Iron	323		147		159	J	316	J	300	10000
			RDX	15		2.4		2.3		52		NS	0.61
	LL1mw-083	Bedrock	2,4,6-TNT	6.4		6.5		5.3		6	J	NS	2.20
			Alpha-BHC	0.030	U	0.030	U	0.011	J	0.6	U	NS	0.011
			beta-BHC	0.069		0.086	J	0.17	J	0.6	U	NS	0.037
			Manganese	395		374		427	J	394		50	880
Load Line 2	LL2mw-059	Bedrock	Iron	508		313		176		435	J	300	10000
			Manganese	514		151	J	9.5	J	259		50	880
	LL2mw-262	Bedrock	Iron	3490		188		200	J	142	J	300	10000
			Manganese	2020		259	J	281	J	266		50	880
	LL2mw-263	Bedrock	Iron	4810		4800		4160		5460	J	300	10000
			Manganese	1330		1540	J	1200	J	1370		50	880
Load Line 3	LL3mw-238	Bedrock	2,4,6-TNT	100		65	-	60	J	97	J	NS	2.2
			4-nitrotoluene	2.3	J	2.5	U	2.5	R	2.5	R	NS	0.66
			beta-BHC	0.18	J	0.17	J	1.5	R	1.5	IJ	NS	0.032
			RDX	5.1	J	4.6	J	4.8	J	6.6	J	NS	0.032
	112mm 242	Bedrock		413		4.0 5.3	J	4.8	B,J	0.0 113	J	50	880
Lead Line 4	LL3mw-242		Manganese						D''				
Load Line 4	LL4mw-198	Unconsolidated	Iron	5090		4690	1	5400		10400	J	300	10000
			Manganese	1240		1480	J	1330	J	1050		50	880
	LL4mw-199	Unconsolidated	Arsenic	11.6		4.8	J	8.9		12		10	0.007
			Iron	3180		5280	J	2460	J	3770	J	300	10000
		1	Manganese	746		1160	J	425		410		50	880

Table 4-3	2007 FWGWMP Region 9 PRG or MCL Exceedences
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			Compound or	Oct 20	06	Jan 2007		Apr 2007		July 2007			Region 9
Area	Well Number	Monitoring Zone	Element Detected	Leve	I	Level		Level		Lev	el	MCL	PRG
				(ug/L)	(ug/L)	(ug/L)	(ug/)	(ug/L)	(ug/L)
Load Line 11	LL11mw-002	Unconsolidated	Beta-BHC	0.030	U	0.030	U	0.21	В	0.013	J	NS	0.037
			Iron	596		337	J	402		2830	J	300	10000
			Manganese	534		84.8	J	277	J	500		50	880
	LL11mw-007	Unconsolidated	Arsenic	21.2		16.0		18.2		20		10	0.007
			Iron	1570		523	J	1560		1460	J	300	10000
			Manganese	211		274	J	214	J	203		50	880
Load Line 12	LL12mw-153	Unconsolidated	Arsenic	26.9		12.7		14.6		26.9		10	0.007
			Iron	5320		4020		4000		4810	J	300	10000
			Manganese	196		187	0.030 U 0.21 B 0.013 J NS 337 J 402 2830 J 300 84.8 J 277 J 500 50 16.0 18.2 20 10 523 J 1560 1460 J 300 274 J 214 J 203 50 12.7 14.6 26.9 10 4020 4000 4810 J 300 187 198 195 50 0.48 U 0.1 J 0.49 U NS 26.6 35.3 51 J 10 300 22.3 52.6 53.8 50 34.5 300 24.6 N 74.1 50 30 300 22.3 52.4 74.1 50 30 300 24.6 0.1 J 0.6. U NS </td <td>50</td> <td>880</td>	50	880				
	LL12mw-182	Unconsolidated	2-Nitrotoluene	0.50	U	0.48	U	0.1	J	0.49	U	NS	0.049
			Arsenic	31.9		26.6		35.3		51	J	10	0.007
			Iron	819		292		1170		1680	J	300	10000
			Manganese	40.5		22.3		52.6		53.8		50	880
	LL12mw-183	Unconsolidated	Arsenic	41.3		34.5		20.2		33.3		10	0.007
			Iron	1850		1220		830		1670	J	300	10000
			Manganese	66.7				53.4		74.1		50	880
	LL12mw-186	Unconsolidated	2-nitrotoluene	0.5	U	0.048	U	0.1	J	0.6	U	NS	0.049
			alpha-BHC	0.065	J	0.030	U	0.030	U	0.03	UJ		0.011
			beta-BHC	0.57	J	0.030	U	0.03	U	0.03	UJ	NS	0.037
			Heptachlor epoxide	0.11	J		U				IJ		0.01
			Iron	2290	-				-				10000
			Manganese	373							-		880
Central Burn	CBPmw-005	Unconsolidated	Arsenic	21.6									0.007
Pits			Manganese	51.9				NT		NT		50	880
	CBPmw-006	Unconsolidated	2-Nitrotoluene	NT					J		U	NS	0.049
			Iron	NT		NT		718			J	300	10000
			Manganese	NT				71.7		56.9			880
	CBPmw-007	Unconsolidated	Arsenic	22.3						46.8			0.007
			Iron	3520		2290		5610			J	300	10000
			Manganese	72.0					J				880
Demolition	DA2mw-107	Unconsolidated	Arsenic	6.9			U		U			10	0.007
Area 2	-		bis(2-Ethylhexyl) phthalate	10	IJ		UJ				J		4.8
			Iron	1920				952		1970	J		10000
			Manganese	170		345		347	J			50	880
	DA2mw-Det3	Unconsolidated	Arsenic	9.9						NT		10	0.007
			Iron	1920		NT		1990		NT		300	10000
			Manganese	239				291	J	NT			880
	DA2mw-Det4	Unconsolidated	2-Nitrotoluene	0.1	U								0.049
			Iron	894		NT		528		NT		300	10000
Ramsdell	RQLmw-007	Bedrock	Arsenic	53.3									0.007
Quarry			Iron	15000					J				10000
Landfill			Manganese	1700 J		NT		2590		NT		50	880
	RQLmw-008	Bedrock	Arsenic	18.4		NT		53.3		NT		10	0.007
			Iron	89600		NT		134000	J	NT		300	10000
			Manganese	835		NT		930	3	NT		500	880
	RQLmw-009	Bedrock	2-Nitrotoluene	0.10	U	NT		0.11	J	NT		NS	0.049
	INSELIN 000		Arsenic	39.8	5	NT		40.6	3	NT		10	0.007
	1	1		07.0		1.4.1		10.0		1		10	0.007
			Iron	15000		NT		21700	J	NT		300	10000

Table 4-3 2007 FWGWMP Region 9 PRG or MCL Exceedences

			Compound or	Oct 20	06	Jan 20	07	Apr 20	007	July 2	007		Region 9
Area	Well Number	Monitoring Zone	Element Detected			Level (ug/L)		Level (ug/L)		Level (ug/L)		MCL	PRG
												(ug/L)	(ug/L)
Winklepeck	WBGmw-006	Unconsolidated	Gamma-BHC	0.057		0.30	U	0.30	U	0.03	U	0.2	0.052
Burning			Iron	376		263		278		254	J	300	10000
Ground			Manganese	51.7		59.2		54.6		55.3		50	880
			RDX	50		53		51		48		NS	0.61
	WBGmw-007	Unconsolidated	2-Nitrotoluene	0.5	U	0.54	U	0.091	J	0.54	U	NS	0.049
			Arsenic	5.0	U	5.0	U	5.0	U	4.8	J	10	0.007
			Iron	573		288		350		604	J	300	10000
			Manganese	74.3		41.5		46.8		118		50	880
	WBGmw-009	Unconsolidated	Iron	167		165		196		362	٦	300	10000
			Manganese	33.7		40.1		52.6		106		50	880
			RDX	7.8		3.8		3.4		9	J	NS	0.61

Notes:

PRG = Prelimnary Remediation Goal

MCL = Maximum Contaminant Level

NS = no standard NT = not tested

Bold = result greater than Region 9 PRG or MCL

Data Qualifiers

U - The analyte was analyzed for but not detected. The numerical value preceding the U is the associated reporting limit.

J - The identification of the analyte is acceptable, but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision (i.e., the quantitative value is estimated). Examples include:

- Results detected above the laboratory MDL but less than the laboratory reporting limit.

- MS/MSD percent recoveries outside the acceptance criteria.

- Laboratory control sample (LCS) percent recoveries outside acceptance criteria.

R - Data are considered to be rejected and shall not be used. This flag denotes the failure of quality control criteria such that it cannot be determined if the analyte is present or absent from the sample [e.g., the method reporting limit (MRL) verification standard was below quality control guidelines; associated sample results that were non-detect are unusable].

UJ - This flag is a combination of the U and J qualifiers which indicate that the analyte is not present. The reported value is considered to be an estimated reporting limit (RL).

B - The B flag is used for both organic and inorganic analyses when the analyte is found in the method blank or any of the field blanks. This designation overrides the Contract Laboratory Program (CLP) "B" designation when used by the laboratory as an estimated value for inorganics.

trend. All reported concentrations in all three background wells are below the MCL (200 μ g/L) and the PRG (36,000 μ g/L). All reported concentrations are above the background criterion of "0."

4.2.1.2 Antimony

Antimony is present above the RL in bedrock background well BKGmw-008. The reported concentrations have declined during the FWGWMP to a concentration below the PRG (15 μ g/L) and the MCL (6 μ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the background criterion of "0."

4.2.1.3 Arsenic

Arsenic is present above the RL in unconsolidated background wells BKGmw-013 and BKGmw-017. The reported concentrations in both wells show fluctuation over time without identifiable trend. The reported concentrations in well BKGmw-013 are fluctuating around the MCL ($10 \mu g/L$) and the unconsolidated background ($11.7 \mu g/L$). The reported concentrations in well BKGmw-013 are above the PRG ($0.007 \mu g/L$). The reported concentrations in well BKGmw-017 are above the MCL, the PRG, and the unconsolidated background.

4.2.1.4 Barium

Barium is present above the RL in unconsolidated background well BKGmw-013. The reported concentrations show fluctuation over time without identifiable trend. The reported concentrations in well BKGmw-013 are fluctuating around the unconsolidated background (82.1 μ g/L). The reported concentrations are below the MCL (2,000 μ g/L) and the PRG (2,600 μ g/L).

Barium is present above the RL in bedrock background wells BKGmw-012, BKGmw-015 and BKGmw-020. The concentrations in all three wells show fluctuation over time without identifiable trend. The reported concentrations are fluctuating around the bedrock background (256 μ g/L). The reported concentrations are below the MCL and the PRG.

4.2.1.5 Cadmium

Cadmium is present above the RL in bedrock background well BKGmw-010. The reported concentrations show a significant decline between July and September 2006. This may be related to changes in analytical method or reporting limit. All reported concentrations are below the PRG (18 μ g/L). Through July 2006 the reported concentrations were at the MCL (5 μ g/L), but starting in September 2006 the concentrations are below the MCL. All reported concentrations are above the bedrock background criterion of "0."

4.2.1.6 Calcium

Calcium is present above the RL in unconsolidated background wells BKGmw-005, BKGmw-013, BKGmw-017, and BKGmw-019. The reported concentrations in all four wells show fluctuation over time. Declining trends are observed for wells BKGmw-005, BKGmw-013, and BKGmw-017. An increasing trend is observed for well BKGmw-019. All reported concentrations are below the unconsolidated background (115,000 μ g/L) for wells BKGmw-005, BKGmw-005, BKGmw-013, and BKGmw-013, and BKGmw-017. The reported concentration exceeded the unconsolidated background in well MCKmw-019 during the April 2007 sampling event. There are no MCL or PRG criteria for calcium.

Calcium is present above the RL in bedrock background wells BKGmw-006, BKGmw-018 and BKGmw-020. The reported concentrations in all three wells show fluctuation over time without identifiable trend. The reported concentrations are at or above the bedrock background criterion.

4.2.1.7 Copper

Copper is present above the RL in background wells BKGmw-004 (unconsolidated well), BKGmw-008 (bedrock well), and BKGmw-016 (unconsolidated well). The reported concentrations in all three wells show little fluctuation. All reported concentrations are below the MCL (1,300 μ g/L) and the PRG (15,000 μ g/L). All reported concentrations are above the background criterion of "0."

4.2.1.8 Cyanide

Cyanide is present above the RL in background wells BKGmw-006 (bedrock well), BKGmw-016 (unconsolidated well), and BKGmw-020 (bedrock well). The reported concentrations in all three wells show little fluctuation. All reported concentrations are below the MCL ($200 \mu g/L$) and the PRG ($730 \mu g/L$). All reported concentrations are above the background criterion of "0".

4.2.1.9 Iron

Iron is present above the RL in unconsolidated background wells BKGmw-005, BKGmw-013, BKGmw-017, BKGmw-019, and BKGmw-021. The reported concentrations in all five wells show fluctuation over time without identifiable trend. The reported concentrations fluctuate around the MCL ($300 \mu g/L$) and unconsolidated background ($279 \mu g/L$). The reported concentrations are below the PRG ($11,000 \mu g/L$).

Iron is present above the RL in bedrock background wells BKGmw-006, BKGmw-012, BKGmw-018, and BKGmw-020. The reported concentrations in all four wells show fluctuation over time without identifiable trend. Some reported concentrations in BKGmw-006 and BKGmw-020 are above the MCL. All concentrations in all wells are below the PRG and bedrock background (1,430 μ g/L).

4.2.1.10 Magnesium

Magnesium is present above the RL in unconsolidated background wells BKGmw-005, BKGmw-013, BKGmw-013, BKGmw-017, BKGmw-019 and BKGmw-021. The reported concentrations in all wells, except BKGmw-021, show fluctuation over time without identifiable trend. The reported concentrations in BKGmw-020 show a declining trend. All concentrations are below the unconsolidated background (43,300 μ g/L), except BKGmw-017 and BKGmw-021 which are fluctuating around the unconsolidated background. There is no MCL or PRG for magnesium.

Magnesium is present above the RL in bedrock background wells BKGmw-006, BKGmw-010, and BKGmw-020. The reported concentrations in all wells show fluctuation over time without identifiable trend. All reported concentrations in all wells are above the bedrock background (15,000 μ g/L).

4.2.1.11 Manganese

Manganese is present above the RL in bedrock background well BKGmw-006. The reported concentrations show a declining trend. All reported concentrations are below the bedrock background (1,020 μ g/L) and all but one result (March 2006) is below the PRG (880 μ g/L). All concentrations are above the MCL (50 μ g/L).

4.2.1.12 Potassium

Potassium is present above the RL in unconsolidated background well BKGmw-017. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are fluctuating around the unconsolidated background (2,890 μ g/L). There is no MCL or PRG for potassium.

Potassium is present above the RL in bedrock background wells BKGmw-012, BKGmw-015 and BKGmw-020. The reported concentrations in all three wells show a declining trend. All reported concentrations are below the bedrock background (5,770 μ g/L), except for the October 2006 sample from well BKGmw-012.

4.2.2 Volatile and Semi-Volatile Organic Compounds

4.2.2.1 Carbon Disulfide

Carbon disulfide is reported above the RL in bedrock wells BKGmw-012 and BKGmw-020. The reported concentrations in both wells show no fluctuation over time. All reported concentrations are below the PRG (1,000 μ g/L). All reported concentrations are above the bedrock background criterion of "0." There is no MCL for carbon disulfide.

4.2.2.2 Bis(2-ethylhexyl)phthalate

Bis(2-ethylhexyl)phthalate is reported above the RL in unconsolidated background wells BKGmw-004, BKGmw-005, BKGmw-013, BKGmw-016, BKGmw-0174, BKGmw-019, and BKGmw-021. The reported concentrations show a wide range of fluctuation without identifiable trend. The reported concentrations fluctuate above and below the PRG (4.8 μ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

There has been no bis(2-ethylhexyl)phthalate found in the laboratory blanks and/or field blanks/rinse samples associated with the detected concentrations of bis(2-ethylhexyl)phthalate in the unconsolidated background wells

4.3 Load Line 1

Aluminum, antimony, beryllium, cadmium, calcium, cobalt, copper, nickel, thallium, bis(2-ethylhexyl)phthalate, di-n-octyl phthalate, HMX, 1,3-dinitrobenzene, RDX, 1,3,5-trinitrobenzene, and 2,4,6-trinitrotoluene are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 1 wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 1 wells.

4.3.1 Inorganics

4.3.1.1 Aluminum

Aluminum is present above the RL in Load Line 1 wells LL1mw-078 and LLimw-083. The reported concentrations in both wells show small fluctuation over time without identifiable trend. All reported concentrations are below the MCL (200 μ g/L) and the PRG (36,000 μ g/L). All reported concentrations are above the background criterion of "0."

4.3.1.2 Antimony

Antimony is present above the RL in Load Line 1 well LL1mw-080. The reported concentrations have declined during the FWGWMP to below the PRG (15 μ g /L) and the MCL (6 μ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the background criterion of "0."

4.3.1.3 Beryllium

Beryllium is present above the RL in Load Line 1 well LL1mw-083. The reported concentrations have declined to below the MCL (4 μ g/L). All concentrations are below the PRG (73 μ g/L). All concentrations are above the background criterion of "0."

4.3.1.4 Cadmium

Cadmium is present above the RL in Load Line 1 well LL1mw-083. The reported concentrations show fluctuation over time with no identifiable trend. The reported concentrations are at or below the MCL (5 μ g/L) and below PRG (18 μ g/L). All concentrations are above the background criterion of "0."

4.3.1.5 Calcium

Calcium is present above the RL in Load Line 1 well LL1mw-080. The reported concentrations show fluctuation over time with no identifiable trend. Three reported concentrations are above the background (53,100 μ g/L) and five are at or below the background criterion. There are no MCL or PRG criteria for calcium.

4.3.1.6 Cobalt

Cobalt is present above the RL in Load Line 1 wells LL1mw-078 and LL1mw-083. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (730 μ g/L), but above the background criterion of "0." There is no MCL for cobalt.

4.3.1.7 Copper

Copper is present above the RL in Load Line 1 wells LL1mw-078 and LL1mw-083. The reported concentrations show minimal fluctuation over time in both wells. All reported concentrations are below the MCL (1,300 μ g/L) and the PRG (1,500 μ g/L). All reported concentrations are above the background criterion of "0."

4.3.1.8 Nickel

Nickel is present above the RL in Load Line 1 wells LL1mw-078, LL1mw-080 and LL1mw-083. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100 μ g/L), the PRG (730 μ g/L) and background concentration (83.4 μ g/L).

4.3.1.9 Thallium

Thallium is present above the RL in Load Line 1 wells LL1mw-078, LL1mw-080 and LL1mw-083. The reported concentrations fluctuate over time without identifiable trend. All reported concentrations are below the MCL ($2 \mu g/L$) and the PRG ($2.4 \mu g/L$). All reported concentrations are above the background criterion of "0."

4.3.2 Semi-Volatile Organic Compounds

4.3.2.1 Bis(2-ethylhexyl)phthalate

Bis(2-ethylhexyl)phthalate is present above the RL in Load Line 1 wells LL1mw-078, LL1mw-080 and LL1mw-083. The reported concentrations fluctuate widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG ($4.8 \mu g/L$). There is no MCL for bis(2-ethylhexyl)phthalate.

4.3.2.2 Di-n-octyl phthalate

Di-n-octyl phthalate is present above the RL in Load Line 1 well LL1mw-083. The reported concentrations show small fluctuation over time without identifiable trend. All reported concentrations are below the PRG (1,500 μ g/L). There is no MCL for di-n-octyl phthalate.

4.3.3 Explosives

4.3.3.1 HMX

HMX is present above the RL in Load Line 1 wells LL1mw-080 and LL1mw-083. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (1,800 μ g/L). There is no MCL for HMX.

4.3.3.2 1,3-Dinitrobenzene

1,3-Dinitrobenzene (m-dinitrobenzene) is above the RL in Load Line 1 well LL1mw-083. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG ($3.6 \mu g/L$). There is no MCL for 1,3-dinitrobenzene.

4.3.3.3 RDX

RDX is present above the RL in Load Line 1 wells LL1mw-080 and LL1mw-083. The reported concentrations show minimal fluctuation over time. All concentrations are below the PRG (0.61 μ g/L). There is no MCL for RDX.

4.3.3.4 1,3,5-Trinitrobenzene

1,3,5-Trinitrobenzene is present above the RL in Load Line 1 wells LL1mw-080 and LL1mw-083. The reported concentrations in both wells show minimal fluctuation over time. All concentrations are below the PRG (1,100 μ g/L). There is no MCL for 1,3,5-trinitrobenzene.

4.3.3.5 2,4,6-Trinitrotoluene

2,4,6-Trinitrotoluene is present above the RL in Load Line 1 wells LL1mw-080 and LL1mw-083. The reported concentrations in both wells show fluctuation over time without identifiable trend. All reported concentrations are at or below the PRG (2 μ g/L) in well LL1mw-080. All reported concentrations are above the PRG in well LL1mw-083. There is no MCL for 2,4,6-trinitrotoluene.

4.4 Load Line 2

Antimony, arsenic, calcium, cobalt, iron, magnesium, manganese, nickel, thallium, bis(2ethylhexyl)phthalate, HMX, 1,3-dinitrobenzene, RDX, and 1,3,5-trinitrobenzene are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 2 wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 2 wells.

4.4.1 Inorganics

4.4.1.1 Antimony

Antimony is present above the RL in Load Line 2 wells LL2-mw059, LL2mw-062, and LL2mw-063. The reported concentrations have declined during the FWGWMP to a concentration below the PRG (15 μ g/L) and the MCL (6 μ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the background criterion of "0."

4.4.1.2 Arsenic

Arsenic is present above the RL in Load Line 2 well LL2mw-263. The reported concentrations show fluctuation over time with a slight declining trend. All reported concentrations are above the MCL ($10 \mu g/L$), the PRG ($0.007 \mu g/L$) and the background criterion of "0."

4.4.1.3 Calcium

Calcium is present above the RL in Load Line 2 well LL2mw-262. The reported concentrations show fluctuation over time with a declining trend. Three reported concentrations are above the background concentration (53,100 μ g/L) and five are below the background concentration. There are no MCL or PRG criteria for calcium.

4.4.1.4 Cobalt

Cobalt is present above the RL in Load Line 2 wells LL2mw-259 and LL2mw-262, and LL2mw-263. The reported concentrations show minimal fluctuation over time. All

reported concentrations are below the PRG (730 μ g/L) but above the background criterion of "0." There is no MCL for cobalt.

4.4.1.5 Iron

Iron is present above the RL in Load Line 2 wells LL2mw-259 and LL2mw263. The reported concentrations in both wells show fluctuation over time without identifiable trend. All reported concentrations in LL2mw-263 are above the MCL ($300 \mu g/L$) and background concentration ($1,430 \mu g/L$) but all reported concentrations are below the PRG ($11,000 \mu g/L$). Reported concentrations in LL2mw-259 fluctuate around the MCL and all concentrations are below the PRG and background concentration.

4.4.1.6 Magnesium

Magnesium is present above the RL in Load Line 2 wells LL2mw-262 and LL2mw-263. The reported concentrations in all wells show fluctuation over time with a slight declining trend. All reported concentrations in well LL2mw-262 are above the bedrock background concentration (15,000 μ g/L). All reported concentrations in well LL2mw-263 are at or below the background concentration. There are no MCL or PRG criteria for magnesium.

4.4.1.7 Manganese

Manganese is present above the RL in Load Line 2 well LL2mw-263. The reported concentrations show fluctuation over time without identifiable trend. All concentrations are above the MCL (50 μ g/L) and PRG (880 μ g/L). Reported concentrations fluctuate around the background concentration (1,020 μ g/L).

4.4.1.8 Nickel

Nickel is present above the RL in Load Line 2 wells LL2mw-259, LL2mw-262 and LL2mw-263. The reported concentrations show minimal fluctuation over time without identifiable trend. All reported concentrations are below the MCL (100 μ g /L), the PRG (730 μ g/L) and background concentration (83.4 μ g/L).

4.4.1.9 Thallium

Thallium is present above the RL in Load Line 2 well LL2mw-259. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the MCL ($2 \mu g/L$) and the PRG ($2.4 \mu g/L$). All reported concentrations are above the background criterion of "0."

4.4.2 Semi-volatile Organics

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Load Line 2 wells LL2mw-059, LL2mw-062 and LL2mw-063. The reported concentrations fluctuate

widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG ($4.8 \mu g/L$). There is no MCL for bis(2-ethylhexyl)phthalate.

4.4.3 Explosives

4.4.3.1 HMX

HMX is present above the RL in Load Line 2 well LL2mw-059. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (1,800 μ g/L). There is no MCL for HMX.

4.4.3.2 1,3-Dinitrobenzene

1,3-Dinitrobenzene is present above the RL in Load Line 2 well LL2mw-059. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG ($3.6 \mu g/L$). There is no MCL for 1,3-dinitrobenzene.

4.4.3.3 RDX

RDX is present above the RL in Load Line 2 well LL2mw-059. The reported concentrations show minimal fluctuation over time. All concentrations are below the PRG (0.61 μ g/L). There is no MCL for RDX.

4.4.3.4 **1,3,5-Trinitrobenzene**

1,3,5-Trinitrobenzene is present above the RL in Load Line 2 well LL2mw-059. The reported concentrations show minimal fluctuation over time. All concentrations are below the PRG (1,100 μ g/L). There is no MCL for 1,3,5-trinitrobenzene.

4.5 Load Line 3

Aluminum, nickel, selenium, bis(2-ethylhexyl)phthalate, HMX, RDX, 1,3,5trinitrobenzene and 2,4,6-trinitrotoluene are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 3 wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 3 wells.

4.5.1 Inorganics

4.5.1.1 Aluminum

Aluminum is present above the RL in Load Line 3 wells LL3mw-238 and LL3mw-242. The reported concentrations in both wells show minimal fluctuation over time. All reported concentrations are below the MCL ($200 \mu g/L$) and the PRG ($36,000 \mu g/L$). All reported concentrations are above the background criterion of "0."

4.5.1.5 Nickel

Nickel is present above the RL in Load Line 3 wells LL2mw-238 and LL3mw-242. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100 μ g/L), the PRG (730 μ g/L) and background concentration (83.4 μ g/L).

4.5.1.2 Selenium

Selenium is present above the RL in Load Line 3 well LL3mw-238. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL ($50 \mu g/L$) and the PRG ($180 \mu g/L$). All reported concentrations are above the bedrock criterion of "0."

4.5.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Load Line 3 wells LL3mw-238 and LL3mw-242. The reported concentrations fluctuate widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG ($4.8 \mu g/L$). There is no MCL for bis(2-ethylhexyl)phthalate.

4.5.3 Explosives

4.5.3.1 HMX

HMX is present above the RL in Load Line 3 well LL3mw-238. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (1,800 μ g/L). There is no MCL for HMX.

4.5.3.2 RDX

RDX is present above the RL in Load Line 3 well LL3mw-238. The reported concentrations show fluctuation over time without identifiable trend. All concentrations are above the PRG (0.61 μ g/L). There is no MCL for RDX.

4.5.3.3 1,3,5-Trinitrobenzene

1,3,5-Trinitrobenzene is present above the RL in Load Line 3 well LL3mw-258. The reported concentrations show minimal fluctuation over time. All concentrations are below the PRG (1,100 μ g/L). There is no MCL for 1,3,5-trinitrobenzene.

4.5.3.4 2,4,6-Trinitrotoluene

2,4,6-Trinitrotoluene is present above the RL in Load Line 3 well LL3mw-238. The reported concentrations show fluctuation over time without identifiable trend. All

reported concentrations are above the PRG (2 μ g/L). There is no MCL for 2,4,6-trinitrotoluene.

4.6 Load Line 4

Aluminum, antimony, arsenic, barium, calcium, cobalt, iron, magnesium, manganese, nickel, zinc and bis(2-ethylhexyl)phthalate are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 4 wells. No VOC, explosive, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 4 wells.

4.6.1 Inorganics

4.6.1.1 Aluminum

Aluminum is present above the RL in Load Line 4 well LL4mw-198. The reported concentrations show little fluctuation over time. All reported concentrations are below the MCL ($200 \mu g/L$) and the PRG ($36,000 \mu g/L$). All reported concentrations are above the background criterion of "0."

4.6.1.2 Antimony

Antimony is present above the RL in Load Line 4 well LL4-mw198. The reported concentrations have declined during the FWGWMP to a concentration below the PRG (15 μ g/L) and the MCL (6 μ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the background criterion of "0."

4.6.1.3 Arsenic

Arsenic is present above the RL in Load Line 4 well LL4mw-199. The reported concentrations show significant fluctuation over time without identifiable trend. Reported concentrations are above the MCL ($10 \mu g/L$) in five samples and below the MCL in three samples. All reported concentrations are above the PRG ($0.007 \mu g/L$) and the bedrock criterion of "0."

4.6.1.4 Barium

Barium is present above the RL in Load Line 4 well LL4mw-199. The concentrations show small fluctuation over time without identifiable trend. The reported concentrations are fluctuating at the background concentration (256 μ g/L). The reported concentrations are below the MCL (2,000 μ g/L) and the PRG (2,600 μ g/L).

4.6.1.5 Calcium

Calcium is present above the RL in Load Line 4 well LL4mw-199. The reported concentrations show fluctuation over time with an increasing trend. Three reported concentrations are below the bedrock background (53,100 μ g/L). There are no MCL or PRG criteria for calcium.

4.6.1.6 Cobalt

Cobalt is present above the RL in Load Line 4 well LL4mw-198. The reported concentrations show small fluctuation over time without identifiable trend. All reported concentrations are below the PRG (730 μ g/L) but above the background criterion of "0." There is no MCL for cobalt.

4.6.1.7 Iron

Iron is present above the RL in Load Line 4 wells LL4mw-198 and LL4mw-199. The reported concentrations in both wells show large fluctuation over time with an increasing trend. Reported concentrations in both wells are above the MCL ($300 \mu g/L$) and bedrock background ($1,430 \mu g/L$) but below the PRG ($11,000 \mu g/L$)

4.6.1.8 Magnesium

Magnesium is present above the RL in Load Line 4 well LL4mw-199. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are above the background concentration (15,000 μ g/L). There are no MCL or PRG criteria for magnesium.

4.6.1.9 Manganese

Manganese is present above the RL in Load Line 4 wells LL4mw-198 and LL4mw-199. The reported concentrations show fluctuation over time without trend. All reported concentrations are above the MCL ($50 \mu g/L$). Reported concentrations for LL4mw-199 are below the PRG ($880 \mu g/L$) and the background concentration ($1,020 \mu g/L$). The reported concentrations for LL4mw-198 are above the PRG and background concentration.

4.6.1.10 Nickel

Nickel is present above the RL in Load Line 4 well LL4mw-199. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100 μ g/L), the PRG (730 μ g/L) and above the background criterion of "0."

4.6.1.11 Zinc

Zinc is present above the RL in Load Line 4 well LL4mw-198. The reported concentrations show minimal fluctuation over time without trend. All reported concentrations are below the MCL (5,000 μ g/L), PRG (11,000 μ g/L) and background concentration (60.9 μ g/L).

4.6.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Load Line 4 wells LL4mw-198 and LL4mw-199. The reported concentrations fluctuate widely over time without identifiable trend. In both wells the reported concentrations are above and below the PRG ($4.8 \mu g/L$). There is no MCL for bis(2-ethylhexyl)phthalate.

4.7 Load Line 11

Aluminum, antimony, arsenic, barium, cadmium, calcium, iron, magnesium, nickel, zinc, bis(2-ethylhexyl)phthalate and 1,3,5-trinitrobenzene are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 11 wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 11 wells.

4.7.1 Inorganics

4.7.1.1 Aluminum

Aluminum is present above the RL in Load Line 11 well LL11mw-002. The reported concentrations show little fluctuation over time. All reported concentrations are below the MCL (200 μ g/L) and the PRG (36,000 μ g/L). All reported concentrations are above the background criterion of "0."

4.7.1.2 Antimony

Antimony is present above the RL in Load Line 11 well LL11-mw-002. The reported concentrations have declined during the FWGWMP to below the PRG (15 μ g/L) and the MCL (6 μ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the background criterion of "0."

4.7.1.3 Arsenic

Arsenic is present above the RL in Load Line 11 well LL11mw-007. The reported concentrations show fluctuation over time with an increasing trend. Reported concentrations are above the MCL (10 μ g/L), the PRG (0.007 μ g/L) and the unconsolidated background concentration (11.7 μ g/L).

4.7.1.4 Barium

Barium is present above the RL in Load Line 11 well LL11mw-007. The reported concentrations show little fluctuation over time. The reported concentrations are fluctuating at the background concentration (256 μ g/L). The reported concentrations are below the MCL (2,000 μ g/L) and the PRG (2,600 μ g/L).

4.7.1.5 Cadmium

Cadmium is present above the RL in Load Line 11 well LL11mw-002. The reported concentrations show fluctuation over time without identifiable trend. The reported concentrations fluctuate around the MCL (5 μ g/L) and are below PRG (18 μ g/L). All concentrations are above the background criterion of "0."

4.7.1.6 Calcium

Calcium is present above the RL in Load Line 11 wells LL11mw-002 and LL11mw-007. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the background concentration (115,000 μ g/L). There are no MCL or PRG criteria for calcium.

4.7.1.7 Copper

Copper is present above the RL in Load Line 11 well LL11mw-002. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (1,300 μ g/L) and the PRG (1,500 μ g/L). All reported concentrations are above the background criterion of "0."

4.7.1.8 Iron

Iron is present above the RL in Load Line 11 wells LL11mw-002 and LL11mw-012. The reported concentrations in both wells show fluctuation over time without identifiable trend. Reported concentrations in both wells are above the MCL (300 μ g/L) and background concentration (279 μ g/L). All reported concentrations are below the PRG (11,000 μ g/L).

4.7.1.9 Magnesium

Magnesium is present above the RL in Load Line 11 wells LL11mw-002 and LL11mw-007. The reported concentrations in both wells show fluctuation over time without identifiable trend. All reported concentrations below the background concentration (43,300 μ g/L). There are no MCL or PRG criteria for magnesium.

4.7.1.10 Nickel

Nickel is present above the RL in Load Line 11 well LL11mw-002. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100 μ g/L), the PRG (730 μ g/L) and above the unconsolidated background criterion of "0."

4.7.1.11 Zinc

Zinc is present above the RL in Load Line 11 well LL11mw-002. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the MCL (5,000 μ g/L) and PRG (11,000 μ g/L). The reported concentrations fluctuate above and below the background concentration (60.9 μ g/L).

4.7.2 Semi-Volatile Organic Compounds

Only bis(2-ethylhexyl)phthalate is present above the RL in Load Line 11 wells LL11mw-002 and LL11mw-007. The reported concentrations fluctuate widely over time without identifiable trend. In both wells the reported concentrations are above and below the PRG ($4.8 \mu g/L$). There is no MCL for bis(2-ethylhexyl)phthalate.

4.7.3 Explosives

Only 1,3,5-trinitrobenzene is present above the RL in Load Line 11 well LL11mw-002. The reported concentrations show minimal fluctuation. All concentrations are below the PRG (1,100 ug/L). There is no MCL for 1,3,5-trinitrobenzene.

4.8 Load Line 12

Aluminum, antimony, arsenic, barium, calcium, cobalt, copper, cyanide, iron, magnesium, nickel, potassium, selenium, and bis(2-ethylhexyl)phthalate are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 12 wells. No VOC, explosive, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 12 wells.

4.8.1 Inorganics

4.8.1.1 Aluminum

Aluminum is present above the RL in Load Line 12 wells LL12-mw-182 and LL12mw-186. The reported concentrations show little fluctuation over time. All reported concentrations are below the MCL (200 μ g/L) and the PRG (36,000 μ g/L). All reported concentrations are above the background criterion of "0."

4.8.1.2 Antimony

Antimony is present above the RL in Load Line 12 wells LL12-mw-182 and LL12mw-186. The reported concentrations have declined during the FWGWMP to below the PRG (15 μ g/L) and the MCL (6 μ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the background criterion of "0."

4.8.1.3 Arsenic

Arsenic is present above the RL in Load Line 12 well LL12mw-153, LL12-mw-182 and LL12mw-186. The reported concentrations show wide fluctuation over time without identifiable trend. Reported concentrations are above the MCL ($10 \mu g/L$), the PRG (0.007 $\mu g/L$) and the background concentration ($11.7 \mu g/L$).

4.8.1.4 Barium

Barium is present above the RL in Load Line 12 well LL12mw-182. The reported concentrations show little fluctuation over time. The reported concentrations are fluctuating at the unconsolidated background (82.1 μ g/L). The reported concentrations are below the MCL (2,000 μ g/L) and the PRG (2,600 μ g/L).

4.8.1.5 Calcium

Calcium is present above the RL in Load Line 12 wells LL12mw-153, LL12-mw-182, LL12mw-183 and LL12mw-186. All reported concentrations show fluctuation over time without identifiable trend. Reported concentrations in LL12mw-182 are below the background concentration (115,000 μ g/L). Reported concentrations in LL2mw-153, LL12mw-183 and LL12mw-186 are above background concentration. There are no MCL or PRG criteria for calcium.

4.8.1.6 Cobalt

Cobalt is present above the RL in Load Line 12 well LL12mw-186. The reported concentrations show little fluctuation over time. All reported concentrations are below the PRG (730 μ g/L) but above the background criterion of "0." There is no MCL for cobalt.

4.8.1.7 Copper

Copper is present above the RL in Load Line 12 well LL12mw-182. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (1,300 μ g/L) and the PRG (1,500 μ g/L). All reported concentrations are above the background criterion of "0."

4.8.1.8 Cyanide

Cyanide is present above the RL in Load Line 12 well LL12mw-186. The reported concentrations show little fluctuation over time. All reported concentrations are below the MCL ($200 \mu g/L$) and the PRG ($730 \mu g/L$). All reported concentrations are above the background criterion of "0."

4.8.1.9 Iron

Iron is present above the RL in Load Line 12 wells LL12mw-153, LL12-mw-182, LL12mw-183 and LL12mw-186. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are above the MCL ($300 \mu g/L$) and background concentration ($279 \mu g/L$). All reported concentrations are below the PRG (11,000 $\mu g/L$).

4.8.1.10 Magnesium

Magnesium is present above the RL in Load Line 12 wells LL12mw-153, LL12-mw-182, LL12mw-183 and LL12mw-186. The reported concentrations in all wells show fluctuation over time without identifiable trend. All reported concentrations at or above the background concentration (43,300 μ g/L). There are no MCL or PRG criteria for magnesium.

4.8.1.11 Nickel

Nickel is present above the RL in Load Line 12 wells LL12mw-153, LL12-mw-182, and LL12mw-186. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100 μ g/L), the PRG (730 μ g/L) and above the background criterion of "0."

4.8.1.12 Potassium

Potassium is present above the RL in Load Line 12 wells LL12mw-182 and LL12mw-183. The reported concentrations show wide fluctuation over time without identifiable trend. All reported concentrations are above the background concentration (2,890 μ g/L). There is no MCL or PRG for potassium.

4.8.1.13 Selenium

Selenium is present above the RL in Load Line 12 well LL12mw-182. The reported concentrations show small fluctuation over time without identifiable trend. All reported concentrations are below the MCL ($50 \mu g/L$) and the PRG (180 ug/L). All reported concentrations are above the background criterion of "0."

4.8.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Load Line 12 wells LL12mw-153, LL12-mw-182, LL12mw-183 and LL12mw-186. The reported concentrations fluctuate widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG ($4.8 \mu g/L$). There is no MCL for bis(2-ethylhexyl)phthalate.

4.9 Central Burn Pits Area

Antimony, arsenic, barium, calcium, cobalt, iron, magnesium, nickel, potassium, sodium, thallium, and bis(2-ethylhexyl)phthalate are reported to be present at concentrations exceeding the respective RL in three or more samples from the Central Burn Pits Area. No VOC, explosive, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from the Central Burn Pits Area. Burn Pits Area wells.

4.9.1 Inorganics

4.9.1.1 Antimony

Antimony is present above the RL in Central Burn Pits Area well CBPmw-007. The reported concentrations have declined during the FWGWMP to below the PRG (15 μ g/L) and the MCL (6 μ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the background criterion of "0".

4.9.1.2 Arsenic

Arsenic is present above the RL in Central Burn Pits Area well CBPmw-007. The reported concentrations show wide fluctuation over time with an increasing trend. Reported concentrations are above the MCL ($10 \mu g/L$), the PRG ($0.007 \mu g/L$) and the background concentration ($11.7 \mu g/L$).

4.9.1.3 Calcium

Calcium is present above the RL in Central Burn Pits Area well CBPmw-007. The reported concentrations show wide fluctuation over time with an increasing trend. Reported concentrations are above the background concentration (115,000 μ g/L). There are no MCL or PRG criteria for calcium.

4.9.1.4 Cobalt

Cobalt is present above the RL in Central Burn Pits Area well CBPmw-007. The reported concentrations show little fluctuation over time. All reported concentrations are below the PRG (730 μ g/L) but above the background criterion of "0." There is no MCL for cobalt.

4.9.1.5 Iron

Iron is present above the RL in Central Burn Pits Area well CBPmw-007. The reported concentrations show significant fluctuation over time with an increasing trend. Reported concentrations are above the MCL ($300 \ \mu g/L$) and unconsolidated background ($279 \ \mu g/L$). All reported concentrations are below the PRG ($11,000 \ \mu g/L$).

4.9.1.6 Nickel

Nickel is present above the RL in Central Burn Pits Area well CBPmw-007. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100 μ g/L), the PRG (730 μ g/L) and above the background criterion of "0."

4.9.1.7 Potassium

Potassium is present above the RL in Central Burn Pits Area well CBPmw-007. The reported concentrations show fluctuation over time with a declining trend. All reported concentrations are above the background concentration (2,890 μ g/L). There is no MCL or PRG for potassium.

4.9.1.8 Sodium

Sodium is present above the RL in Central Burn Pits Area well CBPmw-007. The reported concentrations show fluctuation over time with a declining trend. All concentrations are above the background concentration (45,700 μ g/L). There are no MCL or PRG criteria for sodium.

4.9.1.9 Thallium

Thallium is present above the RL in Central Burn Pits Area well CBPmw-007. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the MCL (2 ug/L) and the PRG (2.4 μ g/L) but above the background criterion of "0."

4.9.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Central Burn Pits Area well CBPmw-007. The reported concentrations fluctuate widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG (4.8 μ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

4.10 Open Demolition Area #2

Arsenic, calcium, iron, magnesium, bis(2-ethylhexyl)phthalate HMX and RDX are reported to be present at concentrations exceeding the respective RL in three or more samples from the Open Demolition Area #2 wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Open Demolition Area #2 wells.

4.10.1 Inorganics

4.10.1.1 Arsenic

Arsenic is present above the RL in Open Demolition Area #2 wells DA2mw-107 and DA2mw-DET3. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are generally below the MCL (10 μ g/L) and the unconsolidated background (11.7 μ g/L). All reported concentrations are above the PRG (0.007 μ g/L).

4.10.1.2 Calcium

Calcium is present above the RL in Open Demolition Area #2 wells DA2mw-107, DA2mw-DET3 and DA2mw-DET4. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations in well DA2mw-DET4 are above the background concentration (115,000 μ g/L). Reported concentrations in wells DA2mw-107 and DA2mw-DET3 are below the background concentration. There are no MCL or PRG criteria for calcium.

4.10.1.3 Iron

Iron is present above the RL in Open Demolition Area #2 wells DA2mw-107 and DA2mw-DET3. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are above the MCL ($300 \mu g/L$) and unconsolidated background ($279 \mu g/L$). All reported concentrations are below the PRG ($11,000 \mu g/L$).

4.10.1.4 Magnesium

Magnesium is present above the RL in Open Demolition Area #2 wells DA2mw-107, DA2mw-DET3 and DA2mw-DET4. The reported concentrations in all wells show fluctuation over time without identifiable trend. All reported concentrations at or below the background concentration (43,300 μ g/L). There are no MCL or PRG criteria for magnesium.

4.10.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Demolition Area #2 wells DA2mw-107, DA2mw-DET3 and DA2mw-DET4. The reported concentrations fluctuate widely in all three wells over time without identifiable trend. In all wells the reported concentrations are above and below the PRG (4.8 μ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

4.10.3 Explosives

4.10.3.1 HMX

HMX is present above the RL in Open Demolition Area #2 well DA2mw-DET4. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (1,800 μ g/L). There is no MCL for HMX.

4.10.3.2 RDX

RDX is present above the RL in Open Demolition Area #2 well DA2mw-DET4. The reported concentrations show fluctuation over time without identifiable trend. All concentrations are below the PRG (0.61 μ g/L). There is no MCL for RDX.

4.11 Ramsdell Quarry Landfill

Arsenic, barium, cadmium, calcium, cobalt, iron, magnesium, manganese, nickel, potassium, thallium, bis(2-ethylhexyl)phthalate, and 1,3,5-trinitrobenzene are reported to be present at concentrations exceeding the respective RL in three or more samples from Ramsdell Quarry Landfill wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Ramsdell Quarry Landfill wells.

4.11.1 Inorganics

4.11.1.1 Arsenic

Arsenic is present above the RL in Ramsdell Quarry Landfill wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are above the MCL ($10 \mu g/L$), the PRG ($0.007 \mu g/L$) and the background criterion of "0."

4.11.1.2 Barium

Barium is present above the RL in Ramsdell Quarry Landfill well RQLmw-008. The reported concentrations show little fluctuation over time. The reported concentrations are below the MCL (2,000 μ g/L), the PRG (2,600 μ g/L) and the background concentration (256 μ g/L).

4.11.1.3 Cadmium

Cadmium is present above the RL in Ramsdell Quarry Landfill well RQLmw-008. The reported concentrations show fluctuation over time without identifiable trend. The reported concentrations are below the MCL (5 μ g/L) and the PRG (18 μ g/L) but above the background criterion of "0."

4.11.1.4 Calcium

Calcium is present above the RL in Ramsdell Quarry Landfill wells RQLmw-007 and RQLmw-008. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are above the background concentration (53,100 μ g/L). There are no MCL or PRG criteria for calcium.

4.11.1.5 Cobalt

Cobalt is present above the RL in Ramsdell Quarry Landfill wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (730 μ g/L) but above the background criterion of "0." There is no MCL for cobalt.

4.11.1.6 Iron

Iron is present above the RL in Ramsdell Quarry Landfill wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are above the MCL ($300 \mu g/L$), the PRG ($11,000 \mu g/L$) and bedrock concentration ($1,430 \mu g/L$).

4.11.1.7 Magnesium

Magnesium is present above the RL in Ramsdell Quarry Landfill wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations in all wells show wide fluctuation over time without identifiable trend. All reported concentrations are above the background concentration (15,000 μ g/L). There are no MCL or PRG criteria for magnesium.

4.11.1.8 Manganese

Manganese is present above the RL in Ramsdell Quarry Landfill wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations fluctuate widely over time without identifiable trend. Reported concentrations are above the MCL ($50 \mu g/L$), the PRG ($880 \mu g/L$) and the background concentration ($1,020 \mu g/L$).

4.11.1.9 Nickel

Nickel is present above the RL in Ramsdell Quarry Landfill wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100 μ g/L), the PRG (730 μ g/L) and background concentration (83.4 μ g/L).

4.11.1.10 Potassium

Potassium is present above the RL in Ramsdell Quarry Landfill wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations show fluctuation over time with a declining trend. Reported concentrations are at or above the bedrock background $(5,770 \mu g/L)$. There is no MCL or PRG for potassium.

4.11.1.11 Thallium

Thallium is present above the RL in Ramsdell Quarry Landfill wells RQLmw-007 and RQLmw-009. The reported concentrations fluctuate over time without identifiable trend. All reported concentrations are below the MCL (2 μ g/L) and the PRG (2.4 μ g/L) but above the bedrock criterion of "0."

4.11.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Ramsdell Quarry Landfill wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations fluctuate widely in all three wells over time without identifiable trend. In all wells the reported concentrations are above and below the PRG ($4.8 \mu g/L$). There is no MCL for bis(2-ethylhexyl)phthalate.

4.11.3 Explosives

1,3,5-Trinitrobenzene is the only explosive present above the RL in Ramsdell Quarry Landfill well RQLmw-008. The reported concentrations show minimal fluctuation. All concentrations are below the PRG (1,100 ug/L). There is no MCL for 1,3,5-trinitrobenzene.

4.12 Winklepeck Burning Grounds

Aluminum, calcium, copper, iron, magnesium, thallium, bis(2-ethylhexyl)phthalate, HMX and RDX are reported to be present at concentrations exceeding the respective RL in three or more samples from the Winklepeck Burning Grounds wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Winklepeck Burning Grounds wells.

4.12.1 Inorganics

4.12.1.1 Aluminum

Aluminum is present above the RL in Winklepeck Burning Grounds well WBGmw-009. The reported concentrations show little fluctuation over time. All reported concentrations are below the MCL ($200 \mu g/L$) and the PRG ($36,000 \mu g/L$). All reported concentrations are above the background criterion of "0."

4.12.1.2 Calcium

Calcium is present above the RL in Winklepeck Burning Grounds wells WBGmw-006 and WBGmw-007. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the background concentration (115,000 μ g/L). There are no MCL or PRG criteria for calcium.

4.12.1.3 Copper

Copper is present above the RL in Winklepeck Burning Grounds well WBGmw-009. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (1,300 μ g/L) and the PRG (1,500 μ g/L). All reported concentrations are above the background criterion of "0."

4.12.1.4 Iron

Iron is present above the RL in Winklepeck Burning Grounds wells WBGmw-007 and WBGmw-009. The reported concentrations show little fluctuation over time. Reported concentrations fluctuate around the MCL (300 ug/L) and the background concentration (274 ug/L). All reported concentrations are below the PRG (11,000 μ g/L).

4.12.1.5 Magnesium

Magnesium is present above the RL in Winklepeck Burning Grounds wells WBGmw-006 and WBGmw-007. The reported concentrations fluctuate over time without identifiable trend. All reported concentrations are below the background concentration (43,300 μ g/L). There are no MCL or PRG criteria for magnesium.

4.12.1.6 Thallium

Thallium is present above the RL in Winklepeck Burning Grounds well WBGmw-006. The reported concentrations fluctuate over time without identifiable trend. All reported concentrations are below the MCL (2 μ g/L) and the PRG (2.4 μ g/L) but above the bedrock background criterion of "0."

4.12.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Winklepeck Burning Grounds wells WBGmw-006, WBGmw-007 and WBGmw-009. The reported concentrations fluctuate widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG (4.8 μ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

4.12.3 Explosives

4.12.3.1 HMX

HMX is present above the RL in Winklepeck Burning Grounds wells WBGmw-006 and WBGmw-009. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (1,800 μ g/L). There is no MCL for HMX.

4.12.3.2 RDX

RDX is present above the RL in Winklepeck Burning Grounds wells WBGmw-006 and WBGmw-009. The reported concentrations show fluctuation over time without identifiable trend in WBGmw-009. A declining trend is evident over time inWBGmw-006.All concentrations are above the PRG (0.61 μ g/L). There is no MCL for RDX.

4.13 Assessment of Groundwater Remedial Action Effectiveness

Groundwater remedial actions have not been performed to date at RVAAP and therefore are not discussed in this report.

SECTION 5

FWGWMP ANNUAL RECOMMENDATIONS/REVIEW

5.1 FWGWMP Annual Recommendations

On October 22, 2007 the USACE submitted to the Ohio EPA the *Draft Proposal to Update the Facility-Wide Ground Water Monitoring Program* (USACE October 2007) at the Ravenna Army Ammunition Plant. This proposal presented recommendations for modifications to the FWGWMP, the Director's Final Findings and Orders, and the Conceptual Plan in Appendix F of the Findings and Orders as presented below.

Section 3.1.2.2 of the FWGWMP Plan establishes a protocol for adding and removing wells from the FWGWMP: "Future wells installed as part of individual AOC investigations conducted under the ongoing Comprehensive Environmental Response Compensation and Liability Act (CERCLA) process at RVAAP will be evaluated for incorporation into the FWGWMP upon completion of at least four quarterly groundwater sampling events to be conducted as part of the Remedial Investigation (RI) phase at each AOC. The frequency of the initial sampling events may be other than quarterly if agreed upon by the Army and Ohio EPA."

Due to budget constraints, several Remedial Investigations (RIs) have been completed at RVAAP which included less than four groundwater sampling events; indeed as noted above, 157 wells have only been sampled once. In order to move the FWGWMP forward in an efficient and timely fashion, the Army is seeking Ohio EPA concurrence for the FWGWMP Plan to be modified to remove the requirement that each well have "at least four quarterly groundwater sampling events" before it can be included in the FWGWMP. The Army is proposing to delete all current wells sampled, except the five Resource Conservation and Recovery Act (RCRA) wells (DA2mw-DET3, DA2mw-DET4, RQLmw-007, RQLmw-008, and RQLmw-009) from the FWGWMP. The 196 remaining wells would then be subjected to four quarterly sampling events each, as quickly as Army budget allows, as part of the FWGWMP. In 2008, the Army anticipates including about 75 wells in this effort. Following that, it is anticipated to be able to sample a minimum of 50 wells per quarter, so at this rate it would take approximately three to four years to cycle all of the 196 wells through the four quarters of sampling, while maintaining the semi-annual RCRA sampling activities. It is possible that additional budget may become available from money ear-marked for Long Term Monitoring (LTM); if so, the three-to-four year monitoring period could be significantly shortened, perhaps to as little as one or two years. Once all of the wells have been sampled at least four times, the Army proposes to review the data generated by that effort and propose a subset of wells that will be representative of Facility-wide conditions. That subset of wells will then be monitored as a part of a Facility-wide LTM program, in lieu of the currently planned AOC-by-AOC LTM. At AOCs (if any) where ground water remediation is required, the LTM wells would be supplemented by additional wells as required to support the remedial activities. And, of course, the five wells associated with the RCRA program will continue to be included in the monitoring program. Because of uncertainty regarding the level of FWGWMP funding that will be available over the next few years, the Army proposes to perform the additional four quarters of monitoring on the 196 wells in the order shown in Appendix G.

5.2 Background Well Issues

The specific issues related to the background wells at RVAAP include the presence of explosives and the exceedance of health/aesthetic criteria (MCLs). An additional question is related to the presence of naturally occurring elements (e.g., aluminum, copper, nickel, etc) previously establish to have a "0" background concentration in background wells. Prior to addressing the concern that background needs to be re-evaluated, it is necessary to point out that the background data are not conclusive that explosives are present. While a few explosive compounds have been reported in samples at estimated ("J") concentrations, these reports are isolated and not recurrent.

Background wells can be used to address one or both of the following: 1) define regional water-quality conditions without the effects of human activities and 2) define the quality of groundwater flowing into an area of interest (e.g., AOC) from a neighboring site that may show effects of outside actions (i.e., groundwater contaminated from other sources). The Army recognizes that there are issues associated with background water-quality data and suggests that background data require re-evaluation. This re-evaluation should include the actual quality of water in the wells and the location of the wells with respect to objective.

The Army considers the FWGWMP to be a fluid program allowing for re-evaluation and re-definition. The Army has initiated this re-evaluation with the presentation in October 2007 of the Draft Proposal to Update the Facility-Wide Ground Water Monitoring Program. The major premise of this document is that previous interpretations of the groundwater regime at RVAAP are not completely accurate. If the Ohio EPA agrees with this conclusion and the subsequent reinterpretation of groundwater flow systems, the locations and objectives of background wells can be re-considered.

Inspection of the locations of background wells in relationship to the newly interpreted groundwater flow regime (as described in the Annual Report) suggests that only wells BKGmw 005, BKGmw-006, and BKGmw-018 may be located to establish unaffected regional water-quality conditions. All other background wells may be located hydraulically down gradient from activities and practices at RVAAP that may result in measurable affects.

SECTION 6

REFERENCES

Portage Environmental, 2004. RVAAP Facility-Wide Groundwater Monitoring Program Plan.

SAIC, 2001. RVAAP Facility-Wide Sampling and Analysis Plan/Quality Assurance Project Plan.

SAIC, 2001b. Phase II Remedial Investigation report for the Winklepeck Burning Grounds at Ravenna Army Ammunition Plant, Ravenna, Ohio.

SAIC/REIMS, 2005. Table of Reported Construction Depths from REIMS Information.

SpecPro, Inc., 2005a. Facility-Wide Groundwater Monitoring Program Report on the April 2005 Sampling Event, Ravenna Training and Logistics Site / Ravenna Army Ammunition Plant, Ravenna, Ohio.

SpecPro, Inc., 2005b: Facility-Wide Groundwater Monitoring Program, Report on the July 2005 Sampling Event, Ravenna Training and Logistics Site/Ravenna Army Ammunition Plant, Ravenna, Ohio

SpecPro, Inc. 2006a. Facility-Wide Groundwater Monitoring Program, Annual Report for 2005, Ravenna Training and Logistics Site/Ravenna Army Ammunition Plant, Ravenna, Ohio

SpecPro, Inc. 2006b. Facility-Wide Groundwater Monitoring Program, Report on the March 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio

SpecPro, Inc. 2006c, Facility-Wide Groundwater Monitoring Program, Report on the May 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio

SpecPro, Inc. 2006d. (Draft) Facility-Wide Groundwater Monitoring Program, Annual Report for 2006, Ravenna Army Ammunition Plant, Ravenna, Ohio

SpecPro, Inc. 2007a. Facility-Wide Groundwater Monitoring Program, Report on the July 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio

SpecPro, Inc. 2007b. Facility-Wide Groundwater Monitoring Program, Report on the October 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio

SpecPro, Inc. 2007c. Facility- Wide Groundwater Monitoring Program, Report on the January 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio.

Environmental Quality Management, Inc. 2007d. *Facility-Wide Groundwater Monitoring Program, Report on the April 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio.*

Environmental Quality Management, Inc. 2007e. *Facility-Wide Groundwater Monitoring Program, Report on the July 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio.*

U.S. Army Corps of Engineers. October 2007. Draft Proposal to Update the Facility-Wide Ground Water Monitoring Program.

APPENDIX A REPORTING LIMITS THAT CURRENTLY DO NOT MEET THE RVAAP QAAP PQLS AND/OR REGION 9 PRGS

			Lab	RVAAP QAPP	Region 9
CAS No	Analyte Name	MDL	RL	PQL	PRG
107-06-2	1,2-Dichloroethane	0.16	1.0	1.0	0.12
71-43-2	Benzene	0.22	1.0	1.0	0.35
67-66-3	Chloroform	0.16	1.0	1.0	0.17
10061-			· · ·		-
01-5	cis-1,3-Dichloropropene	0.12	1.0	1.0	0.4
75-01-4	Vinyl chloride	0.21	1.0	1.0	0.02
	1,1,2,2-				
79-34-5	Tetrachloroethane	0.22	1.0	1.0	0.055
106-93-4	1,2-Dibromoethane	0.24	1.0	1.0	0.0056
79-01-6	Trichloroethene	0.28	1.0	1.0	0.028
127-18-4	Tetrachloroethene	0.19	1.0	1.0	0.1
75-27-4	Bromodichloromethane	0.14	1.0	1.0	0.18
79-00-5	1,1,2-Trichloroethane	0.22	1.0	1.0	0.2
124-48-1	Dibromochloromethane	0.19	1.0	1.0	0.13
10061-	trans-1,3-				
02-6	Dichloropropene	0.17	1.0	1.0	0.4
56-23-5	Carbon tetrachloride	0.19	1.0	1.0	0.17

Note: All units are ug/L

CAS No	Analyte Name	MDL	Lab RL	RVAAP QAPP PQL	Region 9 PRG
111-44-4	Bis(2-Chloroethyl) ether	0.088	1.0	10	0.01
<u>50-32-8</u>	Benzo(a)pyrene	0.048	0.20	10	0.0092
53-70-3	Dibenz(a,h)anthracene	0.039	0.20	10	0.0093
118-74-1	Hexachlorobenzene	0.065	0.20	10	0.042
205-99-2	Benzo(b)fluoranthene	0.049	0.20	10	0.092
193-39-5	Indeno(1,2,3-cd)pyrene	0.065	0.20	10	0.092
56-55-3	Benzo(a)anthracene	0.052	0.20	10	0.092
<u>91-94-1</u>	3,3'-Dichlorobenzidine	0.48	5.0	10	0.15
106-46-7	1,4-Dichlorobenzene	0.52	1.0	10	0.5
87-86-5	Pentachlorophenol	0.48	5.0	25	0.56
87-68-3	Hexachlorobutadiene	0.51	1.0	10	0.86
88-06-2	2,4,6-Trichlorophenol	1.4	5.0	10	3.6
√ote: All un	its are ug/L	- <u></u>		· · · ·	

SVOCe

<u> </u>	Pesticides				
CAS No	Analyte Name	MDL	Lab	RVAAP QAPP PQL	Region 9 PRG
60-57-1	Dieldrin	0.0067	0.030	0.05	0.0042
309-00-2	Aldrin	0.0061	0.030	0.05	0.004
1024-57-3	Heptachlor epoxide	0.0065	0.030	0.05	0.0074
319-84-6	alpha-BHC	0.0062	0.030	0.05	0.011
76-44-8	Heptachlor	0.0062	0.030	0.05	0.015
Matar All	0.070.000/	• • • • • • • • • • • • • • • • • • • •			L

Note: All units are ug/L

<u>.</u>	Explosives				
CAS No	Analyte Name	MDL	Lab RL	RVAAP QAPP PQL	Region 9 PRG
88-72-2	2-Nitrotoluene	0.1	0.48	0.2	120
99-08-1	3-Nitrotoluene	0.1	0.48	0.2	0.049
99-99-0	4-Nitrotoluene	0.1	0.48	0.2	0.66

Note: All units are ug/L

<u> </u>	CBs				
CAS No	Analyte Name	MDL	Lab RL	RVAAP QAPP PQL	Region 9 PRG
11104-28-2	PCB-1221	0.49	0.50	0.50	0.034
11141-16-5	PCB-1232	0.41	0.50	0.50	0.034
53469-21-9	PCB-1242	0.11	0.50	0.50	0.034
12672-29-6	PCB-1248	0.049	0.50	0.50	0.034
11097-69-1	PCB-1254	0.087	0.50	0.50	0.034
11096-82-5	PCB-1260	0.071	0.50	0.50	0.034

Note: All units are ug/L

	Inorganics			·	1
CAS No	Analyte Name	MDL	Lab RL	RVAAP QAPP PQL	Region 9 PRG
7440-70-2	Calcium	80	1000	100	NS
7440-23-5	Sodium	410	1000	200	NS

Notes:

NS = Not Specified These compounds will not meet the reporting limits specified in the QAPP. However, both of these chemicals have been consistently been found naturally occurring on the site at values that exceed the QAPP RLs.

APPENDIX B

WATER LEVEL MEASUREMENT FIELD SHEETS

RVAAP FACILITY-WIDE	GROUNDWATER MONITO			DBER 2007			
Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
EBG-MW126	Erie Burning Grounds	10/1/2007	1205	4.29	28.00	Hard	Heron OHO2911
EBG-MW129	Erie Burning Grounds	10/1/2007	1214	8.39	31.10	Soft	Heron OHO2911
EBG-MW125	Erie Burning Grounds	10/1/2007	1219	14.22	27.58	Hard	Heron OHO2911
EBG-MW123	Erie Burning Grounds	10/1/2007	1224	11.81	34.90	Hard	Heron OHO2911
EBG-MW124	Erie Burning Grounds	10/1/2007	1227	5.53	32.86	Soft	Heron OHO2911
RQL-MW015	Ramsdell Quarry	10/1/2007	1238	32.32	42.14	Hard	Heron OHO2911
RQL-MW016	Ramsdell Quarry	10/1/2007	1242	35.63	43.82	Hard	Heron OHO2911
RQL-MW006	Ramsdell Quarry	10/1/2007	1248	35.34	42.12	Hard	Heron OHO2911
RQL-MW017	Ramsdell Quarry	10/1/2007	1253	30.65	32.86	Hard	Heron OHO2911
RQL-MW012	Ramsdell Quarry	10/1/2007	1259	23.54	32.76	Hard	Heron OHO2911
RQL-MW011	Ramsdell Quarry	10/1/2007	1305	23.51	35.44	Hard	Heron OHO2911
RQL-MW014	Ramsdell Quarry	10/1/2007	1313	21.52	31.44	Hard	Heron OHO2911
RQL-MW013	Ramsdell Quarry	10/1/2007	1318	26.87	36.57	Hard	Heron OHO2911
RQL-MW010	Ramsdell Quarry	10/1/2007	1321	26.88	35.42	Hard	Heron OHO2911
L1-MW080	Loadline 1	10/1/2007	1341	14.30	22.48	Hard	Heron OHO2911
L1-MW085	Loadline 1	10/1/2007	1347	35.19	44.86	Soft	Heron OHO2911
L1-MW082	Loadline 1	10/1/2007	1353	31.78	41.56	Very Soft	Heron OHO2911
_L1-MW084	Loadline 1	10/1/2007	1401	31.43	38.99	Hard	Heron OHO2911

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Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
L3-MW235	Loadline 3	10/1/2007	1558	21.82	23.09	Hard	Heron OHO2911
L3-MW241	Loadline 3	10/1/2007	1609	14.97	21.60	Hard	Heron OHO2911
L12-MW186	Loadline 12	10/1/2007	1620	7.29	21.14	Hard	Heron OHO2911
L12-MW189	Loadline 12	10/1/2007	1623	7.68	19.87	Hard	Heron OHO2911
_L12-MW107	Loadline 12	10/1/2007	1630	11.13	33.79	Hard	Heron OHO2911
L12-MW245	Loadline 12	10/1/2007	1635	9.12	30.45	Hard	Heron OHO2911
L12-MW243	Loadline 12	10/1/2007	1640	9.93	25.80	Hard	Heron OHO2911
L12-MW128	Loadline 12	10/1/2007	1642	11.00	34.29	Hard	Heron OHO2911
L12-MW154	Loadline 12	10/1/2007	1649	10.40	28.74	Hard	Heron OHO2911
L12-MW153	Loadline 12	10/1/2007	1650	7.55	24.91	Hard	Heron OHO2911
L12-MW188	Loadline 12	10/1/2007	1657	7.65	22.31	Hard	Heron OHO2911
_L12-MW113	Loadline 12	10/1/2007	1700	8.12	20.43	Slightly Soft	Heron OHO2911
.L12-MW187	Loadline 12	10/1/2007	1707	11.92	29.71	Hard	Heron OHO2911
_L12-MW184	Loadline 12	10/1/2007	1715	14.27	31.20	Hard	Heron OHO2911
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RVAAP FACILITY-WIDE					Donth to	Decorintion of	Instrument/Serial
Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Number
EBG-MW127	Erie Burning Grounds	10/1/2007	1220	6.92	32.82	Hard	Heron 05769
EBG-MW130	Erie Burning Grounds	10/1/2007	1320	8.57	28.49	Hard	Heron 05769
RQL-MW007	Ramsdell Quarry	10/1/2007	1300	8.10	18.60	Hard	Heron 05769
LL1-MW078	Loadline 1	10/1/2007	1409	32.24	41.22	Hard	Heron OHO2911
LL1-MW067	Loadline 1	10/1/2007	1419	19.25	25.82	Hard	Heron OHO2911
LL2-MW262	Loadline 2	10/1/2007	1428	11.34	22.76	Hard	Heron OHO2911
LL2-MW263	Loadline 2	10/1/2007	1434	11.43	22.66	Hard	Heron OHO2911
LL2-MW264	Loadline 2	10/1/2007	1442	10.15	22.48	Hard	Heron OHO2911
LL2-MW269	Loadline 2	10/1/2007	1454	19.49	30.40	Hard	Heron OHO2911
LL2-MW270	Loadline 2	10/1/2007	1508	11.53	22.52	Hard	Heron OHO2911
LL2-MW261	Loadline 2	10/1/2007	1514	8.10	22.56	Hard	Heron OHO2911
LL3-MW240	Loadline 3	10/1/2007	1528	28.93	36.81	Hard	Heron OHO2911
LL3-MW239	Loadline 3	10/1/2007	1533	27.11	37.23	Soft	Heron OHO2911
LL3-MW238	Loadline 3	10/1/2007	1537	17.44	23.46	Hard	Heron OHO2911
_L3-MW234	Loadline 3	10/1/2007	1541	10.99	22.75	Hard	Heron OHO2911
LL3-MW233	Loadline 3	10/1/2007	1545	27.00	32.89	Soft <1"	Heron OHO2911
LL3-MW232	Loadline 3	10/1/2007	1550	23.33	39.94	Hard	Heron OHO2911

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	C	OMPREHEN	SIVE WATE	R LEVEL MEAS	UREMENTS		
RVAAP FACILITY-WIDE	GROUNDWATER MONITO	ORING PROG	RAM - OCT	OBER 2007			
Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
EBG-MW128	Erie Burning Grounds	10/1/2007	1210	9.92	28.31	Hard	Heron 05769
RQL-MW008	Ramsdell Quarry	10/1/2007	1250	7.97	18.72	Hard	Heron 05769
RQL-MW009	Ramsdell Quarry	10/1/2007	1305	6.73	18.90	Hard	Heron 05769
LL1-MW079	Loadline 1	10/1/2007	1340	32.29	41.98	Medium	Heron 05769
LL1-MW081	Loadline 1	10/1/2007	1347	32.05	42.08	Soft	Heron 05769
LL1-MW063	Loadline 1	10/1/2007	1353	27.74	30.17	Hard	Heron 05769
LL1-MW083	Loadline 1	10/1/2007	1356	33.52	41.56	Soft	Heron 05769
LL1-MW065	Loadline 1	10/1/2007	1420	14.59	23.14	Hard	Heron 05769
LL1-MW064	Loadline 1	10/1/2007	1425	3.86	21.17	Hard	Heron 05769
LL2-MW060	Loadline 2	10/1/2007	1436	10.91	20.88	Hard	Heron 05769
LL2-MW265	Loadline 2	10/1/2007	1440	10.48	24.50	Hard	Heron 05769
LL2-MW059	Loadline 2	10/1/2007	1448	13.88	21.97	Soft	Heron 05769
LL2-MW268	Loadline 2	10/1/2007	1500	16.20	29.97	Hard	Heron 05769
LL2-MW267	Loadline 2	10/1/2007	1506	13.90	22.77	Hard	Heron 05769
LL2-MW266	Loadline 2	10/1/2007	1515	14.50	22.77	Hard	Heron 05769
LL3-MW242	Loadline 3	10/1/2007	1530	18.90	22.61	Hard	Heron 05769
LL3-MW243	Loadline 3	10/1/2007	1535	18.36	26.42	Hard	Heron 05769
LL3-MW237	Loadline 3	10/1/2007	1550	19.80	25.62	Hard	Heron 05769

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Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
12-MW236	Loadline 12	10/1/2007	1555	20.13	26.68	Hard	Heron 05769
.12-MW182	Loadline 12	10/1/2007	1618	13.12	38.24	Soft	Heron 05769
_12-MW183	Loadline 12	10/1/2007	1625	14.56	36.40	Hard	Heron 05769
_12-MW088	Loadline 12	10/1/2007	1631	8.03	27.62	Hard	Heron 05769
L12-MW246	Loadline 12	10/1/2007	1632	18.41	35.12	Hard	Heron 05769
L12-MW244	Loadline 12	10/1/2007	1647	12.58	31.67	Soft	Heron 05769
L12-MW242	Loadline 12	10/1/2007	1652	11.80	29.41	Soft	Heron 05769
L12-MW185	Loadline 12	10/1/2007	1705	10.63	23.33	Hard	Heron 05769
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		COMPREHENS	SIVE WATE	R LEVEL MEAS	UREMENTS		
RVAAP FACILITY-WIDE	GROUNDWATER MONI	TORING PROG	RAM - OCT	OBER 2007			
Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
_L9-MW003	Loadline 9	10/2/2007	811	14.63	24.26	Hard	Heron OHO2911
L9-MW002	Loadline 9	10/2/2007	816	16.94	22.83	Hard	Heron OHO2911
L9-MW005	Loadline 9	10/2/2007	821	18.51	23.58	Hard	Heron OHO2911
L9-MW007	Loadline 9	10/2/2007	826	11.43	18.23	Hard	Heron OHO2911
L9-MW006	Loadline 9	10/2/2007	831	21.20	28.88	Hard	Heron OHO2911
L9-MW004	Loadline 9	10/2/2007	836	22.57	34.74	Hard	Heron OHO2911
L9-MW001	Loadline 9	10/2/2007	843	17.41	23.40	Hard	Heron OHO2911
L10-MW003	Loadline 10	10/2/2007	849	21.73	28.62	Hard	Heron OHO2911
.L10-MW001	Loadline 10	10/2/2007	852	26.21	29.66	Hard	Heron OHO2911
L10-MW002	Loadline 10	10/2/2007	857	19.42	29.87	Hard	Heron OHO2911
L10-MW005	Loadline 10	10/2/2007	901	17.55	29.31	Hard	Heron OHO2911
L10-MW006	Loadline 10	10/2/2007	905	14.87	26.58	Hard	Heron OHO2911
L10-MW004	Loadline 10	10/2/2007	909	15.22	33.64	Hard	Heron OHO2911
L5-MW002	Loadline 5	10/2/2007	919	22.48	27.60	Soft <1"	Heron OHO2911
L5-MW003	Loadline 5	10/2/2007	926	21.34	24.08	Hard	Heron OHO2911
L5-MW004	Loadline 5	10/2/2007	931	19.70	25.51	Soft <1"	Heron OHO2911
L5-MW006	Loadline 5	10/2/2007	940	21.83	27.19	Hard	Heron OHO2911
L5-MW005	Loadline 5	10/2/2007	945	23.25	29.83	Hard	Heron OHO2911

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Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
L5-MW001	Loadline 5	10/2/2007	950	21.74	27.12	Hard	Heron OHO2911
.L6-MW001	Loadline 6	10/2/2007	1002	16.37	17.72	Hard	Heron OHO2911
L6-MW003	Loadline 6	10/2/2007	1014	17.87	25.82	Slightly Soft<1"	Heron OHO2911
_L6-MW004	Loadline 6	10/2/2007	1018	18.61	24.61	Hard	Heron OHO2911
_L6-MW002	Loadline 6	10/2/2007	1022	22.72	24.59	Soft <1"	Heron OHO2911
_L6-MW005	Loadline 6	10/2/2007	1027	13.49	22.38	Soft <1"	Heron OHO2911
_L6-MW006	Loadline 6	10/2/2007	1045	16.19	17.88	Hard	Heron OHO2911
_L6-MW007	Loadline 6	10/2/2007	1100	9.21	19.44	Hard	Heron OHO2911
_L8-MW001	Loadline 8	10/2/2007	1114	13.79	27.63	Soft <1"	Heron OHO2911
_L8-MW003	Loadline 8	10/2/2007	1118	15.51	23.13	Hard	Heron OHO2911
_L8-MW002	Loadline 8	10/2/2007	1124	21.35	32.66	Hard	Heron OHO2911
_L8-MW004	Loadline 8	10/2/2007	1129	13.94	22.74	Soft <1"	Heron OHO2911
L8-MW006	Loadline 8	10/2/2007	1134	21.24	27.16	Hard	Heron OHO2911
L8-MW005	Loadline 8	10/2/2007	1138	15.79	27.26	Soft <1"	Heron OHO2911
L11-MW001	Loadline 11	10/2/2007	1201	13.71	21.61	Soft <1"	Heron OHO2911
L11-MW009	Loadline 11	10/2/2007	1206	3.87	16.88	Hard	Heron OHO2911
L11-MW008	Loadline 11	10/2/2007	1212	5.70	15.82	Hard	Heron OHO2911
L11-MW007	Loadline 11	10/2/2007	1217	16.39	25.42	Soft 1"	Heron OHO2911

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		COMPREHENS	SIVE WATE	R LEVEL MEAS	UREMENTS		
VAAP FACILITY-WIDE	GROUNDWATER MON	Date	RAM - OCTO	OBER 2007 Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
_L11-MW010	Loadline 11	10/2/2007	1222	7.82	23.53	Hard	Heron OHO2911
L11-MW003	Loadline 11	10/2/2007	1227	4.41	16.15	Hard	Heron OHO2911
L11-MW004	Loadline 11	10/2/2007	1231	4.29	16.27	Hard	Heron OHO2911
L11-MW006	Loadline 11	10/2/2007	1236	9.25	15.81	Hard	Heron OHO2911
L11-MW005	Loadline 11	10/2/2007	1243	11.64	16.51	Hard	Heron OHO2911
L11-MW002	Loadline 11	10/2/2007	1258	6.05	16.54	Hard	Heron OHO2911
L7-MW001	Loadline 7	10/2/2007	1325	22.20	33.14	Hard	Heron OHO2911
L7-MW002	Loadline 7	10/2/2007	1330	18.71	27.28	Hard	Heron OHO2911
L7-MW005	Loadline 7	10/2/2007	1336	23.79	30.44	Hard	Heron OHO2911
L7-MW006	Loadline 7	10/2/2007	1341	13.24	30.43	Hard	Heron OHO2911
L7-MW004	Loadline 7	10/2/2007	1346	16.61	32.34	Hard	Heron OHO2911
L7-MW003	Loadline 7	10/2/2007	1351	13.14	33.64	Hard	Heron OHO2911
L4-MW200	Loadline 4	10/2/2007	1425	18.39	25.38	Soft 1"	Heron OHO2911
L4-MW196	Loadline 4	10/2/2007	1430	14.12	21.92	Hard	Heron OHO2911
L4-MW197	Loadline 4	10/2/2007	1434	15.10	23.72	Soft <1"	Heron OHO2911
L4-MW195	Loadline 4	10/2/2007	1437	11.67	23.00	Hard	Heron OHO2911
L4-MW194	Loadline 4	10/2/2007	1440	10.69	23.79	Soft	Heron OHO2911
L4-MW198	Loadline 4	10/2/2007	1450	10.74	21.04	Soft 1"	Heron OHO2911

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Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
L4-MW199	Loadline 4	10/2/2007	1455	8.22	23.34	Soft 1"	Heron OHO2911
L4-MW193	Loadline 4	10/2/2007	1507	10.23	24.45	Soft 1"	Heron OHO2911
3KG-MW006	Background	10/2/2007	1554	23.18	37.64	Soft 1" to <1"	Heron OHO2911
3KG-MW018	Background	10/2/2007	1609	16.40	27.68	Soft <1"	Heron OHO2911
BKG-MW017	Background	10/2/2007	1620	21.33	36.11	Soft 1"	Heron OHO2911
BKG-MW005	Background	10/2/2007	1626	14.99	21.03	Soft <1"	Heron OHO2911
BKG-MW016	Background	10/2/2007	1634	8.10	21.28	Soft <1"	Heron OHO2911
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Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number		
CBP-MW004	Central Burn Pits	10/2/2007	820	12.32	29.80		Heron 05769		
CBP-MW005	Central Burn Pits	10/2/2007	825	13.48	27.52	Soft	Heron 05769		
CBP-MW007	Central Burn Pits	10/2/2007	830	18.15	31.86	Soft	Heron 05769		
CBP-MW003	Central Burn Pits	10/2/2007	835	14.78	30.29	Medium	Heron 05769		
CBP-MW006	Central Burn Pits	10/2/2007	845	9.32	25.43	Medium	Heron 05769		
CBP-MW008	Central Burn Pits	10/2/2007	855	17.68	28.01	Hard	Heron 05769		
CBP-MW001	Central Burn Pits	10/2/2007	900	14.67	32.84	Soft	Heron 05769		
CBP-MW002	Central Burn Pits	10/2/2007	908	11.09	32.12	Medium	Heron 05769		
WBG-MW008	Winklepeck Burning	10/2/2007	930	16.38	20.92	Hard	Heron 05769		
WBG-MW014	Winklepeck Burning	10/2/2007	940	17.90	25.09	Hard	Heron 05769		
WBG-MW007	Winklepeck Burning	10/2/2007	944	18.95	26.50	Hard	Heron 05769		
WBG-MW016	Winklepeck Burning	10/2/2007	947	18.73	25.30	Soft	Heron 05769		
WBG-MW017	Winklepeck Burning	10/2/2007	955	11.04	23.82	Hard	Heron 05769		
WBG-MW006	Winklepeck Burning	10/2/2007	1000	10.25	20.29	Hard	Heron 05769		
.NW-MW024	LF North Winklepeck	10/2/2007	1010	14.89	22.65	Hard	Heron 05769		
NW-MW027	LF North Winklepeck	10/2/2007	1015	10.14	26.96	Hard	Heron 05769		
<u>NW-MW025</u>	LF North Winklepeck	10/2/2007	1020	5.76	20.45	Hard	Heron 05769		
_NW-MW026	LF North Winklepeck	10/2/2007	1030	12.72	26.12	Hard	Heron 05769		

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Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
NBG-MW005	Winklepeck Burning	10/2/2007	1040	8.32	21.22	Hard	Heron 05769
WBG-MW010	Winklepeck Burning	10/2/2007	1045	9.78	23.50	Soft	Heron 05769
WBG-MW011	Winklepeck Burning	10/2/2007	1100	12.27	23.96	Hard	Heron 05769
WBG-MW012	Winklepeck Burning	10/2/2007	1105	24.21	31.73	Hard	Heron 05769
WBG-MW013	Winklepeck Burning	10/2/2007	1115	12.66	24.22	Hard	Heron 05769
WBG-MW015	Winklepeck Burning	10/2/2007	1130	14.83	23.62	Hard	Heron 05769
NBG-MW009	Winklepeck Burning	10/2/2007	1140	16.04	24.40	Hard	Heron 05769
BKG-MW020	Background	10/2/2007	1150	12.86	33.30	Soft	Heron 05769
BGK-MW013	Background	10/2/2007	1205	13.12	28.07	Hard	Heron 05769
CP-MW005	Cobbs Pond	10/2/2007	1210	12.56	43.27	Hard	Heron 05769
CP-MW004	Cobbs Pond	10/2/2007	1220	13.50	22.60	Hard	Heron 05769
CP-MW003	Cobbs Pond	10/2/2007	1230	3.44	17.80	Hard	Heron 05769
CP-MW001	Cobbs Pond	10/2/2007	1250	6.82	14.80	Hard	Heron 05769
CP-MW002	Cobbs Pond	10/2/2007	1330	4.45	15.08	Hard	Heron 05769
CP-MW006	Cobbs Pond	10/2/2007	1340	9.18	20.74	Hard	Heron 05769
B12-MW011	Building 1200	10/2/2007	1350	23.02	26.82	Hard	Heron 05769
B12-MW012	Building 1200	10/2/2007	1354	22.45	24.91	Hard	Heron 05769
B12-MW010	Building 1200	10/2/2007	1400	20.63	22.92	Hard	Heron 05769

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RVAAP FACILITY-WIDE	GROUNDWATER MONI		RAM - OCT	OBER 2007		· · ·	
Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
BKG-MW010	Background	10/2/2007	1407	21.25	22.07	Hard	Heron 05769
BKG-MW008	Background	10/2/2007	1420	19.20	27.48	Hard	Heron 05769
BKG-MW004	Background	10/2/2007	1425	14.79	22.32	Hard	Heron 05769
BKG-MW021	Background	10/2/2007	1432	19.67	21.47	Hard	Heron 05769
BKG-MW015	Background	10/2/2007	1445	51.53	53.12	Soft	Heron 05769
BKG-MW012	Background	10/2/2007	1455	12.28	62.27	Soft	Heron 05769
ASY-MW001	Atlas Scrap Yard	10/2/2007	1505	13.62	23.18	Hard	Heron 05769
ASY-MW001	Atlas Scrap Yard	10/2/2007	1510	16.02	23.02	Hard	Heron 05769
ASY-MW002	Atlas Scrap Yard	10/2/2007	1515	15.80	28.94	Hard	Heron 05769
ASY-MW007	Atlas Scrap Yard	10/2/2007	1520	6.09	27.73	Soft	Heron 05769
ASY-MW008	Atlas Scrap Yard	10/2/2007	1525	13.32	31.21	Hard	Heron 05769
ASY-MW010	Atlas Scrap Yard	10/2/2007	1530	15.12	28.97	Hard	Heron 05769
ASY-MW006	Atlas Scrap Yard	10/2/2007	1535	14.35	24.63	Hard	Heron 05769
ASY-MW009	Atlas Scrap Yard	10/2/2007	1540	11.55	29.86	Hard	Heron 05769
ASY-MW004	Atlas Scrap Yard	10/2/2007	1543	10.77	27.25	Hard	Heron 05769
ASY-MW005	Atlas Scrap Yard	10/2/2007	1546	14.51	23.52	Hard	Heron 05769
CBL-MW003	C Block	10/2/2007	1610	37.70	44.82	Hard	Heron 05769
CBL-MW004	C Block	10/2/2007	1620	37.40	47.12	Hard	Heron 05769

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(Signature and time)

Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
LB-MW002	C Block	10/2/2007	1625	39.03	47.39	Hard	Heron 05769
BL-MW001	C Block	10/2/2007	1620	44.53	49.79	Soft	Heron 05769
KG-MW019	Background	10/2/2007	1640	21.11	35.79	Soft	Heron 05769
· · · · · · · · · · · · · · · · · · ·							

Recorded By: A Mell 10/02/07 OA Check By: (Signature and time)

DA2-MW104 Demo Area 2 10/3/2007 825 21.70 29.35 Hard Heron 05769 DET-1B Demo Area 2 10/3/2007 830 24.75 38.61 Hard Heron 05769 DA2-MW106 Demo Area 2 10/3/2007 840 5.67 16.90 Hard Heron 05769 DA2-MW105 Demo Area 2 10/3/2007 845 3.70 16.32 Hard Heron 05769 DA2-MW100 Demo Area 2 10/3/2007 900 12.49 22.45 Hard Heron 05769 DA2-MW100 Demo Area 2 10/3/2007 1005 19.23 30.81 Hard Heron 05769 MBS-MW003 Mustard Agent Burial 10/3/2007 1005 19.23 30.81 Hard Heron 05769 MBS-MW004 Mustard Agent Burial 10/3/2007 1010 17.29 26.66 Soft Heron 05769 MBS-MW005 Mustard Agent Burial 10/3/2007 1023 18.09 31.03 Soft Heron 05769 MBS-MW002	Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
DA2-MW106 Demo Area 2 10/3/2007 840 5.67 16.90 Hard Heron 05769 DA2-MW105 Demo Area 2 10/3/2007 845 3.70 16.32 Hard Heron 05769 DA2-MW105 Demo Area 2 10/3/2007 845 3.70 16.32 Hard Heron 05769 DA2-MW110 Demo Area 2 10/3/2007 900 12.49 22.45 Hard Heron 05769 MBS-MW003 Mustard Agent Burial 10/3/2007 1005 19.23 30.81 Hard Heron 05769 MBS-MW004 Mustard Agent Burial 10/3/2007 1010 17.29 26.66 Soft Heron 05769 MBS-MW006 Mustard Agent Burial 10/3/2007 1015 17.80 28.22 Hard Heron 05769 MBS-MW001 Mustard Agent Burial 10/3/2007 1020 18.09 31.03 Soft Heron 05769 MBS-MW002 Mustard Agent Burial 10/3/2007 1023 18.35 30.12 Soft Heron 05769	DA2-MW104	Demo Area 2	10/3/2007	825	21.70	29.35	Hard	Heron 05769
DA2-MW105 Demo Area 2 10/3/2007 845 3.70 16.32 Hard Heron 05769 DA2-MW110 Demo Area 2 10/3/2007 900 12.49 22.45 Hard Heron 05769 MBS-MW003 Mustard Agent Burial 10/3/2007 1005 19.23 30.81 Hard Heron 05769 MBS-MW004 Mustard Agent Burial 10/3/2007 1010 17.29 26.66 Soft Heron 05769 MBS-MW006 Mustard Agent Burial 10/3/2007 1015 17.80 28.22 Hard Heron 05769 MBS-MW001 Mustard Agent Burial 10/3/2007 1020 18.09 31.03 Soft Heron 05769 MBS-MW005 Mustard Agent Burial 10/3/2007 1023 18.35 30.12 Soft Heron 05769 MBS-MW002 Mustard Agent Burial 10/3/2007 1027 18.52 30.44 Hard Heron 05769 NTA-MW107 NACA Test Area 10/3/2007 1038 13.30 24.44 Hard Heron 05769	DET-1B	Demo Area 2	10/3/2007	830	24.75	38.61	Hard	Heron 05769
DA2-MW110 Demo Area 2 10/3/2007 900 12.49 22.45 Hard Heron 05769 MBS-MW003 Mustard Agent Burial 10/3/2007 1005 19.23 30.81 Hard Heron 05769 MBS-MW004 Mustard Agent Burial 10/3/2007 1010 17.29 26.66 Soft Heron 05769 MBS-MW006 Mustard Agent Burial 10/3/2007 1015 17.80 28.22 Hard Heron 05769 MBS-MW001 Mustard Agent Burial 10/3/2007 1020 18.09 31.03 Soft Heron 05769 MBS-MW005 Mustard Agent Burial 10/3/2007 1020 18.09 31.03 Soft Heron 05769 MBS-MW005 Mustard Agent Burial 10/3/2007 1023 18.35 30.12 Soft Heron 05769 MBS-MW002 Mustard Agent Burial 10/3/2007 1027 18.52 30.44 Hard Heron 05769 NTA-MW107 NACA Test Area 10/3/2007 1038 13.30 24.44 Hard Heron 05769	DA2-MW106	Demo Area 2	10/3/2007	840	5.67	16.90	Hard	Heron 05769
MBS-MW003 Mustard Agent Burial 10/3/2007 1005 19.23 30.81 Hard Heron 05769 MBS-MW004 Mustard Agent Burial 10/3/2007 1010 17.29 26.66 Soft Heron 05769 MBS-MW006 Mustard Agent Burial 10/3/2007 1015 17.80 28.22 Hard Heron 05769 MBS-MW001 Mustard Agent Burial 10/3/2007 1020 18.09 31.03 Soft Heron 05769 MBS-MW005 Mustard Agent Burial 10/3/2007 1020 18.09 31.03 Soft Heron 05769 MBS-MW002 Mustard Agent Burial 10/3/2007 1023 18.35 30.12 Soft Heron 05769 MBS-MW002 Mustard Agent Burial 10/3/2007 1027 18.52 30.44 Hard Heron 05769 NTA-MW107 NACA Test Area 10/3/2007 1038 13.30 24.44 Hard Heron 05769 NTA-MW108 NACA Test Area 10/3/2007 1045 18.34 24.61 Soft Heron 05769 </td <td>DA2-MW105</td> <td>Demo Area 2</td> <td>10/3/2007</td> <td>845</td> <td>3.70</td> <td>16.32</td> <td>Hard</td> <td>Heron 05769</td>	DA2-MW105	Demo Area 2	10/3/2007	845	3.70	16.32	Hard	Heron 05769
MBS-MW004 Mustard Agent Burial 10/3/2007 1010 17.29 26.66 Soft Heron 05769 MBS-MW006 Mustard Agent Burial 10/3/2007 1015 17.80 28.22 Hard Heron 05769 MBS-MW001 Mustard Agent Burial 10/3/2007 1020 18.09 31.03 Soft Heron 05769 MBS-MW005 Mustard Agent Burial 10/3/2007 1020 18.09 31.03 Soft Heron 05769 MBS-MW005 Mustard Agent Burial 10/3/2007 1023 18.35 30.12 Soft Heron 05769 MBS-MW002 Mustard Agent Burial 10/3/2007 1027 18.52 30.44 Hard Heron 05769 NTA-MW107 NACA Test Area 10/3/2007 1038 13.30 24.44 Hard Heron 05769 NTA-MW108 NACA Test Area 10/3/2007 1045 18.34 24.61 Soft Heron 05769 NTA-MW109 NACA Test Area 10/3/2007 1050 12.73 21.01 Hard Heron 05769	DA2-MW110	Demo Area 2	10/3/2007	900	12.49	22.45	Hard	Heron 05769
MBS-MW006 Mustard Agent Burial 10/3/2007 1015 17.80 28.22 Hard Heron 05769 MBS-MW001 Mustard Agent Burial 10/3/2007 1020 18.09 31.03 Soft Heron 05769 MBS-MW005 Mustard Agent Burial 10/3/2007 1023 18.35 30.12 Soft Heron 05769 MBS-MW002 Mustard Agent Burial 10/3/2007 1027 18.52 30.44 Hard Heron 05769 NTA-MW107 NACA Test Area 10/3/2007 1038 13.30 24.44 Hard Heron 05769 NTA-MW108 NACA Test Area 10/3/2007 1045 18.34 24.61 Soft Heron 05769 NTA-MW109 NACA Test Area 10/3/2007 1050 12.73 21.01 Hard Heron 05769	MBS-MW003	Mustard Agent Burial	10/3/2007	1005	19.23	30.81	Hard	Heron 05769
MBS-MW001 Mustard Agent Burial 10/3/2007 1020 18.09 31.03 Soft Heron 05769 MBS-MW005 Mustard Agent Burial 10/3/2007 1023 18.35 30.12 Soft Heron 05769 MBS-MW002 Mustard Agent Burial 10/3/2007 1027 18.52 30.44 Hard Heron 05769 NTA-MW107 NACA Test Area 10/3/2007 1038 13.30 24.44 Hard Heron 05769 NTA-MW108 NACA Test Area 10/3/2007 1045 18.34 24.61 Soft Heron 05769 NTA-MW109 NACA Test Area 10/3/2007 1050 12.73 21.01 Hard Heron 05769	MBS-MW004	Mustard Agent Burial	10/3/2007	1010	17.29	26.66	Soft	Heron 05769
MBS-MW005 Mustard Agent Burial 10/3/2007 1023 18.35 30.12 Soft Heron 05769 MBS-MW002 Mustard Agent Burial 10/3/2007 1027 18.52 30.44 Hard Heron 05769 NTA-MW107 NACA Test Area 10/3/2007 1038 13.30 24.44 Hard Heron 05769 NTA-MW108 NACA Test Area 10/3/2007 1045 18.34 24.61 Soft Heron 05769 NTA-MW109 NACA Test Area 10/3/2007 1050 12.73 21.01 Hard Heron 05769	MBS-MW006	Mustard Agent Burial	10/3/2007	1015	17.80	28.22	Hard	Heron 05769
MBS-MW002 Mustard Agent Burial 10/3/2007 1027 18.52 30.44 Hard Heron 05769 NTA-MW107 NACA Test Area 10/3/2007 1038 13.30 24.44 Hard Heron 05769 NTA-MW108 NACA Test Area 10/3/2007 1045 18.34 24.61 Soft Heron 05769 NTA-MW109 NACA Test Area 10/3/2007 1050 12.73 21.01 Hard Heron 05769	MBS-MW001	Mustard Agent Burial	10/3/2007	1020	18.09	31.03	Soft	Heron 05769
NTA-MW107 NACA Test Area 10/3/2007 1038 13.30 24.44 Hard Heron 05769 NTA-MW108 NACA Test Area 10/3/2007 1045 18.34 24.61 Soft Heron 05769 NTA-MW109 NACA Test Area 10/3/2007 1050 12.73 21.01 Hard Heron 05769	MBS-MW005	Mustard Agent Burial	10/3/2007	1023	18.35	30.12	Soft	Heron 05769
NTA-MW108 NACA Test Area 10/3/2007 1045 18.34 24.61 Soft Heron 05769 NTA-MW109 NACA Test Area 10/3/2007 1050 12.73 21.01 Hard Heron 05769	MBS-MW002	Mustard Agent Burial	10/3/2007	1027	18.52	30.44	Hard	Heron 05769
NTA-MW109 NACA Test Area 10/3/2007 1050 12.73 21.01 Hard Heron 05769	NTA-MW107	NACA Test Area	10/3/2007	1038	13.30	24.44	Hard	Heron 05769
	NTA-MW108	NACA Test Area	10/3/2007	1045	18.34	24.61	Soft	Heron 05769
NTA-MW/110 NACA Test Area 10/3/2007 1105 15 20 29 82 Hard Heron 05769	NTA-MW109	NACA Test Area	10/3/2007	1050	12.73	21.01	Hard	Heron 05769
	NTA-MW110	NACA Test Area	10/3/2007	1105	15.20	29.82	Hard	Heron 05769

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	· ·	COMPREHENS		R LEVEL MEAS	UREMENTS		
RVAAP FACILITY-WIDE	GROUNDWATER MONIT		RAM - OCTO	OBER 2007			
Well Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
DET-2	Demo Area 2	10/3/2007	818	33.08	42.08	Soft 2"	Heron OHO2911
DET-4	Demo Area 2	10/3/2007	826	11.11	13.92	Hard	Heron OHO2911
DET-3	Demo Area 2	10/3/2007	829	9.84	16.09	Soft <1"	Heron OHO2911
DA2-MW113	Demo Area 2	10/3/2007	834	8.79	16.42	Hard	Heron OHO2911
DA2-MW112	Demo Area 2	10/3/2007	838	8.08	17.18	Hard	Heron OHO2911
DA2-MW107	Demo Area 2	10/3/2007	842	8.41	16.97	Hard	Heron OHO2911
DA2-MW111	Demo Area 2	10/3/2007	850	4.67	14.93	Soft	Heron OHO2911
DA2-MW109	Demo Area 2	10/3/2007	858	17.37	24.48	Soft 1"	Heron OHO2911
DA2-MW108	Demo Area 2	10/3/2007	918	6.67	17.29	Hard	Heron OHO2911
FBQ-MW177	Fuze & Booster Q	10/3/2007	936	15.70	24.99	Soft >1"	Heron OHO2911
FBQ-MW176	Fuze & Booster Q	10/3/2007	940	11. 11	24.12	Soft >1"	Heron OHO2911
FBQ-MW168	Fuze & Booster Q	10/3/2007	946	13.28	21.36	Soft <1'	Heron OHO2911
FBQ-MW175	Fuze & Booster Q	10/3/2007	951	18.85	25.91	Soft <1'	Heron OHO2911
FBQ-MW174	Fuze & Booster Q	10/3/2007	954	1.14	22.95	Soft 1/2"	Heron OHO2911
FBQ-MW173	Fuze & Booster Q	10/3/2007	958	43.30	51.79	Soft 1"	Heron OHO2911
FBQ-MW172	Fuze & Booster Q	10/3/2007	1007	28.14	34.53	Soft <1"	Heron OHO2911
FBQ-MW171	Fuze & Booster Q	10/3/2007	1010	20.74	31.52	Hard	Heron OHO2911
FBQ-MW170	Fuze & Booster Q	10/3/2007	1013	19.81	32.82	Hard	Heron OHO2911

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Weli Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
-BQ-MW167	Fuze & Booster Q	10/3/2007	1019	6.21	19.09	Hard	Heron OHO2911
FBQ-MW169	Fuze & Booster Q	10/3/2007	1022	8.36	18.21	Hard	Heron OHO2911
-BQ-MW166	Fuze & Booster Q	10/3/2007	1032	6.33	19.84	Hard	Heron OHO2911
NTA-MW111	NACA Test Area	10/3/2007	1042	6.55	22.18	Hard	Heron OHO2911
NTA-MW112	NACA Test Area	10/3/2007	1045	9.98	26.76	Soft <1"	Heron OHO2911
NTA-MW113	NACA Test Area	10/3/2007	1049	8.11	29.41	Soft 2"	Heron OHO2911
NTA-MW114	NACA Test Area	10/3/2007	1052	8.00	22.91	Hard	Heron OHO2911
NTA-MW115	NACA Test Area	10/3/2007	1056	16.45	25.41	Hard	Heron OHO2911
NTA-MW116	NACA Test Area	10/3/2007	1059	8.02	22.69	Hard	Heron OHO2911
NTA-MW117	NACA Test Area	10/3/2007	1104	16.56	27.61	Hard	Heron OHO2911
NTA-MW118	NACA Test Area	10/3/2007	1107	10.59	24.82	Hard	Heron OHO2911

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Ren 10/3 1200 OA Check By: An Mill 16/30/07 (Signature and time)

(Signature and time)

APPENDIX C

WELL INSPECTION SHEETS

Vell Number: <u>BKG-MW-004</u> Location/Functional Area: <u>B</u>			1	
	<u>ackgr</u>	DUNC)	
Casing Type: Steel Stainless Steel PVC	Ŭ			
Creened/Open-Hole Well Type:	_ Monito	or Interv	al Le	ength: <u>10</u>
lush-mount/Above-ground Completion:				
Reported Construction Depth:		BTOC	(cho	se one only)
INSPECTION ITEMS	<i>.</i>			
Vell-Head Completion:	YES	NO N	N/A	COMMENTS
Above-ground completion:				
Number of Guard posts at well:				
Are the posts positioned to prevent collision damage to the well?	$\left[\mathcal{X} \right]$			
Are any of the posts damaged or degraded?		$\overline{\mathcal{X}}$		······································
Is a concrete pad installed?				<u>.</u>
Is the pad cracked or deteriorated? Frost Heaving?			_	
Is steel protective casing installed?				
Does the protective casing have a weep hole?			\dashv	
Does vegetation around the well need clearing?	╞═╣			
Flush-mount completion:				Males/Nikolani ya zasatena na sangete (Mini Mini Mini Mini Mini Mini Mini Min
Is the traffic cover securely bolted to the flush-mount box?			$\mathbf{\nabla}$	
Does the well have a flush-mount box?			€ I	
Is the traffic cover cracked or broken?	╞══┥╏	╧╧	$\overline{\mathbf{H}}$	<u></u>
		╼╼╼┥┝╸		
Is the concrete apron cracked or deteriorated? Frost Heaving?			~	9919300919500000000000000000000000000000
dentification:	r √ −ı	e		
Is the well labeled with the correct number?	الِکِا	لا ل ــ		
Describe labeling: Brass plue in coment, Ma	-v king	<u>z ov</u>	\sim	casing
Security:		, 		U
Does the well have a cap or lid?				
Does the well have a weatherproof lock?				·
Does the lock secure well?				·
Does the inner casing have a water-tight cap?				
Down-hole Condition:				
Is the well casing bent, corroded, or broken (at the surface?)				<u>. </u>
Is the well casing loose, (at the surface?)				
Is a measurement point marked a the top of well casing?				
Measured depth of the well from measurement point: 22.32			Q,	20
Thickness of sediment accumulation (reported depth-present me	asureme	ent):	1	.32
Are there an obstructions in the well?		\angle		
Description of well bottom conditions (soft, far), etc.):			;	<u> </u>
nspection Date: 10-2-67 Inspected by: TOhn	1/	A MA	· · · · ·	an na manana manana manana manana na manana na manana manana manana manana manana manana manana manana manana m

1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: BILG MWOOS Location/Functional Area:	backmonnel	
Casing Type: Steel Stainless Steel PVC		
Sofreened/Open-Hole Well Type:	_ Monitor Interval Length: _ [O ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: Q ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:	emerican emerican emerican	
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box? Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
is the well labeled with the correct number?		
Describe labeling: <u>MUNT / Plathtag</u>		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 21.02	Cul -	
Thickness of sediment accumulation (reported depth-present mea	$\frac{2}{100}$ = $\frac{2}{100}$ = $\frac{1}{100}$	
Are there an obstructions in the well? Description of well bottom conditions (soft hard, etc.): $\angle l^{u}$		
L		
Inspection Date: 10-2-01 Inspected by	······	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
.		
Well Number: BKG mwoo & Location/Functional Area:	background	
Casing Type: Steel Stainless Steel	\mathcal{O} . The second se	
Screened/Open-Hole Well Type: N	Monitor Interval Length: (D ft	
Flüsh-mount/Above-ground Completion:		
Reported Construction Depth: 37.6 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion: Y	'ES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well: 5		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?	X C Cracked Fr	
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?	╼╢╤╣╞═╡╶─────╢	
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	\$19.5 A 19.9 PT & STATE OF THE	
Is the well labeled with the correct number?		
Describe labeling: Mint tag/plate		
Security:	**************************************	
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 37.64	al	
Thickness of sediment accumulation (reported depth-present measur	rement): $-\frac{\alpha \ell}{4}$, 04	
Are there an obstructions in the well?		
Description of well bottom conditions (soft) hard, etc.): $1''_{t_{\mathcal{B}}} \not\ge 1''_{t_{\mathcal{B}}}$		
Inspection Date: /0-2.07 Inspected by: Cal		
Inspection Date: 10-2.07 Inspected by:		

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	Pro 10
	background
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole-Well Type:	_ Monitor Interval Length: _ [() ft
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 27.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	หรวมและอากกระบบการกระบบการกระบบการกระบบการกระบบการกระบบการกระบบการกระบบการกระบบการกระบบการกระบบการกระบบการกระบ
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	38138774649101181176977871918697879192997979191399994449994999949991384979764999149915988995199199199499915929894999199199999
Is the well labeled with the correct number?	
Describe labeling: Brass plate in comet mar	king on casing
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	, na seren 1970 a transferent an der sin der si
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27.48	
Thickness of sediment accumulation (reported depth-present me	$\frac{1}{2}$ asurement): $\frac{1}{2}$
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
	IAA I I an
Inspection Date: <u>W-1-07</u> Inspected by: <u>Bhru</u>	Miller
	<u></u>

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Ravenna Army Ammunition	Plant
WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: <u>BKG-mw-OID</u> Location/Functional Area:	ackground
Casing Type: Steel Stainless Steel	(J
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 21.6 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X Square casing
Are any of the posts damaged or degraded?	to that is rushing
Is a concrete pad installed?	2 at the top y
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	₩, ₩ # # # # # # # # # # # # # # # # # #
Is the well labeled with the correct number?	
Describe labeling: Brass plate in cement,	marking in casim
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	มา และการสารสารสารสารสารสารสารสารสารสารสารสารสา
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	22.07
Thickness of sediment accumulation (reported depth-present me	easurement):, 47
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
	Miller
Inspection Date: 12-2-07 Inspected by: (15 hm	V V MILLEN

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Ravenna Army Ammunition	Plant
WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: <u>BKG-MW-012</u> Location/Functional Area: <u>b</u>	ackonound
Casing Type: Steel Stainless Steel	<u> </u>
CreenedyOpen-Hole Well Type:	Monitor Interval Length: $2l$ ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 623 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	Square gasing
Are any of the posts damaged or degraded?	W/rustal hindes
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	หน่งของการของการของการของการของการของการของการของการของการของการของการของการของการของการของการของการของการของก
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Marking on Casing	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 62.3	
Thickness of sediment accumulation (reported depth-present me	asurement): +,03
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	IAA: Mar
Inspection Date: 10-2-67 Inspected by: John	<u>VVIIIEV</u>
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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELLINFORMATION	4
	ackground
Casing Type: Steel Stainless Steel PVC	U
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Aboxe-ground Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 28 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X Square Casing
Are any of the posts damaged or degraded?	X D Lusting no
Is a concrete pad installed?	X Caps on poles
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	**************************************
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass plate in cemeral	soval part on casing
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing? $\sqrt{2}$	
Measured depth of the well from measurement point: 2000	
Thickness of sediment accumulation (reported depth-present means	asurement): 07
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	······································
	- IAA M.C
Inspection Date: <u>10-2-51</u> Inspected by: <u>10</u> M	VKINEN
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Hoveppa Army Ammunition 5	llont
Ravenna Army Ammunition F WELL INSPECTION CHECK	
WELL INSPECTION CHECK	
WELL INFORMATIÓN:	. 1
Well Number: BKG-MW-015 Location/Functional Area: <u></u>	ackground
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>20</u> ft
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 52.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Mar Hms on Casing	
Security:	สารกับในสารแรกเราะสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสา สารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรมสารกรรม
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $53 \cdot 12$	
Thickness of sediment accumulation (reported depth-present mea	isurement): -0.22
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.):	
Inspection Date: 10-2-07 Inspected by: Blue	Miller
inspection date. $\nu\nu - \nu t$ inspected by: <u>CIDIMU</u>	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: BKGMW016 Location/Functional Area:	ackground
Casing Type: Steel Stainless Steel	\mathbf{O}
Screened Open-Hole Well Type:	_ Monitor Interval Length: _ [/ ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 21, ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: part - plate/fags Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\partial I \partial X$	
Thickness of sediment accumulation (reported depth-present mea	asurement):
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.): $4''$	
Inspection Date: 10-2-07 Inspected by	
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Ravenna Army Ammunition WELL INSPECTION CHECK		
WELL INFORMATION:		
	ickground	
Casing Type: Steel Stainless Steel	$-\partial$	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>[0 .]</u> ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>20,10</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	X Some concrete at basics Cra	ckedshi
Is a concrete pad installed?		Stabl
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: <u>MUNT</u>		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: <u>36.1</u>		
Thickness of sediment accumulation (reported depth-present me	easurement): -, 01	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.): $1^{\prime\prime}$		
Inspection Date: 10-1-01 Inspected by:	ХНО-ФИЛОТОК (2017) 2017 2017 2017 2017 2017 2017 2017 2017	
Inspection Date: 10-1-01 Inspected by: 12		

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: BKG MW018 Location/Functional Area:	ackground
Casing Type: Steel Stainless Steel	O
Screened/Open-Hole Well Type:	Monitor Interval Length: \bigcirc ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>27.2</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
•	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: DU NA	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	аналанан тараатан тараатан жала кала кала кала кала кала кала кала
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27.6	<u> </u>
Thickness of sediment accumulation (reported depth-present mea	$O_{asurement}$: $-O_{2}$
Are there on obstructions in the well?	
Description of well bottom conditions (soft/hard, etc.): $4^{\iota \iota}$	
Inspection Date: 0-> Inspected by	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
	ickground	
Casing Type: Steel Stainless Steel	Û	
Screened Open-Hole Well Type:	_ Monitor Interval Length: <u></u>	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>36.7</u> ft BGS or	BTOC (chose one only)	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	I wan rusty high	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	\$	
Is the well labeled with the correct number?		
Describe labeling: Markings an Casing		
Security:	23 N 75 W 1999 N 19	
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:	ан налаган баш айсан айсан айсан айсан айсан айсан айсан айсан бай	
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 35.7	9~~	
Thickness of sediment accumulation (reported depth-present me	easurement): _,O]	
Are there an obstructions in the well?		
Description of well bottom conditions (50), hard, etc.):		
Inspection Date: 10-2-07 Inspected by: TB hu	Miller	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: BCB-MW-020 Location/Functional Area:	Dackground	
Casing Type: Casing Steel Stainless Steel PVC		
Screened)Open-Hole Well Type:	Monitor Interval Length: <u>LO</u> ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 33.20 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?	Z Outer casing up	
Are any of the posts damaged or degraded?	X Match normal	
Is a concrete pad installed?	X & _ posts _ '	
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: 13 Vass plate in Cement		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 30, 3	$\frac{2}{2}$	
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well? Description of well bottom conditions soft, hard, etc.):		
Inspection Date: 10-2-07 Inspected by: Tohn	Miller	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	. · · A
Well Number: BKG-MW-OMA Location/Functional Area:	ackground
Casing Type: Steel Stainless Steel PVC	
Screened/OpenHote Well Type:	Monitor Interval Length: <u>]</u> ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>20</u> 6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X Jayone Castra
Are any of the posts damaged or degraded?	with much ville
Is a concrete pad installed?	top of GSIM
Is the pad cracked or deteriorated? Frost Heaving?	X with not close
Is steel protective casing installed?	X all the way
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.47	
Thickness of sediment accumulation (reported depth-present me	easurement): - 0.87
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10 -2-57 Inspected by: 1644	Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>LLI MW-063</u> Location/Functional Area:	Loadline
Casing Type: Steel Stainless Steel	
Soreened/Open-Hole Well Type:	_ Monitor Interval Length: <u>LO</u> ft
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: <u>30 0</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	Painte peeline
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	маланан талан талан талан талан талак талар т Калар талар тала Калар талар тал
Is the well labeled with the correct number?	
Describe labeling: Spra part in cash	\
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	, kalla
Measured depth of the well from measurement point: <u></u>	L i¬
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, Kard) etc.):	· · · · · · · · · · · · · · · · · · ·
Inspection Date: Out. (, 2007 Inspected by: Tolon	Miller

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INSPECTION CHECK	
WELL INFORMATIÓN:	1.1
Well Number: <u>(1-MW-064</u> Location/Functional Area:	ad the 1
Casing Type: Steel Stainless Steel PVC	
Creened/Open-Hole Well Type:	Monitor Interval Length: <u>[]</u> ft
Flush-mount/Above-ground Completion:	·
Reported Construction Depth: <u>21.1</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: \mathcal{U}	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	A D BOUNT Declin(
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: SPVa, Da W	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 2).	
Thickness of sediment accumulation (reported depth-present me	asurement):07
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: Oct 1, 245 Inspected by: JUNN MI	he

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Ravenna Army Ammunition	Plant
WELL INSPECTION CHECH	
WELL INFORMATION:	
	radius
Well Number: <u>ILL-MW-065</u> Location/Functional Area:	baarene !
Casing Type: Steel Stainless Steel	
Screened Open-Hole Well Type:	Monitor Interval Length:
Flush-mount/Above-ground Completion:	۲۰۰۰ میں م <u>رکب اور اور اور اور اور اور اور اور اور اور</u>
Reported Construction Depth: 23, ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	· · · · ·
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Fr Deeling
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	N 22-0-000
Is the well labeled with the correct number?	
Describe labeling: Stoven OCL WX	
Security:	мания и таки манительний и таки и т
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	an a
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23,1	4
Thickness of sediment accumulation (reported depth-present me	asurement): ± 0.26
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: Oct 1,2007 Inspected by: Tohn	Miller
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WELL INFORMATION: Well Number: Ul-MW 061 Location/Functional Area: U Casing Type: Steel Steel Stainless Steel Screened/Open-Hole-Well Type:	adure 1
Casing Type: Steel Stainless Steel	adure 1
Screened/Open-Hole Well Type:	
	_ Monitor Interval Length:ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 25 6 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Daunt	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	X Replaced
Down-hole Condition:	. Land and the second
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 25.82	
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-67 Inspected by: Cal	

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Ravenna Army Ammunition WELL INSPECTION CHECK	1
WELL INFORMATIÓN:	s
Well Number: <u>LL1 - mwols</u> Location/Functional Area: <u>L</u>	adline!
Casing Type: Steel Stainless Steel 🗡 PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: $9,5$ ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>41.</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	· · · · · · · · · · · · · · · · · · ·
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	Leven Leven Leven
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Is the well labeled with the correct number?	
Describe labeling: par nt	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 41.22	
Thickness of sediment accumulation (reported depth-present me	asurement): <u>-0.12</u>
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-0 Inspected by:	

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: 11 MW-079 Location/Functional Area:	adure 1
Casing Type: Steel Stainless Steel PVC	
Screeped/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-groupd Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 42.0 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Metal place on casing	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\underline{-4}$,	<u>98</u>
Thickness of sediment accumulation (reported depth-present me	easurement): $+.02$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Vieeds partin	
Inspection Date: At 1 ⁵⁴ 2007 Inspected by: John I	VIILLY

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WELL INFORMATION: Well Number:	Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST
Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type:	
Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type:	Well Number: <u>UI-mw 80</u> Location/Functional Area: <u>Local UNL</u>
Fush-mount/Abdve-ground Completion: Reported Construction Depth: 2 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: Number of Guard posts at well: Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? X Is a concrete pad installed? X Does the protective casing installed? X Does the well have a flush-mount box? X Does the well have a flush-mount box? X Does the well have a apon cracked or broken? X Is the traffic cover secured or othorken? X Is the well labeled with the correct number? X Does the well have a cap or lid? X Does the well have a casing have a weath-right cap? X	Casing Type: Steel Stainless Steel Steel
Reported Construction Depth: 2 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Number of Guard posts at well: Are the posts positioned to prevent collision damage to the well? Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is the protective casing installed? Does the well have a flush-mount box? Does the well have a flush-mount box? Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the traffic cover cracked or broken? Is the well labeled with the correct number? Does the well have a cap or lid? Does the well have a weatherproof lock? Does the well have a cap or lid? Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Description of well bottom conditions (soft, hard, etc.):	Screeped/Open-Hole Well Type: Monitor Interval Length: ft
INSPECTION ITEMS YES NO N/A COMMENTS Above-ground completion:	Flush-mount/Above-ground/Completion:
Well-Head Completion: YES NO N/A COMMENTS Above-ground completion:	Reported Construction Depth: 22 ft BGS or BTOC (chose one only)
Above-ground completion: Number of Guard posts at well: Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Is steel protective casing installed? Does the protective casing have a weep hole? Does the well have a flush-mount box? Is the traffic cover securely bolted to the flush-mount box? Is the traffic cover securely bolted to the flush-mount box? Is the traffic cover cacked or broken? Is the vell have a flush-mount box? Is the well is abeled with the correct number? Does the well have a cap or lid? Does the well have a watherproof lock? Does the well have a watherproof lock? Does the lock secure well? Does the lock secure well? Does the lock secure well? Does the lock sec	
Number of Guard posts at well: Image: Constraint of the set of t	Well-Head Completion: YES NO N/A COMMENTS
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Does of sediment accumulation (reported depth-present measurement):	Number of Guard posts at well: Image: Constraint of the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Image: Constraint of the posts damaged or degraded? Are any of the posts damaged or degraded? Image: Constraint of the posts damaged or degraded? Is a concrete pad installed? Image: Constraint of the posts damaged or degraded? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Image: Constraint of the protective casing have a weep hole? Does the protective casing have a weep hole? Image: Constraint of the well need clearing? Does vegetation around the well need clearing? Image: Constraint of the well need clearing? Flush-mount completion: Image: Constraint of the flush-mount box? Does the well have a flush-mount box? Image: Constraint of the protective case or broken? Is the traffic cover cracked or broken? Image: Constraint of the protective? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Image: Constraint of the protect number?
Inspection Date: 10-1-01 Inspected by: Cal	Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Does of sediment accumulation (reported depth-present measurement):
	Inspection Date: 10-1-07 Inspected by: Cal

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:	ad)	
Well Number: <u>LL1, MW-08</u> Location/Functional Area: <u>L</u>	Xel Une!	
Casing Type: Keel Stainless Steel PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 9.5 ft	
Flush-mount/Above ground Completion:	·	
Reported Construction Depth: <u>41.9</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well: 3		
Are the posts positioned to prevent collision damage to the well?	X	
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Spra pame on casing		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 420°		
Thickness of sediment accumulation (reported depth-present me	asurement):18	
Are there an obstructions in the well?		
Description of well bottom conditions (soft) hard, etc.):		
Inspection Date: Cest 1, 2017 Inspected by: Jum	M. Ner	
inspection bates. Con 1 6-1 more by. S-100.1	· · · · · · · · · · · · · · · · · · ·	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>UI-mwoor</u> Location/Functional Area: <u>U</u>	adline I
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 9.5 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 41.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: 3 Number of Guard posts at well: 3 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification: Is the well labeled with the correct number? Describe labeling: <u>painted</u>	
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: <u>41.56</u> Thickness of sediment accumulation (reported depth-present measurement point) Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.): <u>V.50ff</u>	$\begin{array}{c c} \hline & & \\ \hline \\ \hline$
Inspection Date: 10-1-67 Inspected by: 0	

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WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>LI MW-083</u> Location/Functional Area: <u>WadLine</u>	. <u></u>
Casing Type: Steel Stainless Steel PVC	-
Screened/Open-Hole Well Type: Monitor Interval Length: 9,5) ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 41.7 ft BGS or BTOC (chose one only)	
INSPECTION ITEMS	
Well-Head Completion: YES NO N/A COMMEN	TS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	TO LEGALACE MARKED PARTY AND
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Is the well labeled with the correct number?	
Describe labeling: Metal plate on casin	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $217,36$	ar shar vadi v shidiya ami'
Thickness of sediment accumulation (reported depth-present measurement): +, 14	·
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.):	<u>.</u>
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Inspection Date: Oct 1,2007 Inspected by: 16/00 UNITED	

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Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATIÓN:	
Well Number: UI mwosy Location/Functional Area: L	oad Line 1
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>39.3</u> ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Are the posts positioned to prevent collision damage to the well?	′ ┢╧┥┝═┥┝─────│
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>39,9</u>	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.): <u>HAR</u>	
Inspection Date: 12-1-0.7 Inspected by Old	ARO
Inspection Date: 10-1-07 Inspected by Olle	a la
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South Street

Ravenna Army Ammunition WELL INSPECTION CHECK	
WEEL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: <u>UI-mw085</u> Location/Functional Area: <u>Lo</u>	adure 1
Casing Type: Steel Stainless Steel PVC	
screened/Open-Hole Well Type:	Monitor Interval Length: $9, 4$ ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>44.7</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	,
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: <u>4</u>	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	Construction are
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	**************************************
Is the well labeled with the correct number?	
Describe labeling: pay ned	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 44.86	Col 1
Thickness of sediment accumulation (reported depth-present me	easurement): ±3,8416
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.): $5 + \frac{1}{2} + $	
	San
Inspection Date: 0-1-01 Inspected by: (a)	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>LL2-MW-059</u> Location/Functional Area: L	poline 2
Casing Type:	
Screened/Open-Hole Well Type:	Monitor Interval Length: 9.8 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 21.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: $\underline{\mathcal{Y}}$	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Savex Dain	
Security:	***************************************
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	енители и подинители, линители и общи на общи на общини и общи на общини на общини на общини на общини подини и На подини подинители линители и общи на общини на общини на общини на общини на общини на общини подини подини и
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.92	
Thickness of sediment accumulation (reported depth-present measurement): -12	
Are there an obstructions in the well? Description of well bottom conditions (soft) hard, etc.):	
Inspection Date: Ut 1, 2007 Inspected by: JUAN	VNiller
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>112-MW-060</u> Location/Functional Area:	rad line 2
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 9.8 ft
Flush-mount/Above-ground Completion:	-
Reported Construction Depth: <u></u>	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X D print peelin
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing instance?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	<u> </u>
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 203	
Thickness of sediment accumulation (reported depth-present measurement): $\pm .02$	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: (1) 1, 1, 2007 Inspected by: John	Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>U2~MW261</u> Location/Functional Area: <u>U</u>	adure2
Casing Type: Steel Stainless Steel PVC	
screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>219</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>Paint</u> / plate Security:	กมีสาราโปรงแปล ARCY RECOVERENT เป็นโปรงการสาราปสาราบการการการการการการการการการการการการการก
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap? Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: \Im_{2}	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: $\frac{\eta}{1-0\gamma}$ Inspected by:	······································

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	CONTROD
Well Number: <u>LL2 - MW 262</u> Location/Functional Area:	
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 3 3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	антан жили саланан каки саланда таки каки саланда боло у жили и каки саланда каки саланда каки саланда жили са На пан жили саланда каки саланда каки саланда боло у жили и каки саланда каки саланда каки саланда жили саланда
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification: Is the well labeled with the correct number?	
Describe labeling: Quvv4	
Security:	274 Carry Conference on Conference
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Does the mile casing have a water agin cap .	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>AA.10</u> Thickness of sediment accumulation (reported depth-present me	easurement) $+ - 46$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, (hard) etc.):	
	and a more an initial sector of a lateral and a standard and a sector of the
Inspection Date: 101-01 Inspected by: 0	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>U2-mw263</u> Location/Functional Area:	padline 2
Casing Type: Steel Stainless Steel Y PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>2</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	N 1999 N 199
Is the well labeled with the correct number?	
Describe labeling: Paint /olate	
Security:	
Does the well have a cap or lid?	×
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	X
Down-hole Condition:	том алехо с соот должно и сами на порти на соответся на таку порти на соответся на тор порти на порти с области на порти
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.64	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	/
Inspection Date: 10-1-07 Inspected by:	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>L2-mn 264</u> Location/Functional Area:	ordline?
Well Number: U-2-MN 269 Location/Functional Area.	34(4,00,00
Casing Type: Steel Stainless Steel	10
Screened/Open-Hole Well Type:	Monitor Interval Length: (O ft
Flush-mount/Aboverground Completion:	
Reported Construction Depth: <u>21.7</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Durut / Mate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	70
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 16 (.6] Inspected by:	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: $LL2 - MU - 26^3$ Location/Functional Area: U	adure
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 023.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	· · · · · · · · · · · · · · · · · · ·
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	an menyakan kenangkan kenangkan kenangkan penangkan kenangkan kenangkan kenangkan kenangkan kenangkan kenangkan
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.50 - 7	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 10-1-07 Inspected by: John	Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	•
Well Number: <u>LL_MW-266</u> Location/Functional Area:	oadline 2
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>みみ</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box? Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Describe labeled with the correct number?	
Describe labeling: <u>Medicel ('31, pg.ma on ca</u> Security:	BF
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	-157
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, far), etc.):	
Inspection Date: Oct 1,2107 Inspected by: Tom	Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>LL2-MW 267</u> Location/Functional Area:	padline 2
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 22 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed? Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medallin, pant on casing	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 22.7	
Measured depth of the well from measurement point: $\underline{\chi}$ Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6 ct 1, 2007 Inspected by: John	<u> </u>

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>LG-MW- 268</u> Location/Functional Area: <u></u>	padline 2
Casing Type: Steel Stainless Steel PVC	
Creened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>29.3</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: //	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct/number?	
Describe labeling: painta on Casim	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 29.6	17_1
Thickness of sediment accumulation (reported depth-present me	asurement): - 167
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: Oct. 1, 2007 Inspected by: John	Miller
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	•
Well Number: U2-MW269 Location/Functional Area:	ad line 2
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: lO ft
Flush-mount/Aboverground Completion:	
Reported Construction Depth: 29.40 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Dawt	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 30.40	
Thickness of sediment accumulation (reported depth-present me	asurement): -1.0
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
L A	
Inspection Date: 0-(-0) Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: LL2- MW270 Location/Functional Area:	ad line 2
Casing Type: Steel Stainless Steel Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground/Completion:	· · · · · ·
Reported Construction Depth: <u>20.3</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Davit /plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.5	2
Thickness of sediment accumulation (reported depth-present me	easurement): - 2 22
Are there an obstructions in the well? Description of well bottom conditions (soft, (hard, etc.):	
Inspection Date: 10-1-07 Inspected by:	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: LL3 mw a32 Location/Functional Area: LC	xalure 3	
Casing Type: Steel Stainless Steel PVC	· .	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 38.8 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	หลุงของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามาร สามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามารถของสามา	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Trunt		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: <u>39.94</u>		
Thickness of sediment accumulation (reported depth-present me	asurement): $-1,74$	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-1-01 Inspected by: Cel		

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WELL INSPECTION CHECK	KLIST
WELL INFORMATIÓN:	
Well Number: <u>LC3-MW233</u> Location/Functional Area:	aduré 3
Casing Type: Steel Stainless Steel Y PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	×
Reported Construction Depth: 32 2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	12 200-2010 12 2010 12
Is the well labeled with the correct number?	
Describe labeling: DOUNT	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 32.89	
Thickness of sediment accumulation (reported depth-present me	asurement): $-, 69$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): $\frac{21^{\circ}}{21^{\circ}}$	
Inspection Date: 10-10 Inspected by: Cal	Блажкования изначиная полодилерии ранкова и на станка и на стан

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>U3-</u> MW 234 Location/Functional Area: <u>(</u>	ad lue 3
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>10</u> ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 22.10 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Weil-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	9980/99/2019-00-00-00/2019/2019/2019/2019/2019/2019/2019/20
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	No
Is the well labeled with the correct number?	
Describe labeling: Daint/ place	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.7	
Thickness of sediment accumulation (reported depth-present me	asurement): -, 65
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-07 Inspected by: Cal	<u> </u>

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Ravenna Army Ammunition	
WELL INSPECTION CHECK	(LIST
WELL INFORMATION:	
Well Number: <u>U3-mwa35</u> Location/Functional Area: <u>U</u>	ad line 3
Casing Type: Steel Stainless Steel	
screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	<u> </u>
Reported Construction Depth: <u> </u>	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Coretruction area
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>prunt /plate</u>	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.0°	
Thickness of sediment accumulation (reported depth-present me	asurement): $-, 8^{-1}$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-0 Inspected by:	
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>113 MW - 236</u> Location/Functional Area: <u>LC</u>	ad line 3
Casing Type: Steel Stainless Steel PVC	
	Monitor Interval Length: 10 ft
Screened/Open-Hole Well Type:	Monitor Interval Lengur. <u>10</u>
Flush-mount/Above-ground Completion:	
Reported Construction Depth: $\partial(\rho, \partial)$ ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass plate, spran paint	an casimy
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 26.6	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
	Miller
Inspection Date: Oat 1, 2007 Inspected by:Dhn_	VELIVEN
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>113 - mw - 237</u> Location/Functional Area: <u>W</u>	adure 3
Casing Type: Steel Stainless Steel	
screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 24,9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YFS NO N/A COMMENTS
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Sprag Minkt on Casing	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing	
Measured depth of the well from measurement point:	-25.62 al -72
Thickness of sediment accumulation (reported depth-present me	easurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	MILLAR
Inspection Date: Det (1205) Inspected by: Ohn	VIIIIex

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	dl
Well Number: <u>LL3-MW238</u> Location/Functional Area:	odures
Casing Type: Steel Stainless Steel > PVC	
Screened#Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	م. مربق المربق ا
Reported Construction Depth: 229 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: paint / plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap? Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $23, 4$	
Thickness of sediment accumulation (reported depth-present me	easurement): -,56
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 10-1-07 Inspected by: Cal	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	11
Well Number: <u>U3 ~ MW J 39</u> Location/Functional Area:	radunes
Casing Type: Steel Stainless Steel	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: 30 8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: fant	92200000000000000000000000000000000000
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 37.23	easurement): -,43
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.):	
Inspection Date: 10-1-07 Inspected by:	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: LL3- MW 240 Location/Functional Area:	adures
Casing Type: Steel Stainless Steel YPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 3450 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	₩₩ĴŎĊĸŶĸĊŢĊĸĊĸĬŎĹŦŎŔŢŢĹŢŊĊŢĊĸŎĬŎŎĬĊĬŎĊĬŎĸŢŎĸĊŎĊŎĊĬŢŎŢĬŎĊŦŔĊĊĸĸŦĸŎĸĊĬĊŢĔŎĬŔŔŢĊŢĊĸŔĸŎĸĊĬŎŎŢŎŢŎŢŎŢŎŢŎŢŎŢŎŎŢŎŎŢŎŎĬŎ ₩₩ĴŎĊĸŶĊŢĊĸĊĸĬŎĹŦŎŔŢŢĹŢŊĊŢĊĸŎĬŎŎĬŎŎĊĬŎŎĊŎĸŎĸŎĸĊĸŎſĹĬŢĔĬĬŎĊŦŔĊĸĸŦĸŎĸĊĊŎĔŎĬŔŔŢĊŦĸĸĸŎĸŎĬŎŎŢŎŎŢĿŎŎĿĿĸĸŎĹŎĸĬŎĬŎĬŎĬĬĬŎ
Is the well labeled with the correct number?	
Describe labeling: paint / plate	
Security:	na na 1990
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $-\frac{26}{26}$	336.81 02
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	×
Description of well bottom conditions (soft, hard,)etc.):	
Inspection Date: 10-1-07 Inspected by: Cal	·

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>L3-Mw241</u> Location/Functional Area: 0	adure3
Casing Type: Steel Stainless Steel PVC	t -
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 25, ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	######################################
Is the well labeled with the correct number?	
Describe labeling: Daint / plate	
Security:	***************************************
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $-\partial I_{-} \mu d$	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-07 Inspected by: Cal	

Ravenna Army Ammunition P WELL INSPECTION CHECKI	
WELL INFORMATION:	ad turi 2
Well Number: $\underline{(L3 - mw \cdot 242)}$ Location/Functional Area: \underline{loc}	ia une s
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>2190</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Security: Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.6	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, nard), etc.):	
Inspection Date: 6 at 1, 2007 Inspected by: B m	- Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: $\frac{23}{1000}$ MW 243 Location/Functional Area:	adline 3
Casing Type: Steel Stainless Steel XPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: (O ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 25.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	TES NO NA COMMENTO
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>Meda//jon, spra fgmX 6n Ca</u>	
Security: Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $2-6.4$	12
Thickness of sediment accumulation (reported depth-present me	easurement);
Are there an obstructions in the well?	
Description of well bottom conditions (soft, kard, etc.):	
Inspection Date: Og, 1, 1067 Inspected by:	~ Miller
Inspection Date: 08, 1, 1067 Inspected by: 000	

WELL INFORMATION: Well Number: Wumber: Casing Type: Steel Steel Stainless Steel Screened/Open-Hole Well Type: Monitor Interval Length: Flush-mount/Above-ground Completion: Monitor Interval Length: Reported Construction Depth: 3.5 ft INSPECTION ITEMS YES NO N/A COMMENTS
Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type: Monitor Interval Length: 0 ft Flush-mount/Above-ground Completion: Reported Construction Depth: 3.5 ft BGS or BTOC (chose one only) INSPECTION ITEMS
Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type: Monitor Interval Length: 0 ft Flush-mount/Above-ground Completion: Reported Construction Depth: 3.5 ft BGS or BTOC (chose one only) INSPECTION ITEMS
Flush-mount/Above-ground Completion: Image: Construction Depth: 03.5 ft BGS or 5 BTOC (chose one only) INSPECTION ITEMS
Reported Construction Depth: 3.5 ft BGS or 5 BTOC (chose one only)
INSPECTION ITEMS
INSPECTION ITEMS
Well-Head Completion:YESNON/ACOMMENTS
Above-ground completion:
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 24,45 Thickness of sediment accumulation (reported depth-present measurement): Are there an obstructions in the well? Description of well bottom conditions (soft hard, etc.):
Inspection Date: 10-2-07 Inspected by: 04

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>LLH MW194</u> Location/Functional Area: <u>(</u>	adure 4
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>10</u> ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>23,4</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: -4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Numt / plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	م الحداليا الله المحالية من المحالية محالية محالية محالية محالية من المحالية محالية من المحالية محالية
Measured depth of the well from measurement point: 33.10	asurement) - 39
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft hard, etc.): $1''$	
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Inspection Date: 10-2-01 Inspected by: 01	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: $\underline{W4} \underline{mw195}$ Location/Functional Area: $\underline{W2}$	ad line 4	
Casing Type: Steel Stainless Steel X PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>223</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	YES NO N/A COMMENTS	
Well-Head Completion:		
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling:		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 23.00	$\frac{2}{2}$	
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 0-2-07 Inspected by:		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>U4 MW 196</u> Location/Functional Area: <u>U</u>	adure 4
Casing Type: Steel Stainless Steel XPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length:
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 21.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	Construction and
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.92 Thickness of sediment accumulation (reported depth-present measurement): 52	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by: Q	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>LL4 MW 197</u> Location/Functional Area: <u>LC</u>	nd une 4
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 22.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:) aunt /plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 33.72	-102
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft) hard, etc.): $(-)$	
Inspection Date: 12-207 Inspected by: QX	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>UBT MW 198</u> Location/Functional Area: <u>U</u>	aa Une 4
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Apove-ground Completion:	
Reported Construction Depth: 22.3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Daint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.04	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-01 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>UUMW199</u> Location/Functional Area: <u>U</u>	adune 4
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: lO ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 22 (0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	VED NO NUA COMMENTE
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Daunt / plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 2339	-,74
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Soft hard, etc.): 1^{μ}	
Inspection Date: $10 - 2 - 01$ Inspected by: 2	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>UUMW200</u> Location/Functional Area: <u>U</u>	adune 4
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 25.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	a. 1999 and an
is the well labeled with the correct number?	
Describe labeling: Day of / plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\underline{35.38}$	- 29
Thickness of sediment accumulation (reported depth-present me	easurement): -138
Are there an obstructions in the well?	
Description of well bottom conditions (soft), hard, etc.):	
Inspection Date: 10-2-07 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: LL5 MWOOL Location/Functional Area:	ad line 5	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>(</u>) ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 20.9 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion: Number of Guard posts at well: Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling:		
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 27.12 Thickness of sediment accumulation (reported depth-present measurement point) Are there an obstructions in the well? Description of well bottom conditions (soft, hard) etc.): Inspection Date: $0.2.61$	$\begin{array}{c c} X \\ X \\ X \\ X \\ X \\ \hline \\ x \\ x$	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>LL5_MW002</u> Location/Functional Area:	ad unes
Casing Type: Steel Stainless Steel YPVC	
screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 27.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint / plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\lambda I_{*} \rho \delta$	
Thickness of sediment accumulation (reported depth-present measurement): +,30	
Are there an obstructions in the well?	
Description of well bottom conditions (sof), hard, etc.):	
Inspection Date: 10-2-07 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>U5 nw603</u> Location/Functional Area: <u>Lac</u>	id lines
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: LO ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 34.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Is the well labeled with the correct number?	
Describe labeling: paint / plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.0	asurement): -,08
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-0 Inspected by: 0	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: <u>LLS MWOD</u> Location/Functional Area: <u>LC</u>	ad lines	
Casing Type: Steel Stainless Steel XPVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>IO</u> ft	
Flush-mount/Apove-ground Completion:		
Reported Construction Depth: <u>249</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:	· · · · · · · · · · · · · · · · · · ·	
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: paint / plate		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 255		
Thickness of sediment accumulation (reported depth-present me	asurement): along - (a)	
Are there an obstructions in the well?		
Description of well bottom conditions (soft) hard, etc.): $\angle l^{tr}$		
Inspection Date: 10-2-01 Inspected by:		
mapeouon bate. In C-V mapeouod by.		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>WS MW005</u> Location/Functional Area: <u>U</u>	ad line 5
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 299 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: $plnt / plate$	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 29.87	╮ └───┘└───┤ ──────┤
Thickness of sediment accumulation (reported depth-present measurement): $\pm, 07$	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: (0-2-07 Inspected by: Cal	
inspection bate inspected by	· · · · · · · · · · · · · · · · · · ·

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: <u>LL5 MW006</u> Location/Functional Area: <u>[]</u>	adunes	
Casing Type: Steel Stainless Steel	Monitor Interval Length: 10 ft	
Screened/Open-Hole Well Type:	Monitor Interval Length It	
Flush-mount/Above ground Completion:		
Reported Construction Depth:	BTOC (chose one only)	
\mathcal{M} \mathfrak{P} INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well: 2		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Dalat / plate		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point:	<u>Y</u> - 29	
Thickness of sediment accumulation (reported depth-present me	$asurement): \underline{/ \sim /}$	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
	₩\$	
Inspection Date: 10-2-07 Inspected by: Cal		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: LLG MN001 Location/Functional Area:	adline 6
Casing Type: Steel Stainless Steel	
&creened/Open-Hole Well Type:	Monitor Interval Length: (O ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	· · ·
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	**************************************
Is the traffic cover securely bolted to the flush-mount box?	MIN noggycet
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Dat n+	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	<u>× </u>
Thickness of sediment accumulation (reported depth-present mea	asurement): 1 (\
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: LK&MN00 2 Location/Functional Area:	radhie 6
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-groupd Completion:	-
Reported Construction Depth: <u> </u>	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	Солоничности Заликание с соло с с На солосни по селити си по си по соло с с На соло с со
Is the well labeled with the correct number?	
Describe labeling: Mint	Laturnal Louisered Laurence 1
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.59	
Thickness of sediment accumulation (reported depth-present me	asurement): $\underline{-2.09}$
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.): $\angle $	·
Inspection Date: 10-2-01 Inspected by: 00	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: LL6 M&OO3 Location/Functional Area: U	radue 6
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 05.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: DUNA	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 25.82	
Thickness of sediment accumulation (reported depth-present measurement): $+, 08$	
Are there an obstructions in the well? Description of well bottom conditions (soft) hard, etc.): SIISHIN SOFT CI'	
Description of well bottom conditions (soft) hard, etc.): <u>51154-</u>	<u>''y >0+1 - '</u>
L 10-2-27	
Inspection Date: 10-2-07 Inspected by: 0	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: LLGMW00 4 Location/Functional Area:	ad line lo
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:/	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 05.1 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing instance a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Is the well labeled with the correct number?	
Describe labeling: paint	นารกรรรรรรรรรรรรรรรรรรรรรรรรรรรรรรรรรรร
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>24.0</u>	
Thickness of sediment accumulation (reported depth-present me	easurement): <i>FU,49</i>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	·····
Inspection Date 10-2-07 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>LL6 MW 005</u> Location/Functional Area:	ad line 6
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 22.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Daint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\underline{\partial} 2.36$	
Thickness of sediment accumulation (reported depth-present measurement): ± 12	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.): $\angle 1^{*}$	
Inspection Date: 10-2-07 Inspected by: (a)	

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Ravenna Army Ammunition WELL INSPECTION CHECK		
WELL INFORMATIÓN:		
Well Number: (L(0 MWOOG Location/Functional Area: L	ad line 6	
	Monitor Interval Length: 10 ft	
Screened/Open-Hole Well Type:		
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 17.0 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?	The needs gasket	
Does the well have a flush-mount box?	TILCIUP UNTU	
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?	Pad wobbles	
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Daint		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?	Could use new 1	
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 118	×	
Thickness of sediment accumulation (reported depth-present m	peasurement): -0.88	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-2-01 Inspected by		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
Well Number: LL& MW007_ Location/Functional Area: LOad Live (e		
Well Number: LLG MW007 Location/Functional Area: UD	up um le	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·	
Reported Construction Depth: 19.5 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	YES NO N/A COMMENTS	
Well-Head Completion:		
Above-ground completion:	•	
Number of Guard posts at well: 3		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?	D D popathauttowell	
Flush-mount completion:	[X] needsoosket	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
is the well labeled with the correct number?		
Describe labeling: <u>Daunt</u>		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?	Duid usenew lock	
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 19,44		
Measured depth of the well from measurement point: <u>19,44</u> Thickness of sediment accumulation (reported depth-present me	asurement): +0.06	
Inickness of sediment accumulation (reported deput-present me		
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-2-07 Inspected by:		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: LL-7MW001 Location/Functional Area	raune'l	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 32 2 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion: Number of Guard posts at well: <u>3</u> Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? <i>Flush-mount completion:</i>		
Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification: Is the well labeled with the correct number? Describe labeling: <u>paint / plate</u>		
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap?	У — — — — — — — — — — — — — — — — — — —	
Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: <u>33.14</u> Thickness of sediment accumulation (reported depth-present me Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	$\begin{array}{c c} \hline X \\ \hline X \\ \hline X \\ \hline \end{array} \end{array}$	
Inspection Date: 10-2-07 Inspected by: Col		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN:		
Well Number: <u>U1/mwoo2</u> Location/Functional Area: <u>(</u>)	adure 7	
Casing Type: Steel Stainless Steel XPVC		
Screened/Open-Hole Well Type:	_ Monitor Interval Length:(O ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>278</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion: Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: <u>pawt/plata</u>		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point:	╶╘╾╾┙┖╍╍┙┖╍┉┙╴╺╴╴╴┉┉┉┉┉┉┉┉┉┉┉┉┊	
Thickness of sediment accumulation (reported depth-present me	<u>2728</u> asurement): +,52	
Are there an obstructions in the well?		
Description of well bottom conditions (soft hard, etc.):		
Inspection Date: 0-2-0 Inspected by: 09	hararen errenaria err 	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>L170003</u> Location/Functional Area: <u>L</u>	ad line 1
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: [O ft
Flush-mount/Above-ground Completion:	-
Reported Construction Depth: 33.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	<u> </u>
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Namf / plate	•
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	، المحمد المحمد المحم
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	, ┟┶┧└──┤ ────┤
Measured depth of the well from measurement point: $35.(\rho^2$	\pm
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 0 2 5 I Inspected by: 02	
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>LITMW004</u> Location/Functional Area: <u>LO</u>	adline"
Casing Type: Steel Stainless Steel	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 325 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	and Add (A) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Is the well labeled with the correct number?	
Describe labeling: DUN / plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 32.34	
Thickness of sediment accumulation (reported depth-present me	easurement): $\underline{+158}$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	· · · · · · · · · · · · · · · · · · ·
Inspection Date: 16-2-07 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	AL M
Well Number: <u>LCT MW005</u> Location/Functional Area: <u>LC</u>	paqune 1
Casing Type: Steel Stainless Steel	
Screened/open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	· · ·
Reported Construction Depth: 30.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: 2	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	× × × 2
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	######################################
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
Is the well labeled with the correct number?	
Describe labeling: $\alpha m + / \rho a \phi$	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 30,44	
Thickness of sediment accumulation (reported depth-present me	easurement): $t, 16$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 16-2-07 Inspected by: Cal	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:	adine M	
Well Number: <u>LL7 MW006</u> Location/Functional Area: <u>D</u>		
Casing Type: Steel Stainless Steel		
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 30 4 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	YES NO N/A COMMENTS	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well.		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification: Is the well labeled with the correct number?		
Describe labeling: Dawn + / plate	2015 (1999) 1999 (1999) 2000 (2009) 2009 (2019) 2009 (2019) 2009 (2019) 2009 (2019) 2009 (2019) 2009 (2019) 200 2019 (2019) 2019 (2019) 2019 (2019) 2019 (2019) 2019 (2019) 2019 (2019) 2019 (2019) 2019 (2019) 2019 (2019) 2019	
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Does the little cashig have a water-tight cap. Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing?		
Is a measurement point marked a the top of were casing: Measured depth of the well from measurement point: 30.43		
Thickness of sediment accumulation (reported depth-present m	easurement): -,03	
I Inickness of seament accumulation (reported depth-present in		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard), etc.):		
Inspection Date: 10-2-01 Inspected by: 02		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: LL& MWCO1 Location/Functional Area	ad line 8	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: _ [O ft	
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·	
Reported Construction Depth: <u>26.8</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:	· · ·	
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: PANT / DIAta		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 27.63 Thickness of sediment accumulation (reported depth-present measurement): $-,83$		
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well? Description of well bottom conditions (soft hard, etc.):		
Inspection Date: (0-2-07 Inspected by: Off		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: LOM OCO Location/Functional Area:	adunes	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: [Oft	
Flush-mount/Altove-ground-Completion:	BTOC (chose one only)	
Reported Construction Depth: 32.8 ft BGS or	BIOC (chose one only)	
INSPECTION ITEMS	YES NO N/A COMMENTS	
Well-Head Completion:		
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: DUNT / DIATE	and a superior of the superior of the superior of the superior and superior and superior and the superior and	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 32 6	le il	
Thickness of sediment accumulation (reported depth-present me	easurement): T · (7	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-2-07 Inspected by: Ol		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
VELL INFORMATIÓN:	
Well Number: <u>LLB MH 003</u> Location/Functional Area:	cad line 8
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Hush-mount/Abgive-ground Completion:	
Reported Construction Depth: <u>33.3</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X _ darmag concrete
is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	X dented 2 spots
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	nan ng Nagatan ng Salahan ng Nagatan ng Nagat
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	91.91.91.91.91.91.91.91.91.91.91.91.91.9
is the well labeled with the correct number?	
Describe labeling: paint /plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 33.15	3
Thickness of sediment accumulation (reported depth-present m	easurement): +,17
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 10-2-5] Inspected by:	
Inspection Date: 10-2-5] Inspected by: (a)	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>LL8MWQ0H</u> Location/Functional Area	due 8
Casing Type: Steel Stainless Steel VC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 23 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	-
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: <u>MUNT / Plate</u>	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.):	
Inspection Date: 10-2-01 Inspected by: 0	
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	dung
Well Number: LL3MW005 Location/Functional Area:	wine s
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 27.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
is the pad cracked or deteriorated? Frost Heaving?	I X I sealed crack E
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: MINT (Plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\Delta L \Delta ($	\sim
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.):	
La construction of the second se	
Inspection Date: 0-2-0 Inspected by	

Ravenha Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN:		
Well Number: <u>US MW006</u> Location/Functional Area:	iaun s	
Casing Type: Steel Stainless Steel PVC	Monitor Interval Length: 0 ft	
Screened/Open-Hole Well Type:	Monitor Interval Length: 0 ft	
Flush-mount/Above-ground Completion:	<u></u>	
Reported Construction Depth: 26.8 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	YES NO N/A COMMENTS	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
is the pad cracked or deteriorated? Frost Heaving?	X C Gracked H	
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	2 = 0.000 (1) = 000 (000 (000 (000 (000 (000 (000 (0	
Is the well labeled with the correct number?		
Describe labeling:		
Security: Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 27.1	$\frac{\sqrt{2}}{3}$	
Thickness of sediment accumulation (reported depth-present m		
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-2-07 Inspected by:		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>W9 MW 001</u> Location/Functional Area:	odline 4
Casing Type: Steel Stainless Steel 🔀 PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: \bigcirc ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 3 ft BGS o	or 🔀 BTOC (chose one only)
INSPECTION ITEMS	5 · · · · ·
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: <u>3</u>	
Are the paste positioned to provent collision damage to the well	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	?
Identification:	26.2011/12/2011/2011/11/2011/11/2011/2011/
Is the well labeled with the correct number?	
Describe labeling: <u>PWM</u>	
Security:	971) NY 1971 NA TANÀNA MANANA MANGKANG MANANGKANG MANGKANG MANGKANG MANANGKANG MANANGKANG MANANGKANG MANANGKANG
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.4	+0 <u> </u>
Thickness of sediment accumulation (reported depth-present r	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard)etc.):	
Inspection Date: 10-2-07 Inspected by:	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: <u>U9 MW002</u> Location/Functional Area: <u>O</u>	idune 7	
Casing Type: Steel Stainless Steel X PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>224</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	YES NO N/A COMMENTS	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion: Number of Guard posts at well: 3 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving?	× × · · · · · · · · · · · · · · · · · ·	
Is the well labeled with the correct number?		
Describe labeling:		
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap?		
Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 22.8		
Thickness of sediment accumulation (reported depth-present me	\sim	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10_2_01 Inspected by: Cal		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>LL9 MW003</u> Location/Functional Area:	ad line 9
Casing Type: Steel Stainless Steel XPVC	- · ·
creened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>3.8</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	· · · · ·
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Dum Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.34	
Thickness of sediment accumulation (reported depth-present me	asurement): -, 46
Are there an obstructions in the well?	
Description of well bottom conditions (soft, herd etc.):	
Inspection Date: 10-2-01 Inspected by: 00	
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>119 MW004</u> Location/Functional Area:	ad the 1
Casing Type: Steel Stainless Steel V PVC	
Spreened/Open-Hole Well Type:	Monitor Interval Length: <u>(</u> ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>34,9</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	No.
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Daunt	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 39.74	\pm asurement): \pm ,16
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 10-2-07 Inspected by: Cal	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>U9 mwoob</u> Location/Functional Area: <u>L</u>	eadline 9
Casing Type: Steel Stainless Steel XPVC	
Screened Open-Hole Well Type:	Monitor Interval Length:/O ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>889</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	97 C
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Daunt	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 28.86	
Thickness of sediment accumulation (reported depth-present me	easurement): $\pm, 02$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard etc.):	
LA	
Inspection Date: 0-2-07 Inspected by: 0	· · · · · · · · · · · · · · · · · · ·

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	0
Well Number: LL9 MW009 Docation/Functional Area:	adure 9
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 185 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	· · · · · · · · · · · · · · · · · · ·
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: punt	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 18.23	
Thickness of sediment accumulation (reported depth-present measurement): $+,27$	
Are there an obstructions in the well?	$\square \mathcal{P} \square$
Description of well bottom conditions (soft hard) etc.):	
Inspection Date: 10-2-01 Inspected by:	
Inspection Date: 1- 2 0 1 Inspected by 122	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>LLO MW001</u> Location/Functional Area:	adure 10
Casing Type: Steel Stainless Steel X PVC	
Screeped/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 29.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	X
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>Daint / Plate</u>	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 29.66 Thickness of sediment accumulation (reported depth-present measurement): $\pm.14$	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 10-2-07 Inspected by:	

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Ravenna Army Ammunition WELL INSPECTION CHECK	
NELL INFORMATIÓN:	
Well INFORMATION: Well Number: U(0 MW002 Location/Functional Area: U	padure 10
Casing Type: Steel Stainless Steel PVC	
creened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Abgve-ground Completion:	
Reported Construction Depth: 297 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X 1 1 post paint bading deglad
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: paint /plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: \mathcal{AB}	
Thickness of sediment accumulation (reported depth-present m	easurement): (
Are there an obstructions in the well?	
Description of well bottom conditions (soft, fnard, etc.):	
Inspection Date: 10-2-07 Inspected by	

Ravenna Army Ammunition F	lant
WELL INSPECTION CHECK	LIST
WELL INFORMATION:	
Well Number: <u>LLIO mw003</u> Location/Functional Area: <u>L</u>	adurelo
	Monitor Interval Length: 0 ft
Screened Open-Hole Well Type:	
Flush-mount/Apove-ground Completion:	
Reported Construction Depth: 28-91 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: paint /plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>28,02</u>	$\frac{2}{2}$
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by: (al	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: LOMWOOT Location/Functional Area:	adure 10
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>10</u> ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 33.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	X Cracked V
is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>Daint/plate</u>	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 33.64	+ 1/2
Thickness of sediment accumulation (reported depth-present me	easurement): $\pm,16$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	2001-018-0007-018-018-019-018-02-01-018-02-01-01-018-02-01-018-02-01-01-02-02-01-01-02-02-01-01-02-02-01-02-02 2001-018-02-01-01-01-01-01-01-01-01-01-01-01-01-01-
Inspection Date: 10-2-01 Inspected by: 01	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	nd lim all
Well Number: LLIO M VOOS Location/Functional Area:	ua une normalitation la
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground)Completion:	
Reported Construction Depth: <u>29.3</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Daint / plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	الكالسالب
Measured depth of the well from measurement point: $\alpha \gamma 2$	
Thickness of sediment accumulation (reported depth-present me	easurement): -, 0/
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard etc.):	
Inspection Date: 0-2-0 Inspected by: (al	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: UID - MWDOW Location/Functional Area:	ad line 10
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-groupid Completion:	
Reported Construction Depth:	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing instance?	
Does vegetation around the well need clearing?	
Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
· · · · · · · · · · · · · · · · · · ·	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: patht/plate	ราที่กับและการสอบกรรมที่มีสุของสอบไม่และหลังสอบกรรมไล้และการที่สอบกรรมสอบกรรมสอบกรรมที่สอบกรรมสอบกรรม
Security:	r
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	لمحمد للمحمد المحمد
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u></u>	<u>× / ~ </u>
Thickness of sediment accumulation (reported depth-present me	easurement): $\underline{-140}$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 0-2-07 Inspected by:	
Inspection Date: 0-2-01 Inspected by: 0.4	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>WIMW001</u> Location/Functional Area:	adline 11
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 🙆 ft
Flush-mount/Above-groupd Completion:	
Reported Construction Depth: 24. ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Daint	
Security: Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\partial l_l l_l$	
Thickness of sediment accumulation (reported depth-present measurement): ± 2.5	
Are there an obstructions in the well?	
Description of well bottom conditions (sof), hard, etc.): $\leq 1^{11}$	· · · · · · · · · · · · · · · · · · ·
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Inspection Date: 10-2-07 Inspected by al	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: LUNMW002 Location/Functional Area:	cadlinell
Casing Type: Steel Stainless Steel YPVC	· · · ·
Screened/Open-Hole Well Type:	_ Monitor Interval Length: O ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 16.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	X hogasket
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: DUV	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 16.59	asurement): -,54
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard) etc.):	
Inspection Data: $10-2$, 0.7	
Inspection Date: 10-2-07 Inspected by: Cal	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	11
Well Number: UI MW 003 Location/Functional Area:	sadure 11
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 15,9 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: 4 Number of Guard posts at well: 4 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Does the protective casing installed? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number?	
Describe labeling: AUM	
Security:	
Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap?	X Reeds gasket maker
Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: $\underline{//e, 15}$ Thickness of sediment accumulation (reported depth-present measurement point marked a the well? Description of well bottom conditions (soft, hard, etc.):	$ \begin{array}{c c} & & & \\ \hline & & \\ \hline & & \\ \hline \\ \hline$
Inspection Date: <u>b-2-67</u> Inspected by: <u>Cal</u>	

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATIÓN:	
Well Number: LLII MW004 Location/Functional Area: LC	adure 1
Casing Type: Steel Stainless Steel YPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: [0] ft
Flush-mount/Above-ground Completion:	·····
Reported Construction Depth: 16.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	IN TO PASKet
Does the well have a flush-mount box?	× IIGter in box
is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	2000/00/2017/10/00 / 00/2018/01/02/01/11/2010/11/2010/02/02/02/02/02/02/02/02/02/02/02/02/02
Is the well labeled with the correct number?	
Describe labeling: Munt	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	X needs newslexk
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 16.27	
Thickness of sediment accumulation (reported depth-present me	asurement: -,07
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 16-2-01 Inspected by: 0	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
	<u>`</u>
WELL INFORMATION:	ridine 11
Well Number: <u>U.11 MW005</u> Location/Functional Area: <u>U</u>	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 16.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	X nogasket
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Dant	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 16,5	-51
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 107-01 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: UII MW 006 Location/Functional Area:	adurell
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 15,5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	×
Does the well have a flush-mount box?	X I I I I I I I I I I I I I I I I I I I
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: DawA	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock? Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Does the inner casing have a water-tight cap:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 15.81	
Thickness of sediment accumulation (reported depth-present me	easurement): 31
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard), etc.):	
Inspection Date: 10-201 Inspected by: a	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	»
Well Number: <u>ULI MW007</u> Location/Functional Area: <u>U</u>	sadure 11
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Abøve-ground Completion:	
Reported Construction Depth: 25,2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed? Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>DUNT</u>	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 35.4	
Measured depth of the well from measurement point: <u>うら</u> 4 Thickness of sediment accumulation (reported depth-present me	-
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-01 Inspected by: Cal	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>ULM MWOGS</u> Location/Functional Area: <u>L</u>	sad mell
Casing Type: Steel Stainless Steel X PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Hush-mount/Above-ground Completion:	
Reported Construction Depth: 15.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	X needo gooket
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	ne 2 Martine and 2011 28 Martine 2012 - 2012 - 2014 - 201
Is the well labeled with the correct number?	
Describe labeling: MUNT	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>15.82</u>	pasurement): -,42
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by:	

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Ravenna Army Ammunition T	Plant
WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: <u>LL1 MW 009</u> Location/Functional Area: <u>L</u>	ad line 1
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: _ [O ft
Hush-mount/Above-ground Completion:	
	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or <u>deteriorated?</u> Frost Heaving?	Wordd have
Is steel protective casing installed? G	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	Land an artot
Does the well have a flush-mount box?	Man Mar gar me
Is the traffic cover cracked or broken?	X webbly pad
Is the concrete apron cracked or <u>deteriorated</u> ? Frost Heaving?	LIX Wobbly pad
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	ารกระบบการกระบบการบันการกระบบความสาวารกระบบความสาวารกระบบการกระบบความสาวารกระบบการกระบบการกระบบการกระบบการกระบบ สาวารกระบบการกระบบความสาวารกระบบความสาวารกระบบความสาวารกระบบความสาวารกระบบความสาวารกระบบการกระบบการกระบบความสาวา
Security:	
Does the well have a cap or lid?	× product
Does the well have a weatherproof lock?	X needs gasket
Does the lock secure well?	× needsnewlock
Does the inner casing have a water-tight cap?	XX not on well / replace
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 16.88	(1200)
Thickness of sediment accumulation (reported depth-present m	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
	#1100mm/Hgtol / Higher (1977) 1977 - 197
Inspection Date: 10-2-67 Inspected by:	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	-
Well Number: <u>LUI MWOIO</u> Location/Functional Area: <u>LC</u>	ndline 11
Casing Type: Steel Stainless Steel	Monitor Interval Length:
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 23.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: DUME	an a
Security:	
Does the well have a cap or lid? Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	nd 2011 million for a state of the state of
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 30.5	3 12
Thickness of sediment accumulation (reported depth-present me	easurement): $-,13$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	#1.544447.1870.pp.410.45474.45474.45479.45479.45479.pp.410579.974714579.974714749.974714749.974714749.97471474
Inspection Date: 10-2-07 Inspected by: (-00-	
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: 1/12 MW - 088 Location/Functional Area:	adune 12
Casing Type: Steel Stainless Steel PVC	
Screeped/Open-Hole Well Type:	Monitor Interval Length: 0 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth:ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass plans, stray name	1 on casing
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 10	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-07 Inspected by: John	Miller

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Ravenna Army Ammunition F WELL INSPECTION CHECK	· · · · · · · · · · · · · · · · · · ·
WELL INFORMATIÓN:	
Well Number: <u>L12 mw 107</u> Location/Functional Area: <u>C</u>	aduneta
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length:
Flush-mount/Above-ground Completion:	· · ·
Reported Construction Depth: 33.1 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: pluntf plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\frac{33.19}{10}$	asurement): -,69
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, loard, etc.):	
Inspection Date: 10-1-07 Inspected by:	

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Ravenna Army Ammunition WELL INSPECTION CHEC		
WELL INFORMATION:		
Well Number: <u>L12-MN113</u> Location/Functional Area:	oad line 12	
Casing Type: Steel Stainless Steel YPVC		
Screened/Open-Hole Well Type:	_ Monitor Interval Length: [U] ft	
Flush-mount/Above-ground Completion:	· ·	
Reported Construction Depth: 0,0 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: paint/plate		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 20.4	3	
Thickness of sediment accumulation (reported depth-present m	easurement): <u>+4,57</u>	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.): <u>SAULA</u>	nh	
Inspection Date: 10-1-07 Inspected by:		
inspection Date. 10 inspected by.		

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: mwla8_ Location/Functional Area:	Loadline 12
Casing Type: Steel Stainless Steel PVC	
Screeped/Open-Hole Well Type:	_ Monitor Interval Length: <u>IO</u> ft
Flush-mount/Above ground Completion:	
Reported Construction Depth: <u>33</u> <u>3</u> ft <u>BGS</u> or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	ат, улас ими на на солда с на селение сондение на били на вание докомосто на ката на такон на солда на селение Стак улас ими на на солда с на селение с на селение с на селение докомосто на ката на такон на селение на селени
is the well labeled with the correct number?	
Describe labeling: Day Nt	· · · · · · · · · · · · · · · · · · ·
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	¥
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 34.29	
Thickness of sediment accumulation (reported depth-present me	easurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 10-1-07 Inspected by	······
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN:		
Well Number: <u>U12 mwl63</u> Location/Functional Area: <u>LO</u>	ad une 12	
Casing Type: Steel Stainless Steel PVC	15	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Apove-ground Completion:		
Reported Construction Depth: <u>35</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?	X Startia to growing	
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	ала на станита на протити на станита на стани На станита на	
Is the well labeled with the correct number?		
Describe labeling: <u>paint/plate</u>		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: <u>24,9</u>		
Thickness of sediment accumulation (reported depth-present me	easurement): $\underline{-}_{i} \underline{OY}$	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: (0-1-D) Inspected by:		
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Well Number: U2 MW15 4 Location/Functional Area: Uad Uul 12 Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type: Monitor Interval Length: /// ft Flush-mount/Above-ground Completion: Monitor Interval Length: /// ft Reported Construction Depth: 26.7 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Are the posts positioned to prevent collision damage to the well? X	Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
Casing Type: Steel Stainless Steel PVC Screened/Open-Hole-Well Type: Monitor Interval Length: /// ft Flush-mount/Above-ground completion: BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Monitor Interval Length: Monitor Interval Length: Monitor Interval Length: Well-Head Completion: YES NO N/A COMMENTS Monitor Interval Length: Monitor Interval Length: Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: Number of Guard posts at well:	WELL INFORMATIÓN:	
Casing Type: Steel Stainless Steel PVC Screened/Open-Hole-Well Type: Monitor Interval Length: /// ft Flush-mount/Above-ground completion: BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Monitor Interval Length: Monitor Interval Length: Monitor Interval Length: Well-Head Completion: YES NO N/A COMMENTS Monitor Interval Length: Monitor Interval Length: Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: Number of Guard posts at well:	Well Number: 412 MW154 Location/Functional Area: 600	ia line 12
Flush-mount/Above-ground Completion: Reported Construction Depth: <u>78.1</u> ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: Number of Guard posts at well: <u>+</u> Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole?	Casing Type: Steel Stainless Steel YPVC	
Reported Construction Depth: <u>38.1</u> ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: Number of Guard posts at well: <u>4</u> Are the posts positioned to prevent collision damage to the well? X Are any of the posts damaged or degraded? X Is a concrete pad installed? Frost Heaving? Is steel protective casing installed? X Does the protective casing have a weep hole? X	Screened/Open-Hale-Well Type: N	Monitor Interval Length: ft
INSPECTION ITEMS YES NO N/A COMMENTS Above-ground completion:	Flush-mount/Above-ground Completion:	
INSPECTION ITEMS YES NO N/A COMMENTS Above-ground completion:	Reported Construction Depth: <u>28.7</u> ft BGS or	BTOC (chose one only)
Above-ground completion: Number of Guard posts at well:		
Number of Guard posts at well: Y Are the posts positioned to prevent collision damage to the well? X Are any of the posts damaged or degraded? X Is a concrete pad installed? X Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Y Does the protective casing have a weep hole? Y	Well-Head Completion:	YES NO N/A COMMENTS
Are the posts positioned to prevent collision damage to the well? Y	Above-ground completion:	
Are any of the posts damaged or degraded? X		
Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?	Is the pad cracked or deteriorated? Frost Heaving?	
	Is steel protective casing installed?	
Does vegetation around the well need clearing?	Does the protective casing have a weep hole?	
	Does vegetation around the well need clearing?	
	Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?	Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:		
Is the well labeled with the correct number?	Is the well labeled with the correct number?	
Describe labeling: <u>pount / pafe</u>	Describe labeling: pount / Pate	
Security:	Security:	
Does the well have a cap or lid?	Does the well have a cap or lid?	
Does the well have a weatherproof lock?	Does the well have a weatherproof lock?	
Does the lock secure well?	Does the lock secure well?	
Does the inner casing have a water-tight cap?	Does the inner casing have a water-tight cap?	
Down-hole Condition:		
is the well casing bent, corroded, or broken (at the surface?)	Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: $\frac{28.19}{28.19}$	Measured depth of the well from measurement point: $\frac{26 \cdot 19}{2}$	
Thickness of sediment accumulation (reported depth-present measurement): $-,04$	Thickness of sediment accumulation (reported depth-present meas	surement):
Are there an obstructions in the well?		
Description of well bottom conditions (soft, thand, etc.):	Description of well bottom conditions (soft, thard, etc.):	
Inspection Date: 10-1-07 Inspected by: Cal	Inspection Date: 10-1-07 Inspected by: Call	

CALCENSING STREET

	Zanf
Ravenna Army Ammunition F WELL INSPECTION CHECK	LIST
WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: 412 mile 182 Location/Functional Area: 4	vaa une 12
Casing Type: Steel Stainless Steel	
Screeped/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Aboye-ground Completion:	
Reported Construction Depth: <u>37.7</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	· · · · · · · · · · · · · · · · · · ·
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass plane ispun, pand	N. CH Sasim
Security:	The second se
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Does the linker casing have a watch tight cap t	na na hana ya katao na katao n
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 38.2	.y
Thickness of sediment accumulation (reported depth-present me	easurement): -154
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.):	
Inspection Date: 1D-1-D7 Inspected by: Tohy	M. Her
Inspection Date: 10-1-07 Inspected by: 10+1/	

WELL INFORMATION:	
Well Number: <u>LL12-MW-183</u> Location/Functional Area:	pad Line 12
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length:(
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 36.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	**************************************
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	анан на
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 36,4	10 - 40
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-07 Inspected by: Tohn	Miller
Inspection Date: $10 - 1 - 0^{\circ}$ Inspected by: $10 h M$	Y 11101

Ravenna Army Ammunition Revenue Army Ammunition R	
WELL INFORMATIÓN:	
Well Number: LL12 MW 184 Location/Functional Area: (bad line 12
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 31.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X middle of carelpanboo fre
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: wint / plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 31.20	
Thickness of sediment accumulation (reported depth-present me	esurement):
Are there an obstructions in the well? Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 101.01 Inspected by:	

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WELL INSPECTION CHECKLIST WELL INFORMATION: Well Number: 12 MW-185 Location/Functional Area: 10 Monitor Interval I. Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type: Monitor Interval Length: 10 ft Flush-mount/Above-ground Completion: Monitor Interval Length: 10 ft Reported Construction Depth: 13 2 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Are the posts positioned to prevent collision damage to the well? X Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">X Are any of the posts damaged or degraded? Is a concrete pad installed? Image: Colspan="2">Image: Colspan="2">X Is the pad cracked or deteriorated? Frost Heaving? Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">X Is steel protective casing installed? Image: Colspan="2">Image: Colspan="2" Open: Cols
Well Number: 12 MMU-185 Location/Functional Area: 12 MMU-12 Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type: Monitor Interval Length: 10 ft Flüsh-mount/Above-ground Completion: Monitor Interval Length: 10 ft Reported Construction Depth: 23.2 ft BGS or BTOC (chose one only) INSPECTION ITEMS VES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Are the posts positioned to prevent collision damage to the well? X Image: Steel Protective casing installed? X Image: Steel Protective casing installed? Is the pad cracked or deteriorated? Frost Heaving? X Image: Steel Protective casing installed? X Image: Steel Protective casing installed? X Image: Steel Protective casing installed? Image: Steel Protective casing have a weep hole? X Image: Steel Protective casing have a weep hole? X Image: Steel Protective casing have a weep hole? X Image: Steel Protective casing have a weep hole? X Image: Steel Protective cas
Screened/Open-Hole Well Type: Monitor Interval Length: 10 ft Flüsh-mount/Above-ground Completion: Flüsh-mount/Above-ground Completion: Reported Construction Depth: 23.2 ft BGS or INSPECTION ITEMS BTOC (chose one only) INSPECTION ITEMS YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Are the posts positioned to prevent collision damage to the well? X Are any of the posts damaged or degraded? X Is a concrete pad installed? Yes the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? X Does the protective casing have a weep hole? X Does vegetation around the well need clearing? X
Flush-mount/Above-ground Completion: Reported Construction Depth: 2 2 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Mell-Head Completion: Number of Guard posts at well:
Reported Construction Depth: 2° . 2 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: 1 Number of Guard posts at well: 1 Are the posts positioned to prevent collision damage to the well? X Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? X Does the protective casing have a weep hole? X Does vegetation around the well need clearing? X
INSPECTION ITEMS YES NO N/A COMMENTS Above-ground completion:
Well-Head Completion: YES NO N/A COMMENTS Above-ground completion:
Above-ground completion:
Number of Guard posts at well:
Are the posts positioned to prevent collision damage to the well? X
Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing?
Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing?
Is the pad cracked or deteriorated? Frost Heaving?
Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing?
Does the protective casing have a weep hole? X Does vegetation around the well need clearing? X
Does vegetation around the well need clearing?
Flush-mount completion:
Is the traffic cover securely bolted to the flush-mount box?
Does the well have a flush-mount box?
Is the traffic cover cracked or broken?
Is the concrete apron cracked or deteriorated? Frost Heaving?
Identification:
is the well labeled with the correct number?
Describe labeling: S1953 plane, spray parma on casing
Security:
Does the well have a cap or lid?
Does the well have a weatherproof lock?
Does the lock secure well?
Does the inner casing have a water-tight cap?
Down-hole Condition:
Is the well casing bent, corroded, or broken (at the surface?)
Is the well casing loose, (at the surface?)
Is a measurement point marked a the top of well casing?
Wedsured depth of the weil noth medsurement point
Thickness of sediment accumulation (reported depth-present measurement):
Are there an obstructions in the well?
Description of well bottom conditions (soft, hard) etc.):
Inspection Date: 10-1-07 Inspected by: John Miller

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Ravenna Army Ammunition P WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: LUZ-price 186 Location/Functional Area: LOA	dune 12
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>21,0</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS <	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>paint/plate</u>	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.14	asurement) ~, 14
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 16-1-07 Inspected by: Crit	

Ravenna Army Ammunition I WELL INSPECTION CHECK	
WELL INSPECTION CHECK	
WELL INFORMATIÓN:	
Well Number: U12-MN187 Location/Functional Area: U2	adune 12
Casing Type: Steel Stainless Steel XPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: [0] ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>29.4</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	· · · · · · · · · · · · · · · · · · ·
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Grouns ILP
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: label / plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24	1 21
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: Vor Inspected by: Cal	
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Well Number: Ug MW188 Location/Functional Area: UadUne 12 Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type: Monitor Interval Length: 10 ft Flush-mount/Above ground Completion: Monitor Interval Length: 10 ft Reported Construction Depth: 22.2 ft BGS or IBTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS	Ravenna Army Ammunition Revenue Ar	
Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type: Monitor Interval Length: It Flush-mount/Above ground Completion: BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Reported Construction Depth: 2.2 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Number of Guard posts at well: 4 Are the posts positioned to prevent collision damage to the well? X X Are the posts damaged or degraded? X X X Is a concrete pad installed? X X X X Is steel protective casing installed? X	WELL INFORMATIÓN:	
Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type: Monitor Interval Length: 10 ft Flush-mount/Above ground Completion: It BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Above-ground the posts damaged or degraded? YES NO N/A COMMENTS Above-ground the posts damaged or degraded? YES NO N/A COMMENTS Above-ground the posts damaged or degraded? YES NO N/A COMMENTS Above-ground the posts damaged or degraded? YES NO N/A COMMENTS Above-ground the posts damaged or degraded? YES NO N/A COMMENTS Above-ground the posts damaged or degraded? YES NO N/A COMMENTS Above-ground the posts damaged or degraded? YES NO N/A COMMENTS Above-ground the well red clearing? YES NO N/A COMMENTS Above-ground the well need clearing? YES NO N/A COMMENTS Above-ground the well need clearing? YES NO N/A COMMENTS Above-ground the well need clearing? YES NO N/A COMMENTS Above-ground the well need clearing? YES NO N/A COMMENTS Above-ground the well need clearing? YES NO N/A COMMENTS Above-ground the well need clearing?	Well Number: UI3 MW 188 Location/Functional Area:	Loadline 12
Flush-mount/Above ground completion:	Casing Type: Steel Stainless Steel X PVC	
Reported Construction Depth: 2 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Number of Guard posts at well: 4 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is a concrete pad installed? Is steel protective casing have a weep hole? Image: Construction for the well read clearing? Does the protective casing have a weep hole? Image: Construction for the well read clearing? Flush-mount completion: Is the traffic cover securely bolited to the flush-mount box? Is the traffic cover cracked or broken? Image: Construction for the construction for the protective casing have a weep hole? Does the well have a flush-mount box? Image: Construction for the protective casing have a weep hole? Does the well have a flush-mount box? Image: Construction for the protective case of the flush-mount box? Is the traffic cover cracked or broken? Image: Construction for the protective case of the protective case of the flush-mount box? Is the well labeled with the correct number? Image: Construction for the construction for the protective case of the construction for the protective case of the construction for the consth	Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Reported Construction Depth: 2 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Number of Guard posts at well: 4 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is a concrete pad installed? Is steel protective casing have a weep hole? Image: Construction for the well read clearing? Does the protective casing have a weep hole? Image: Construction for the well read clearing? Flush-mount completion: Is the traffic cover securely bolited to the flush-mount box? Is the traffic cover cracked or broken? Image: Construction for the construction for the protective casing have a weep hole? Does the well have a flush-mount box? Image: Construction for the protective casing have a weep hole? Does the well have a flush-mount box? Image: Construction for the protective case of the flush-mount box? Is the traffic cover cracked or broken? Image: Construction for the protective case of the protective case of the flush-mount box? Is the well labeled with the correct number? Image: Construction for the construction for the protective case of the construction for the protective case of the construction for the consth	Flush-mount/Above-ground Completion:	
Well-Head Completion: YES NO N/A COMMENTS Above-ground completion:		BTOC (chose one only)
Above-ground completion: Number of Guard posts at well: 4 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the post cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing installed? Does the protective casing installed? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely boiled to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling: MUN-K Security: Does the well have a cap or lid? Does the well casing have a weatherproof lock? Does the labeling: MUN-K Security: Does the well casing have a water-tight cap? Does the labeling: Does the labeling: Security: Does the well casing have a water-tight cap?	INSPECTION ITEMS	
Number of Guard posts at well: 4 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is Is the pad cracked or deteriorated? Forst Heaving? Is Is steel protective casing installed? Is Is Does the protective casing have a weep hole? Is Is Does vegetation around the well need clearing? Is Is <i>Flush-mount completion:</i> Is the traffic cover securely bolted to the flush-mount box? Is Does the well have a flush-mount box? Is Is Is the traffic cover cracked or deteriorated? Frost Heaving? Is Is the concrete apron cracked or deteriorated? Frost Heaving? Is Is the well labeled with the correct number? Is Is Is Describe labeling: MLA+ Is Is Is Is Does the well have a cap or lid? Is	Well-Head Completion:	YES NO N/A COMMENTS
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Image: Condition: Down-hole Condition: Image: Condition: Is the well casing bent, corroded, or broken (at the surface?) Image: Condition: Is the well casing loose, (at the surface?) Image: Condition: Is a measurement point marked a the top of well casing? Image: Condition: Measured depth of the well from measurement point: Image: Condition: Thickness of sediment accumulation (reported depth-present measurement): Image: Condition: Are there an obstructions in the well? Image: Conditions (soft, hard, etc.):	Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? <i>Flush-mount completion:</i> Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? <i>Identification:</i> Is the well labeled with the correct number?	
Inspection Date: 16-1-07 Inspected by: 10V	Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Days Thickness of sediment accumulation (reported depth-present measurement point marked)	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	Inspection Date: 10-1-07 Inspected by: 0	

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Ravenna Army Ammunition F WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: <u>U12-MW/8</u> Location/Functional Area: <u>Le</u>	adline 12
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>()</u> ft
Flush-mount/Apove-ground Completion:	
Reported Construction Depth: 19.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	' .
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>Xund</u>	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 19.87	
Thickness of sediment accumulation (reported depth-present me	asurement): -, 27
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-07 Inspected by: Cel	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	2
Well Number: 11-12 mur 242 Location/Functional Area: U	pad Line 12
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>283</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	File Park feeling
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Brass path on top	late, gray pant on Casin
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\frac{2l}{2}$	
Thickness of sediment accumulation (reported depth-present me	easurement): - ,
Are there an obstructions in the well?	
Description of well bottom conditions (60ft) hard, etc.):	
In the Terlan	Miller
Inspection Date: 10-1-07 Inspected by: 5/10/	

WELL INFORMATION: Well Number: L12 - n/w243 Location/Functional Area: Locad U.M. 12 Casing Type: Steel Stainless Steel PVC Screened/Open-Hole-Well Type: Monitor Interval Length: 10 ft Flush-mount/Above-ground Completion: Monitor Interval Length: 10 ft Reported Construction Depth: 25.7 ft BGS or BTOC (chose one only) Well-Head Completion: YES NO N/A COMMENTS Are the posts positioned to prevent collision damage to the well? X X X Are the posts damaged or degraded? Is a concrete pad installed? X <th></th>	
Casing Type: Steel Stainless Steel PVC Screener/Open-Hole-Well Type: Monitor Interval Length: 6 Flush-mount/Above-ground completion: Tt BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Are the posts positioned to prevent collision damage to the well? Are the posts positioned to prevent collision damage to the well? X Are the posts damaged or degraded? X X Is a concrete pad installed? X X Does the protective casing have a weep hole? X X Does the well have a flush-mount box? X X Does the well have a flush-mount box? X X Is the traffic cover securely bolted to the flush-mount box? X X Does the well have a flush-mount box? X X X Does the well have a cap or tid? Frost Heaving? X X X Is the traffic cover crac	WELL INFORMATION:
Screenet/Open-Hole-Well Type: Monitor Interval Length: It Flüsh-mount/Above-ground Completion: It Is Reported Construction Depth: 95.7 ft Is Monitor Interval Length: Inspection Inspection Inspection Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Are the posts positioned to prevent collision damage to the well? XE XE XE Are any of the posts damaged or degraded? Is the posts damaged or degraded? XE XE <td>Well Number: U12-MW243 Location/Functional Area: U0ad Unit 12</td>	Well Number: U12-MW243 Location/Functional Area: U0ad Unit 12
Flush-mount/Above-ground completion:	Casing Type: Steel Stainless Steel PVC
Reported Construction Depth: 25.7 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Are the posts damaged or degraded? X Are the posts damaged or degraded? X Is a concrete pad installed? X Is the pad cracked or deteriorated? Frost Heaving? X Does the protective casing have a weep hole? X Does the protective casing have a weep hole? X Does the protective casing have a weep hole? X Does the protective casing have a weep hole? X Does the well have a flush-mount box? X Does the well have a flush-mount box? X Is the traffic cover cracked or broken? X Is the concrete apron cracked or deteriorated? Frost Heaving? X Is the well labeled with the correct number? X Dees the well have a cap or lid? X Does the well have a cap or lid? X Does the well have a weatherproof lock? X Does the well have a weatherproof lock? X Does the well casing boose, (at the surfa	Screened/Open-Hole-Well Type: Monitor Interval Length: 10 ft
INSPECTION ITEMS Weil-Head Completion: YES NO N/A COMMENTS Are the posts positioned to prevent collision damage to the well? Are the posts damaged or degraded? Image: Collision damage to the well? Image: Collision damage to the well? Image: Collision damage to the well? Are the posts damaged or degraded? Is a concrete pad installed? Image: Collision damage to the well? Image: Collision damage to the well? Image: Collision damage to the well? Are the posts damaged or degraded? Is a concrete pad installed? Image: Collision damage to the well? Image: Collision damage: Collision damage to the well?<	
Well-Head Completion: YES NO N/A COMMENTS Above-ground completion:	Reported Construction Depth: 25.7 ft BGS or BTOC (chose one only)
Above-ground completion: Image: Completion: Number of Guard posts at well: Image: Completion: Are the posts positioned to prevent collision damage to the well? Image: Completion: Are the posts damaged or degraded? Image: Completion: Is a concrete pad installed? Image: Completion: Is the pad cracked or deteriorated? Frost Heaving? Does the protective casing installed? Image: Completion: Does the protective casing installed? Image: Completion: Is the traffic cover securely bolted to the flush-mount box? Image: Completion: Is the traffic cover cracked or broken? Image: Completion: Is the traffic cover cracked or deteriorated? Frost Heaving? Identification: Is the concrete apron cracked or deteriorated? Is the well labeled with the correct number? Image: Completion: Does the well have a cap or lid? Image: Completion: Does the well have a cap or lid? Image: Completion: Does the well have a water-tight cap? Image: Completion: Does the well have a water-tight cap? Image: Completion: Is the well casing bent, corroded, or broken (at the surface?) Image: Completion: Is the well casing boes, (at the surface?) Im	
Number of Guard posts at well: 94 '2' Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Are any of the posts damaged or degraded? 2 Is a concrete pad installed? 2 Is the pad cracked or deteriorated? Frost Heaving? 2 Is steel protective casing installed? 2 Does the protective casing have a weep hole? 2 Does the protective casing have a weep hole? 2 Does the protective casing have a weep hole? 2 Does the protective casing have a weep hole? 2 Does the well have a flush-mount box? 2 Is the traffic cover securely bolted to the flush-mount box? 2 Does the well have a flush-mount box? 2 Is the concrete apron cracked or deteriorated? Frost Heaving? 2 Is the well labeled with the correct number? 2 Describe labeling: 94 wd Security: 2 Does the well have a cap or lid? 2 Does the well have a watherproof lock? 2 Does the well have a watherproof lock? 2 Does the well casing bave, corroded, or broken (at the surface?) 2 Is the we	Well-Head Completion: YES NO N/A COMMENTS
Does the well have a cap or lid? Image: Constant of the second secon	Number of Guard posts at well: Y Y Are the posts positioned to prevent collision damage to the well? X Image: Collision damage to the well? Are any of the posts damaged or degraded? X Image: Collision damage to the well? Image: Collision damage to the well? Are any of the posts damaged or degraded? X Image: Collision damage to the well? Image: Collision damage to the well? Is a concrete pad installed? Image: Collision damage to the well? Image: Collision damage to the well? Image: Collision damage to the well? Is the pad cracked or deteriorated? Frost Heaving? Image: Collision damage to the well? Image: Collision damage to the well? Does the protective casing installed? Image: Collision damage to the well need clearing? Image: Collision damage to the well need clearing? Image: Collision damage to the flush-mount box? Does the well have a flush-mount box? Image: Collision damage to the flush-mount box? Image: Collision damage to the flush-mount box? Image: Collision damage to the flush damage to the flush damage to the flush damage to the flush damage to the damage to the damage to the damage to the flush damage to the flush damage to the flush damage to the damage to the damage to the damage to the flush damage to the flush damage to the flush damage to the damage to the damage to the damage to the flush damage to the damage to
Inspection Date: 10-1-17 Inspected by:	Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 25.60 Thickness of sediment accumulation (reported depth-present measurement):

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Ravenna Army Ammunition I	Plant
	LIST
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WELL INFORMATION:	ad Lind 12
Well Number: <u>412mw-24</u> Location/Functional Area: <u>LO</u>	uo una ia
Casing Type: Steel Stainless Steel	10
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>32</u> .) ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	·4
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	A post and the
Are any of the posts damaged or degraded?	Ham peering
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	/
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Medalliph on Casing	- top place
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 31.6	7~
Measured depth of the well from measurement point: 31.0 Thickness of sediment accumulation (reported depth-present m	easurement): +, 43
Are there an obstructions in the well? Description of well bottom conditions (soft) hard, etc.):	
Inspection Date: $ln - 1 - b7$ Inspected by: $\overline{10}h$	a. Miller
Inspection Date: 10-1-07 Inspected by: 10/13	~ F# + 1

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: LL12- MW245 Location/Functional Area: $\Delta \alpha$	adline 12	
Casing Type: Steel Stainless Steel X PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>10</u> ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 30 5 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?	X alouinua	
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	\$	
Is the well labeled with the correct number?		
Describe labeling: Day nt/plate		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 30.45		
Thickness of sediment accumulation (reported depth-present mea	isurement): ± 105	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
L		
Inspection Date: 10-1-07 Inspected by Ol	· · · · · · · · · · · · · · · · · · ·	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INSPECTION CRECKED		
Well Number: LL/2 MM-246 Location/Functional Area: LC	ndlino12	
	MU VIVICI -	
Casing Type: Steel Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>34.3</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well: 3		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	De paints peeling	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Maglion on plate, spray	pant on casim	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: $33 \cdot 1$	- 87	
Thickness of sediment accumulation (reported depth-present me	asurement): -182	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard) etc.):		
Inspection Date: 10-1-07 Inspected by: 10-10-10-	n VIIIIev	

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATIÓN:	
Well Number: ASK-MW-OOL Location/Functional Area: A-	Has Scrap Vard
Casing Type: Steel Stainless Steel CPVC	v . (
Screened/Open-Hole Well Type:	Monitor Interval Length: (D ft
Flush-mount/Aboye-ground Completion:	
Reported Construction Depth: <u>337</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	Dame peeling
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	/
Is the well labeled with the correct number?	
Describe labeling: Brass plate on cap.	markin on case
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.18	
Thickness of sediment accumulation (reported depth-present mea	surement): $\underline{\tau}, \underline{\varsigma} \rightarrow$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	· · · · · · · · · · · · · · · · · · ·
Inspection Date: 10-2-61 Inspected by: 13hu	Milter

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: ASK-mW-002 Location/Functional Area:	Hlas crap yard
Casing Type: Steel Stainless Steel	Ų. į
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 22.7 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	R D paint opeling
is a concrete pad installed?	X
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Marking on casing, bras	s date or cap
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.02	
Thickness of sediment accumulation (reported depth-present mea	surement): <u>732</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
- 102	
Inspection Date: 10-2-67 Inspected by: 18/11/2	Miller

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: <u>ASY-mW-003</u> Location/Functional Area: <u>A</u>	Alas Scrap Mard
Casing Type:	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>23.5</u> ft BGS or	BTOC (chose one only)
Woll Head Completion	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: 2	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X _ paint peeling rus
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass plate on cap, Mg	wkings on casing
Security: 1/	
Does the well have a cap or lid? Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	╞═╡┝╋╤┨╞══┥╶──────╢
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.52	
Thickness of sediment accumulation (reported depth-present meas	surement): -,O2
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Increation Data 11/2 2-57	1/0/1/
Inspection Date: 10-2-57 Inspected by: Bhm	r kl, l ter

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
Well Number: ASY-MW-004 Location/Functional Area:	Atlac Strand Vand	
	Thas any guit	
Casing Type: Steel Stainless Steel	10	
screened/Open-Hole Well Type:	_ Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>296</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:3		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	paint peeting with	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling:		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 39.76		
Thiskness of addiment assumulation (reported double present my	$\frac{0}{2}$	
Thickness of sediment accumulation (reported depth-present me Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-2-07 Inspected by: 06 hr	- Miller	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST			
WELL INFORMATION:			
Well Number: ASY-MW-005 Location/Functional Area: Atlas Scrap Yard			
Casing Type: Steel Stainless Steel	· · · · · · · · · · · · · · · · · · ·		
Screened/Open-Hole Well Type:	_ Monitor Interval Length: _ [D ft		
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·		
Reported Construction Depth: 262 ft BGS or	BTOC (chose one only)		
INSPECTION ITEMS			
Well-Head Completion:	YES NO N/A COMMENTS		
Above-ground completion:			
Number of Guard posts at well:			
Are the posts positioned to prevent collision damage to the well?			
Are any of the posts damaged or degraded?	D D print palin will		
Is a concrete pad installed?			
Is the pad cracked or deteriorated? Frost Heaving?			
Is steel protective casing installed?			
Does the protective casing have a weep hole?			
Does vegetation around the well need clearing?			
Flush-mount completion:			
Is the traffic cover securely bolted to the flush-mount box?			
Does the well have a flush-mount box?			
Is the traffic cover cracked or broken?			
Is the concrete apron cracked or deteriorated? Frost Heaving?			
Identification:	#1.1 Mars on 2 Mars in 2 Luman Annual Luman Luman Luman Luman Andre State (2004) (2004		
Is the well labeled with the correct number?			
Describe labeling: BUGS Date on Cup	markings on casing		
Does the well have a cap or lid?			
Does the well have a weatherproof lock?			
Does the lock secure well?			
Does the inner casing have a water-tight cap?			
Down-hole Condition:			
Is the well casing bent, corroded, or broken (at the surface?)			
Is the well casing loose, (at the surface?)			
Is a measurement point marked a the top of well casing?			
Measured depth of the well from measurement point: $3/3$			
Thickness of sediment accumulation (reported depth-present me	asurement): - 1,05		
Are there an obstructions in the well?			
Description of well bottom conditions (soft, hard, etc.):			
Inspection Date: 10-2-07 Inspected by: John M	litter		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: AS Y-MW-006 Location/Functional Area:	Atlas Scrap Yard	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	_ Monitor Interval Length: [0 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 28.8 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well: <u>5</u>		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	Desint Deeling, yu	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	999	
Is the well labeled with the correct number?		
Describe labeling: BVQ35 nbtes an Cap,	markings on casing	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:	ามมามี การสาราชาวิทยาสาราชาวิทยาสาราชาวิทยาสาราชาวิทยาสาราชาวิทยาสาราชาวิทยาสาราชาวิทยาสาราชาวิทยาสาราชาวิทยาสา 	
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 28.97		
Thickness of sediment accumulation (reported depth-present mea	asurement):	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, fard, etc.):		
Inspection Date: 10-2-07 Inspected by: Tohn	- Miller	

WELL INFORMATION:	•	
Well Number: ASY_WW-007 Location/Functional Area:	Hlas Scrap Yo	vrt
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length:	10
Flush-mount/Above-ground Completion:	· · ·	
Reported Construction Depth: 28.8 ft BGS or	BTOC (chose one on	ΓΛ.
		' '
Well-Head Completion: INSPECTION ITEMS	YES NO N/A COMME	ENT
Above-ground completion:	\$	
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		P
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		*****
Identification:		
is the well labeled with the correct number?		10
Describe labeling: Brass plate on cap, ma	which on casir	7
Security:		Č
Does the well have a cap or lid? Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 28.74		<u> </u>
Thickness of sediment accumulation (reported depth-present me	asurement): -,14	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-2-07 Inspected by: TOM	- Miller	
inspected bates inspected by	f + 11 [Y +	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: ASY-MW-007 Location/Functional Area:	Attas Scrap Yard	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type: Monitor Interval Length: D ft		
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 27.7 ft BGS or BTOC (chose one only)		
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	A faint peeling	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling:		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: $2^{2}/.7$	3	
Thickness of sediment accumulation (reported depth-present m	easurement): -, 0)	
Are there an obstructions in the well?		
Description of well bottom conditions (sof), hard, etc.):		
1225	1 MA Mart	
Inspection Date: $10-2-57$ Inspected by: $50hv$	V_ VVI,Nev	
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
Well Number: ASY-mw-001 Location/Functional Area: A	Has Scrap Yard
Casing Type: Steel Stainless Steel PVC	Monitor Interval Length: [] _ ft
Flush-mount/Above)ground Completion:	
Reported Construction Depth: 24.3 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: 3 Number of Guard posts at well: 3 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling:	X
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 24.63 Thickness of sediment accumulation (reported depth-present measurement point market) Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	$\begin{array}{c c} \hline \\ \hline $
Inspection Date: 10-2-07 Inspected by: 1044	Miller

	Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL IN	FORMATION:	
	nber: ASF-MW-010 Location/Functional Area:	Atlas Scrap Vard
Casing Ty	ype: Katel Stainless Steel RVC	
	/Open-Hole Well Type:	_ Monitor Interval Length: 0 ft
Flush-mo	ount/Abgve/ground Completion:	· · ·
Reported	Construction Depth: 298 ft BGS or	BTOC (chose one only)
	INSPECTION ITEMS	
Well-Hea	ad Completion:	YES NO N/A COMMENTS
	round completion: er of Guard posts at well: 3	
	e posts positioned to prevent collision damage to the well?	
	ny of the posts damaged or degraded?	X Daint peoling
2	oncrete pad installed?	
Is the	pad cracked or deteriorated? Frost Heaving?	
1 1	el protective casing installed?	
1 1	the protective casing have a weep hole?	
i and the second se	vegetation around the well need clearing?	
	ount completion:	
1	traffic cover securely bolted to the flush-mount box?	
	the well have a flush-mount box? traffic cover cracked or broken?	
	concrete apron cracked or deteriorated? Frost Heaving?	
Identifica		
	well labeled with the correct number? ibe labeling: 15/985 p g te	
Security		
	the well have a cap or lid?	
	the well have a weatherproof lock?	
Does	the lock secure well?	
Does	the inner casing have a water-tight cap?	
	ole Condition:	
1 1	well casing bent, corroded, or broken (at the surface?)	
	well casing loose, (at the surface?)	
	neasurement point marked a the top of well casing?	
	ured depth of the well from measurement point: <u>31:21</u>	-1.41
1 1	ness of sediment accumulation (reported depth-present me nere an obstructions in the well?	
	ription of well bottom conditions (soft, hard, etc.):	
Inspectio	on Date: 10-2-07 Inspected by: TBhu	n Miller

Constraints

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: B12-MW-QD Location/Functional Area: B	oridine 1200
Casing Type:	0
Screened/Open-Hole Well Type:	Monitor Interval Length:
Flush-mount/Above-ground Completion:	
Reported Construction Depth:	BTOC (chose one only)
23.2 INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: 2	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	XIII One nast hall.
Are any of the posts damaged or degraded?	Di Shattern cerrent,
Is a concrete pad installed?	Daint poelikin pus
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	Santan menggana ang mananang mangana ang mangana mengin pang mangana ang mang mang mang mangana ang mangana ang
Is the well labeled with the correct number?	
Describe labeling:	
Security:	₩9.994.000.000.000.000.000.000.0000.0000
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.97	<u> </u>
Thickness of sediment accumulation (reported depth-present measure Are there an obstructions in the well?	surement): $\frac{+28}{-28}$
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by: 13 hm	miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
	Building 1200
Casing Type: Steel Stainless Steel PVC	0
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 269 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	***************************************
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Paint peeling
Is a concrete pad installed?	
is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Brass plate on well cat	2
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	1
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 26.82	
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	· · · · · · · · · · · · · · · · · · ·
Inspection Date: 10-2-07 Inspected by: TOhn	Miller
Inspection Date: $10-2-0/$ Inspected by: $10hn$	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>B12-MW-012</u> Location/Functional Area:	Building 1200
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: [] ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 299 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X paint peeling
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Marking on Casing	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	มแล้วไป <mark>สีสนิจแล้วแล้วและและและและและเกินและเกินและเกินแล้วและเกินแล้วและเกินและและเกินและและเกินและเกินและเกิน </mark>
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
le a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.9	
Thickness of sediment accumulation (reported depth-present mea	asurement): $0/$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 10-2-07 Inspected by: John	Mule

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>CBL-MW-001</u> Location/Functional Area: C	-Black Diams
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length; 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 51.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X D paint poeling, rust
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: 13vass plate in cap, Mar Security:	Kims a casim
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 49.79^{-1}	
Thickness of sediment accumulation (reported depth-present meas	surement): ± 1.81
Are there an obstructions in the well? [Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by: John	Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>CBL-MW-002</u> Location/Functional Area: <u>C</u>	Block Quarty
Casing Type: Kteel Stainless Steel	0
Creened/Open-Hole Well Type:	Monitor Interval Length: (D) ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 47.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	paint pæling, vus
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	<u></u>
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
	rkings on casing
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock? Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Does the inner casing have a water-ught cap?	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 47.39	
Thickness of sediment accumulation (reported depth-present measurement): -7.39	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by: Tohm	Miller

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Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATIÓN:	0 - 6
Well Number: <u>CBL - MW-003</u> Location/Functional Area:	Block Duarry
Casing Type:	0
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 45,8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X paint peeling a
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass plates on Cap, 1	Markings on Easing
Security:	and the second
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 44.2	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by: Tohn	Miller
Inspection Date. 10 Inspected by. JOMMC	<u> </u>

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: CBL-MW-004_ Location/Functional Area:	Block Quarry
Casing Type: Steel Stainless Steel	10
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>46,8</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	x pant pasing, ru
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass plate on Cap, M	narkings on casing
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 47.17	- 20
Thickness of sediment accumulation (reported depth-present me	easurement): -32
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	inter interior
Inspection Date: 10-2-57 Inspected by: To Im-	_ Vri; rev

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>CBP-MW-OU</u> Location/Functional Area: <u>Central Bun Pit</u>	
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type: Monitor Interval Length: ft	
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 34.9 ft BGS or BTOC (chose one only)	
INSPECTION ITEMS	
Well-Head Completion: YES NO N/A COMMENTS	
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Sprcm name on casing	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 32.84	
Thickness of sediment accumulation (reported depth-present measurement): $t_2.06$	
Are there an obstructions in the well? \square	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-02-07 Inspected by: John Miller	
inspection bate. V- V- I inspected by. UVM/VVIIIV	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
Well Number: CBP-MW-002 Location/Functional Area: Outral Bun Pits	
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type: Monitor Interval Length: ft	
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>32.2</u> ft BGS or BTOC (chose one only)	
INSPECTION ITEMS	
Well-Head Completion: YES NO N/A COMMENTS	
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Spran nand on casing	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 52.12^{-1} Thickness of sediment accumulation (reported depth-present measurement): $+.08^{-1}$	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
$\int \frac{1}{2} $	
Inspection Date: 10-2-07 Inspected by: John WINEY	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>CBP-MW-003</u> Location/Functional Area: <u>C</u>	entral Bun Pits
Casing Type: 🔀	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	······································
Reported Construction Depth: <u>27.</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Spran Daim on Casin	Station and the state of the st
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	๚๚๚๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 30.2	9
Thickness of sediment accumulation (reported depth-present measurement): $-3,19$	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Mech	/
$\frac{1}{10000000000000000000000000000000000$	Miller
Inspection Date: 10-2-07 Inspected by: John	WIIV.CV

Ravenna Army Ammunition Revenue Army Ammunition R	
WELL INFORMATION:	$\cdot 0 0$
Well Number: $CBP_{MW} = 004$ Location/Functional Area:	mhal burn Pits
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u></u>
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>295</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Spran park on Casing	
Security:	и и политиру «Полиминисти» спосто политиру на община у войобло 2000 година в община на община у войобрат от по у селети на
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>29.80</u>	<u> </u>
Thickness of sediment accumulation (reported depth-present mea Are there an obstructions in the well?	
Description of well bottom conditions ((of), hard, etc.):	
Inspection Date: 10-2-07 Inspected by: JOAN	Miller

Ravenna Army Ammunition I WELL INSPECTION CHECK	
Well Number: <u>CBP; MW-005</u> Location/Functional Area:	entral Jun 1905
Casing Type:	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 27.3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number? Describe labeling: Spren, paint on cash	
Describe labeling: Spren pamel on cash	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap? Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 27,5	
	t 122
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well? Description of well bottom conditions (soft) hard, etc.):	
	Innº II.
Inspection Date: 10-2-51 Inspected by: Jahn	pril le

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	Λ
Well Number: <u>CBP MW-006</u> Location/Functional Area:	nhal Burn Pits
Casing Type:	
Screened/Open-Hole Well Type:	Monitor Interval Length: $\hat{I}O$ ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 05, 1 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded? Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification: Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $2.5, 4.5$	<u>з саста стала с</u>
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	UM
Inspection Date: 10-02-07 Inspected by: John	Miller

Ravenna Army Ammunition WELL INSPECTION CHECK	
Well Number: CBP-MU-007 Location/Functional Area:	entral burn lots
Casing Type: 🔀 Steel 🔄 Stainless Steel 🕅 PVC	
Screened/Open-Hole Well Type:	Monitor interval Length: \mathcal{U} ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 32.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: Number of Guard posts at well: Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Identification: Is the well labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the	$ \begin{array}{c} $
Inspection Date: 10-2-07 Inspected by: John	miller
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>CBP-MW-008</u> Location/Functional Area:	intral burn fits
Casing Type: Steel Stainless Steel	17
Screened/Open-Hole Well Type:	Monitor Interval Length: $\mathcal{W}_{}$ ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 27.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Cant aps off
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	99999999999999999999999999999999999999
Is the well labeled with the correct number?	
Describe labeling: Sprag pand on Cosin	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $2 \delta_{0}00$	<u> </u>
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard etc.):	
Inspection Date: 10-2-07 Inspected by: Tohn	Miller

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: <u>CP mub-001</u> Location/Functional Area: <u>C</u>	obbs Pond
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: 15.3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	De well full of
Are any of the posts damaged or degraded?	Water
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	x nrech new gasles
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number? \downarrow	
Describe labeling: Marking on pust	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap? Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: $14.8D$	
Thickness of sediment accumulation (reported depth-present meas	surement): $\pm .50$
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by: John	Miller
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>CP-MW- (002</u> Location/Functional Area: (why you a
Casing Type: Keel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 15,1 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: 3 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or deteriorated? Frost Heaving? Is the traffic cover cracked or broken? Is the vell have a flush-mount box? Is the well have a flush-mount box? Is the well have a flush-mount box? Is the concrete apron cracked or deteriorated? Frost Heaving? Identification: Is the well labeled with the correct number? Describe labeling: Mer Min Mer Min	X Well full of Water X A Honored X A Honor
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Is there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.): Inspection Date: 10-2-07 Inspected by:	$\frac{1}{2}$

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Ravenna Army Ammunition WELL INSPECTION CHECK	Plant KLIST
WELL INFORMATION:	ALL Dod
Well Number: <u>CP-MW-003</u> Location/Functional Area:	Cobres Pona
Casing Type: Steel Stainless Steel PVC	Monitor Interval Length: [O ft
Screened/Open-Hole Well Type:	_ Monitor Interval Length It
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 17.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	FRITT Hornats mon
Are the posts positioned to prevent collision damage to the well?	natt natt
Are any of the posts damaged or degraded?	
Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole? Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	50000000000000000000000000000000000000
In the well labeled with the correct number?	
Describe labeling: Spraw pant war king	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	[] []
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>17.8</u>	$\frac{\nu}{2}$ $\frac{\nu}{2}$
Thickness of sediment accumulation (reported deput presented	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by: John	- Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	11.01
Well Number: <u>CP-MW-004</u> Location/Functional Area: <u>C</u>	obbs Yona
Casing Type: Steel Stainless Steel	
screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	BTOC (chose one only)
Reported Construction Depth: 22.2 ft BGS or	
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number? Describe labeling: <u>Solow</u> <u>Mar Kir</u>	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\mathcal{L}S$.	bolal -14
Thickness of sediment accumulation (reported depth-present me	easurement): <u>/, 7</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, fland, etc.):	1
Inspection Date: <u>10-2-07</u> Inspected by: <u>JBM</u>	Miller

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATIÓN:	ables On d
Well Number: <u>CP-MW-005</u> Location/Functional Area:	ODUS YONO
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>424</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number? Describe labeling: $Solver = ncm M$ M $Cash$	
Security:	
Does the well have a cap or lid? Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 43.2	
Thickness of sediment accumulation (reported depth-present me	asurement): -, 87
Are there an obstructions in the well?	
Description of well bottom conditions (soft, fard, etc.):	
Inspection Date: 10-2-57 Inspected by: To him	Miller
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>CP-MW-006</u> Location/Functional Area:	Cobbs Yond
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 20 2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steet protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Marking on Casing	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 20.1	$\frac{4^{-1}}{154}$
Thickness of sediment accumulation (reported depth-present me	easurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-2-07 Inspected by: DM	/ Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST
WELL INFORMATION:
Well Number: <u>DET+1B</u> Location/Functional Area: <u>DemoArea</u>
Casing Type: Steel Stainless Steel
Screened/Open-Hole Well Type: Monitor Interval Length: 5 ft
Flush-mount/Above-ground Completion:
Reported Construction Depth: 40.5 ft BGS or BTOC (chose one only)
INSPECTION ITEMS
Well-Head Completion: YES NO N/A COMMENTS
Above-ground completion:
Number of Guard posts at well:
Are the posts positioned to prevent collision damage to the well?
Are any of the posts damaged or degraded?
Is a concrete pad installed?
Is the pad cracked or deteriorated? Frost Heaving?
Is steel protective casing installed?
Does the protective casing have a weep hole?
Does vegetation around the well need clearing?
Flush-mount completion:
Is the traffic cover securely bolted to the flush-mount box?
Does the well have a flush-mount box?
Is the traffic cover cracked or broken?
Is the concrete apron cracked or deteriorated? Frost Heaving?
Identification:
Is the well labeled with the correct number?
Describe labeling: Needs Well ID Painte
Security:
Does the well have a cap or lid?
Does the well have a weatherproof lock?
Does the lock secure well?
Does the inner casing have a water-tight cap?
Down-hole Condition:
Is the well casing bent, corroded, or broken (at the surface?)
Is the well casing loose, (at the surface?)
Is a measurement point marked a the top of well casing?
Measured depth of the well from measurement point: 38.6/
Thickness of sediment accumulation (reported depth-present measurement): $\frac{+1.89}{-1.000}$
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.): H_{a-3}
Inspection Date: 10-3-07 Inspected by: JUhn MUUN

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: D타고 Location/Functional Area:	imo Area 2
Casing Type: Steel Stainless Steel > PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>5</u> ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 40,000 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	***************************************
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 42.05	
Thickness of sediment accumulation (reported depth-present meas	surement): $-d.08$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): $2^{(1)}$	
Inspection Date: 10-3-0 1 Inspected by: 0	

Ravenna Army Ammunition Plant
WELL INSPECTION CHECKLIST
WELL INFORMATION:
Well Number: DET3_ Location/Functional Area: DemoAug 2
Casing Type: Steel Stainless Steel PVC
screened/Open-Hole Well Type: Monitor Interval Length: 5 ft
Flush-mount/Abgve-ground Completion:
Reported Construction Depth: 13.0 ft BGS or BTOC (chose one only)
INSPECTION ITEMS
Well-Head Completion: YES NO N/A COMMENTS
Above-ground completion:
Number of Guard posts at well:
Are the posts positioned to prevent collision damage to the well?
Are any of the posts damaged or degraded?
Is a concrete pad installed?
Is the pad cracked or deteriorated? Frost Heaving?
Is steel protective casing installed?
Does the protective casing have a weep hole?
Does vegetation around the well need clearing?
Flush-mount completion:
Is the traffic cover securely bolted to the flush-mount box?
Does the well have a flush-mount box?
Is the traffic cover cracked or broken?
Is the concrete apron cracked or deteriorated? Frost Heaving?
Identification:
Is the well labeled with the correct number?
Describe labeling:
Security:
Does the well have a cap or lid?
Does the well have a weatherproof lock?
Does the lock secure well?
Does the inner casing have a water-tight cap?
Down-hole Condition:
Is the well casing bent, corroded, or broken (at the surface?)
Is the well casing loose, (at the surface?)
Is a measurement point marked a the top of well casing?
Measured depth of the well from measurement point: 16.04
Thickness of sediment accumulation (reported depth-present measurement): -3.09
Are there an obstructions in the well?
Description of well bottom conditions (soft) hard, etc.): $\angle 1^{11}$
Inspection Date: 10-3-07 Inspected by: Cal

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
	Demo Area 2
	2410/11028
Casing Type: Steel Stainless Steel YPVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 12,0 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	***************************************
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	ulanan menerakan di kana kana kana kana kana kana kana kan
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 13.9.2	
Thickness of sediment accumulation (reported depth-present mea	asurement):1,92
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-3-01 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>りれぇ <i>Mu</i> /04</u> Location/Functional Area:	Demo Area 2
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: (O ft
Flush-mount/Above-ground Completion:	· · ·
Reported Construction Depth: 29.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Weil-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:Number of Guard posts at well:Are the posts positioned to prevent collision damage to the well?Are any of the posts damaged or degraded?Is a concrete pad installed?Is the pad cracked or deteriorated? Frost Heaving?Is steel protective casing installed?Does the protective casing have a weep hole?Does vegetation around the well need clearing?Flush-mount completion:Is the traffic cover securely bolted to the flush-mount box?Does the well have a flush-mount box?Is the traffic cover cracked or broken?Is the concrete apron cracked or deteriorated? Frost Heaving?Identification:Is the well labeled with the correct number?Describe labeling:Brost Prost PlaceSecurity:Does the well have a cap or lid?Does the well have a weatherproof lock?Does the inner casing have a water-tight cap?Down-hole Condition:Is the well casing boose, (at the surface?)Is a measurement point marked a the top of well casing?Measured depth of the well from measurement point:2.9.3Thickness of sediment accumulation (reported depth-present me Are there an obstructions in the well?Description of well bottom conditions (coff hard, etc.):	Y Y </td
Inspection Date: 16-3-07 Inspected by: JUMM Muley	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
Well Number: DA2 NW105 Location/Functional Area:	2mo Area 2
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 5 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 16.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	TES NO WA COMMENTO
Above-ground completion: Number of Guard posts at well: Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole? Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification: Is the well labeled with the correct number?	
Describe labeling: Bross Plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	، لـــــالـــا ـــــــــــــــــــــــــ
Measured depth of the well from measurement point: $\frac{76.3}{7}$ Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Are there an obstructions in the weir? Description of well bottom conditions (soft, hard, etc.): Ha	
Inspection Date: 10-3-07 Inspected by: JUMn	Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	Demo Alea 2
Well Number: DA2 nw-106 Location/Functional Area:	DEMOTIVE J
Casing Type: Steel Stainless Steel	1
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 18.1 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	Erosion undorseath
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Bross Plat	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	
Thickness of sediment accumulation (reported depth-present me	easurement): <u>[, A</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	x-q
Inspection Date: 10-3-67 Inspected by: JDh	n Miller
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ALC: NO STRATES

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	A
Well Number: $\underline{DA2} \ \underline{MW107}$ Location/Functional Area: \underline{D}	emo Arca 2
Casing Type: Steel Stainless Steel YPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 5 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 14,5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>Hag - Marker</u>	
Security:	######################################
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 1697	<u> </u>
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-3-07 Inspected by: Cal	
<u> </u>	

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WELL INFORMATION: Well Number: 122 MWI08 Location/Functional Area: DEMO Aller 2 Casing Type: Steel Stainless Steel PVC Scheendd/Open-Hole Well Type: Monitor Interval Length: 1 Flush-mount/Above ground completion: Image: Completion: BEDCC (chose one only) INSPECTION ITEMS YES NO N/A Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Are the posts positioned to prevent collision damage to the well? XE XE XE XE Are any of the posts damaged or degraded? YES NO N/A COMMENTS Above-ground completion: Is the pad cracked or deteriorated? Frost Heaving? XE	Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
Casip Type:SteelStainless SteelPVC Monitor Interval Length: ft Screendd/Open-Hole Well Type: Monitor Interval Length: ft Flush-mount/Above-ground Completion: ftBGS orBTOC (chose one only) Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Ac any of the posts damaged or degraded? YES NO N/A COMMENTS Ac any of the posts damaged or degraded? YES NO N/A COMMENTS Does the protective casing have a weep hole? YES NO N/A COMMENTS Boos the protective casing have a weep hole? YES NO N/A COMMENTS Flush-mount completion: YES YES NO YES	WELL INFORMATION:	
Casip Type:SteelStainless SteelPVC Monitor Interval Length: ft Screendd/Open-Hole Well Type: Monitor Interval Length: ft Flush-mount/Above-ground Completion: ftBGS orBTOC (chose one only) Well-Head Completion: YES NO N/A COMMENTS Above-ground completion: YES NO N/A COMMENTS Ac any of the posts damaged or degraded? YES NO N/A COMMENTS Ac any of the posts damaged or degraded? YES NO N/A COMMENTS Does the protective casing have a weep hole? YES NO N/A COMMENTS Boos the protective casing have a weep hole? YES NO N/A COMMENTS Flush-mount completion: YES YES NO YES	Well Number: DA2_MW108_ Location/Functional Area: D	emother 2
Flush-mount/Above-ground Completion: Reported Construction Depth: 14 INSPECTION ITEMS Well-Head Completion: YES NO Number of Guard posts at well: 4 Are the posts positioned to prevent collision damage to the well? Are the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Does the protective casing have a weep hole? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the traffic cover cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the well have a weatherproof lock?	Casing Type: Steel Stainless Steel PVC	6
Reported Construction Depth: [4,9]_tt BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Number of Guard posts at well: [4] Are the posts positioned to prevent collision damage to the well? [X] Are the posts damaged or degraded? [S] Is a concrete pad installed? [X] Is the pad cracked or deteriorated? [X] Does the protective casing have a weep hole? [X] Does the post function the well need clearing? [X] Does the post function to mult box? [X] Does the well have a fush-mount box? [X] Does the well have a fush-mount box? [X] Is the traffic cover cracked or deteriorated? Frost Heaving? [X] Is the traffic cover cracked or deteriorated? Frost Heaving? [X] Is the well have a cap or lid? [X] [X] Does the well have a cap or lid? [X] [X] Does the well have a cap or lid? [X] [X] Does the well have a cap or lid? [X] [X] [X] Does the well have a cap or lid? [X] [X] [X] [X] D		_ Monitor Interval Length: ft
INSPECTION ITEMS YES NO N/A COMMENTS Above-ground completion:		
Well-Head Completion: YES NO N/A COMMENTS Above-ground completion:		BTOC (chose one only)
Above-ground completion: Number of Guard posts at well: 4 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing installed? Does the protective casing installed? Does the protective casing have a weep hole? Does the well have a flush-mount box? Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the well labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a cap or lid? Does the well have a weatherproof lock? Does the labeling: Security: Does the well casing loose, (at the surface?) <		
Number of Guard posts at well: 4 Are the posts positioned to prevent collision damage to the well? Image: Collision damage to the well? Are any of the posts damaged or degraded? Image: Collision damage to the well? Is a concrete pad installed? Image: Collision damage to the well? Is the pad cracked or deteriorated? Frost Heaving? Does the protective casing installed? Image: Collision damage to the well? Does the protective casing installed? Image: Collision damage to the well? Does the protective casing installed? Image: Collision damage to the well? Does the protective casing installed? Image: Collision damage to the well? Does the well have a flush-mount box? Image: Collision damage? Is the traffic cover cracked or deteriorated? Frost Heaving? Is the vell labeled with the correct number? Image: Collision damage? Does the well have a cap or lid? Image: Collision damage? Does the well have a cap or lid? Image: Collision damage? Does the well have a water-tight cap? Image: Collision damage?	Well-Head Completion:	TES NO N/A COMMENTE
Are the posts positioned to prevent collision damage to the well? X Are any of the posts damaged or degraded? X Is a concrete pad installed? X Is the pad cracked or deteriorated? Frost Heaving? X Is steel protective casing installed? X Does the protective casing installed? X Does the protective casing have a weep hole? X Does the protective casing have a weep hole? X Does the protective casing have a weep hole? X Does the well have a flush-mount box? X Does the well have a flush-mount box? X Is the traffic cover cracked or broken? X Is the well labeled with the correct number? X Describe labeling: X Security: X Does the well have a cap or lid? X Does the well have a weatherproof lock? X Does the lock secure well? X Does the well casing have a water-tight cap? X Does the lock secure well? X Does the well casing hoen, corroded, or broken (at the surface?) X Is the well casing hoen, corroded, or broken (at the surface?) X Is t	Above-ground completion:	
Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? <i>Flush-mount completion:</i> Is the traffic cover securely botted to the flush-mount box? Does the well have a flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the traffic cover cracked or deteriorated? Frost Heaving? Is the vell labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a cap or lid? Does the well have a watherproof lock? Does the lock secure well? Does the well casing bave a water-tight cap? Down-hole Condition: Is the well casing bave, a water-tight cap? Is the well casing boes, (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing?		
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Is at control tep and installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a cap or lid? Does the inner casing have a water-tight cap? Does the inner casing have a water-tight cap? Does the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the well reasurement point: 11. 29 Measured depth of the well from measurement point: Thickness of sediment accumulation (reported depth-present measurement): 7.39 Are there an obstructions in the well? Description of well bottom conditions (soft, fard, etc.):		
Is the pad charter of rotation of the memory of the protective casing installed? Does the protective casing installed? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Dees the well have a cap or lid? Does the well have a weatherproof lock? Does the well have a water-tight cap? Does the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 139 Are there an obstructions in the well? Description of well bottom conditions (soft, tard, etc.):		
Is steep protective casing have a weep hole? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing benet, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is the well cosing loose, (at the surface?) Is the well fort measurement point: Thickness of sediment accumulation (reported depth-present measurement): Tag Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	Is the pad cracked or deteriorated? Frost Heaving?	
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Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bone, (at the surface?) Is the well casing loose, (at the surface?) Is the well from measurement point: 11.29 Measured depth of the well from measurement point: 11.29 Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Thickness of sediment accumulation (reported depth-present measurement): Tag Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		[X] Deep Noods
Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Thickness of sediment accumulation (reported depth-present measurement): Tight there an obstructions in the well? Description of well botom conditions (soft, hard, etc.):		
Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Identification: Is the well labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Does the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Thickness of sediment accumulation (reported depth-present measurement): Tis there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Is the concrete apron cracked of detentionated? Prost reaving? Identification: Is the well labeled with the correct number? Describe labeling:		
Is the well labeled with the correct number? Describe labeling: Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Thickness of sediment accumulation (reported depth-present measurement): Thickness of sediment accumulation (soft, hard, etc.):	Is the concrete apron cracked or deteriorated? Frost Heaving?	
Describe labeling: Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Thickness of sediment accumulation (reported depth-present measurement): Thickness of sediment accumulation (soft, hard, etc.):		
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Thickness of sediment accumulation (reported depth-present measurement): Tickness of sediment accumulation (soft, hard, etc.):	Is the well labeled with the correct number?	
Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 11.29 Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		C278007000000000000000000000000000000000
Does the well have a weatherproof lock? X <td></td> <td></td>		
Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 11, 29 Thickness of sediment accumulation (reported depth-present measurement): 139 Are there an obstructions in the well? X Description of well bottom conditions (soft, hard, etc.): X		
Does the inner casing have a water-tight cap? X <td< td=""><td></td><td></td></td<>		
Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 11.29 Thickness of sediment accumulation (reported depth-present measurement): 139 Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: <u>17.29</u> Thickness of sediment accumulation (reported depth-present measurement): <u>139</u> Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: <u>12.29</u> Thickness of sediment accumulation (reported depth-present measurement): <u>139</u> Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: <u>17.49</u> Thickness of sediment accumulation (reported depth-present measurement): <u>139</u> Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Thickness of sediment accumulation (reported depth-present measurement): 159 Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	Measured depth of the well from measurement point:	α <u> </u>
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	Thickness of sediment accumulation (reported depth-present me	easurement): 739
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 0-3-07 Inspected by:		
	Inspection Date: 10-2-07 Inspected by: (a)	

Ravenna Army Ammunition I	
WELL INSPECTION CHECK	
WELL INFORMATION:	and Andria
Well Number: DA2 MW 109 Location/Functional Area: D	Uno Arch I
Casing Type: Steel Stainless Steel	
Scheened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above ground Completion:	
Reported Construction Depth: <u>24.1</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: <u>hg</u> fNarker	
Security: () Does the well have a cap or lid?	K added new one
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap? Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.4	basurement):38
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (spft, hard, etc.):	
Description of well bollotti conditions (spin-hard, etc.).	
1	
Inspection Date: 10-5-01 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>りねぇ~りゅり</u> Location/Functional Area:	Demo Aria 2
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 21.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	•
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	MENDELIN 2. MANUAL MUNICUM COMPANY AND A
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>Brass</u> Plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $22 \cdot 10^{-10}$	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): $l \rightarrow l \rightarrow l$	a-0
1 202 202	mitter
Inspection Date: 10-3-01 Inspected by: 1000	munur

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN:		
Well Number: $\underline{DA2MW[1]}$ Location/Functional Area: \underline{D}	emo Aua 2	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: 5 ft	
Flush-mount/Apove)ground Completion:	· · · · · · · · · · · · · · · · · · ·	
Reported Construction Depth: 4.8 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	N 1999 1999 1999 1999 1999 1997 1997 199	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: <u>MAAKEY + TAG</u> . Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Does the inner casing have a water-ugin cap:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
is a measurement point marked a the top of well casing? Measured doubt of the well from measurement point: 1402		
Measured depth of the well from measurement point: <u>14,93</u> Thickness of sediment accumulation (reported depth-present me	13	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Description of wen bottom conditions (soit, hard, etc.).		
Inspection Date: 10-3-07 Inspected by: (al		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: DA2 MWII2 Location/Functional Area:	enotrea 2	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft	
Flush-mount/Aboverground Completion:		
Reported Construction Depth: 16.6 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	7	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
is the well labeled with the correct number?		
Describe labeling:		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 17.18	- 59	
Thickness of sediment accumulation (reported depth-present me	easurement): 7,58	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-3-07 Inspected by: Cal		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>DAA mWII3</u> Location/Functional Area:	Demo Area 2 Monitor Interval Length: 5 ft
Casing Type: Steel Stainless Steel	
	Monitor Interval Length: 5
Screened/Open-Hole Well Type:	
Flush-mount/Above-ground Completion:	<u> </u>
Reported Construction Depth: <u>1/e.</u>] ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: tag. Date Marker	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: μ_{4}	
Thickness of sediment accumulation (reported depth-present me	asurement): -132
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-3 Inspected by:	· · · · · · · · · · · · · · · · · · ·

	Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:		
Well Number: EBG MW123 Location/Functional Area: EC	ie Burning Grounds	
Casing Type: Steel Stainless Steel	<u> </u>	
Screened/Open-Hole Well Type:	Monitor Interval Length: しつ ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 33.7 ft BGS or	BTOC (chose one only)	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	and the second	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling:		
Security:	ĸĸĸĸĸĸŶĸĸŦŦŶŎŎĊĊĸĹŎŎĸŎŖŊŢŎĊĹŎŔŎĸŎĸŎŊŊŎĊĊŎŊŎĊŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎ	
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: <u>39.90</u>	/ <u>)</u>	
Thickness of sediment accumulation (reported depth-present mea		
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Inspecties Data have a C		
Inspection Date: 10-1-07 Inspected by:		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	_
Well Number: EBG MW 124 Location/Functional Area: Er	re Burning Grounds
Casing Type: Steel Stainless Steel PVC	<u> </u>
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 32.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	2
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 3386	
Thickness of sediment accumulation (reported depth-present mea	asurement): $\pm .04$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): 1	
Inspection Date: 10-1-07 Inspected by:	
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: EBG MW 125 Location/Functional Area: <u>Cr</u>	18 Pornin Grounds
Casing Type: Steel Stainless Steel	00000
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 24.8 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X _ grownsback m
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap? Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\partial 7.59$	
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): hard	
Inspection Date: 10-1-07 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: ELG_MW126 Location/Functional Area: U	le Burning Grounds
Well Number: Elegent 126 Location/Functional Area: Image: Casing Type: Steel Stainless Steel	\mathcal{O} , the second se
Screened/Open-Hole Well Type:	Monitor Interval Length: (0 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 27.9 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: painted + plate.	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>28-0</u>	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 10-1-01 Inspected by:	
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Ravenna Army Ammunition F WELL INSPECTION CHECK	
NELL INFORMATION: Nell Number: EBUG - MW - 137 Location/Functional Area:	rie Burning Grounds
Casing Type: KISteel Stainless Steel PVC	J
	Monitor Interval Length: LO ft
Screened/Open-Hole Well Type:	Monitor interval congut
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 32.40 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving?	$\square \square $
Identification:	
Is the well labeled with the correct number? Describe labeling: <u>Spren</u> point on cosim	
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap?	
Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 32.5 Thickness of sediment accumulation (reported depth-present me Are there an obstructions in the well? Description of well bottom conditions (soft hard, etc.):	$\frac{1}{2}$ $\frac{1}$
Inspection Date: Oct. 1, 2007 Inspected by: Stepher	r Sturgeon

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>FB61w128</u> Location/Functional Area:E	rie Burning Groniels
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 12 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 28 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	YES NO N/A COMMENTS
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: 44 Number of Guard posts at well: 44 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling: Brass place & Casin Jb	
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap?	
Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Thickness of sediment accumulation (reported depth-present measurement point in the well? Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 10/1/0 Inspected by:	NR

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN:		
Well Number: EBG - MW129 Location/Functional Area:	trie Burning Grounds	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft	
Flush-mount/Above-ground Completion:	·····	
Reported Construction Depth: 28.4 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	7	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Darut /plate		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 31.1		
Thickness of sediment accumulation (reported depth-present m		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.): 1^{2}		
Inspection Date: 16-1-07 Inspected by:		
inspection bate. 10 1 0 1 mispected by		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN:	28.49	
	Fre Bachia Grayads	
Well Number: <u>EB130</u> Location/Functional Area: Casing Type: Steel Steel Stainless Steel PVC	CHE WHITING Grounds	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 383 ft BGS c	or BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:	<u>→ → → → → → → → → → → → → → → → → → → </u>	
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving		
Identification:	· · · · · · · · · · · · · · · · · · ·	
Is the well labeled with the correct number?		
Describe labeling: Spra part on cash		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)	┝━┥┝┿┥┝━┥╺─────┤	
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 2χ . Thickness of sediment accumulation (reported depth-present r		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard) etc.):		
Inspection Date: 10-1-07 Inspected by: JUL	n Mihe	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: FBQ mw llele Location/Functional Area: FI	128 + Brokker Mm may
Casing Type: Steel Stainless Steel	the state quarty
Screened/Open-Hole Well Type:	Monitor Interval Length: D
Flush-mount/Above-ground Completion:	
	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>10000 + 01000</u>	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock? Does the lock secure well?	┝┿╡┝═┥┝═╴╴║
Does the inner casing have a water-tight cap?	┝╬╣╞═╣╞═┥╺─────║
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 9994	
Thickness of sediment accumulation (reported depth-present measured	surement): -,34
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
have for the former for the former former for the former former former for the former former former for the former	
Inspection Date: 10-3-0 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: PBQ mw 167 Location/Functional Area: Fr	ize + Booster Quarry
Casing Type: Steel Stainless Steel	· · · · · · · · · · · · · · · · · · ·
Screened/Open-Hole Well Type:	_ Monitor Interval Length: toft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 189 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Daut + plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>19.00</u>	1 - 19
Thickness of sediment accumulation (reported depth-present mea Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard,)etc.):	
Inspection Date: 10-3-07 Inspected by: Cal	

Ravenna Army Ammunition Plant	
WELL INSPECTION CHEC	KLISI
WELL INFORMATION:	
Well Number: FBQmw 168 Location/Functional Area: H	17e + Booster Quarry
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: D ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 21.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	┝╤┥┝═┥┝═┥╶────║
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
is the concrete apron cracked or deteriorated? Frost Heaving?	
Is the well labeled with the correct number?	
Describe labeling: DUMT + DUTE	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\frac{21.36}{21.36}$	
Thickness of sediment accumulation (reported depth-present mea	surement): $+, \partial \mathcal{Y}$
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.): $\leq 1''$	
Inspection Date: 10-3-07 Inspected by: Cal	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: FBD mw149_ Location/Functional Area:	<u></u>
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 18 2 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving?	
-	
Is steel protective casing installed? Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Damt + plate.	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap? Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 18,21	
Thickness of sediment accumulation (reported depth-present mea	asurement): -, 0/
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-3-07 Inspected by:	
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Ravenna Army Ammunition Plant		
WELL INSPECTION CHECK		
WELL INFORMATION:		
	17e+Booster Quarry	
Casing Type: Steel Stainless Steel YPVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>ID</u> ft	
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·	
Reported Construction Depth: 3a 6 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:4		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: DUULT + DIATI		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Does the inner casing have a water-ugin cap: Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 32.82		
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-3-07 Inspected by:		

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WELL INSPECTION CHECKLIS	nt ST
WELL INFORMATIÓN:	
Well Number: FBQ MW. 171 Location/Functional Area: FUZ	estrost (Doama
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type: M	Nonitor Interval Length: 0 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>31.1</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion: Y	(ES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: MUL - DOTU	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $31.5 \downarrow$	42
Thickness of sediment accumulation (reported depth-present meas	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-3-07 Inspected by:	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: FBQ mw172 Location/Functional Area: H	H + Boster Charly_
Casing Type: Steel Stainless Steel YPVC	
Soreened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>34.4</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Does the time casing have a water ugit oup .	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 34.5	3
Thickness of sediment accumulation (reported depth-present me	-13
Are there an obstructions in the well?	
Description of well bottom conditions (soft,)hard, etc.): $\underline{-4}$	
Inspection Date: 10-3-07 Inspected by: Cal	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	1
Well Number: FBQ MW 173 Location/Functional Area: FD	12e+ booster Duarry
Casing Type: Steel Stainless Steel	с _О
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>20</u> ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>53</u> ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: ()) () +))()	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>51.79</u>	asurement): 1.2/
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft,)hard, etc.):	ingeaccumulation
- A - A - A - A - A - A - A - A - A - A	
Inspection Date: 0-3-0 Inspected by: 04	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: FB0 mw174 Location/Functional Area: 177	et Booster Quarry
Casing Type: Steel Stainless Steel	.0
Screened/Open-Hole Well Type:	Monitor Interval Length: D ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>26.2</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Dawn + Dlate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	ง และสี่งที่มีของสามหายเหลือของสามของสามหายเหลาง (คราม ครามสามหาย) และสองสามหายงานสามหายงานสามของสามของสามของสา
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\underline{\partial 2.95}$	
Thickness of sediment accumulation (reported depth-present me	asurement): 3.25
Are there an obstructions in the well?	
Description of well bottom conditions (soft/hard, etc.): $\frac{1}{2}$	
Inspection Date: 10-3-01 Inspected by:	

COLUMN STATE

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: FBQ mw 175_ Location/Functional Area: Fu	172 + Booster Quarry
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 2516 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: DUNT 4 Tag	
Security:	
Does the well have a cap or lid?	IXI-IXA
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Does the infer casing have a water-tight cap: Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
· · · · · · · · · · · · · · · · · · ·	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 25.9	asurement): -,3/
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.): $\underline{4}^{11}$	
have been and the second secon	
Inspection Date: 10-3-07 Inspected by: UL	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		<u> </u>
WELL INFORMATIÓN:		
Well Number: FR9mp176 Location/Functional Area: Tu	17e + Bosser Duarry	_
Casing Type: Steel Stainless Steel	v	
Screened/Open-Hole Well Type:	Monitor Interval Length: 0 f	ŧ
Flush-mount/Above-ground Completion:		_ 1
Reported Construction Depth: <u>233</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		dimension of sector
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		_
Is a concrete pad installed?		_
Is the pad cracked or deteriorated? Frost Heaving?		-
Is steel protective casing installed?		
Does the protective casing have a weep hole?		-
Does vegetation around the well need clearing?		-
Flush-mount completion:		1
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		-
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		_
Identification:		
Is the well labeled with the correct number?		-
Describe labeling: MUNT / O atl		
Security:		13
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		-
Does the lock secure well?		-
Does the inner casing have a water-tight cap?		-
Down-hole Condition:	กุลที่สุดที่สี่ได้แต่สารสำหรับสามารถหางการการการการสารสารสารสารการการการการการการการการการการการการกา	1
Is the well casing bent, corroded, or broken (at the surface?)		v Musicipality
Is the well casing loose, (at the surface?)		-
Is a measurement point marked a the top of well casing?		-
Measured depth of the well from measurement point: 24.12		-
Thickness of sediment accumulation (reported depth-present mea	asurement): 782	
Are there an obstructions in the well?		-
Description of well bottom conditions (soft/hard, etc.): $\sum l^{\prime\prime}$		-
Inspection Date: 10-3-01 Inspected by:		-

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: FBQ MW177 Location/Functional Area: Fu	72 + Booster Quarry
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 24,8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	\$99.000 \$199.0000\$190.000 \$199.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190.0000\$190
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	3977/1999/07/07/07/07/07/07/07/07/07/07/07/07/07/
Is the well labeled with the correct number?	
Describe labeling: MUNT 4 DIATE	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 2499	19
Thickness of sediment accumulation (reported depth-present mea	asurement):l [
Are there an obstructions in the well? Description of well bottom conditions (soft) hard, etc.): $\sum_{n=1}^{n}$	
Inspection Date: 10-3-07 Inspected by: <u>Gl</u>	

WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: WW 024 Location/Functional Area:	rdful North of Winklepeck
Casing Type. Steel Stainless Steel	. V
Screened/Open-Hole Well Type:	Monitor Interval Length: (\mathcal{O}) ft
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 227 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	·
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: <u>3</u>	· · · · · · · · · · · · · · · · ·
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	× paint peeling
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	228 88 229 48 74 74 74 76 76 76 76 76 76 76 76 76 76 76 76 76
Is the well labeled with the correct number?	
Describe labeling:	
Security:	un en la désigne de la la désigne de la d
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	**************************************
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	65 +2 05
Thickness of sediment accumulation (reported depth-present measured depth-present measurement)	asurement):7 0,00
Are there an obstructions in the weil?	
Description of well bottom conditions (soft, lard, etc.):	
Inspection Date: 10-2-07 Inspected by: 10/2	MVI,1ter

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: 2NW-mw-025 Location/Functional Area: La	ndfill North of Winklepeck
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: [0] ft
Flush-mount/Above-ground Completion	
Reported Construction Depth: 2 (1 20 ft BGS or	BTOC (chose one only)
19.9 INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	x park peeling
Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed? Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	a na
Is the well labeled with the correct number?	
Describe labeling: Brass plat	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock? Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 20.4	
Thickness of sediment accumulation (reported depth-present mea	asurement): <u>-,55</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 10-2-07 Inspected by: To h	Miller
inspection date. <u>10-201</u> inspected by. <u>JD102</u>	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: 41/W-MW- 026 Location/Functional Area: La	ndfill North of Winklepeck
Casing Type: Steel Stainless Steel	12
Creened/Open-Hole Well Type:	Monitor Interval Length: 0 ft
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 25,8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	x laint peeling
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: 15va35 1 all on cas	in cap
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 26.12	
Thickness of sediment accumulation (reported depth-present me Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10 - 2-07 Inspected by: John	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:	,	
Well Number: <u>(1) W-027</u> Location/Functional Area: <u>La</u>	ndtill North of WINKLEPECK	
Casing Type: Steel Stainless Steel		
Screened/Open-Hote Well Type:	Monitor Interval Length: <u>\O</u> ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 26.7 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Is the well labeled with the correct number?		
Describe labeling: Brass path on the	p cover	
Security:	1999 Marine Carlo Car 1997 Marine Carlo Carl	
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing? 6 Measured depth of the well from measurement point: $29,96$		
Measured depth of the well from measurement point: $\underline{a\chi, 76}$	¹	
Thickness of sediment accumulation (reported depth-present mea	asurement): $-i26$	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard) etc.):		
Inspection Date: 10-2-6] Inspected by: John	Miller	

WELL INFORMATION: Well Number: MTA*TMM - 107 Location/Functional Area: MACA Test Area Casing Type: Steel Stainless Steel PVC Steel Stainless Steel PVC Monitor Interval Length: 10 If Bite Stainless Steel PVC Monitor Interval Length: 10 If Horitor Interval Length: 10 Reported Construction Depti: 24.6 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Number of Guard posts at well: 3 Are the posts positioned to prevent collision damage to the well? Are the posts damaged or degraded? Is the post cost damaged or degraded? Is a concrete pad installed? Is the post cost damaged or degraded? Is the post cost at maged or degraded? Is the post cost damaged or degraded? Is the post cost installed? Is the post cost in stalled? Is the well have a tube mount box? Is the well have a tube.mount box? Is the well	Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
Casing Type: Steel Steinless Steel PVC Seenel/Open-Hole Well Type: Monitor Interval Length: ft Flush-mount/Above-ground Completion: Monitor Interval Length: ft Reported Construction Depth: 24.6 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Number of Guard posts at well: 3 Are the posts positioned to prevent collision damage to the well? Iminst peelins, ft Are any of the posts damaged or degraded? Is a concrete pad installed? Iminst peelins, ft Is the pad cracked or deteriorated? Frost Heaving? Iminst peelins, ft Is the pad cracked or deteriorated? Frost Heaving? Iminst peelins, ft Does the protective casing installed? Iminst peelins, ft Iminst peelins, ft Does the protective casing installed? Iminst peelins, ft Iminst peelins, ft Is the pade tracked or deteriorated? Iminst peelins, ft Iminst peelins, ft Is the traffic cover securely bolted to the flush-mount box? Iminst peelinst Iminst peelinst Does the well have a flush-mount box? Iminst peelinst Iminst Iminst peelinst <t< th=""><th>WELL INFORMATION:</th><th></th></t<>	WELL INFORMATION:	
Secend/Open-Hole Well Type: Monitor Interval Length: ft Flush-mount/Above-ground Completion: INSPECTION ITEMS Reported Construction Depth: 24.6 ft BGS BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Number of Guard posts at well: 3 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the post cacked or deteriorated? Frost Heaving? Is the protective casing installed? Does the protective casing installed? Does the protective casing have a weep hole? Does the vell have a flush-mount box? Is the traffic cover securely botted to the flush-mount box? Is the traffic cover securely botted to the flush-mount box? Is the traffic cover securely botted to the flush-mount box? Is the well have a cap or lid? Does the well have a watherproof lock? Does the lock secure well? Does the well have a watherproof lock? Does the well	Well Number: MTA-MW-107 Location/Functional Area:	ACA Test Area
Sectors //Open-Hole Well Type: Monitor Interval Length: ft Flush-mount/Above-ground Completion: Ft Reported Construction Depth: 24.6 ft BGS INSPECTION ITEMS Well-Head Completion: Number of Guard posts at well: 3 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the post casing installed? Is the protective casing installed? Does the protective casing installed? Does the protective casing installed? Does the protective casing have a weep hole? Does the rotective casing have a weep hole? Does the well have a flush-mount box? Is the traffic cover securely bolted to the flush-mount box? Is the traffic cover cracked or deteriorated? Frost Heaving? Is the well have a flush-mount box? Is the well have a flush-mount box? Is the well have a cap or lid? Does the well have a weatherproof lock? Does the well have a weatherproof lock? Does the lock secure well? Does the lock secure well? Does the lock secure well? Does the well have a weatherproof lock?<	Casing Type: Steel Stainless Steel	
Reported Construction Depth: 24.6 ft BGS or BTOC (chose one only) INSPECTION ITEMS Well-Head Completion: Number of Guard posts at well: 3 Are the posts positioned to prevent collision damage to the well? 7 Are the posts positioned to prevent collision damage to the well? 7 Are the posts positioned to prevent collision damage to the well? 7 Are the posts positioned to prevent collision damage to the well? 7 Are any of the posts damaged or degraded? 7 Is a concrete pad installed? 7 Is steel protective casing installed? 7 Does the well have a flush-mount box? 7 Does the well have a flush-mount box? 7 Does the well have a cap or lid? 7 Does the well have a cap or lid? 7 Does the well have a cap or lid? 7 Does the well have a wath-rtight cap? </th <th></th> <th>_ Monitor Interval Length: ft</th>		_ Monitor Interval Length: ft
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INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS Above-ground completion:	Reported Construction Depth: 24.6 ft BGS or	BTOC (chose one only)
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Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Identification: Is the well labeled with the correct number? Describe labeling: $BVOSS$ p/pK on Cap, max Cirrs on CaSi NG Security: Does the well have a cap or lid? Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 24.44 Thickness of sediment accumulation (reported depth-present measurement): $t \cdot 1/\phi$	Is the traffic cover securely bolted to the flush-mount box?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	Does the well have a flush-mount box?	
Identification: Is the well labeled with the correct number? Describe labeling: Stats on Caf, may Lings on Casing Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 24.44 Thickness of sediment accumulation (reported depth-present measurement): the well?	Is the traffic cover cracked or broken?	
Is the well labeled with the correct number? Describe labeling: BYOSS plate on cap, marking on casing Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 24.44 Thickness of sediment accumulation (reported depth-present measurement): $t \cdot 1/6$	Is the concrete apron cracked or deteriorated? Frost Heaving?	
Describe labeling: Brass plats on cap, may Cinff on casing Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Image: Configuration of the configuration of theconfiguration of the configuration of theconfiguratio	Identification:	Ţ₩₽₽₽₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
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Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 24.44 Thickness of sediment accumulation (reported depth-present measurement): + 1/6		land the second
Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 24.44 Thickness of sediment accumulation (reported depth-present measurement): 4.16 X		
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Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 24.44 Thickness of sediment accumulation (reported depth-present measurement): t ,		an a
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 34.44 Thickness of sediment accumulation (reported depth-present measurement): $t, 16$ Are there an obstructions in the well?	Is the well casing bent, corroded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 24.44 Thickness of sediment accumulation (reported depth-present measurement): $t, 16$ Are there an obstructions in the well?	G	
Measured depth of the well from measurement point: 34.44 Thickness of sediment accumulation (reported depth-present measurement): t , l ϕ Are there an obstructions in the well?		
Thickness of sediment accumulation (reported depth-present measurement): $\frac{f}{\sqrt{\phi}}$ Are there an obstructions in the well?		4
Are there an obstructions in the well?		easurement): $t, 16$
	• - • •	
Inspection Date: 10-3-07 Inspected by: John Miller	Inspection Date: 10-3-07 Inspected by: Juhn	Miller

TRUCK WALL

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:	ACA Track A	
Well Number: MTA-MW-LO8 Location/Functional Area:	Unite lest Anea	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: lO ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 34.4 ft BGS or	BTOC (chose one only)	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well: 3		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	X D print peeling not	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number? Describe labeling: Krgss n/NB un cup, mark		
Security:	ings on casing	
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 24.61		
Thickness of sediment accumulation (reported depth-present mea	surement):	
Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-3-07 Inspected by: John	Miller	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MTA-MU- 109 Location/Functional Area: 1	VACA Test Area
Casing Type: Steel Stainless Steel	
Screezed/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>DO 9</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	D paint neeling, vust
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	X Dad is loose
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: 13123 p Me, Markings	on casing
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $12-23$	- 21,01
Thickness of sediment accumulation (reported depth-present measurement): -,//	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, barri, etc.):	
Inspection Date: 10-3-07 Inspected by: TUMM Miller	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
Well INFORMATION: Well Number: NTA-MW-110 Location/Functional Area:	NACA Test Area
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: (\mathcal{O} ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 29.6 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	***************************************
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X D part poling, rus
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	224799999999999999999999999999999999999
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Markings on Casing	v
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	na an an far an the same far and an
is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\frac{\chi_{9}}{\chi_{9}}$	<u>K</u>
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 10-3-07 Inspected by: Town	Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: NTA mwlll Location/Functional Area:	NALA Test Area
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 22.4 ft BGS or	BTOC (chose one only)
	-
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Growing up.
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Daunt + Plate	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.18	
Thickness of sediment accumulation (reported depth-present me	$\frac{1}{2} + \frac{1}{2} + \frac{1}$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-3-01 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN:		
Well Number: <u>NTA mw II 2</u> Location/Functional Area:	NACA Test Area	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: LO ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 26.9 ft BGS or	BTOC (chose one only)	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	22.2017/10/10/10/10/10/10/10/10/10/10/10/10/10/	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	NUMPERSON CONTROL Control (No. 10) - 10 - 10 - 10 - 10 - 10 - 10 - 10	
Is the well labeled with the correct number?		
Describe labeling: Paint plate		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: $\Delta U \cdot I \psi$	·	
Thickness of sediment accumulation (reported depth-present mea	asurement): $+,14$	
Are there an obstructions in the well? Description of well bottom conditions (soft) hard, etc.): 4		
Inspection Date: 10- ひろ Inspected by: CL		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN:		
Well Number: 174 mp 113 Location/Functional Area:	NACA Test Area	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>30.6</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving?		
1 · · · · · · · · · · · · · · · · · · ·		
Is steel protective casing installed? Does the protective casing have a weep hole?		
Does the protective casing have a weep note: Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: <u>Dawt plate</u>		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap? Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 29.4		
Thickness of sediment accumulation (reported depth-present me	easurement): $+1,19$	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.): $\frac{\mathcal{F}''}{\mathcal{F}''}$		
Inspection Date: (0-3-07 Inspected by:		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN:		
Well Number: NTA mw 11 4 Location/Functional Area:	NACA Test Area	
Casing Type: Steel Stainless Steel PVC		
	Manifer Interval Langthy 10 #	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 02 6 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well: <u>3</u>		
Are the posts positioned to prevent collision damage to the well?	· [X] [] []	
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	NEW CONTRACTOR NO. 10 (1997) (199	
Is the well labeled with the correct number?	(2)	
Describe labeling: Daint + Dlate		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: <u>239</u>		
Thickness of sediment accumulation (reported depth-present me	easurement): -,3/	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, fard etc.):		
Inspection Date: 10-3-07/ Inspected by:		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
Well Number: NT4 m w 115 Location/Functional Area:	NACA Test Area	
Casing Type: Steel Stainless Steel	Monitor Interval Length: 10 ft	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 25.2 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Damt + Dlate		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?	, LŽILILI	
Measured depth of the well from measurement point: $25,4$	1, -, 21	
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well? Description of well bottom conditions (soft, hard etc.):		
Inspection Date: 0-3-07 Inspected by:		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: NTAmw 11 6 Location/Functional Area:	NACA Test Area	
Casing Type: Steel Stainless Steel	· · ·	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: 6	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: ふえん ft BGS or	BTOC (chose one only)	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:2		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Name + Plate		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 22,	1,9	
Thickness of sediment accumulation (reported depth-present me	asurement): $-,09$	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-3-07 Inspected by:		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: NTAmel 17 Location/Functional Area: N	TACA Test Area
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: _ [0 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 27.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	C 2010 C 2010 M M M M M M M M M M M M M M M M M M
Is the well labeled with the correct number?	
Describe labeling: DAME + PLACE	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	، لـكالـــا ــــــ
Measured depth of the well from measurement point: $\frac{\partial l}{\partial l}$	$\overline{asurement}$: $-,2/$
Thickness of sediment accumulation (reported depth-present mea Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
$\frac{1}{2}$	
Inspection Date: <u>0⁻2⁻0</u> Inspected by: <u>4</u>	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: NT4 ~ UIS Location/Functional Area: N	JACA Test Area	
Casing Type: Steel Stainless Steel		
Screened/Open-Hole Well Type:	Monitor Interval Length: i O ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>24.6</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: <u>24, 82</u> Thickness of sediment accumulation (reported depth-present me Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-3-07 Inspected by:	······	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: RQL MWOOV Location/Functional Area: K	ansael andful
Casing Type: Steel Stainless Steel	fur fur for a for
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 41.4 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	DE Peelin paint
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	######################################
Is the well labeled with the correct number?	
Describe labeling: print	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>43.13</u> Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft (hard) etc.):	
Inspection Date: 10-1-07 Inspected by:	

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Ravenna Army Ammunition I	
WELL INSPECTION CHECK	LIST
WELL INFORMATIÓN:	
Well Number: RALMW-007 Location/Functional Area: Ran	nodell Quarry Landfill
Casing Type: 🔀 Steel 🔄 Stainless Steel 🔽 PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: [0 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 18 7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	╞━┥┝╤┥╶───
Is the traffic cover cracked or broken?	╞═┥╞═┥╞╬╤┥╶──────
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Sover want on Calib	
	and a second
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 18.10	
Thickness of sediment accumulation (reported depth-present meas	$\frac{1}{2}$ $(-, 40)$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): I+av	
,	
Inspection Date: 64 1, 2007 Inspected by: Stephen	Sturgeon

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Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: <u>RGL MW 608</u> Location/Functional Area:	Ramsdell Duarra Landhy
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 18.5 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	an a
Number of Guard posts at well:O	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	Hinge Broken on C
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	и и на полното на на полно на вали на полно на п На полно на полно на полно на вали на полно на по
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Brass Plate & Well Nung	
Security:	รามการกระบาทที่สามารถกระบาทไม่แก่ง (และ กระบาท ไม่การกระบาทการประกาศ กระบาทการประกาศ กระบาทการประมาณ กระบาทการป
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 18.7	2
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	A
Inspection Date: 10-1-07 Inspected by: AMU	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>RGL MW609</u> Location/Functional Area: R	modell Diarma landfill
Casing Type: Steel Steel PVC	And Chronic and Color
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 18.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: $\underline{\mathcal{O}}$	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	Hinge Broken on Ore to Ca
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass Play Well ID	Verbe
Security: Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 18.9	
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-07 Inspected by: Juhn N	rille

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>RQL MWOID</u> Location/Functional Area: <u>R</u>	modell Diamin Landfill
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: QO ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 35, ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	E Deelin paint
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole? Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	NON-2014 CONTRACTOR DE CONT
is the well labeled with the correct number?	
Describe labeling: Dawht	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock? Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Does the niner casing have a water-tight cap?	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	
Thickness of sediment accumulation (reported depth-present measurement): -,32	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-07 Inspected by:	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
	anstru Duanas Landfill
	under quarter carater
Casing Type: Steel Stainless Steel	20
Screened/Open-Hole Well Type:	Monitor Interval Length: <u></u> <u></u> ft ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 34.6 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	EX Deelin paint
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	тттт на таки сола на си си на на получита за колости си си на на получита се соло со со со со со со со со со со - таки на состати со
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 35.44	$\frac{1}{2}$
Thickness of sediment accumulation (reported depth-present mea Are there an obstructions in the well?	asurement): · · · ·
Description of well bottom conditions (soft, hard, etc.):	
Increation Data: 10-1-07	
Inspection Date: 10-1-07 Inspected by: 01	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: <u>ROL MWOIZ</u> Location/Functional Area: <u>R</u>	ansden Quarry Landfill	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 32.5 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:4		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	K Peelio punt	
Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing installed?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling:		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock? Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 32.70		
Thickness of sediment accumulation (reported depth-present mea	surement): $\underline{\neg 26}$	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, letc.):		
Inspection Date: 10-1-07 Inspected by: Cal		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: ROL MWO13 Location/Functional Area: RAMSOLD QUARRY LANDFUL	
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type: Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 36.6 ft BGS or BTOC (chose one only)	
INSPECTION ITEMS	
Well-Head Completion: YES NO N/A COMMENTS	
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: DIM	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Is the well casing bent, corroded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $30,50$	
Thickness of sediment accumulation (reported depth-present measurement): 7.03	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-07 Inspected by: 6	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>RQL_MW014_</u> Location/Functional Area: Ra	msdell Quarry Landfill
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: (O ft
Flush-mount/Above-ground Completion:	· · ·
Reported Construction Depth: 31,6 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded? Is a concrete pad installed?	Peelin paint
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	มม ในบารแบบของนี้ ๆ ในของนี้เอ้าแสมเขาในประเทศสารแรงที่สารทางสารแรงของของไปมักรับไม่ได้สารทางการทางได้ได้ได้มา
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>PAWH</u>	
Security: Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	ани на
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $31,44$	asurement): +.16
Thickness of sediment accumulation (reported depth-present means Are there an obstructions in the well?	
Description of well bottom conditions (soft, parc, etc.):	
Inspection Date: 10-1-07 Inspected by:00	
	· · · · · · · · · · · · · · · · · · ·

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: <u>ROL MW015</u> Location/Functional Area: R	Lamsell glarry Landfill	
Casing Type: Steel Stainless Steel X PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·	
Reported Construction Depth: <u>41.6</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?	X peelin paint	
Are any of the posts damaged or degraded?	Fain here bains	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling:		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 42.14		
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 101-07 Inspected by:		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>ROL_MW016</u> Location/Functional Area: <u>ROL</u>	msdell quarry Landhill
Casing Type: Steel Stainless Steel 🔀 PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	····
Reported Construction Depth: <u>41.6</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: Number of Guard posts at well: 4 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number?	X Reeling parent X X Reeling parent X X R Reeling parent X X R Reeling parent X X R Reeling parent X X R Reeling parent X R R R R R R R R R R R R R R R R R R R
Describe labeling: <u>Mint</u>	
Security:	
Does the well have a cap or lid? Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: <u>43.85</u> Thickness of sediment accumulation (reported depth-present me Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	$\begin{array}{c c} & & & \\ \hline & & \\ \hline & & \\ \hline & & \\ \hline \\ \hline$
Inspection Date: 10-1-07 Inspected by: 0	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
Well Number: RQC MW017 Location/Functional Area:	Pangle M. Quarry Landfill	
	MILANY JANNIN MILLI	
Casing Type: Steel Stainless Steel PVC	Manifes Informal Langths 11 ft	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>16</u> ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 325 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well: 4		
Are the posts positioned to prevent collision damage to the well?	Reline print	
Are any of the posts damaged or degraded?	× · · · · · · · · · · · · · · · · · · ·	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole? Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
is the well labeled with the correct number?		
Describe labeling: <u>paunt</u>		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 32.8		
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard) etc.):		
Inspection Date: 10-1-07 Inspected by: Cal		

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Ravenna Army Ammunition WELL INSPECTION CHECK		
WELL INFORMATIÓN:		
Well Number: WBG-MW 005 Location/Functional Area: W	INKLEPECK BUI	ning Grounds
Casing Type: Steel Stainless Steel		0
creened/Open-Hole Well Type:	Monitor Interval Le	ngth:ft
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 241.9 ft BGS or	BTOC (cho	se one only)
211 inspection items	· · ·	
Well-Head Completion:	YES NO N/A	COMMENTS
Above-ground completion:	***************************************	
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		Square casing
Are any of the posts damaged or degraded?		hinges are tus
Is a concrete pad installed?		J
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?	$\Box \Box \Box T$	
Identification:	29 4 (1):	***************************************
Is the well labeled with the correct number?/		
Describe labeling: BV055 plate		· · · · · · · · · · · · · · · · · · ·
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?	$\Sigma \Box \Box$	
Does the inner casing have a water-tight cap?		
Down-hole Condition:		******
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 21,2	1	
Thickness of sediment accumulation (reported depth-present mea	asurement):	2
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-2-07 Inspected by: John	Millar	
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-	Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:			
Well Number: WBF MW 006 Location/Functional Area: U	DINKLEPECK BUrning Grounds		
Casing Type: Steel Stainless Steel			
Screened/Open-Hole Well Type:	Monitor Interval Length: D ft		
Flash-mount/Above-ground Completion:			
Reported Construction Depth: 20.4 ft BGS or	BTOC (chose one only)		
INSPECTION ITEMS	7		
Well-Head Completion:	YES NO N/A COMMENTS		
Above-ground completion:			
Number of Guard posts at well: 3			
Are the posts positioned to prevent collision damage to the well?			
Are any of the posts damaged or degraded?	Concrete tops not on		
Is a concrete pad installed?			
Is the pad cracked or deteriorated? Frost Heaving?			
Is steel protective casing installed?			
Does the protective casing have a weep hole?			
Does vegetation around the well need clearing?			
Flush-mount completion:			
Is the traffic cover securely bolted to the flush-mount box?			
Does the well have a flush-mount box?			
Is the traffic cover cracked or broken?			
Is the concrete apron cracked or deteriorated? Frost Heaving?			
Identification:			
Is the well labeled with the correct number?			
Describe labeling: Brass nates in comen			
Security:			
Does the well have a cap or lid?			
Does the well have a weatherproof lock?			
Does the lock secure well?			
Does the inner casing have a water-tight cap?			
Down-hole Condition:	and the second		
Is the well casing bent, corroded, or broken (at the surface?)			
Is the well casing loose, (at the surface?)			
Is a measurement point marked a the top of well casing?			
Measured depth of the well from measurement point: 20.2			
Thickness of sediment accumulation (reported depth-present mea	asurement)://		
Are there an obstructions in the well?			
Description of well bottom conditions (soft, hard) etc.):			
Inspection Date: 10-2-02 Inspected by: John Miller			

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: WIG-190-607 Location/Functional Area:	Dinklepeck Burning Grounds
Casing Type: Steel Stainless Steel	
Screened Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>26.3</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: Number of Guard posts at well: Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving? Is the well labeled with the correct number? Describe labeling: Svgg S Number of Concrete appending:	
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 26.50 Thickness of sediment accumulation (reported depth-present mea Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.): Inspection Date: Mathematical Inspected by:	$\begin{array}{c c} & & & \\ \hline \\ \hline$
inspection bate. <u>10-10-0</u> inspected by: <u>10/11</u>	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATIÓN:	
Well Number: <u>WBG-mw-008</u> Location/Functional Area: <u>Wu</u>	nklepeck Burning Grounds
Casing Type: 📝 Steel 🦳 Stainless Steel 🏹 PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>(</u>) ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 200 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: Number of Guard posts at well: 3 Are the posts positioned to prevent collision damage to the well? Are any of the posts damaged or degraded? Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving? Is steel protective casing installed? Does the protective casing have a weep hole? Does vegetation around the well need clearing? Flush-mount completion: Is the traffic cover securely bolted to the flush-mount box? Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving?	X Concrete tops off they X X X X X X X X X X X X X X X X X X X
Identification: Is the well labeled with the correct number?	
Describe labeling: 18 1955 plate	
Security: Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap? Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: <u>20.92</u> Thickness of sediment accumulation (reported depth-present measurement accumulation (reported depth-present measurement point) Are there an obstructions in the well? Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-1-57 Inspected by: John	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN:		
Well Number: WBIF MW-007 Location/Functional Area: 4) INKLEPECK Burning Grounds	
Casing Type: Steel Stainless Steel	· · · · · · · · ·	
Screened/Open-Hole Well Type:	Monitor Interval Length: LO ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth:	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: <u>BVR55</u> plate		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap? Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 24.40		
Thickness of sediment accumulation (reported depth-present mea		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10 - 2 - 07 Inspected by: John	Miller	

WELL INFORMATION: Well Number: <u>WBG-MW - OLD</u> Location/Functional Area: <u>WINKLEPECK BURNIN Growds</u> Casing Type: Steel Stainless Steel PVC	
Casing Type: Steel Stainless Steel PVC	ft
Casing Type: Steel Stainless Steel PVC	ft
	ft
Screened/Open-Hole Well Type: Monitor Interval Length:	
Flush-mount/Above-ground Completion:	-
Reported Construction Depth: 33.6 ft BGS or BTOC (chose one only)	
INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS	
Above-ground completion:	
Number of Guard posts at well:	(online).
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	_
Is a concrete pad installed?	—
Is the pad cracked or deteriorated? Frost Heaving?	—
Is steel protective casing installed?	_
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	- to asline the second
Is the traffic cover securely bolted to the flush-mount box?	_
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	—
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: DV935 Plates	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	—
Does the lock secure well?	—
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	<u> </u>
Is a measurement point marked a the top of well casing?	
Thickness of sediment accumulation (reported depth-present measurement).	—
Are there an obstructions in the well?	—
$\frac{1}{10-7-57} = \frac{1}{10-7-57}$	
Inspection Date: 10-2-51 Inspected by: JDHM MILLEV	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: WBG-MW-OIL Location/Functional Area:	Winklipeck Burning Grounds	
Casing Type:		
Screened/Open-Hole Well Type:	Monitor Interval Length: ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>24.0</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	*	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling:		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 23.9		
Thickness of sediment accumulation (reported depth-present me	asurement): +,04	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 10-2-02 Inspected by: Tohn	Miller	

Ravenna Army Ammunition	Plant
WELL INSPECTION CHECK	
WELL INFORMATION:	
	Klapeck Brain Formula
Well Number: WBG mw - 012 Location/Functional Area: Wy	helepeck in my grounds
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hele Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>32.0</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	R _ one pole is leaning
Are any of the posts damaged or degraded?	2 Dolos need painting
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	944-94-94-94-94-94-94-94-94-94-94-94-94-
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: 13 vg 53 0 ate	
Security:	ся на правити на раз так у бало на правити на како полно на правити на правити на правити на правити на правит С в на правити на правит
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	нуна ба <mark>уд</mark> ар Ланий каланда н каландан каландан каланда каланда каланда каланда каланда каланда каланда каланда Каланда каланда
Is the well casing bent, corroded, or broken (at the surface?)	
is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 31.73	<u> </u>
Thickness of sediment accumulation (reported depth-present me	asurement): +, 27
Are there an obstructions in the well?	
Description of well bottom conditions (soft, fard, etc.):	
Inspection Date: 10-2-07 Inspected by: JOHN	MIVIAN

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: WBG-MW-013 Location/Functional Area: (1)	INKLEPECIL BURNIN Grounds	
Casing Type: Steel Stainless Steel OPVC		
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 239 ft 🔲 BGS or	BTOC (chose one only)	
Weil-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Brass plate		
Security:	,	
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?	↓∕Ľ⊔∟∟	
Measured depth of the well from measurement point: $29, 2$	$\frac{2}{332}$	
Thickness of sediment accumulation (reported depth-present me	asurement):	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
	(DA) = -	
Inspection Date: 10-2-01 Inspected by: John	< WINNER	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATIÓN: gr	0	
Well Number: $WBC-MU-OI47$ Location/Functional Area: W_{II}	nklepeck Borning Grounds	
Casing Type: Steel Stainless Steel	· _ · · · · · · · · · · · · · · · · · ·	
Screened/Open-Hole Well Type:	Monitor Interval Length: LO ft	
Flush-mount/Above-ground Completion:	• • • • • • • • • • • • • • • • • • •	
Reported Construction Depth: 25 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:	·	
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number? \int		
Describe labeling: Not marked		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 25.0	<u> </u>	
Thickness of sediment accumulation (reported depth-present me	easurement): $-,07$	
Are there an obstructions in the well?		
Description of well bottom conditions (soft hard, etc.):	<u></u>	
Inspection Date: 10-2-07 Inspected by: John	Miller	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: WBG-MW-015 Location/Functional Area: 4	JINKLE peak Burning Grounds	
Casing Type: Steel Stainless Steel	·	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: <u>38</u> ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling:		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 23.62 This knows of application (reported depth-present measurement): $+18$		
Thickness of sediment accumulation (reported depth-present mea		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, fard) etc.):		
Inspection Date: 10-2-07 Inspected by: JOhn	Miller	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST					
WELL INFORMATION:	•				
Well Number: $MBG-MW-Old$ Location/Functional Area: W_{11}	nklepeck Burning Grounds				
Casing Type: Steel Stainless Steel	\mathcal{C}				
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>ID</u> ft				
Flush-mount/Above-ground Completion:					
Reported Construction Depth: 25.4 ft BGS or	BTOC (chose one only)				
INSPECTION ITEMS					
Well-Head Completion:	YES NO N/A COMMENTS				
Above-ground completion:					
Number of Guard posts at well:					
Are the posts positioned to prevent collision damage to the well?					
Are any of the posts damaged or degraded?	LX paint peeling				
Is a concrete pad installed?					
Is the pad cracked or deteriorated? Frost Heaving?					
Is steel protective casing installed?					
Does the protective casing have a weep hole?					
Does vegetation around the well need clearing?					
Flush-mount completion:					
Is the traffic cover securely bolted to the flush-mount box?					
Does the well have a flush-mount box?					
Is the traffic cover cracked or broken?					
Is the concrete apron cracked or deteriorated? Frost Heaving?					
Identification:					
Is the well labeled with the correct number?					
Describe labeling: Brass plate in ancrete	-				
Security:					
Does the well have a cap or lid?					
Does the well have a weatherproof lock?					
Does the lock secure well?					
Does the inner casing have a water-tight cap?					
Down-hole Condition:					
Is the well casing bent, corroded, or broken (at the surface?)					
Is the well casing loose, (at the surface?)					
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 25.3					
Thickness of sediment accumulation (reported depth-present me					
Are there an obstructions in the well? Description of well bottom conditions (soft) hard, etc.):					
Inspection Date: 10-2-01 Inspected by: Tohm	Miller				

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Ravenna Army Ammunition	· · · · · · · · · · · · · · · · · · ·
WELL INSPECTION CHEC	
WELL INFORMATIÓN:	
Well Number: WBG; MM-017 Location/Functional Area:	WINKlepeck Burning Grounds
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	_ Monitor Interval Length:(U ft
Flush-mount/Above-ground Completion:	• · · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: <u>339</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: BVGS5 plate	
Security:	<u>88988-2019-2019-2019-2019-2019-2019-2019-2019</u>
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	2004 - 2011 - 2017 -
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.8	2
Thickness of sediment accumulation (reported depth-present me	easurement): ± 08
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 10-2-07 Inspected by: John	r Miller

Ravenna Army Ammunition Pl WELL INSPECTION CHECKL	
WELL INFORMATIÓN:	
Well Number: MBS-MW- OOL Location/Functional Area: Mus	stand Agent Burial Site
Casing Type: Steel Stainless Steel PVC	0
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 31.5 ft BGS or [BTOC (chose one only)
INSPECTION ITEMS	•
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: BVass plate, Markings	64 Casing
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>31.03</u>	
Thickness of sediment accumulation (reported depth-present meas	surement): $\pm,47$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Part is under water	
Inspection Date: 10-3-07 Inspected by: TOW	n Miller

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Ravenna Army Ammunition WELL INSPECTION CHECK	
Well INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MBS-MW-002 Location/Functional Area: M	estard Agent Linial Sta
Casing Type: Steel Stainless Steel	U .
Screened Open-Hole Well Type:	Monitor Interval Length: 6 ft
Flush-mount/Above-ground Completion	· · ·
Reported Construction Depth: 30.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: , /	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass n att, Mar King	S on casim
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: 30.4	
Thickness of sediment accumulation (reported depth-present mea	asurement): + i a 6
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
$\sum_{i=1}^{n} \frac{1}{2} $	in these
Inspection Date: $\frac{10-3-07}{10}$ Inspected by: $10M$	VV [] I IVV

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATIÓN:	
Well Number: <u>MB5-Mw-003</u> Location/Functional Area: <u>M</u>	ustard Azent Burial Sole
Casing Type: Steel Stainless Steel	0
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 30.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Brass place, mar loss a	on casing
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>30,21</u>	- 21
Thickness of sediment accumulation (reported depth-present me	asurement): <u>-,3/</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, faid, etc.):	
Inspection Date: <u>10-3-61</u> Inspected by: <u>John</u>	Miller

Ravenna Army Ammunition F WELL INSPECTION CHECK	
WELL INFORMATIÓN:	
	ward Agent Curial Site
Casing Type: Steel Stainless Steel	0
Screenetl/Open-Hole Well Type:	Monitor Interval Length: <u>l0</u> ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 27.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: 13 V 935 p atre, Markings	on casing
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: <u>26.66</u> Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-3-07 Inspected by: John	Miller
	· · ·

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATIÓN:	
Well Number: <u>MBS mw-005</u> Location/Functional Area: <u>M</u>	Usturd Agent Burial Site
Casing Type: Steel Stainless Steel X PVC	O ,
Screened Open-Hole Well Type:	_ Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 30 2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: -4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	[] []
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 30.14	$\frac{2}{100000000000000000000000000000000000$
I hickness of sediment accumulation (reported depth-present me	easurement):
Are there an obstructions in the well? Description of well bottom conditions (soft) hard, etc.):	
Inspection Date: $10 - 3 - 07$ Inspected by: $10W$	2 Miller

Ravenna Army Ammunition P WELL INSPECTION CHECKL	
WELL INFORMATION:	
Well Number: MBS. MW-066 Location/Functional Area: MU	Surd Agent Burial Site
Casing Type: Steel Stainless Steel	5
Screened/Open-Hole Well Type:	Monitor Interval Length: [O ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 382 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Bress place, Marking	on casing
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $3X-3$	
Thickness of sediment accumulation (reported depth-present mea	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-3-07 Inspected by:	n Miller

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APPENDIX D

LABORATORY AUDIT REPORT



Environmental Quality Management, Inc.

Draft Audit Report TestAmerica Laboratories, Inc. North Canton, Ohio

Ms. Dorothy Leeson Quality Assurance Manager TestAmerica Laboratories, Inc. TA North Canton 4101 Shuffel Drive NW North Canton, Ohio 44720 October 16, 2007

Dear Ms Lesson,

On behalf of Environmental Quality Management, Inc. (EQ), I would like to thank you and the staff at TestAmerica (TA) North Canton for your cooperation and assistance during the on-site audit of your facility on July 24, 2007.

The audit was intended to focus on the data reporting process of TA North Canton, which actively plays a role in the handling of EQ samples. This Audit Report reflects issues observed during the on-site evaluation and any associated items discovered during the July 2007 data package review. Applicable processes covered during this audit were:

- Viewing of the Laboratory Facility (lay-out, cleanliness, equipment, and space)
- Review of Sample Receiving and custody procedures
- Interviews with laboratory management, quality assurance personnel, and technical staff
- Review of techniques employed to communicate client-specific analytical requirements to technical personnel within the laboratory and general project management within TA.
- Review of data reporting and records retention.

The purpose of this audit was to evaluate your facility for continued use by EQ in support of the U.S Army Corps of Engineers (USACE) Former Ravenna Army Ammunition Plant contract currently in place. It was also used as a communication mechanism to address recent laboratory performance issues identified by EQ personnel relevant to TA North Canton's analytical documentation in support of EQ's USACE contract (see General Comments section of this report for further discussion).

Reviewed documents include the July 2007 data packages and the Laboratory Quality Manual. A modified NELAC Audit checklist, attached to this Audit Report, was used to assist in ascertaining TA North Canton's ability to provide complete, correct, and compliant data packages.

- 1 -

The audit was conducted by Heather Medley of EQ, and included participation from several key TA North Canton personnel. TA North Canton personnel interviewed for this audit include:

Dorothy Leeson, Quality Assurance Manager Mark Loeb, Project Manager Tom Stiller, Group Leader GC/MS Volatiles Mark Ulman, Analyst GC/MS Semi-Volatiles Angela Serra, Group Leader GC Semi-Volatiles Olguita Colon, Group Leader Wet Chem Heather Bosworth, Reporting

TA North Canton is a mature laboratory, which is staffed with an extremely qualified and competent team of managers, chemists, and technicians. Facilities and instrumentation are adequately suited to meet the current workload of the laboratory. During the course of this audit, EQ identified five proficiencies, seven findings, and three observations. These are detailed in the following pages.

The result of this audit demonstrates that TA North Canton is capable of meeting the Quality Systems and Contractual Requirements necessary to analyze EQ samples in support of LCG work. Basic systems are in place to ensure data provided is legally defensible. The laboratory maintains the necessary personnel, equipment, licenses, certifications, and administrative controls necessary to meet contractual criteria. It will be my recommendation to EQ management, assuming issues identified during the course of this audit are satisfactorily resolved, that TA North Canton continues to provide analytical support to EQ on USACE/RVAAP currently under contract.

As a response to this audit, TA North Canton is requested to submit a Corrective Action Plan (CAP) to Heather Medley within 30 calendar days of receipt of this audit report, addressing each finding noted. Observations do not require a formal CAP, but must be addressed with a brief response. Responses to findings should contain the following critical items: a formal response; an itemized list of corrective actions performed to address a finding; an estimated scheduled date for completion (including applicable implementation dates); appropriate supporting documentation (i.e. procedure/policy revisions, additional staff training, Quality Assurance Plan revisions, and QA officer verifications of CAP implementation).

If for any reason TA North Canton requires additional clarification or feels that any of these findings have been improperly evaluated, please feel free to contact me. Again, thank you for your assistance and cooperation.

Sincerely,

Heather Medley Project Chemist Environmental Quality Management, Inc.

- 3 -

Enclosure

cc: with enclosure: Jackie Doan, EQ Erik Corbin, EQ John Miller, EQ

Audit Proficiencies

- 1.) TA North Canton utilizes an electronic Internal Chain of Custody via scanning bar-code labels affixed to sample containers. This documents possession of samples from time of receipt until disposal and allows the lab to electronically generate ICOC forms.
- 2.) It was noted by the EQ auditor that most employees have been with the North Canton facility for extended periods of time; it would appear that employee turnover is not a significant problem faced by this particular laboratory.
- 3.) The General Chemistry lab implemented reporting of the standard IDs and true values. The report format allows recoveries to be calculated with ease.
- 4.) Sample log-in personnel efficiently and effectively document sample receipts.
- 5.) The electronic compilation of data packages is unique.

Audit Findings

<u>Finding #1</u>: Standard and reagent origin, receipt, and preparation information for organic analyses is not routinely included in data packages.

Standard(s): NELAC Chapter 5, Section 5.4.12.2.5.3

Status: Open

<u>Discussion</u>: The data package reviews for April and July 2007 identified that the standard reagent and prep documentation was not included. A validator would not be to able recalculate QC recoveries from the standards used due to the lack of the documentation.

Finding #2: The July 2007 data packages did not include the PCB and Pesticide QC/MRL summary forms

Standard(s): NELAC Chapter 5, Section 5.4.12.2.5.3 and Section 5.5.10.1

Status: Open

<u>Discussion</u>: MRL summary forms were requested for both April and July 2007 data packages. The LCG requires QC/MRL checks to be analyzed and reported.

Finding #3: CCV %Ds and MRL %Ds were not included in the QA/QC section. This information was included in the raw data at the end of the ICAL information for organic analyses.

Standard(s): LCG Section 2 "Data Reporting", Item Number 5, page 76

Status: Open

<u>Discussion</u>: In recent data packages the ICAL raw data had to be reviewed to find the CCV %D and MRL %Ds.

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Finding #4: The case narratives are very generic and do not describe all nonconformances.

Standard(s): LCG Section 3.5.3 and Section 2 "Data Reporting", Item Number 3, page 75

Status: Open

<u>Discussion</u>: The case narratives describe basic QC item non-conformances, i.e. MS/MSD failures, blank contamination, and results between the MDL and RL. The

- 5 -

case narratives do not document ICV, CCV, and/or MRL compliance/non-compliance to the LCG criteria.

<u>Finding #5</u>: The analytical result forms report the date sampled, extracted, and analyzed on page 1 only.

Standard(s): LCG, Table 2-1 and Section 2 "Data Reporting", Item Number 4 pages 75 and 76

Status: Open

<u>Discussion</u>: When analytical result forms were multiple pages in length, the date sampled, extraction date, and analysis date were not carried over to the subsequent pages.

Finding #6: All results for samples with multiple dilutions were not reported.

Standard(s): LCG Table 2-1

Status: Open

<u>Discussion</u>: Pesticides samples were diluted for both the April and July sample events. All analyses were not reported in the data packages.

Finding #7: Pesticide results have been reported with elevated reporting limits with non-detect results above the PQLs listed in the QAPP. The extracts were not cleaned prior to analysis.

Standard(s): LCG Table 2-2

Status: Open

<u>Discussion</u>: Samples for pesticide analyses had to be diluted due ot matrix intereference. The dilution raised the reporting limits. All analytes in FWGLL1mw-083c-0486-GW and FWGLL1mw-DUP3-0499-GW were reported as non-detects with RL above the QAPP PQLs.

Audit Observations

- 1.) The data packages are not complete when reported. This results in follow-up questions and actions during the data review process due to information not being provided or it is unclear what the lab did and why.
- 2.) The data reporting system appears to allow for additional comments to be added to the case narratives. However, it doesn't appear to be consistently happening.
- 3.) For the July event, 3 of 4 SDGs had the VOAs analyzed on an instrument that had Bromomethane recover low in the ICV. There was no comment made in the case narrative of the ICV failure.

General Comments

The data packages need to explain all the issues, situations, LCG QC failures encountered from the time of sample receipt to data reporting. The objective would be for a person not involved with the project to review the data package and be able to find all the necessary information and understand what happened and why.

It appears the data packages are not being reviewed to ensure all the required summary forms and raw data are included.

Item No.	Area Examined	Yes	<u>No</u>	<u>N/A</u>	Comments:
1.	Organization and Management:			(See State	
1.1	a) Has the lab specified and documented the responsibility, authority, and interrelationship of all personnel who manage, perform, or verify work affecting the quality of tests?	x			
	b) Has the lab provided supervision by persons familiar with the test methods and procedures, the objective of the test, and the assessment of the results?	x			
	c) Does the lab have a technical manager who has overall responsibility for the technical operations?	x			The Technical Director is Mark Bruce.
	d) Does the lab have a quality manager who has responsibility for the quality system and its implementation? Does the quality manager have direct access to the highest level of management at which decisions are taken on lab policy or resources, and to the technical manager (in some labs the quality manager may also be the technical manager)?	x			The Quality Manager is Dorothy Lesson.
2.	Quality System, Audit and Review:	NA ST	C.C.T.Hosk	STATES SEA	
2.1	Does quality manual and related quality documentation contain:				
	a) Procedures for control and maintenance of documentation?	X			
	b) Identification of the lab's approved signatories for reports?	x			The Project Manager has final signature on reports.
2.2	QA/QC policies, procedures, and practices:	Side Sold Side Side Side Side Side Side Side Side Side			
}	a) Is a documented corrective action plan implemented when analytical results fail to meet QC criteria?		x		A NCM is not always initiated when LCG QC criteria is not met.
	b) Do records indicate what corrective action has been taken when results fail to meet QC criteria?		x		If a NCM was initiated, a corrective action would be noted. However, a NCM or corrective action is not implemented.
	c) Do supervisory personnel review the data calculations and QC results?	x			Supervisory or second analyst

Page 1 of 6

10/29/2007

Item No.	Area Examined	Yes	<u>No</u>	<u>N/A</u>	Comments:
	d) Are deviations or deficiencies in QC reported to management, and are such reports recorded?	Х		- <u>-</u>	Deviations and/or deficiencies are documented through the NCM process to management.
3.	Test Methods:	法深意			
3.1	Does the lab have documented procedures for data handling, reporting, and record keeping? Are calculation and data transfers subject to appropriate cheeks?	X			The LQM states the process for data reporting. There are other SOPs, but are in revision.
4	Records:				
4.1	Is the history of the sample readily understood through the documentation? (NELAC 5.4.12.1.5)	x			Review of the entire data package (summary forms and raw data) is required to understand the history of sample. However, review of the raw data is outside the scope of LCG data review criteria.
4.2	Are records maintained of sample preservation including appropriateness of sample container and compliance with holding time requirement (5.4.12.2.5.1.a)	x			
4.3	Do the sample handling records include sample identification, receipt, acceptance or rejection and log-in? (5.4.12.2.5.1.b)	x			
4.4	Does the laboratory retain all original raw data, whether hard copy or electronic, for calibrations, samples, and quality control measures, including analysts' work sheets and data output records? (NELAC 5.4.12.2.5.2.a)	x			The lab keeps a combination of hard copy and electronic.
4.5	Does the laboratory retain copies of final reports? (NELAC 5.4.12.2.5.2.c)	x			Yes, since the hard copy is compiled electronically.
4.6	Do analytical records include the following essential information associated with an analysis, such as strip charts, tabular printouts, computer data files, analytical notebooks, and run logs: (NELAC 5.4.12.2.5.3)				
ļ	a) Laboratory sample ID code	X	_ _	ļ	}
	b) Date of analysis and time of analysis is required or when time critical steps are included in the analysis, e.g., extractions and incubations.	x			
	c) Instrumentation identification and instrument operating conditions/parameters	x			

Page 2 of 6

10/29/2007

Item No.	Area Examined	Yes	No	<u>N/A</u>	Comments:
190.	JN A see Trucke down	37			
	d) Analysis type	<u>X</u>	 		
	e) All manual calculations, e.g., manual integrations	X			
	f) Analyst's or operator's initials/signature	X			
	g) Sample preparation including cleanup, separation protocols, ID codes, volumes, weights, instrument	X			
	printouts, meter readings, calculations, reagents		ĺ		
	h) Sample analysis	X			
i i	i) Standard and reagent origin, receipt, preparation, and use		x		Standard prep information for organics had not been included in data packages.
]	j) Calibration criteria, frequency and acceptance criteria	X			However acceptance criteria may not follow LCG criteria.
	k) Data and statistical calculations, review, confirmation, interpretation, assessment, and reporting conventions	x			
	1) Quality control protocols and assessment		x		MRL check summaries were not included in the July 2007 data packages for PCB and Pesticide analyses. Documentation of MRL checks meeting LCG criteria was not in the data packages.
	n) Method performance criteria including expected quality control requirements		x		The MS/MSD limits follow in-house limits instead of LCG criteria. The SOW requires the lab will follow the LCG version 5.
4.7	Does the laboratory ensure that the essential standards outlined in Appendix D or mandates methods or regulations are incorporated into their method manuals?		x		No specific SOP was provided regarding reviewing data in accordance with LCG criteria or how to document the review.
5.	Certificates and Reports:		输出	SPENCE:	
5.1	Are the lab's results of each test or series of tests carried out, reported accurately, clearly, unambiguously, and objectively in accordance with any instructions in the test methods? (NELAC 5.5.10.1)	x			
5.2	Are the results normally reported in a test report or test certificate, including all the information requested by the client and necessary for the interpretation of the test results and all information required by the method used? (NELAC 5.5.10.1)		x		July 2007 data packages were missing MRL summary reports for PCBs and Pesticides.

Page 3 of 6

10/29/2007

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Item No.	Area Examined	Yes	<u>No</u>	<u>N/A</u>	Comments:
5,3	Does the facility management ensure that the appropriate report items are in the report to the regulatory authority if such information is required? (NELAC 5.5.10.1)				
5.4	Does each certificate or report include at least the following information: (NELAC 5.5.10.2a-I)	iccleared and			
	a) A title, e.g. "Calibration Certificate", "Test Report", or "Test Certificate"?	x			
	b) Name and address of lab, and location where the test was carried out, if different from the address of the lab and phone number with name of contact person for questions?	x			
	c) Unique identification of the certificate or report (such as serial number), and on each page an identification in order to ensure that the page is recognized as a part of the test report, and a clear identification of the end of the test report?	x			
	d) Name and address of client, where appropriate?	X		[
	e) Identification of the method used?	X			
	f) A description of, the condition of, and unambiguous identification of the samples, including the client identification code?	x			
	g) Date of receipt of test item and date(s) of performance of test, where appropriate?	x			
	 h) Reference to the sampling plan and procedures used by the laboratory or other bodies where plan and procedures are relevant to the validity or application of the results? 	x			The report references the analytical methods and the data package was in compliance with NELAC, but no indication the LCG was also followed.
	i) Identification of the instrument used for analysis?	X	-		
	 j) The name, function, and signature or equivalent electronic identification of person authorizing the test report, and date of issue? 	x			······································

Page 4 of 6

10/29/2007

Area Examined **Comments:** Item Yes No N/A No. k) Where relevant, a statement to the effect that the results Х relate only to the samples? 1) A statement that the certificate or report shall not be reproduced, except in full, without the written approval Х of the lab? Does the laboratory certify that the test results meet all 5.5 requirements of NELAC or provide reasons and/or Х justification if they do not? (NELAC 5.5.10.2.m) Is particular care and attention paid to the arrangement of 5.6 the certificate or report, especially with regard to Х presentation of the test data and ease of assimilation by the reader? Is a table or QC/MRL (%D) and CCV (%D) provided in The CCVs %D and MRL %Ds are in the raw data at 5.7 the QC/QA section (LCG Section 2 "Data Reporting", the end of the ICAL information. Х Number 5, page 76)? Does the case narrative describe any non-conformances 5.8 The case narratives are very generic. They have with SW846 methodology and /or the Table of Method covered items similar to MS/MSD failures. Method Blank contamination, and results between the MDL Quality Objectives (LCG Tables) (LCG, Section 3.5.3 and Х Section 2 "Data Reporting", number 3, page 75) and RL. From the case narratives it is not apparent if the lab's reviewed the ICV, CCV, and MRL checks for compliance to the LCG criteria. 5.9 Does the report contain the date sampled, extracted, and Yes, but only on the first page of a sample result. If analyzed on each analytical sheet? (LCG Table 2-1) the result is multiple pages, e.g., 3 pages only page one Х contains the pertinent information. The other pages contain the lab sample ID. There have been pesticides analyses that need to be If dilutions are performed, are all the dilutions reported in 5.10 the data package? (LCG Table 2-1) diluted due to matrix interference. However, the Х lesser-diluted runs were not included in the data package for informational purposes. 5.11 Is analytical data reported with elevated reporting limits Pesticides have been reported with elevated reporting due to dilutions and are non-detect results? (LCG, Table Х limits and non-detect. 2-2}

TestAmerica - North Canton Data Reporting Audit Checklist

Page 5 of 6

10/29/2007

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Item No.	Area Examined	Yes	No	<u>N/A</u>	Comments:
5.12	Were attempts made for cleaning the sample matrix? (LCG, Table 2-2)		x		Pesticide extracts are not cleaned.
5.13	Are results for Inorganic and Organic analyses reported per MRL? (LCG Table 2-1)	x			
5.14	Are the MDLs reported on the result forms? (LCG Table 2-1)	x			

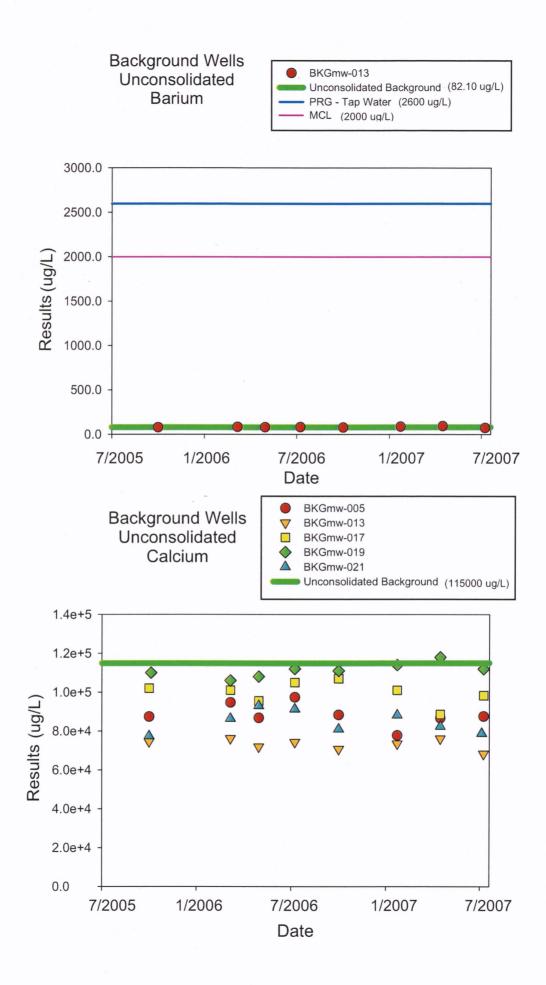
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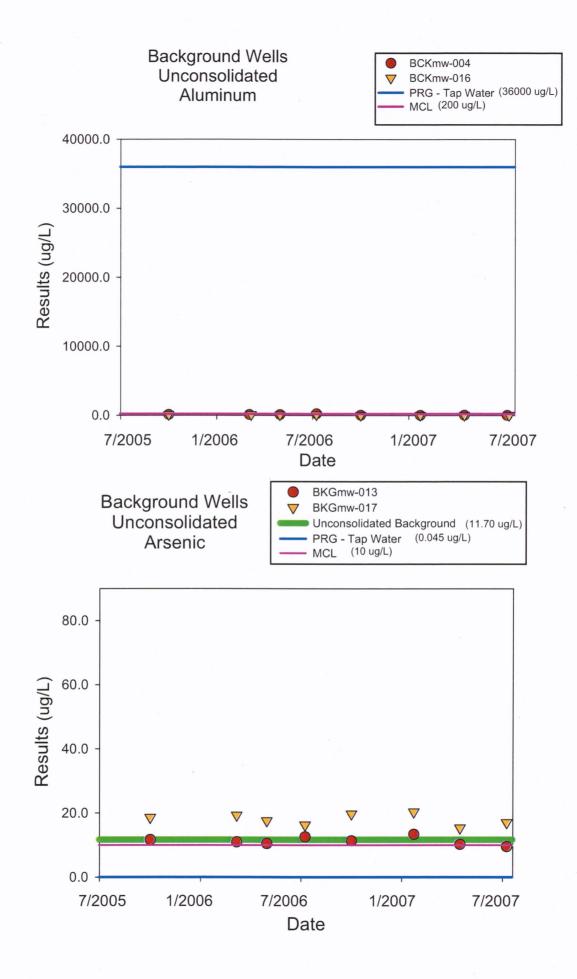
"Chapter 5 Checklist, Revision Ch5Rev7b based on 2002 NELAC Standards"
 "Louisville Chemistry Guidelines (LCG)", Version 5, June 2002

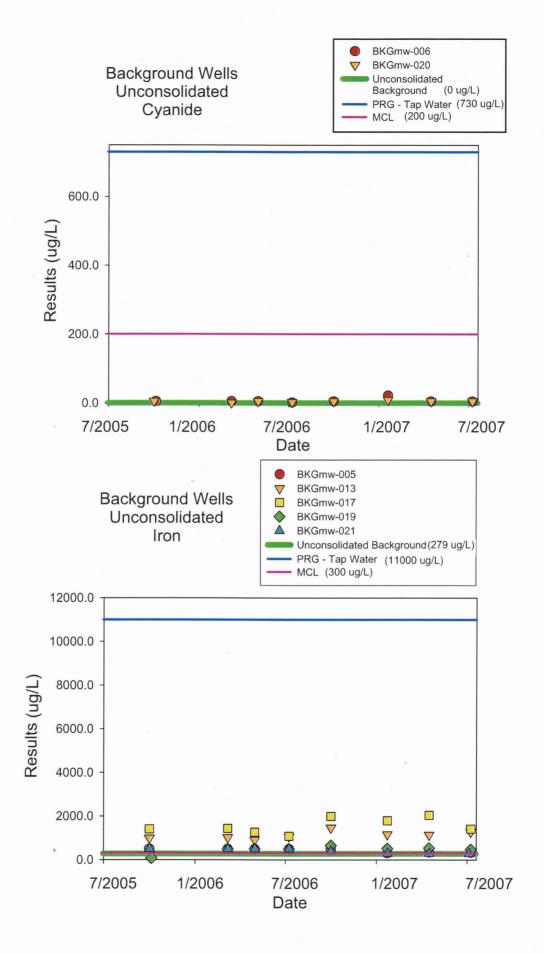
Page 6 of 6

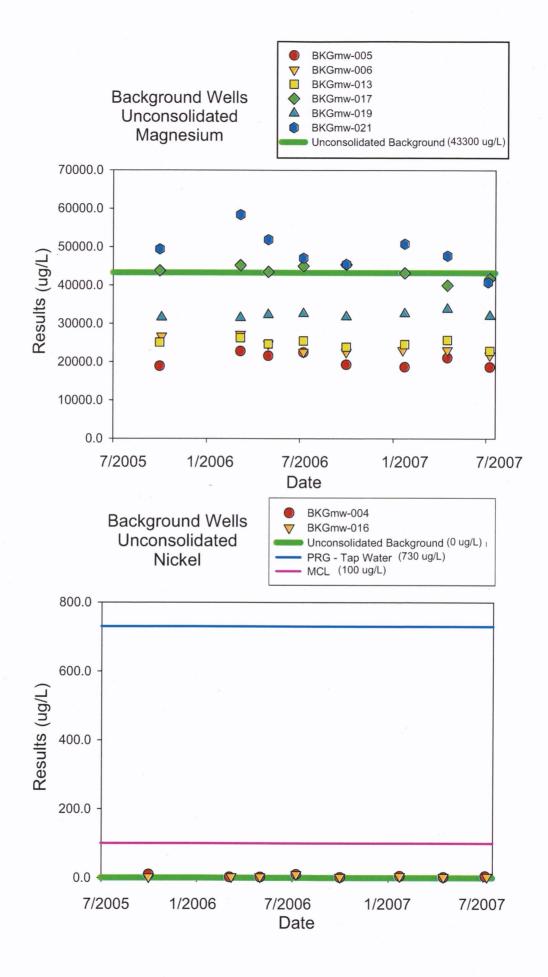
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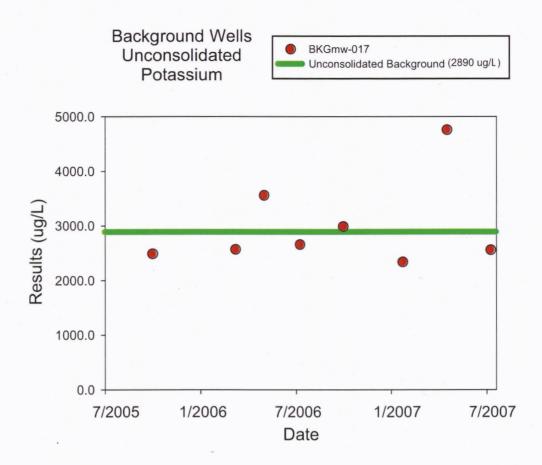
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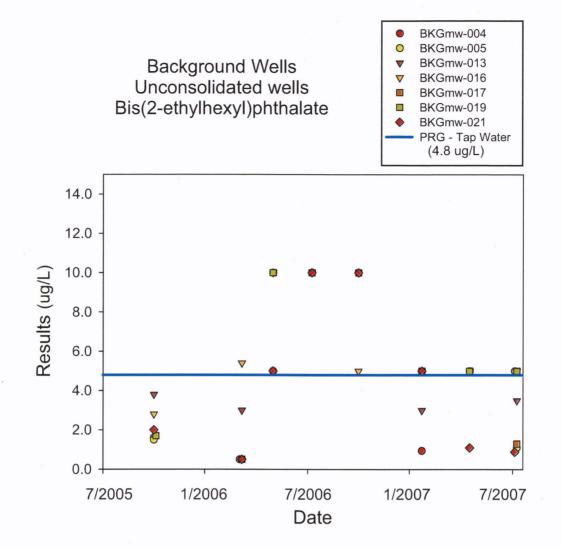


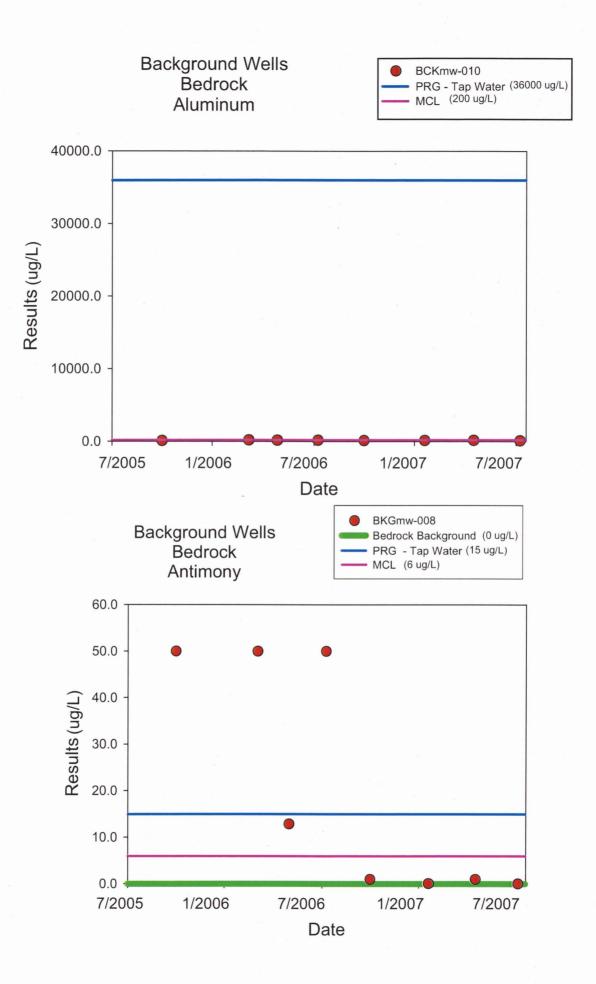


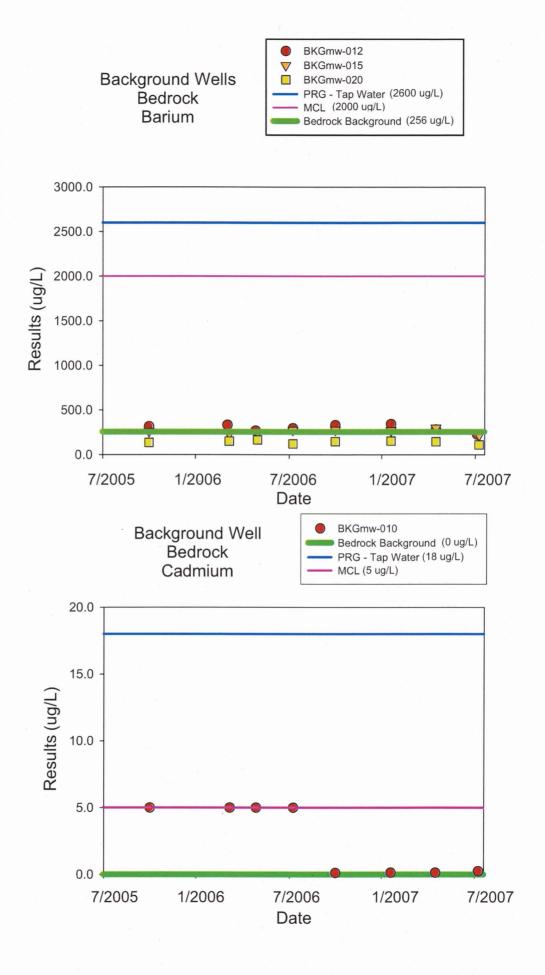


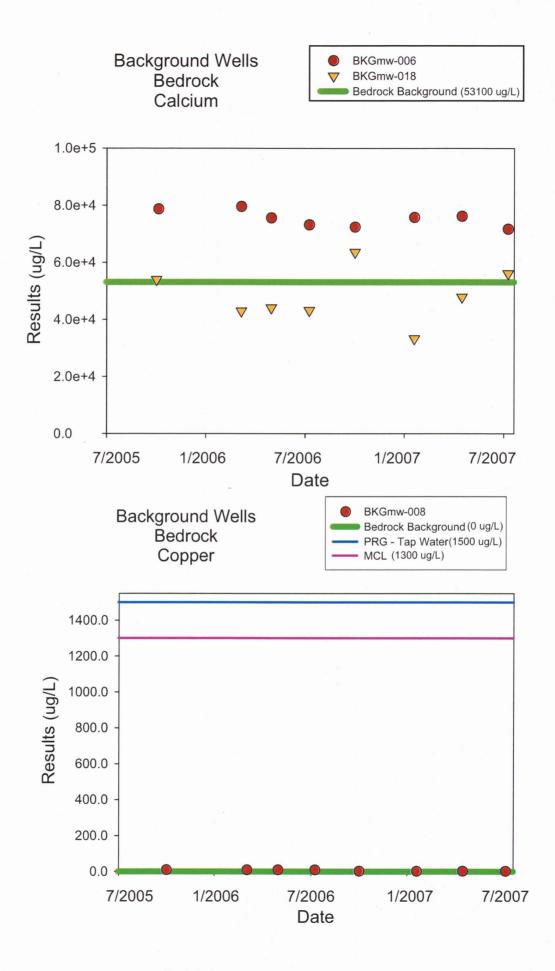


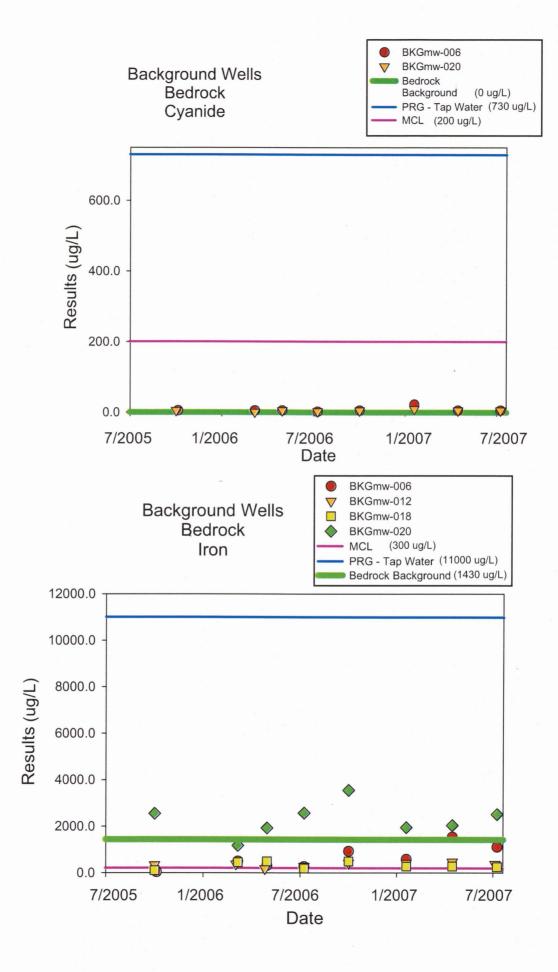


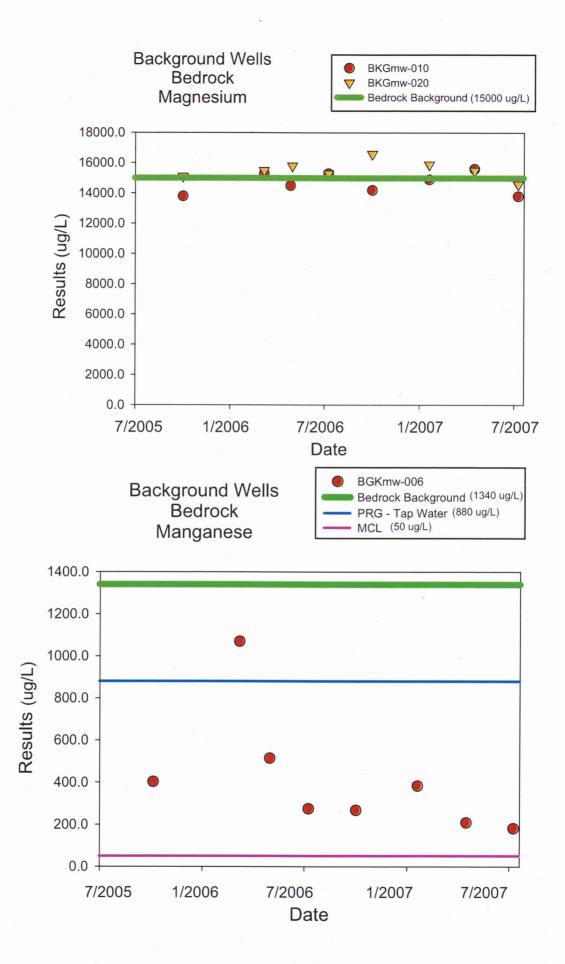


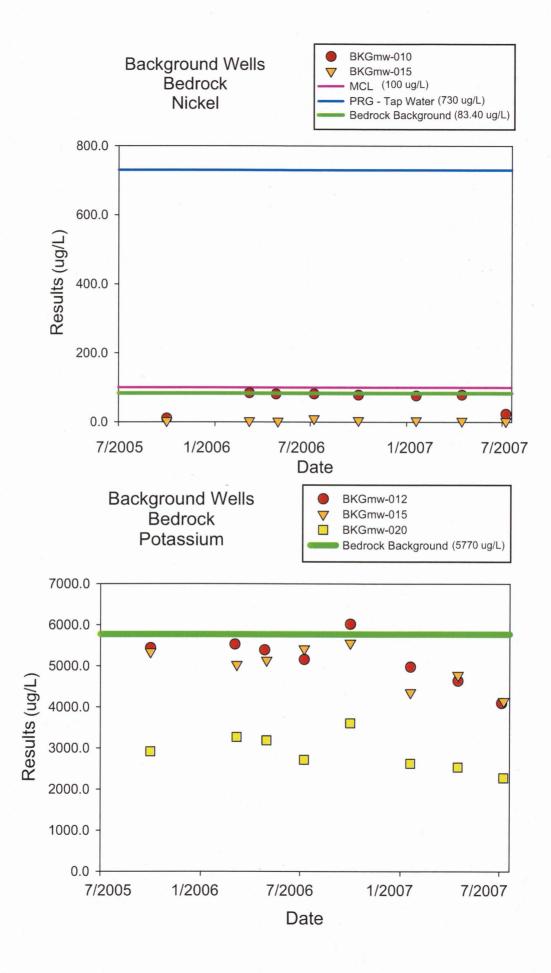


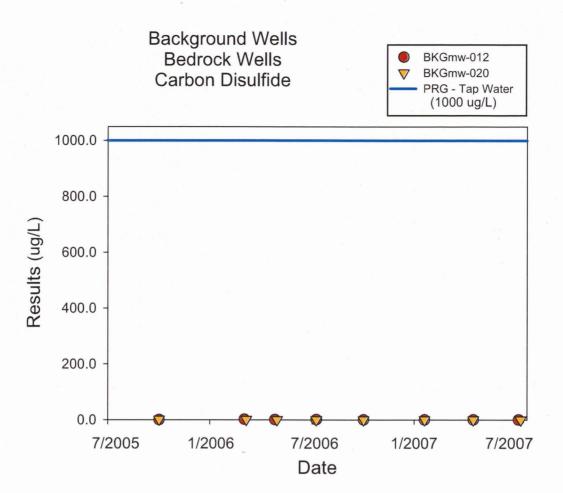


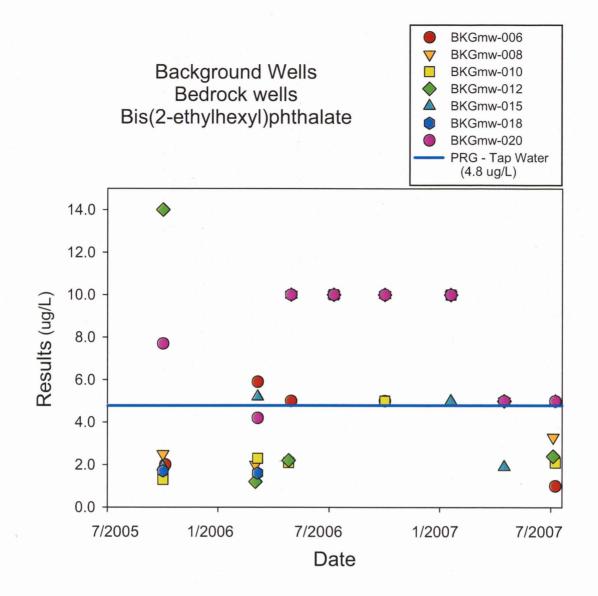


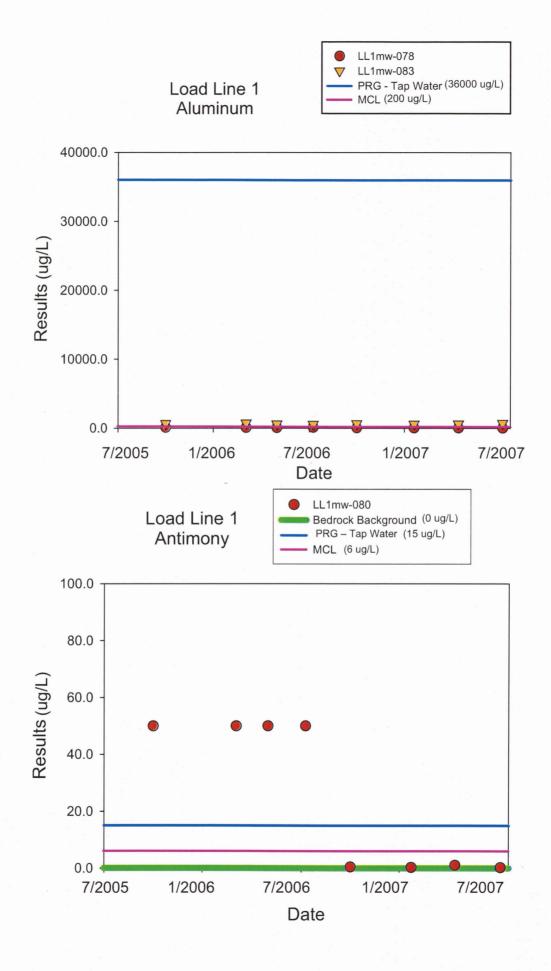


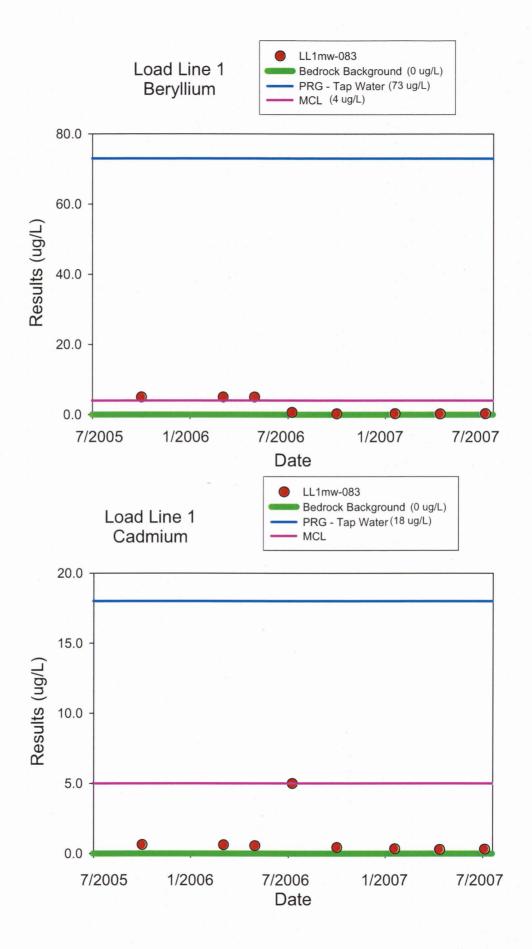


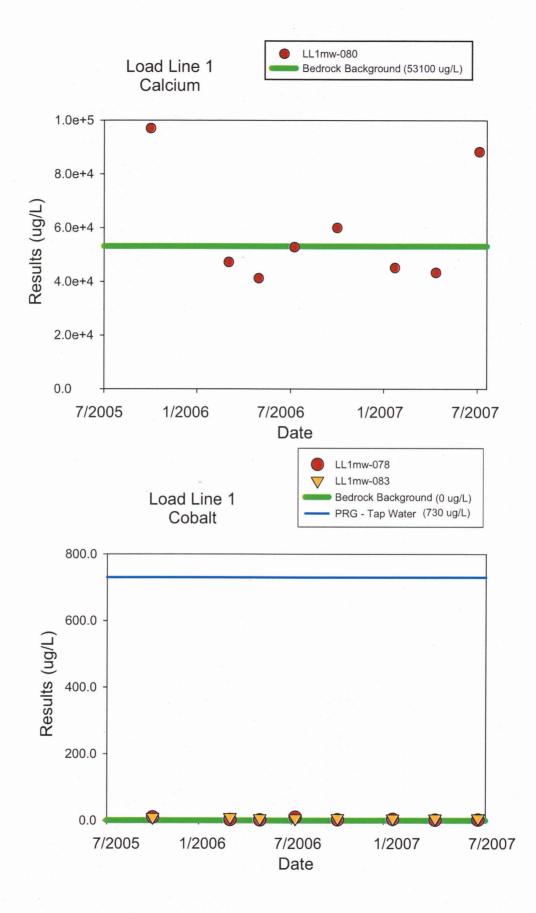


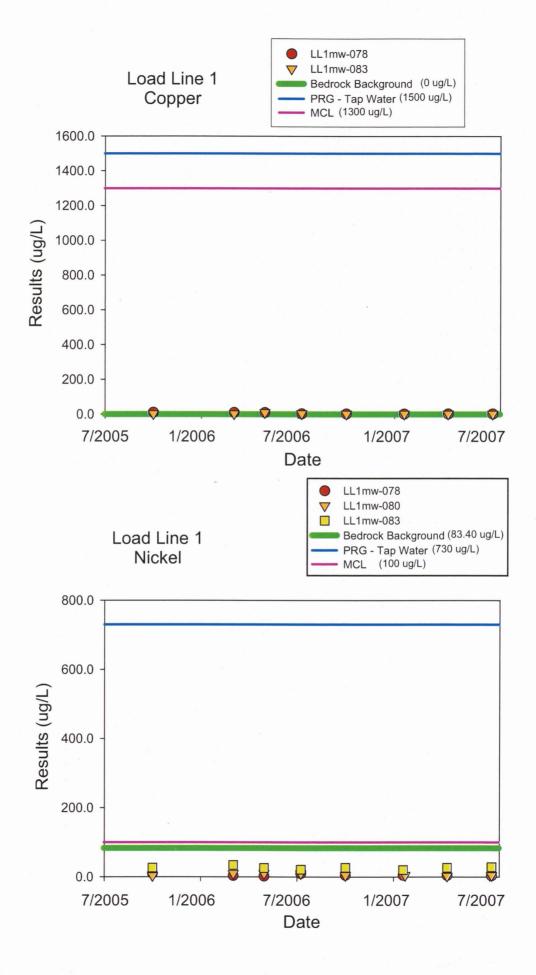


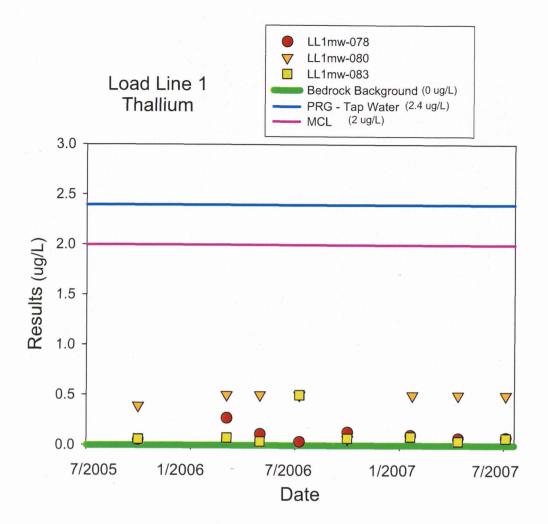


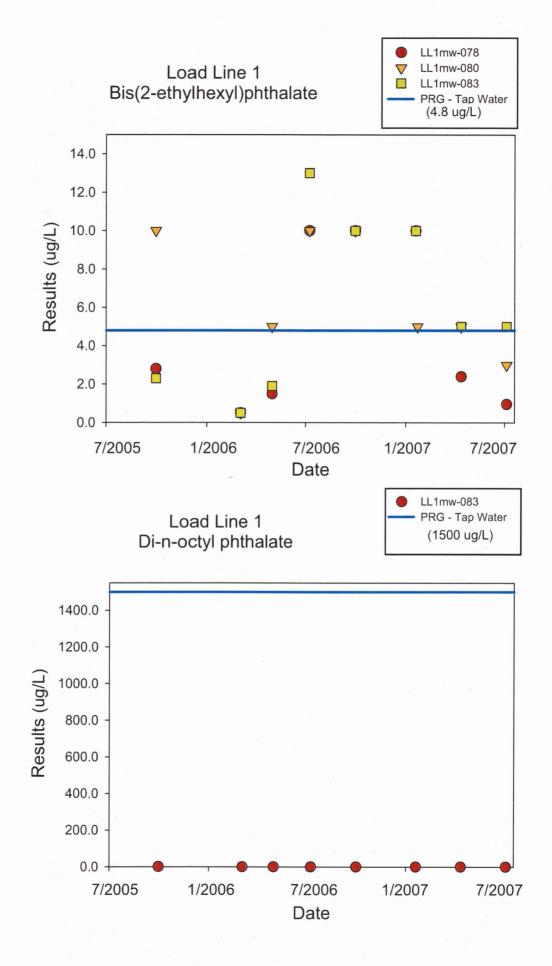


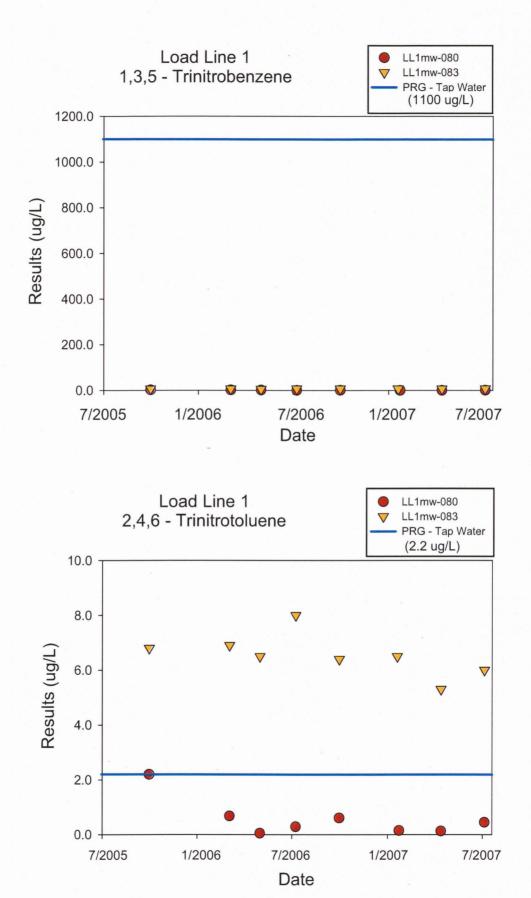


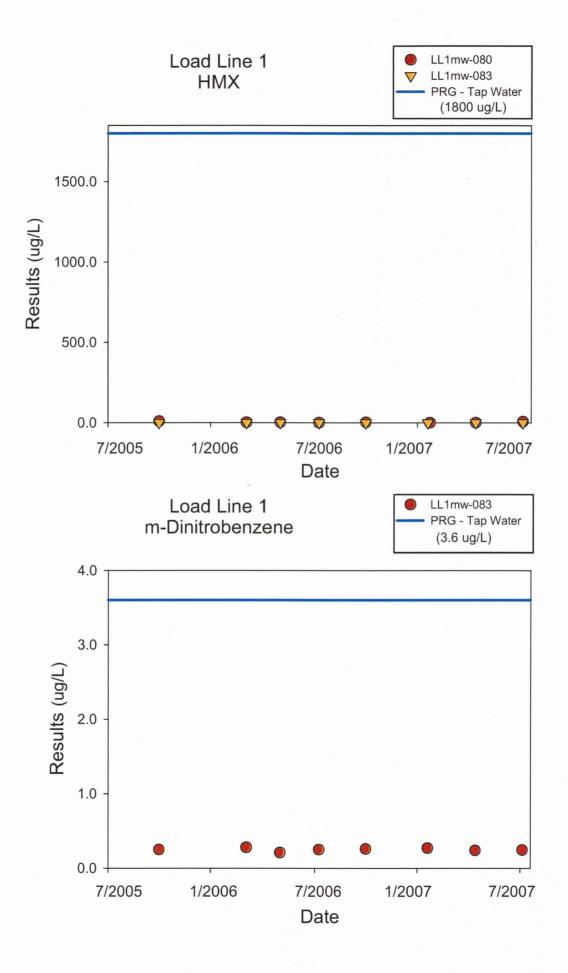


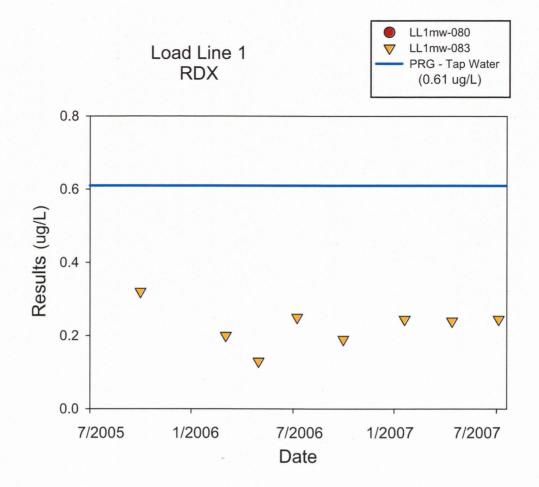


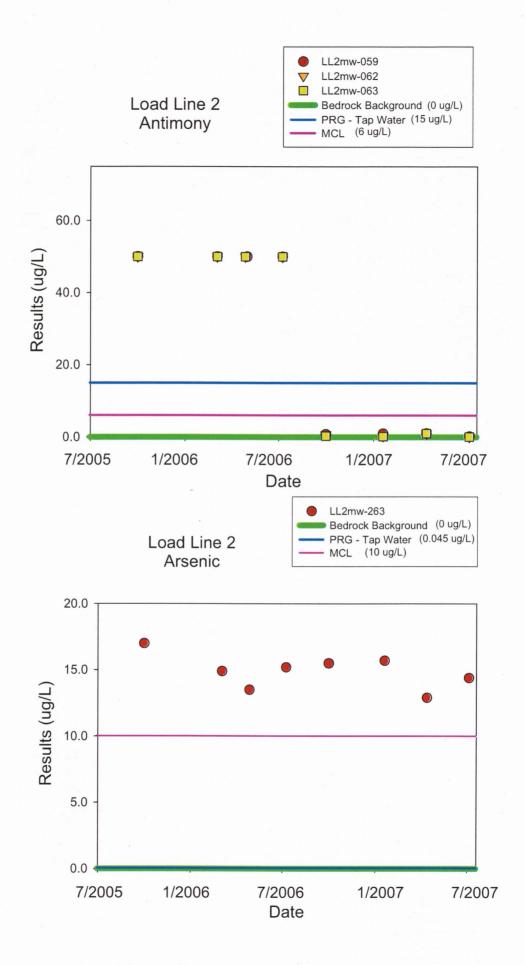


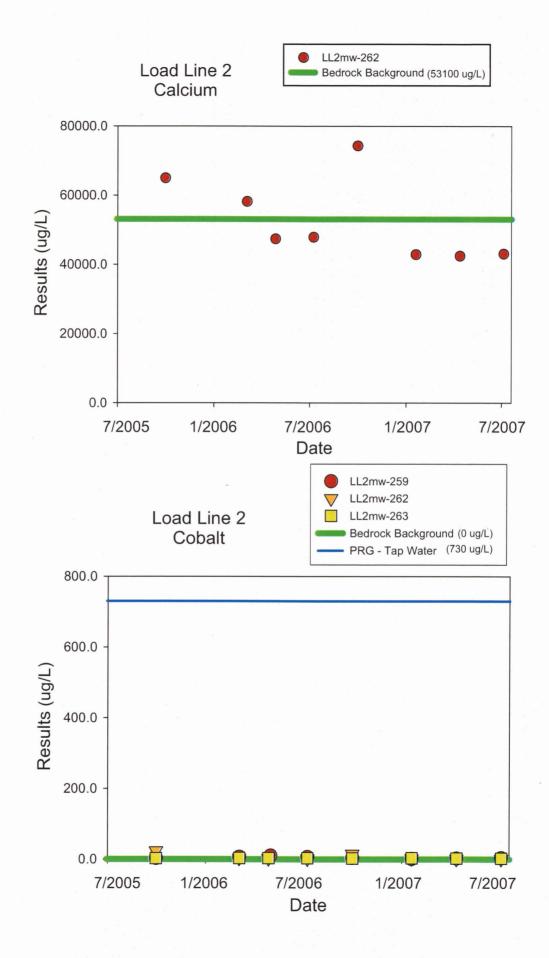


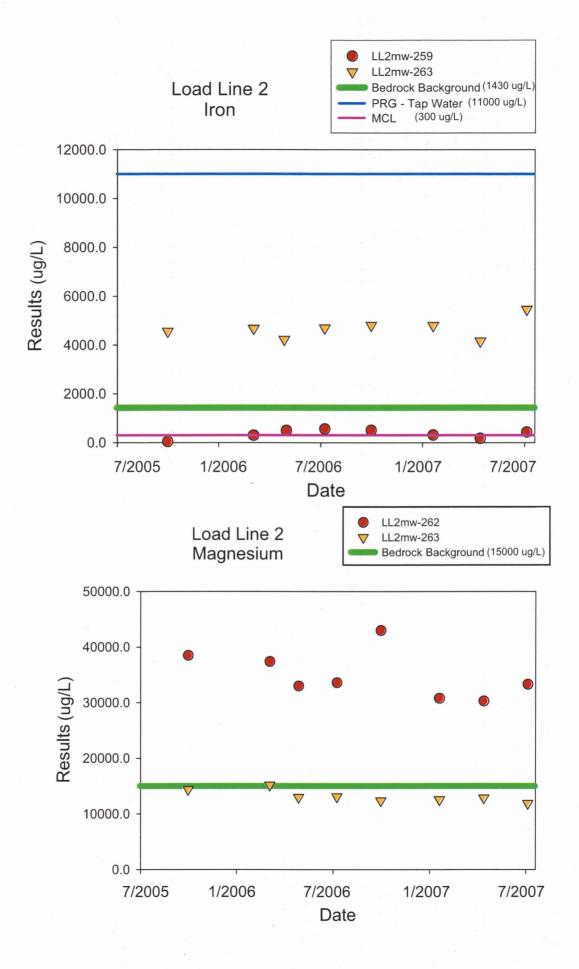


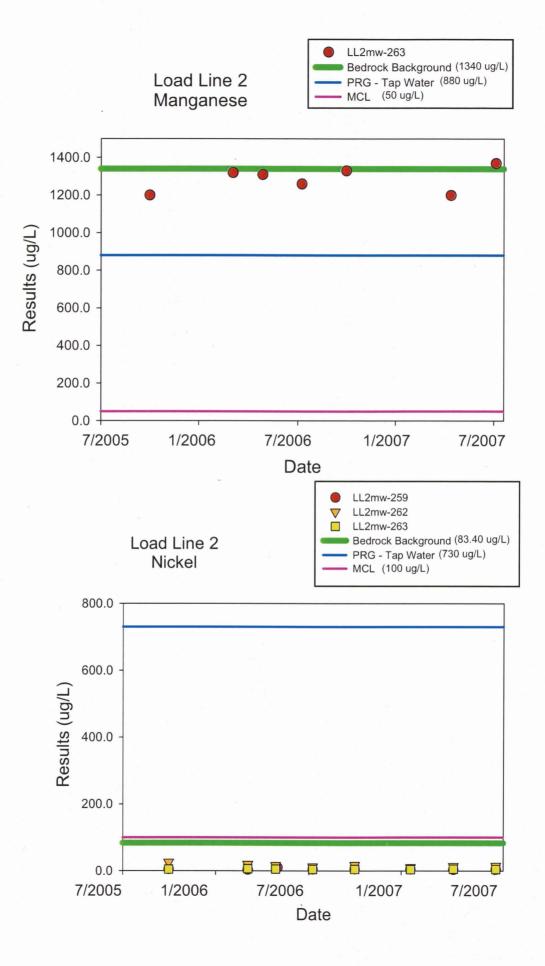


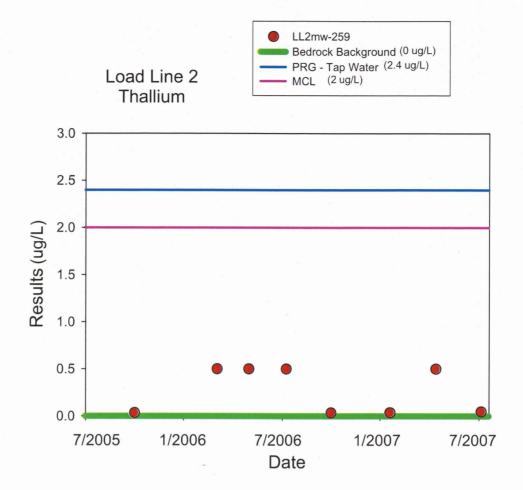


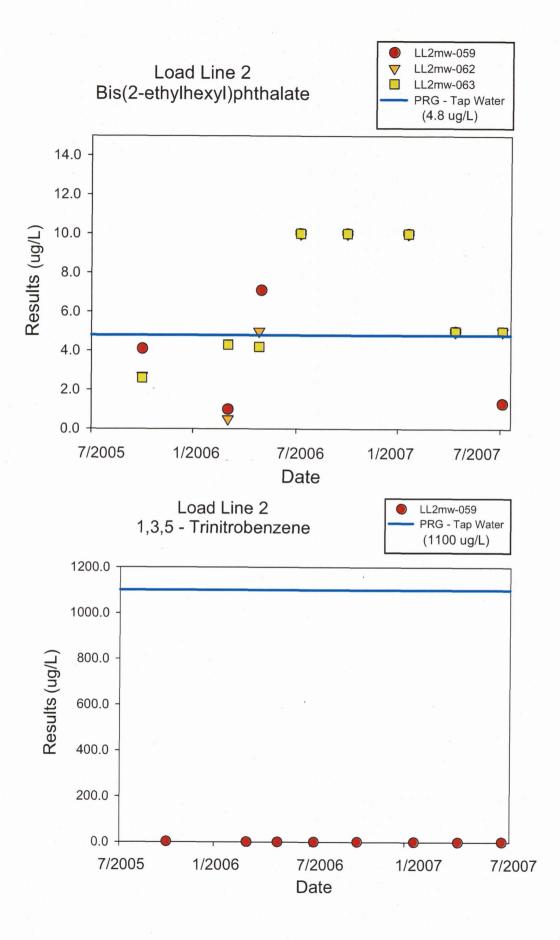


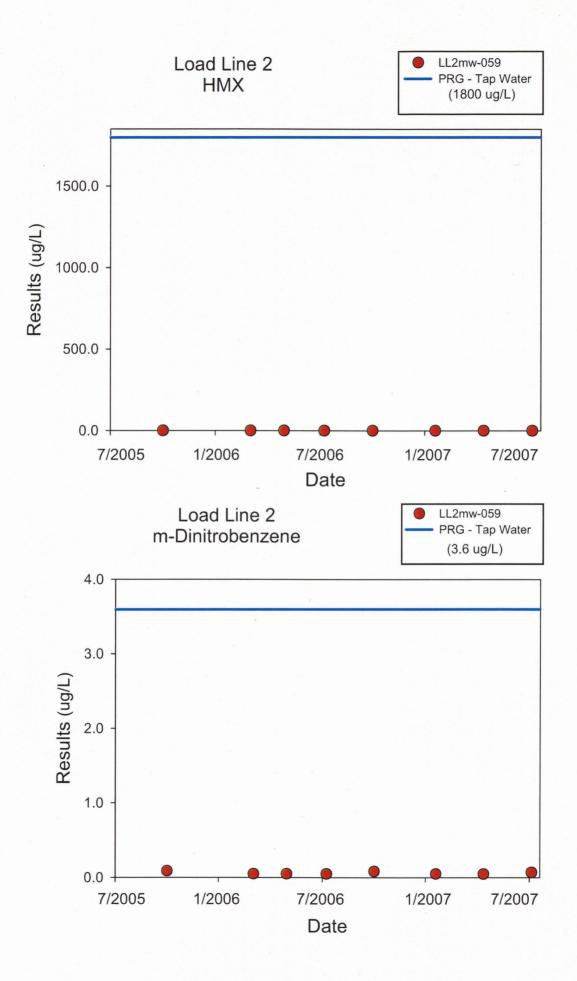


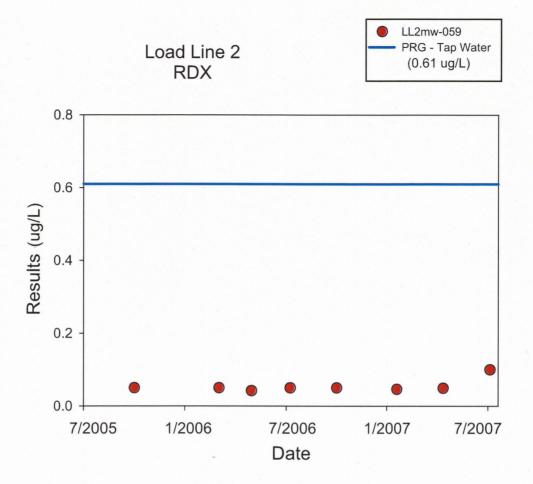


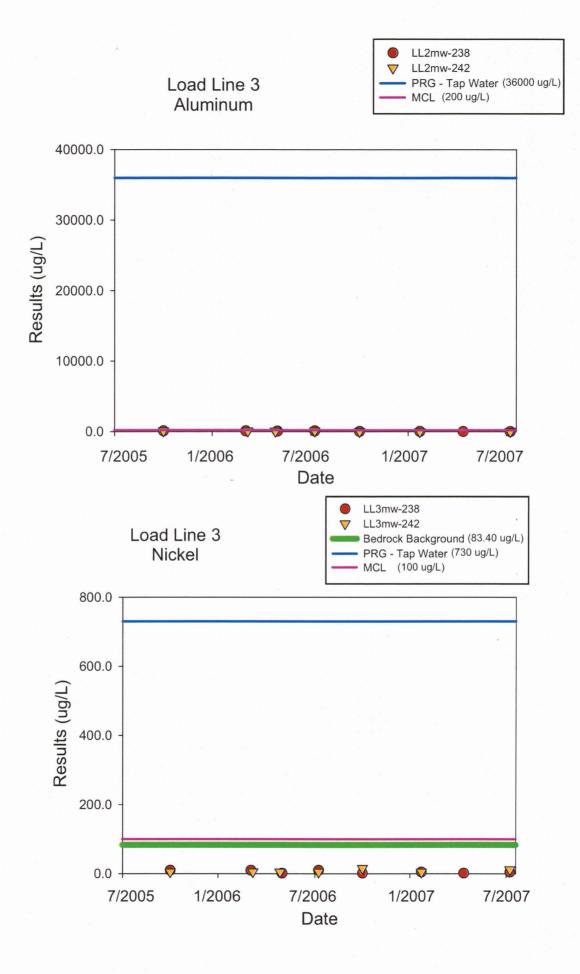


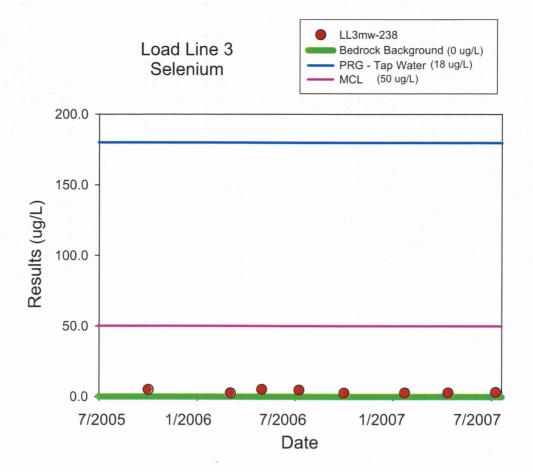


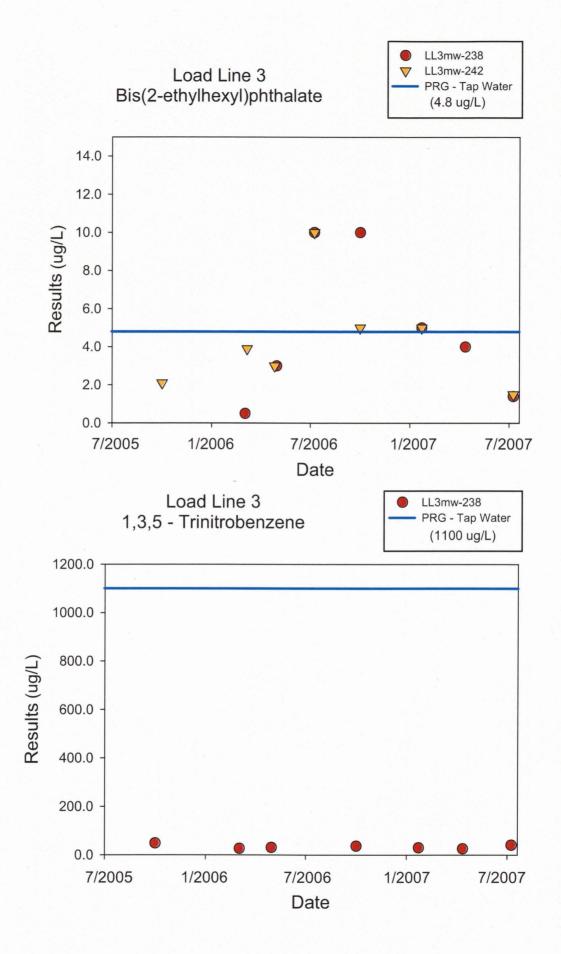


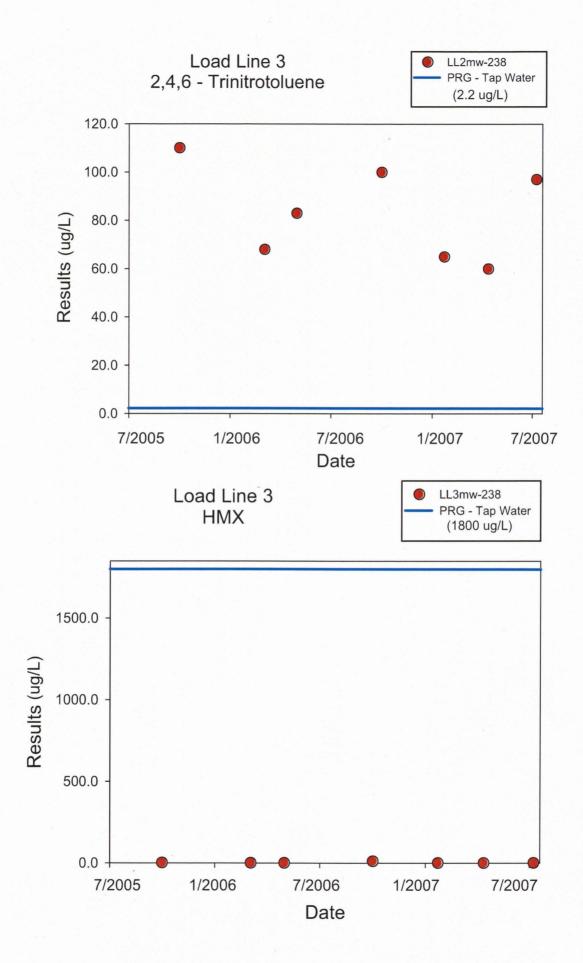


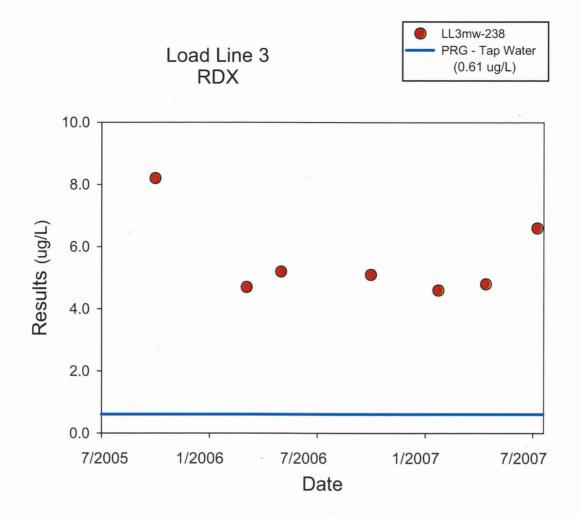


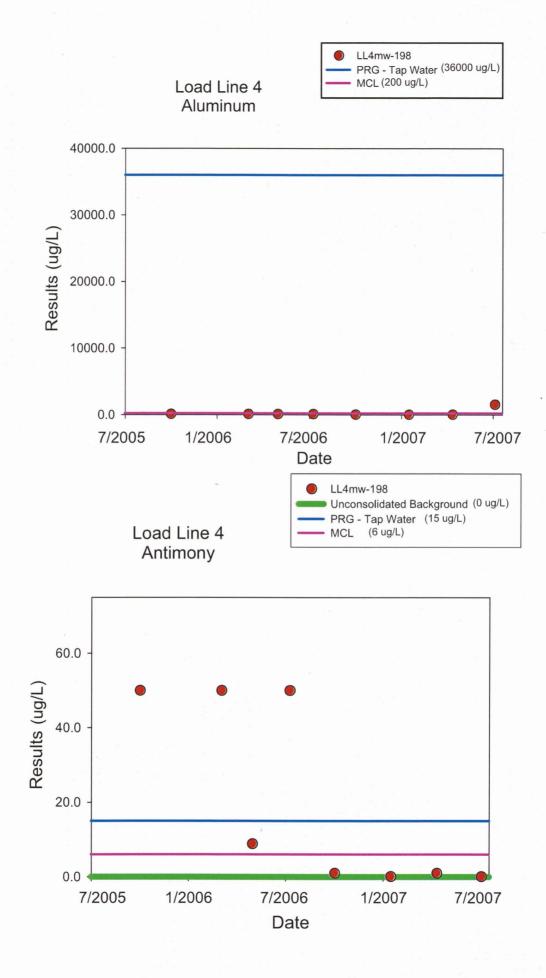


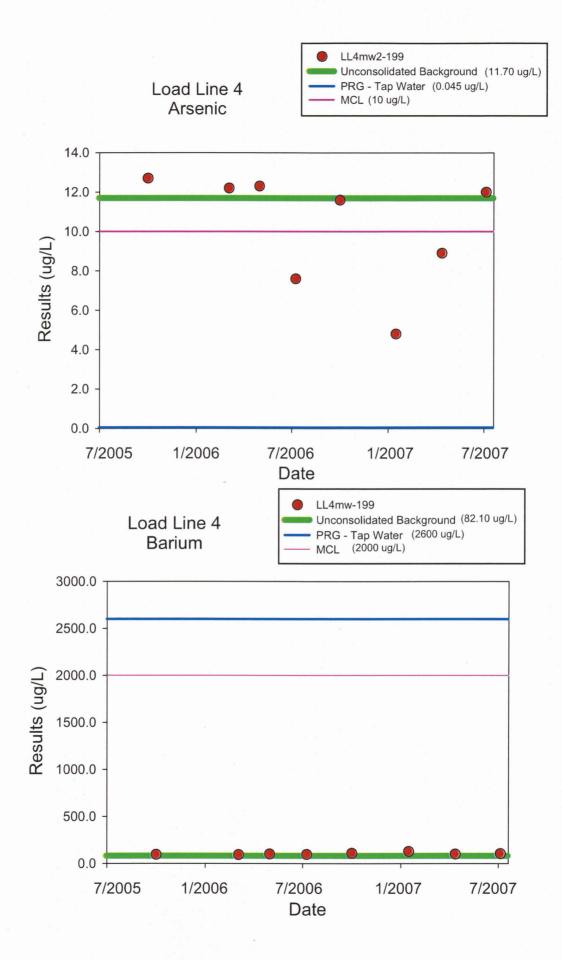


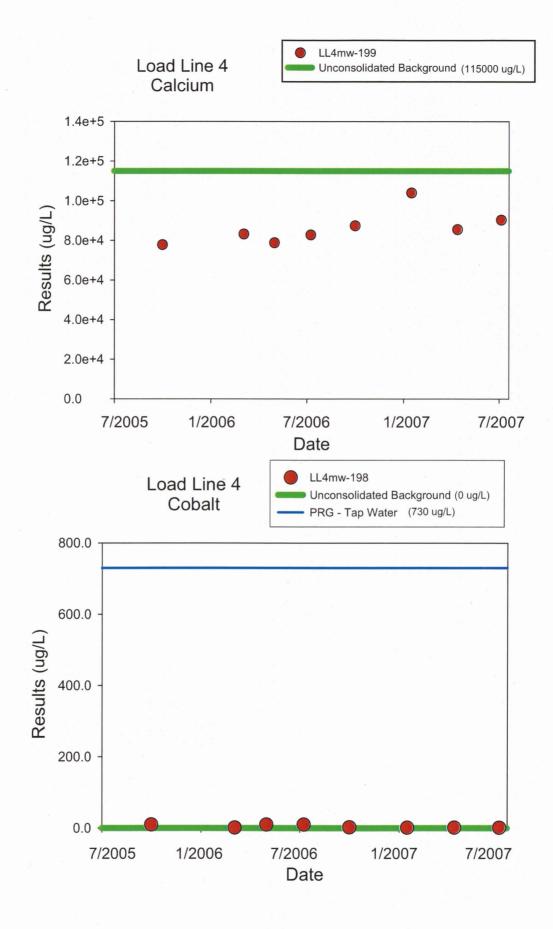


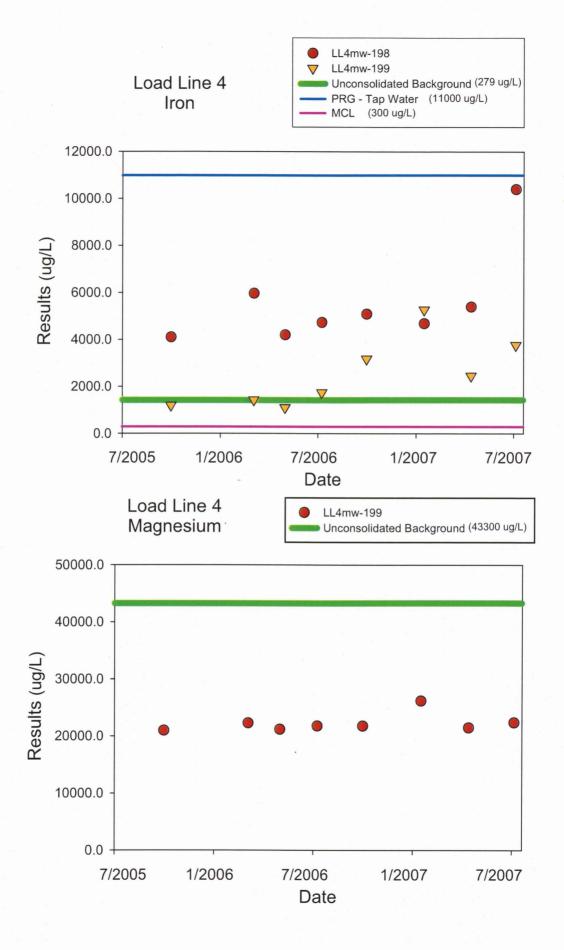


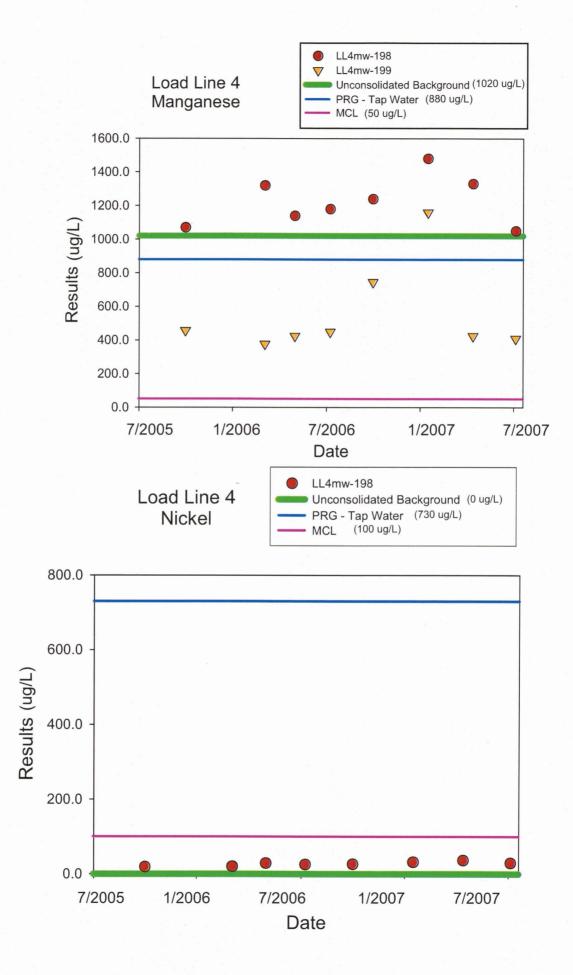


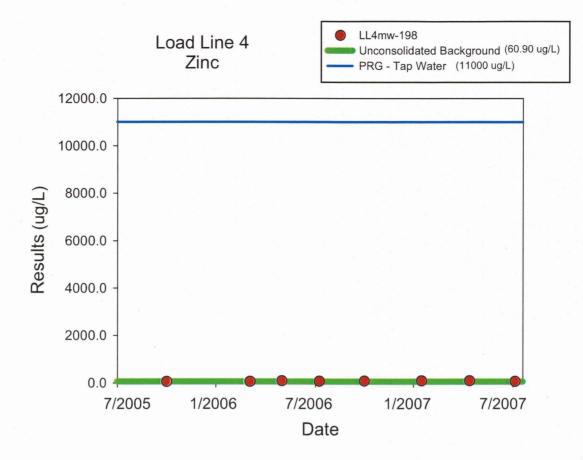


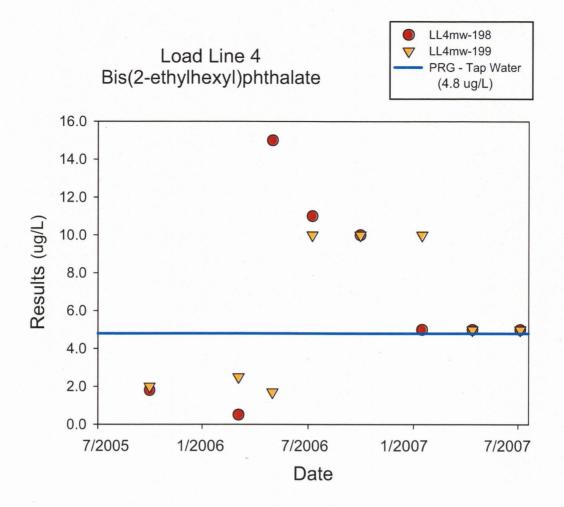


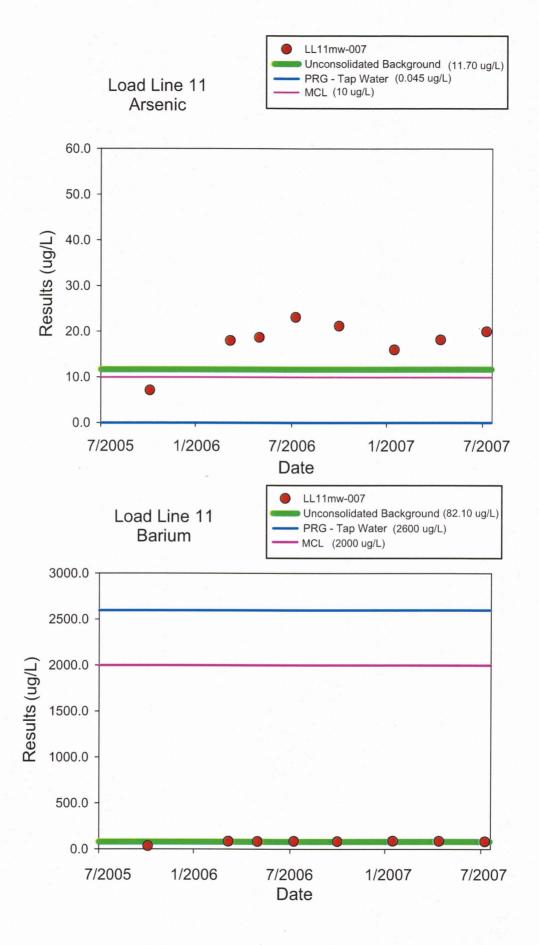


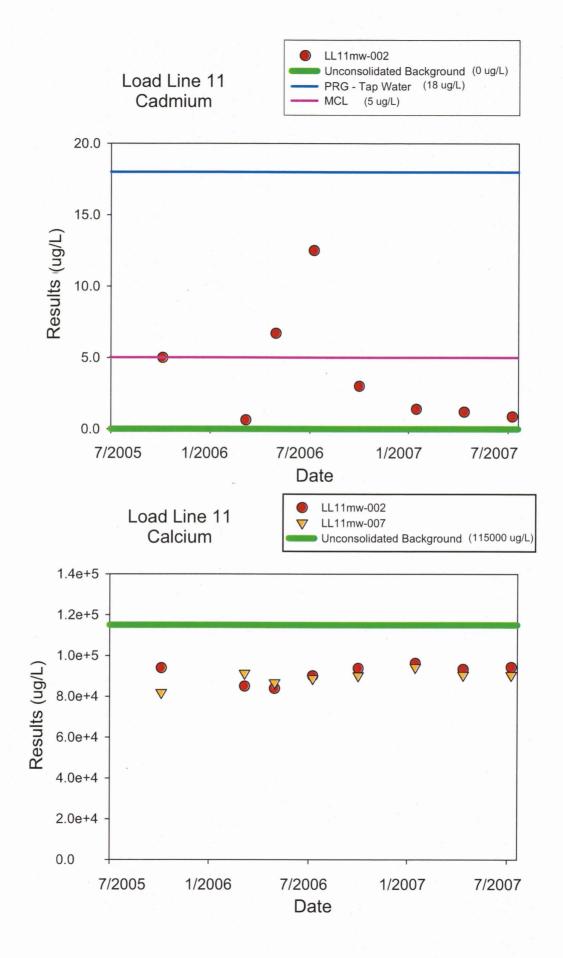


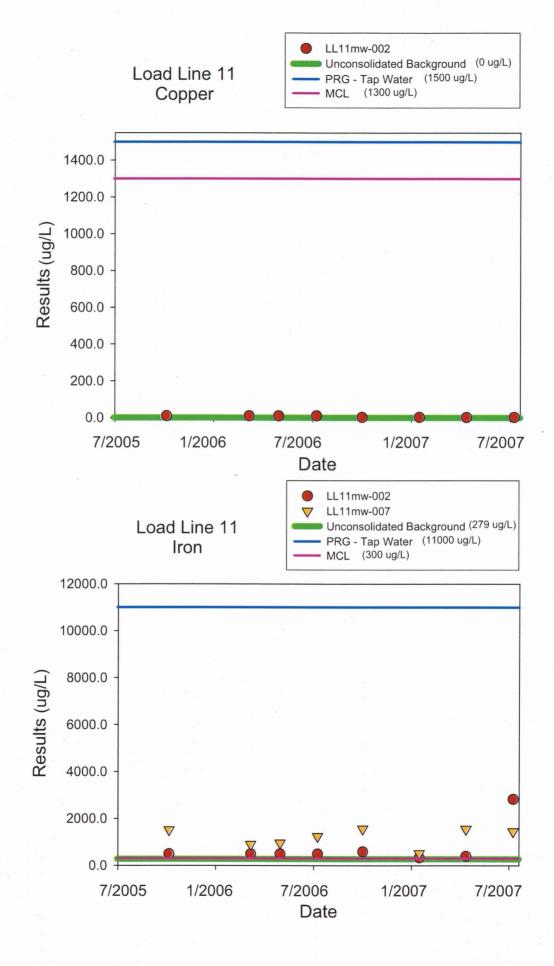


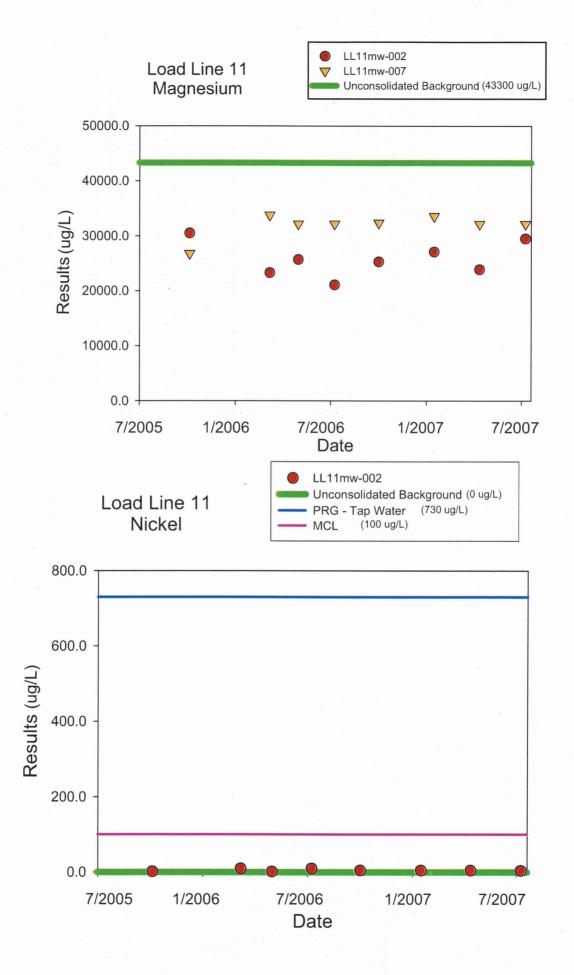


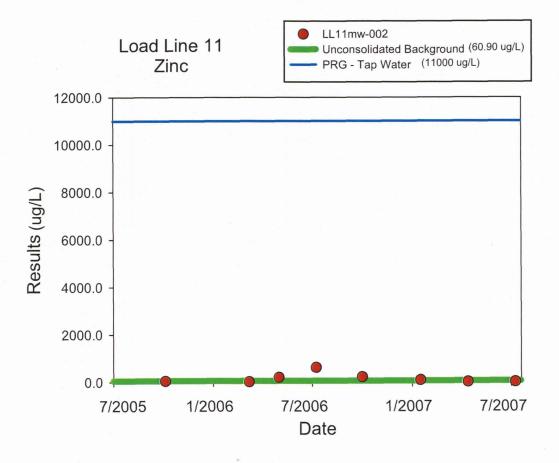


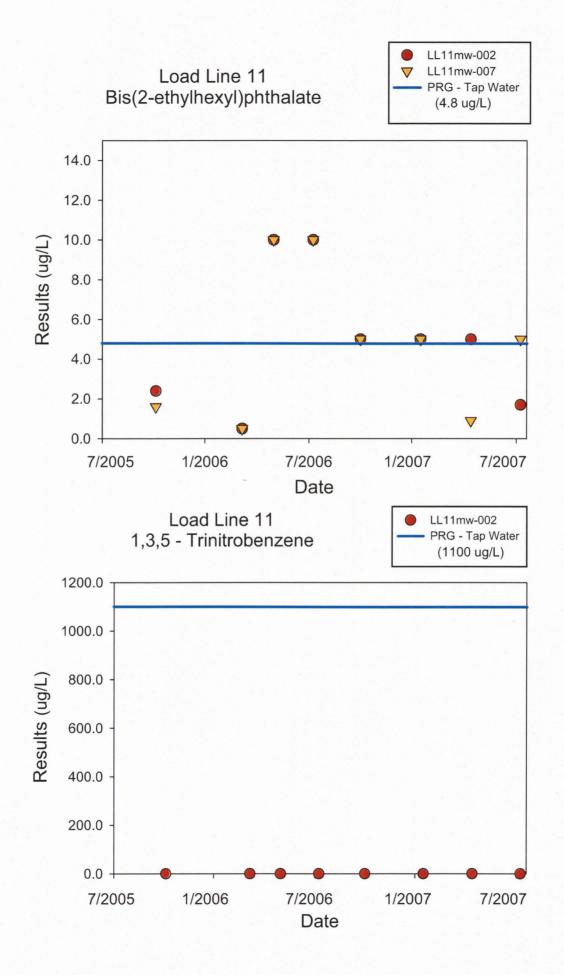


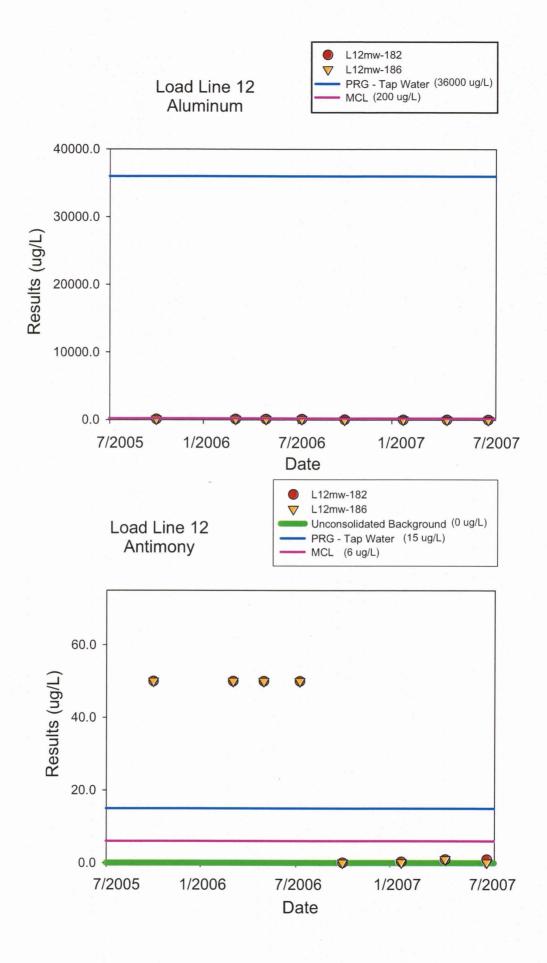


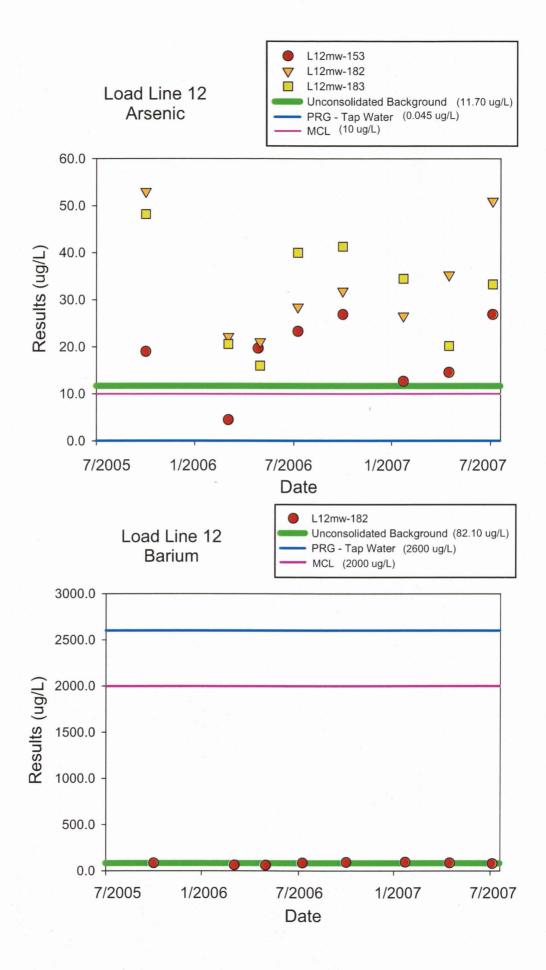


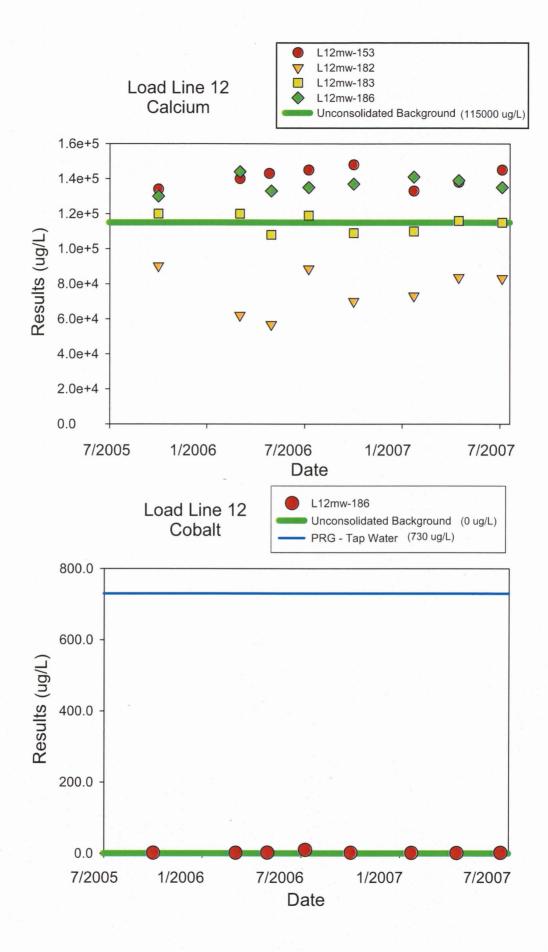


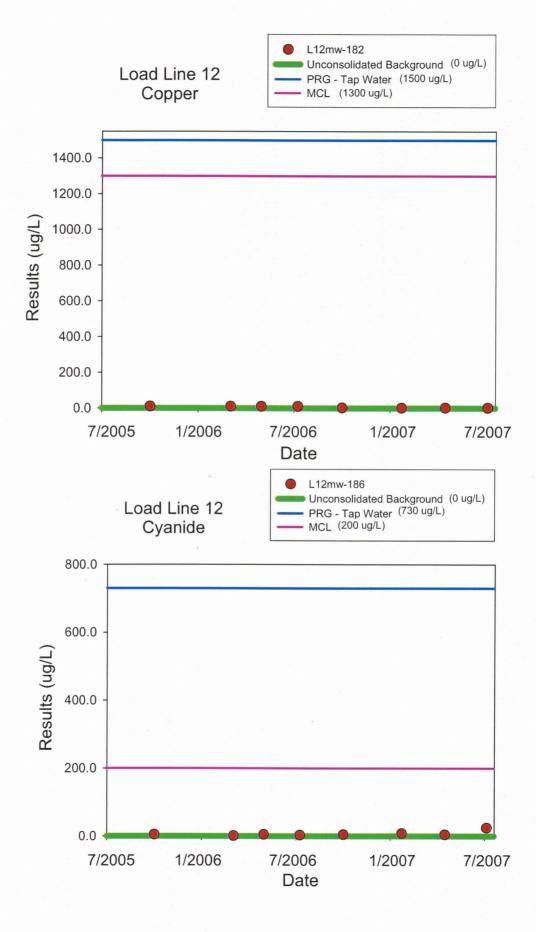


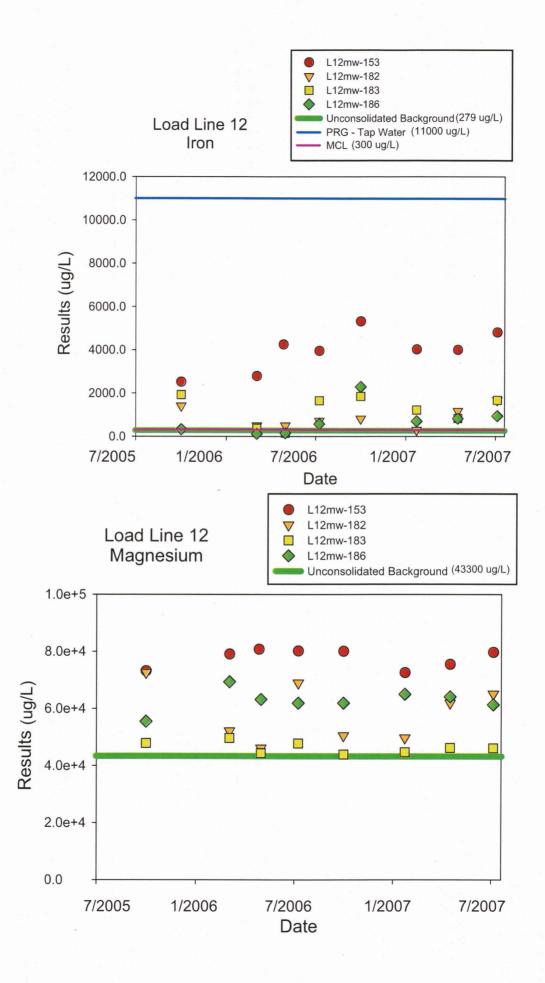


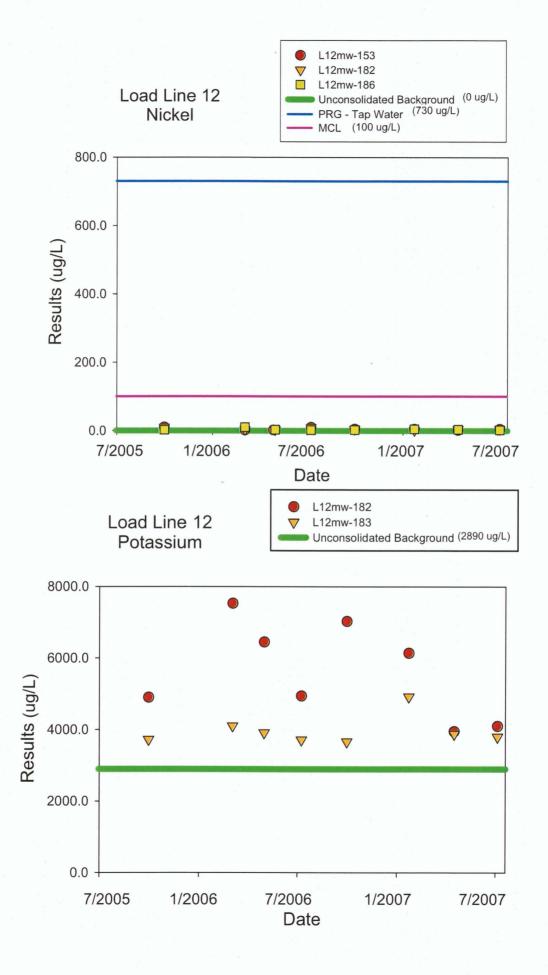


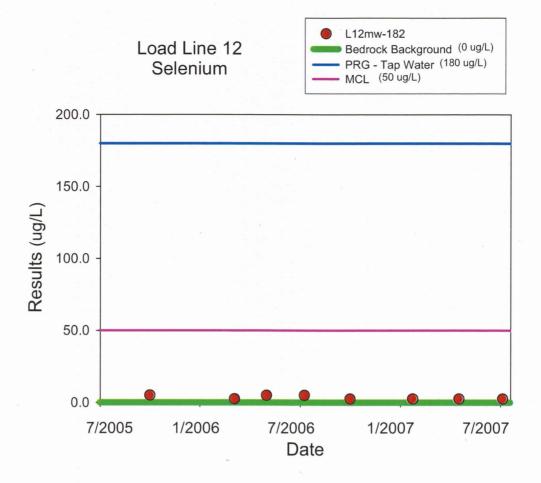


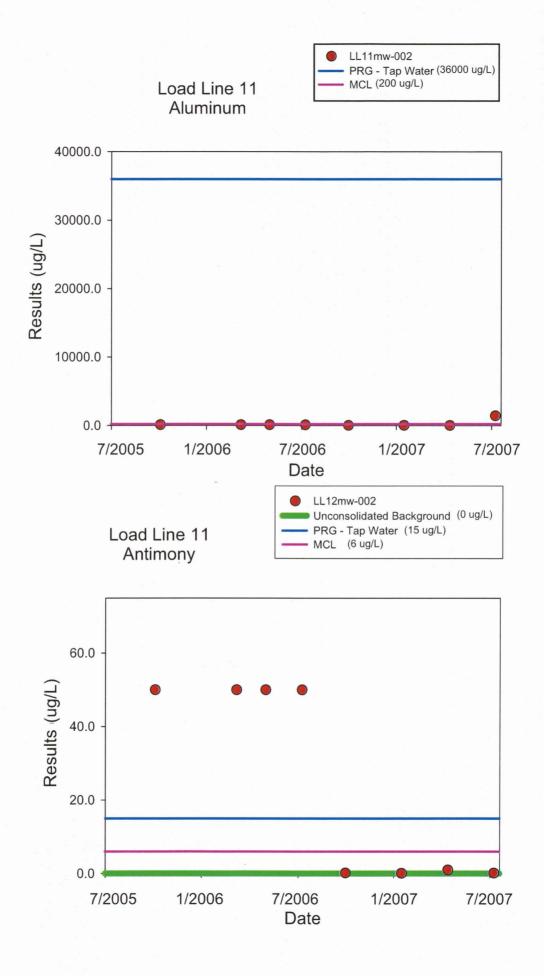


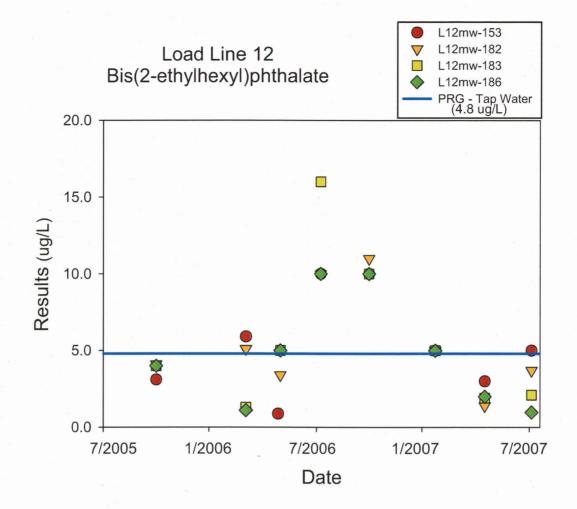


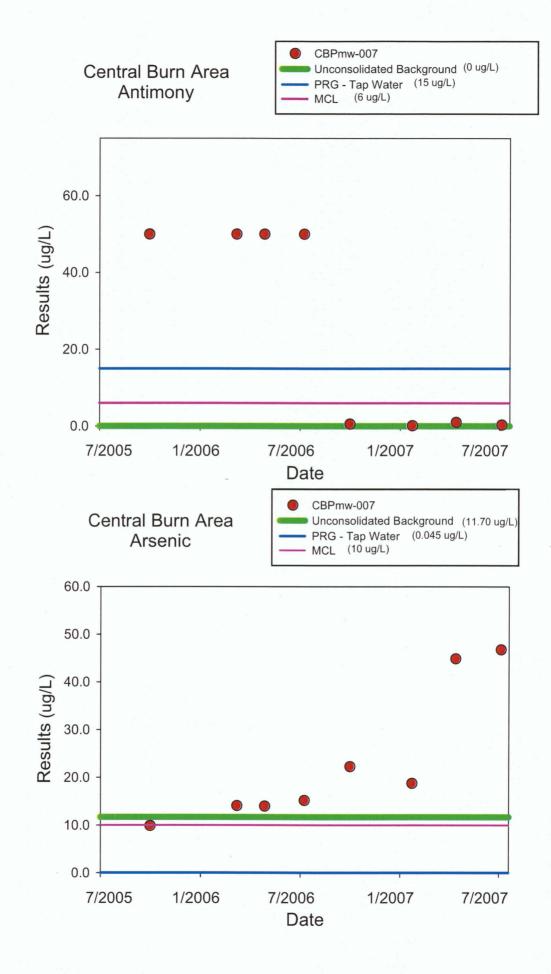


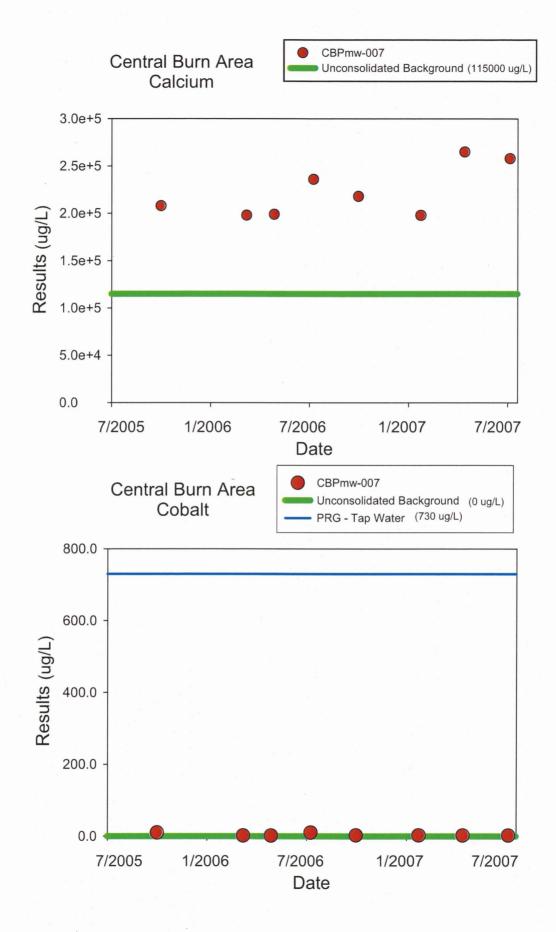


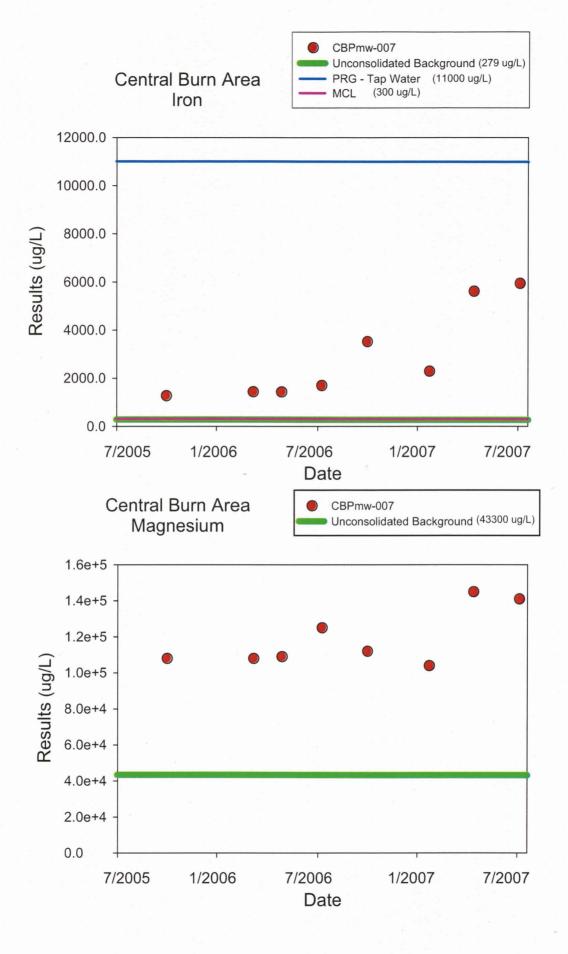


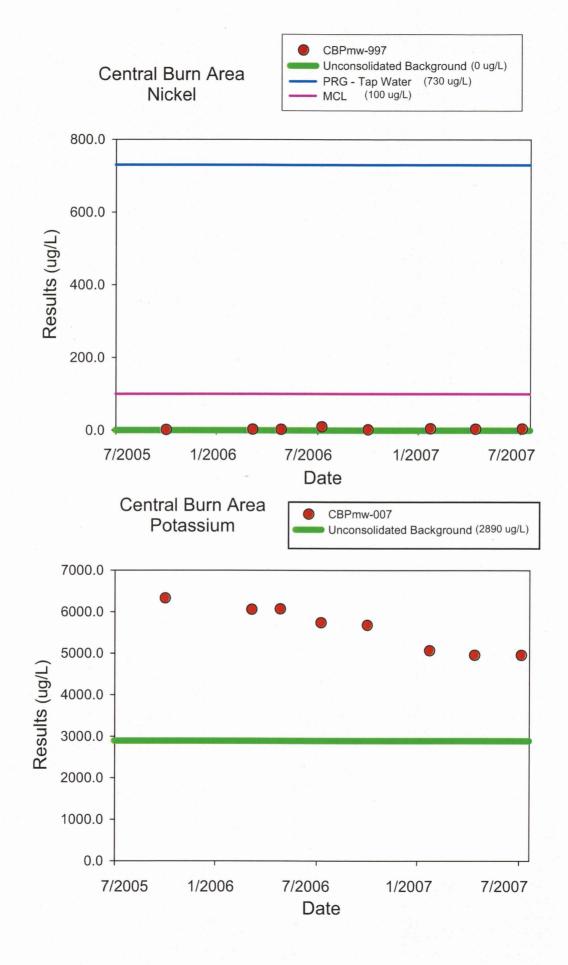


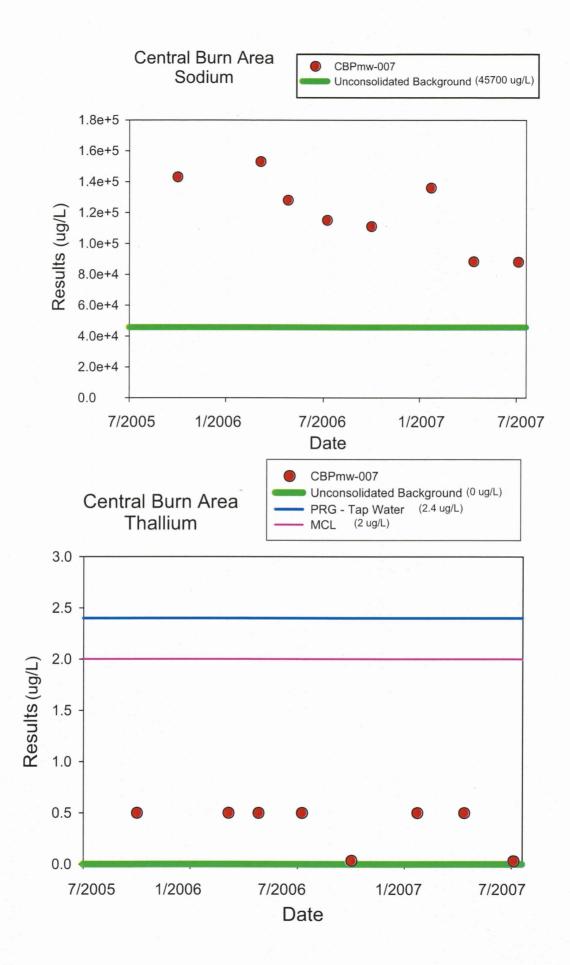


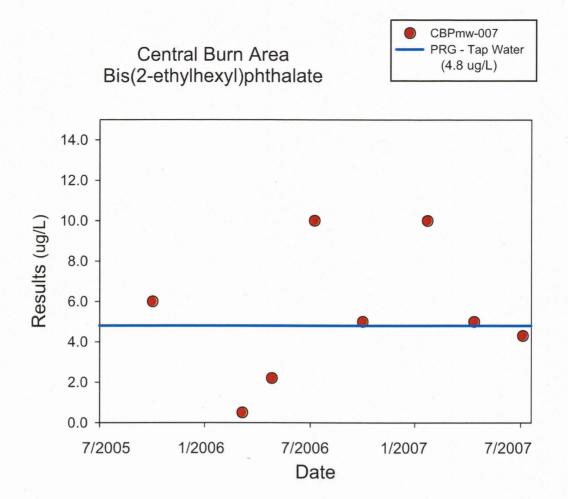


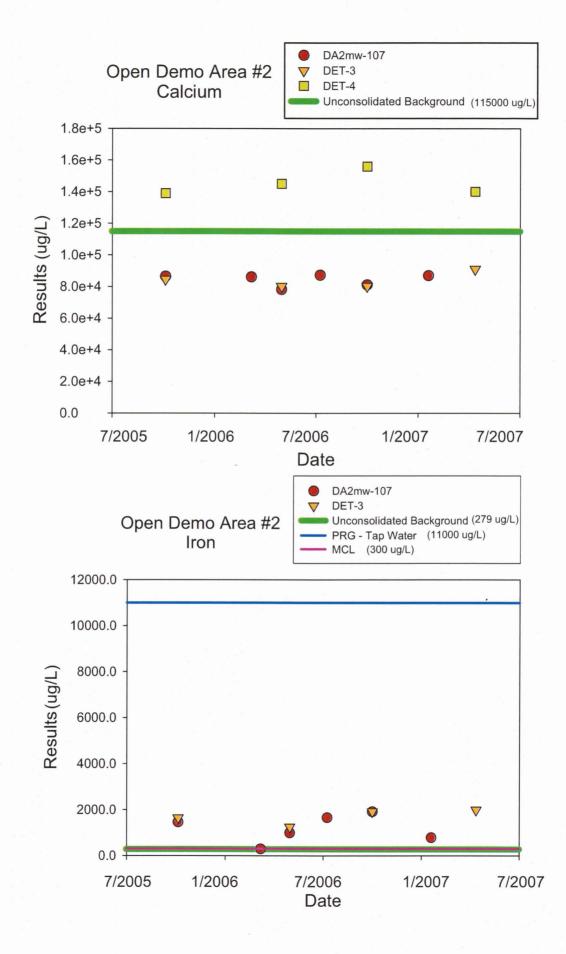


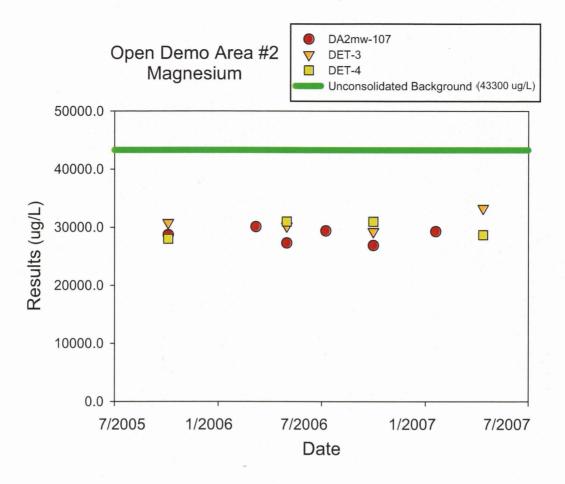


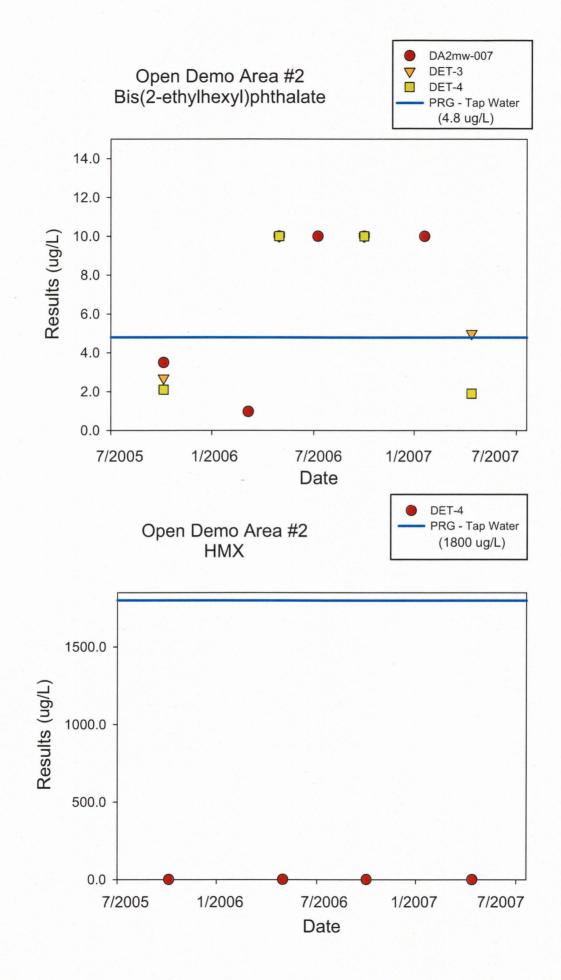


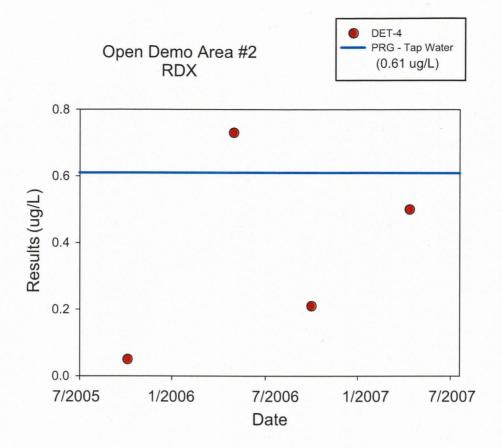


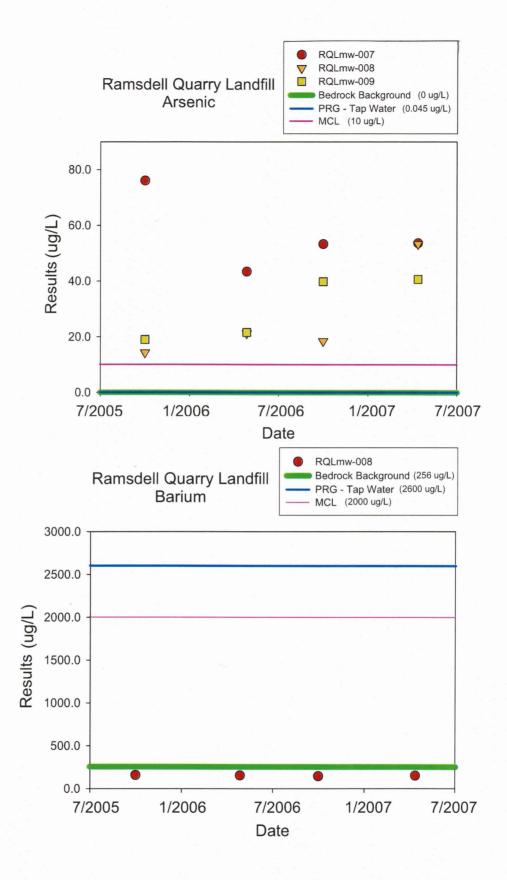


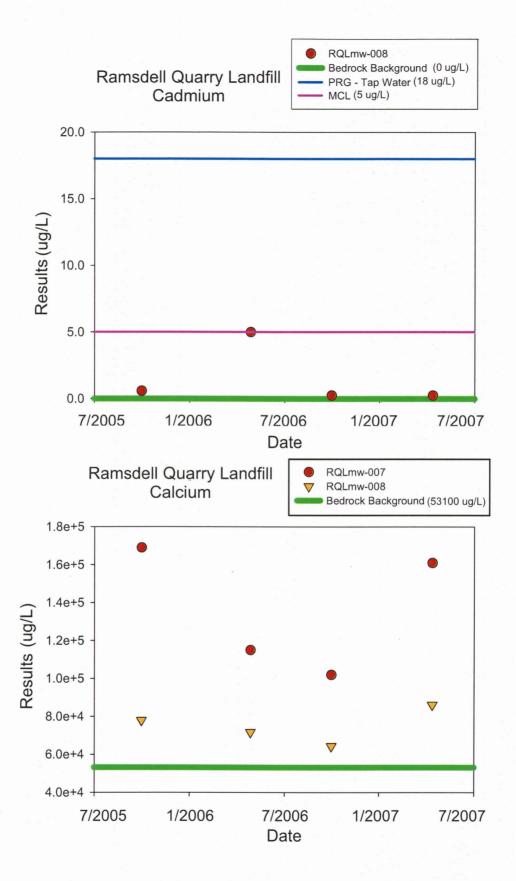


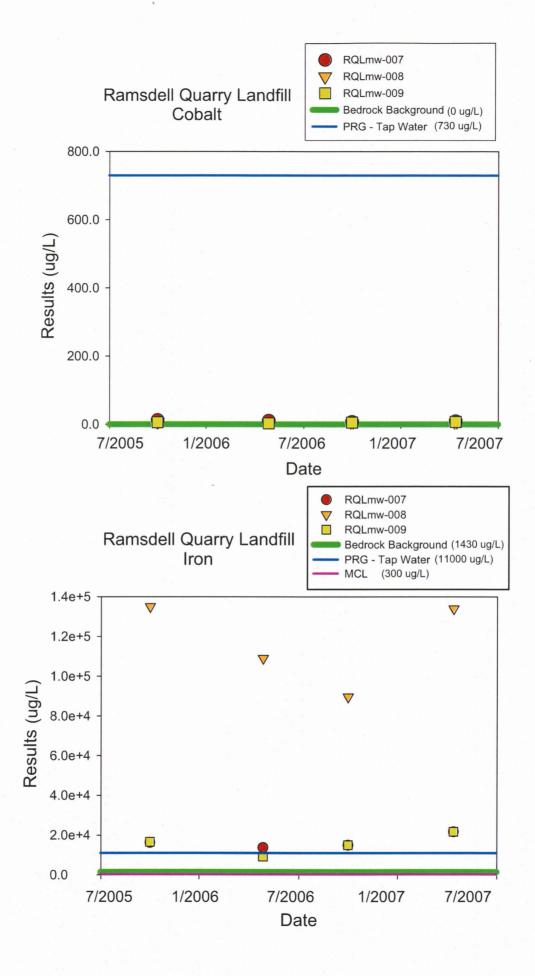


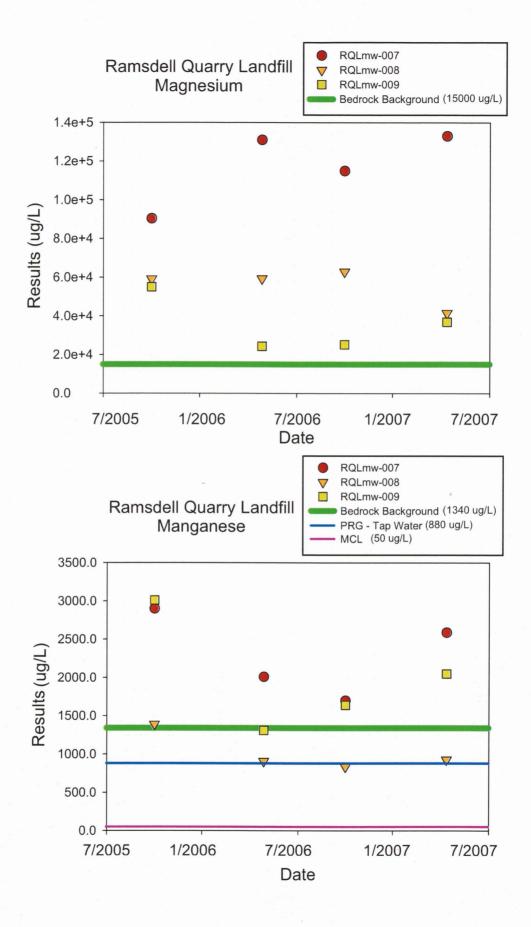


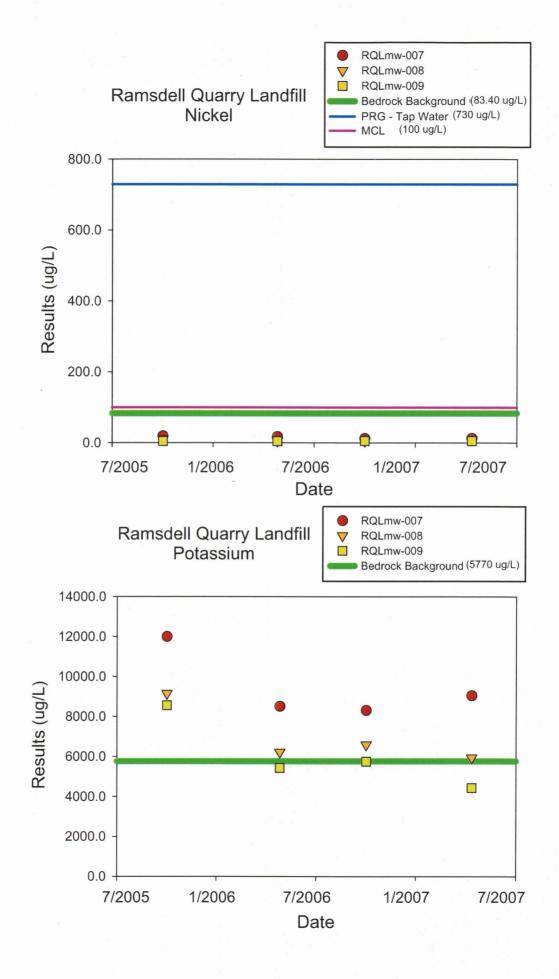


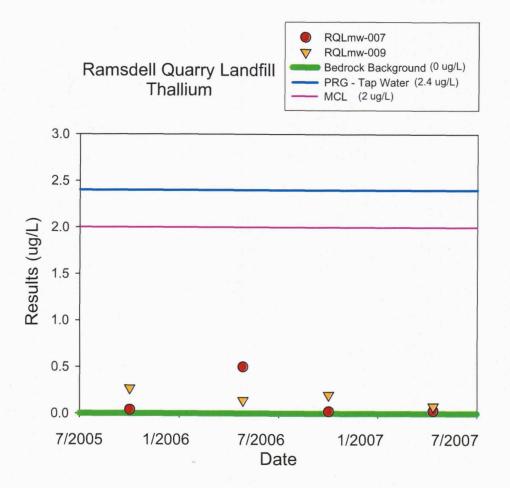


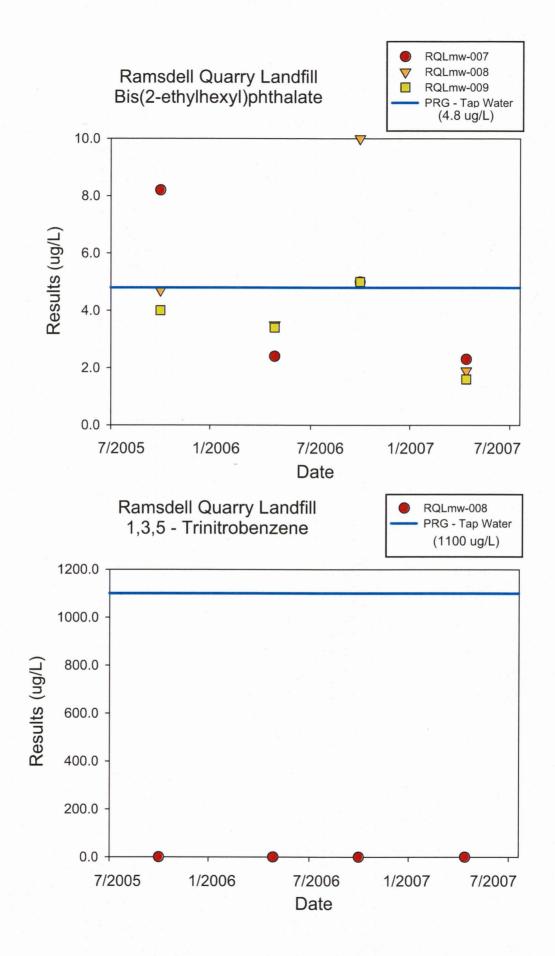


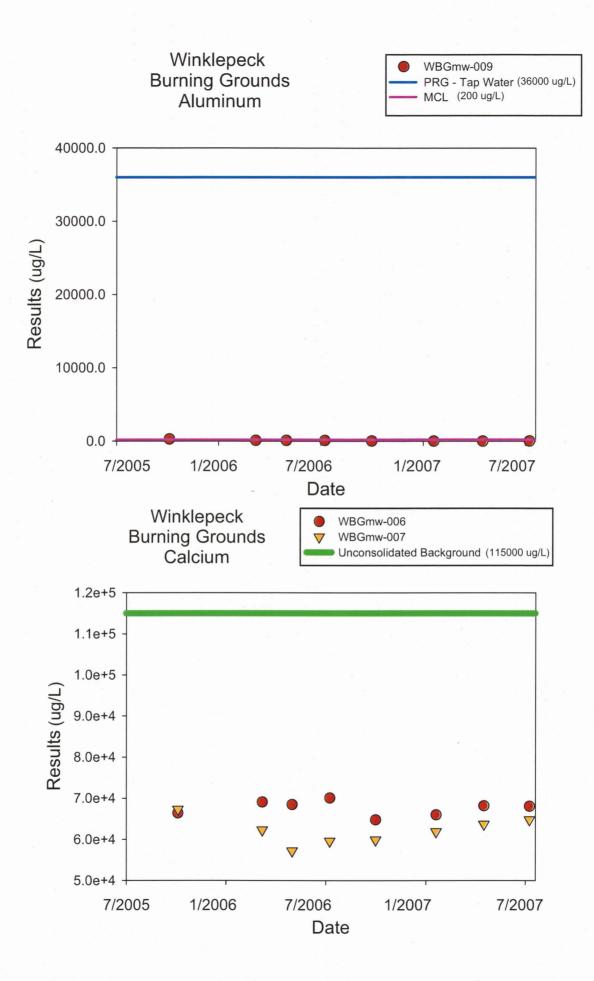


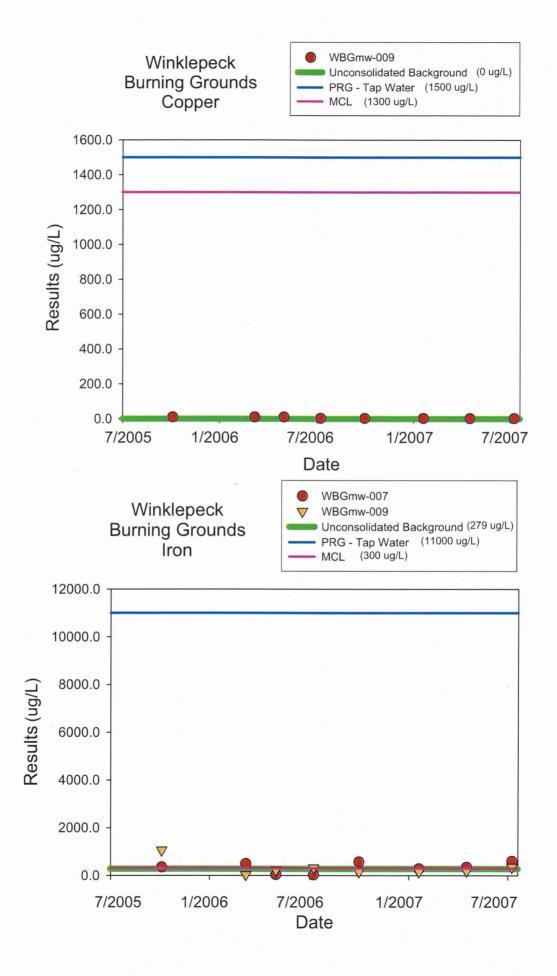


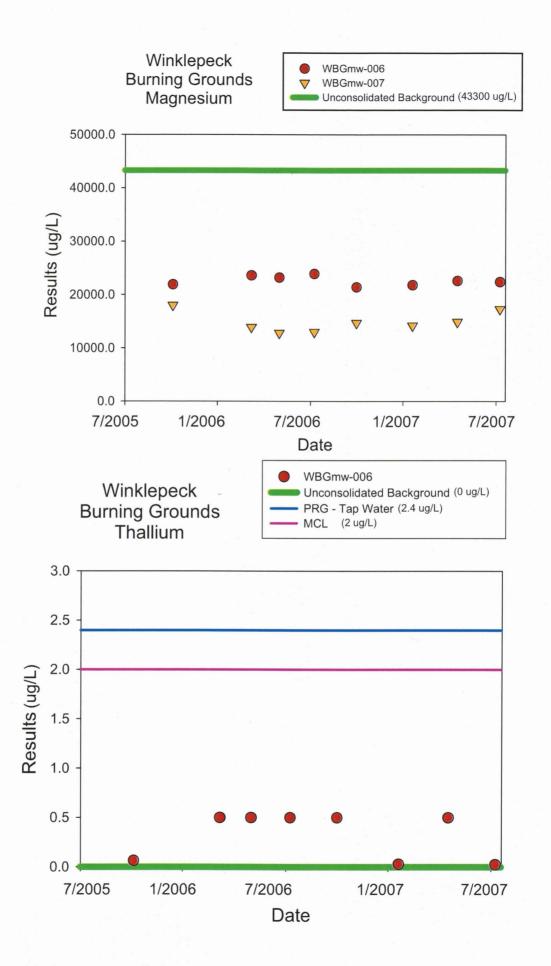


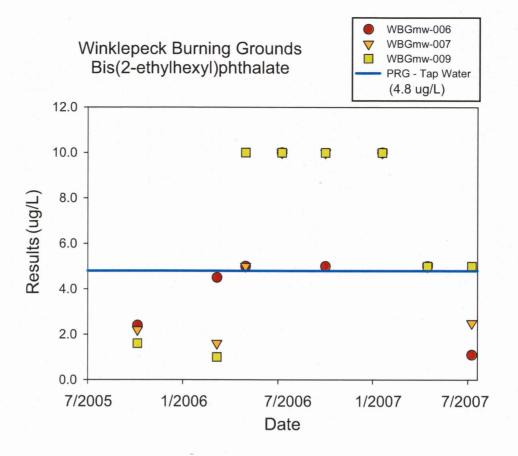


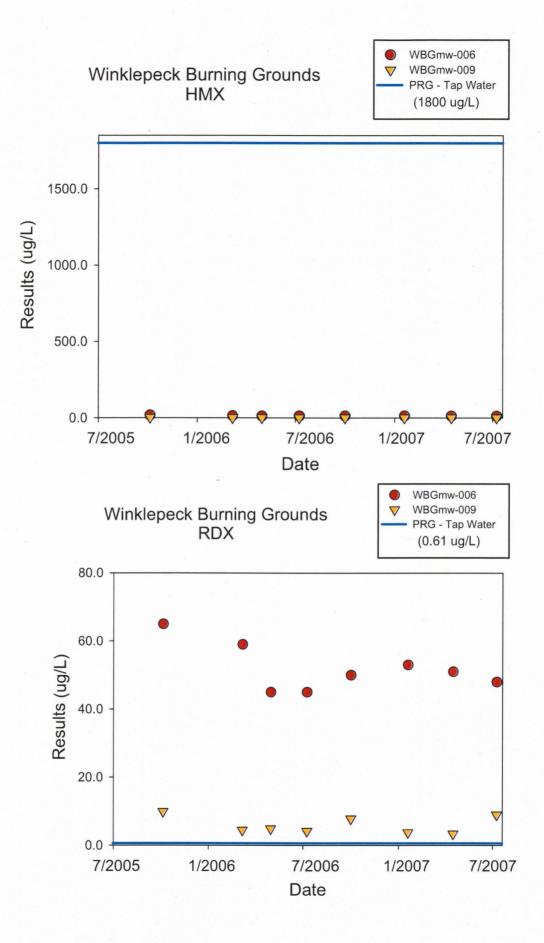












APPENDIX F

MAPS OF FWGWMP STUDY AREAS

Note: The following maps have been reproduced from various separate reports. Each map has not been altered in any way from the original format from which it was copied.

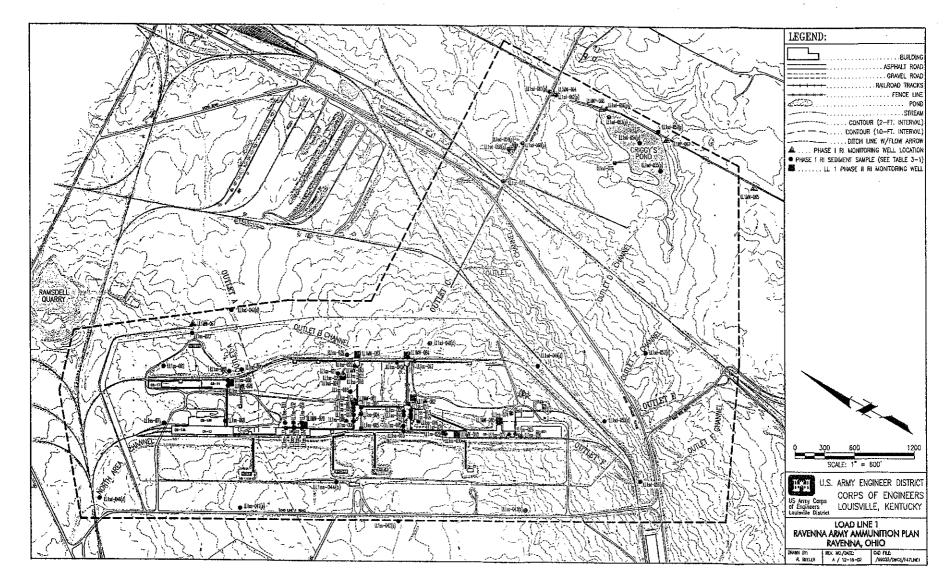
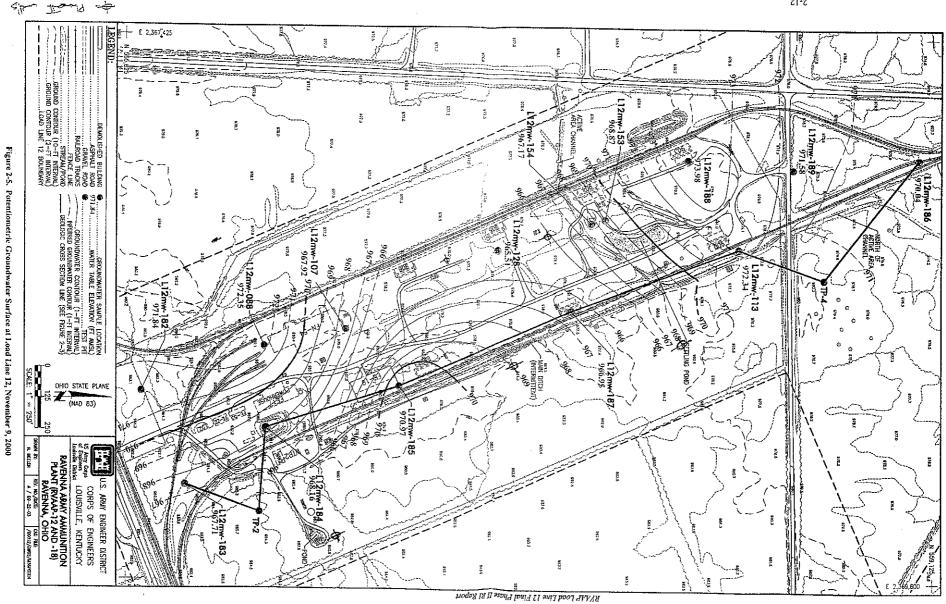


Figure 1-6. Existing Phase I RI Sampling Locations and Phase II RI Monitoring Wells at Load Line 1



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5-12

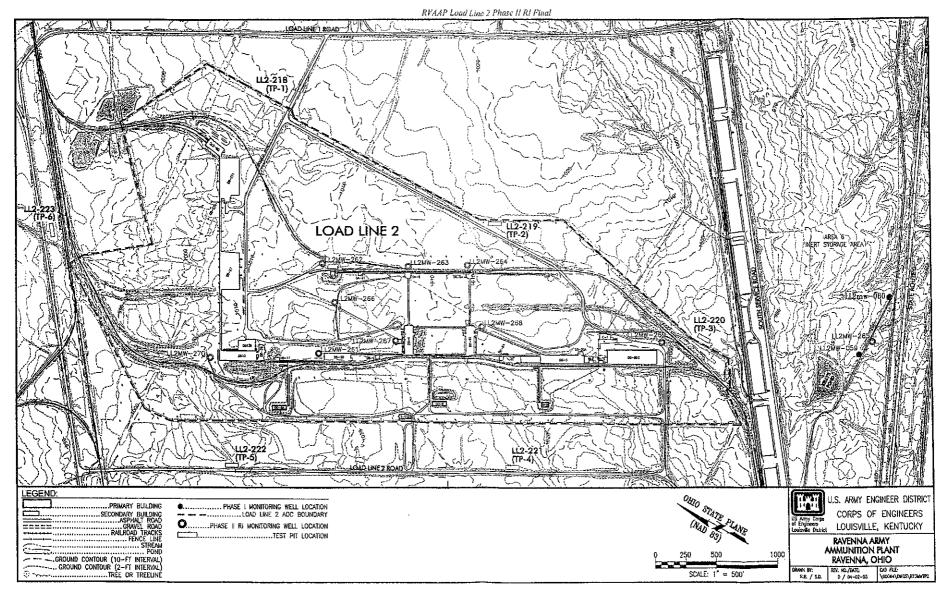


Figure 3-6. Phase II RI Monitoring Well and Test Pit Locations at Load Line 2

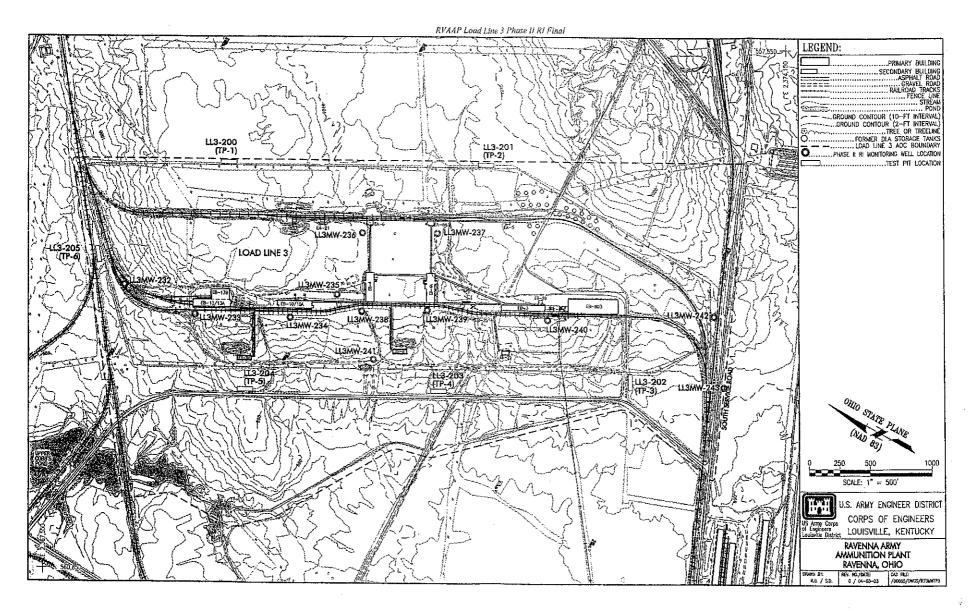
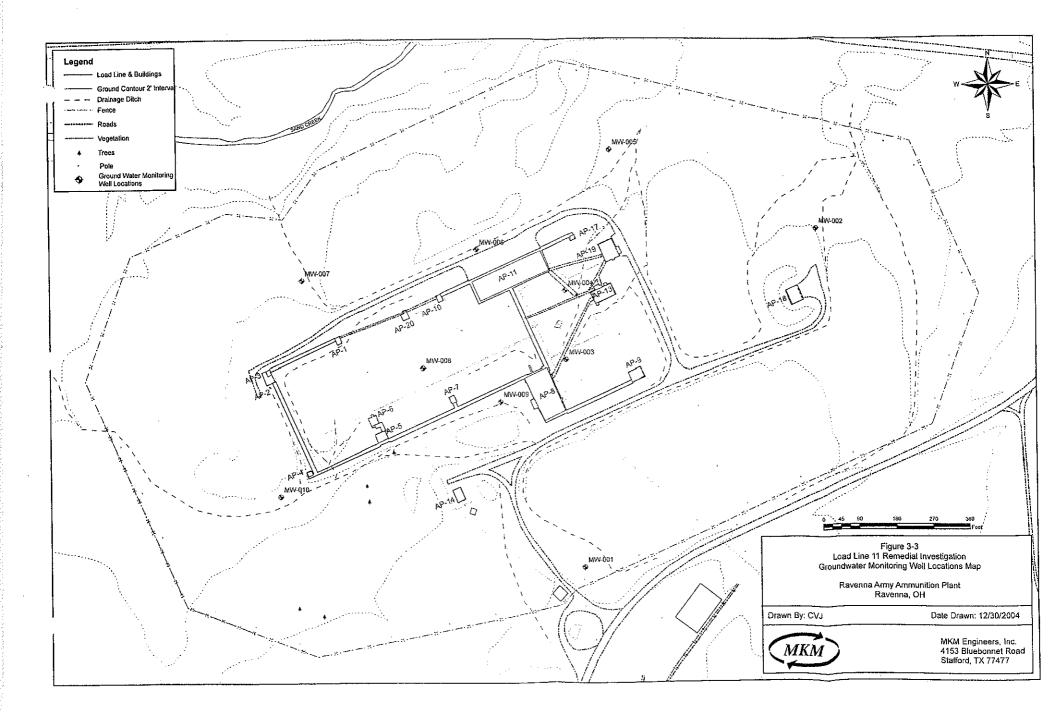


Figure 3-6. Phase II RI Monitoring Well and Test Pit Locations at Load Line 3

3-29



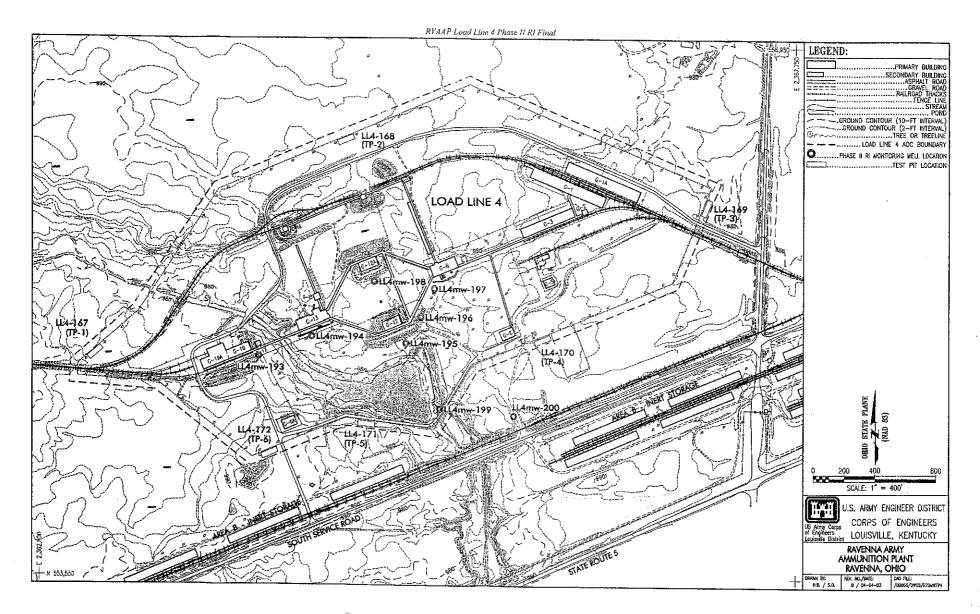
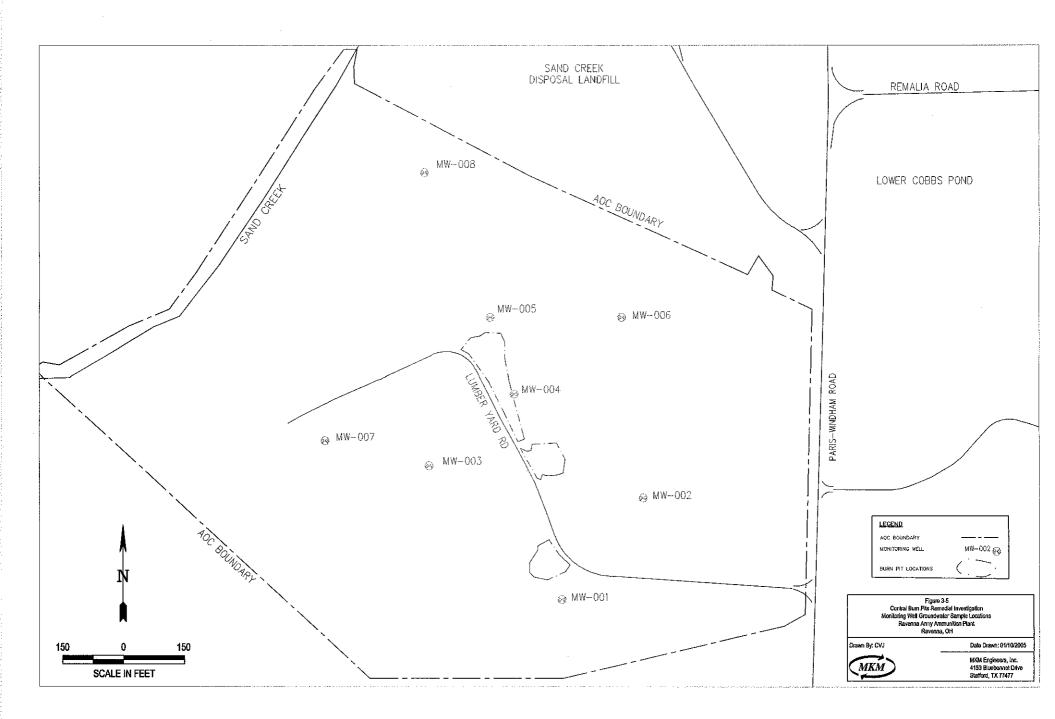


Figure 3-5. Phase II RI Monitoring Well and Test Pit Locations for Load Line 4

3-20



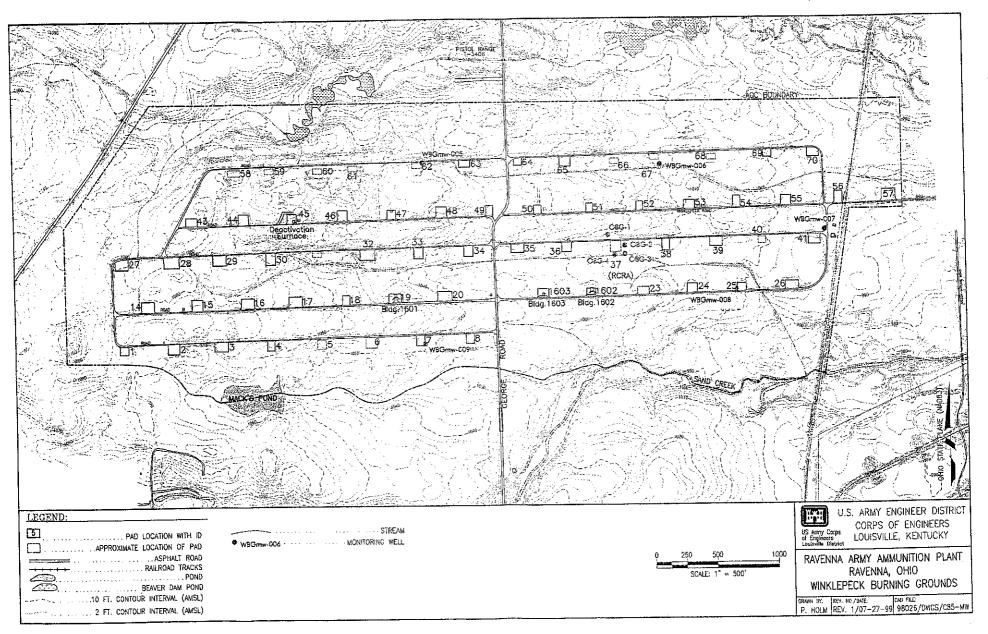
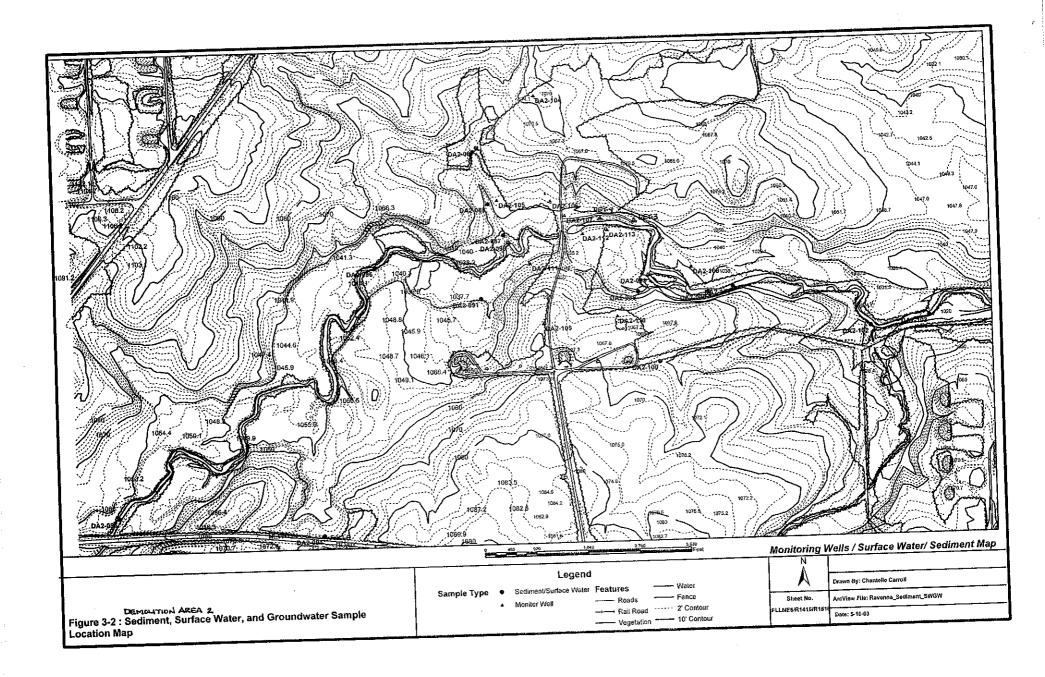


Figure 7.5 WRC: Monitoring Walt 1 continue



and the second second

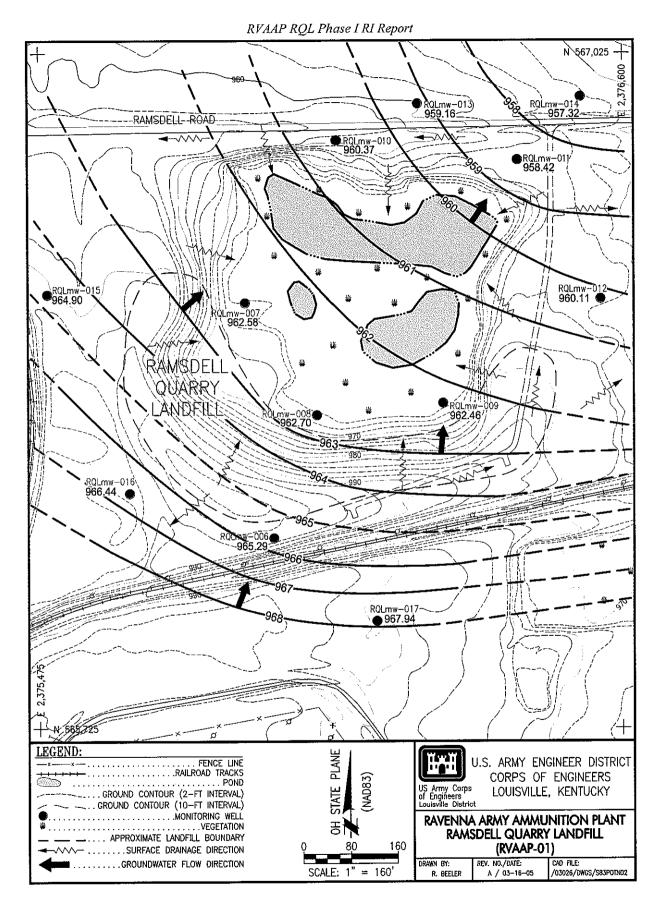


Figure 2-4. Ramsdell Quarry Potentiometric Surface, May 2004

APPENDIX G

PROPOSED WELL SAMPLING SEQUENCE

RTLS/RVAAP Area	Well ID	Number of previous non-FWGWMP	RCRA	Current FWGWMP	Included in LL- 1 thru LL-4	Additional sampling	Sampling
		sampling events	well?	well?	LTM?	proposed?	Sequence
Background	BKGmw-004			yes		no	
	BKGmw-005			yes		no	
	BKGmw-006			yes		no	
	BKGmw-008			yes		no	
**** *** *	BKGmw-010			yes		nö	
••••	BKGmw-012 BKGmw-013			yes		no no	
	BKGmw-015			yes yes		no	
	BKGmw-016			yes		no	
	BKGmw-017			ves		no	
	BKGmw-018			yes		no	
	BKGmw-019			yes		no	
	BKGmw-020			yes		no	
	BKGmw-021			yes		no	· · · · · ·
Load Line 1	LL1mw-063	3				yes	1
	LL1mw-064	3				yes	2
	LL1mw-065 LL1mw-067	3	h			yes	3
	LL1mw-067	J	····	yes	yes yes	no no	
	LL1mw-079	2	·	<u>, yes</u>	y y d S	yes	4
	LL1mw-080	~		ves		no	
	LL1mw-081	2			yes	no	
	LL1mw-082	2			yes	no	
	LL1mw-083			yes		no	
	LL1mw-084	2			yes	no	
	LL1mw-085	2			yes	no	
Load Line 2	LL2mw-059			yes		no	
	LL2mw-060	4				yes	5
	LL2mw-261	1				yes	6
	LL2mw-262			yes	yes	no	
	LL2mw-263 LL2mw-264	1		yes	yes	no	7
	LL2mw-265	· 1				yes ves	8
· · · · ·	LL2mw-266	1			yes	no	
	LL2mw-267	1		-	ves	no	
	LL2mw-268	1				yes	9
	LL2mw-269	1			yes	no	
	LL2mw-270	1				yes	10
Load Line 3	LL3mw-232	1				yes	11
	LL3mw-233	1				yes	12
	LL3mw-234	1				yes	13
	LL3mw-235 LL3mw-236	1				yes	14
	LL3mw-230 LL3mw-237	1			yes	no ves	15
	LL3mw-238	······································		yes	yes	no	15
	LL3mw-239	1		<u> </u>	yes	no	
	LL3mw-240	1			,	yes	16
	LL3mw-241	1				yes	17
	LL3mw-242			yes		no	
	LL3mw-243	1				yes	18
Load Line 4	LL4mw-193	1				yes	19
	LL4mw-194	1				yes	20
	LL4mw-195	1				yes	21
	LL4mw-196	1			yes	no	
	LL4mw-197 LL4mw-198	1		VCC	yes	no	
	LL4mw-198 LL4mw-199			yes	yes	no no	
	LL4mw-200	1		yes		yes	22
Load Line 5	LL5mw-001	1				yes	124
	LL5mw-002	1			. 1	yes	124
	LL5mw-003	1				yes	126
	LL5mw-004	1				yes	127

Table 4. Sampling Sequence

RTLS/RVAAP Area	Well ID	Number of previous non-FWGWMP sampling events	RCRA well?	Current FWGWMP well?	Included in LL- 1 thru LL-4 LTM?	Additional sampling proposed?	Sampling Sequence
	LL5mw-005	1				yes	128
	LL5mw-006	1				yes	129
Load Line 6	LL6mw-001	1				yes	130
	LL6mw-002	1				yes	131
	LL6mw-003	1				yes	132
	LL6mw-004	1				yes	133
	LL6mw-005	1				yes	134
	LL6mw-006	1				yes	135
	LL6mw-007	1				yes	136
Load Line 7	LL7mw-001	1				yes	137 138
	LL7mw-002	1				yes	130
	LL7mw-003 LL7mw-004	1				yes yes	139
	LL7mw-004	1			·····	yes yes	140
	LL7mw-005	1				yes	141
Load Line 8	LL8mw-001	1				yes	143
	LL8mw-002	1		1		yes	144
	LL8mw-003	1		1		yes	145
	LL8mw-004	1				yes	146
	LL8mw-005	1				yes	147
· · · · · · · · · · · · · · · · · · ·	LL8mw-006	1		1		yes	148
Load Line 9	LL9mw-001	1				yes	149
	LL9mw-002	1				yes	150
	LL9mw-003	1				yes	151
	LL9mw-004	1				yes	152
	LL9mw-005	1				yes	153
	LL9mw-006	1				yes	154
	LL9mw-007	1				yes	155
Load Line 10	LL10mw-001	1				yes	156
	LL10mw-002	1				yes	157 158
	LL10mw-003 LL10mw-004	1				yes	150
	LL10mw-004	1.				yes	160
	LL10mw-005	1				yes ves	161
Load Line 11	L11mw-1	1		1		yes	162
Loud Line II	L11mw-2	1		ves		no	
	L11mw-3	1		,		yes	163
	L11mw-4	1		1		yes	164
	L11mw-5	1		1		yes	165
	L11mw-6	1				yes	166
	L11mw-7			yes		no	
	L11mw-8	1				yes	167
	L11mw-9	1				yes	168
	L11mw-10	1				yes	169
Load Line 12	L12mw-088	2		Į		yes	23
	L12mw-107	2		 		yes	24
	L12mw-113	2	· · · · · · · · · · · · · · · · · · ·	 		yes	25
	L12mw-128	2				yes	26
	L12mw-153	2		yes		no	27
	L12mw-154 L12mw-182	۷		1/00	· · · · · · · · · · · · · · · · · · ·	yes	21
	L12mw-182			yes ves		no no	
	L12mw-184	2		yes		yes	28
	L12mw-185	2		<u> </u>		yes	20
	L12mw-185	-		yes		по	~~
	L12mw-187	2		<u> </u>		yes	30
	L12mw-188	2		1		yes	31
·	L12mw-189	2		1		yes	32
				t · · ·			33
	LL12mw-242	1 1			I I	yes	
	LL12mw-242 LL12mw-243	1				yes	34

Table 4. Sampling Sequence

RTLS/RVAAP Area	Well ID	Number of previous non-FWGWMP sampling events	RCRA well?	Current FWGWMP well?	Included in LL- 1 thru LL-4 LTM?	Additional sampling proposed?	Sampling Sequence
	LL12mw-246	1	1			Ves	37
Atlas Scrap Yard	ASYmw-001	1		1		yes	170
	ASYmw-002	1				yes	171
	ASYmw-003	1				yes	172
	ASYmw-004	1				yes	173
	ASYmw-005	1				yes	174
	ASYmw-006	1				yes	175
	ASYmw-007	1				yes	176
	ASYmw-008 ASYmw-009	1	<u> </u>			yes	<u>177</u> 178
	ASYMW-009 ASYMW-010	1	<u> </u>			yes ves	178
Building 1200	B12mw-010	1				yes	109
Dunung 1200	B12mw-011	1				yes	110
	B12mw-012	1				yes	111
C-Block Quarry	CBLmw-001	1				yes	38
	CBLmw-002	1				yes	39
	CBLmw-003	11				yes	40
	CBLmw-004	1				yes	41
Central Burn Pits	CBPmw-1	1	ļ	ļ		yes	112
	CBPmw-2	1				yes	113
	CBPmw-3 CBPmw-4	1				yes	114 115
	CBPmw-4 CBPmw-5			1/02		yes no	110
· · · · ·	CBPmw-6	1		yes		Ves	116
	CBPmw-7	1		ves		yes no	110
	CBPmw-8	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		yes	117
Cobbs Pond	CPmw-1	1				yes	118
	CPmw-2	1				yes	119
	CPmw-3	1				yes	120
	CPmw-4	1				yes	121
	CPmw-5	1				yes	122
	CPmw-6	1				yes	123
Demo. Area 2	DET-1 DET-2	22				no	
	DET-2 DET-3	22	yes			no yes	
	DET-4	<u> </u>	yes			yes	
	DA2mw-104	1	,	· · ·		yes	42
	DA2mw-105	1				yes	43
	DA2mw-106	1				yes	44
	DA2mw-107			yes		no	
	DA2mw-108	1				yes	45
	DA2mw-109	1		<u> </u>		yes	46
	DA2mw-110	1		Į		yes	47
	DA2mw-111 DA2mw-112	1				yes	48 49
	DA2mw-112 DA2mw-113	1				yes yes	<u>49</u> 50
Erie Burning	EBGmw-123	1		<u> </u>		yes	50 51
Grounds	EBGmw-123	1	<u> </u>	<u> </u>	h	yes	52
	EBGmw-125	1				ves	53
	EBGmw-126	1				yes	54
	EBGmw-127	1				yes	55
	EBGmw-128	1				yes	56
	EBGmw-129	1				yes	57
	EBGmw-130	1		ļ		yes	58
Fuze and Booster	FBQmw-166	1				yes	59
Quarry	FBQmw-167	1				yes	60
	FBQmw-168 FBQmw-169	1				yes	61 62
	FBQmw-169 FBQmw-170	1		l		yes yes	63
	FBQmw-171	1				yes yes	64
· · · ·	FBQmw-172	1				yes	65
	FBQmw-173	1				yes	66
					•		

Table 4. Sampling Sequence

Table 4.	Sampling	Sequence
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RTLS/RVAAP Area	Well ID	Number of previous non-FWGWMP sampling events	RCRA well?	Current FWGWMP well?	Included in LL- 1 thru LL-4 LTM?	Additional sampling proposed?	Sampling Sequence
	FBQmw-174	· 1				yes	67
	FBQmw-175	1				yes	68
	FBQmw-176	1				yes	69
	FBQmw-177	1				yes	70
Landfill North of	LNWmw-024	1				yes	71
Winklepeck	LNWmw-025	· 1				yes	72
	LNWmw-026	1				yes	73
	LNWmw-027	1				yes	74
NACA Test Area	NTAmw-107	1				yes	75
	NTAmw-108	1				yes	76
	NTAmw-109	1				yes	77
	NTAmw-110	1				yes	78
	NTAmw-111	· 1				yes	79
	NTAmw-112	1				yes	80
	NTAmw-113	1				yes	81
	NTAmw-114	1				yes	82
	NTAmw-115	1		1		yes	83
	NTAmw-116	1		T		yes	84
	NTAmw-117	1		1		yes	85
	NTAmw-118	1				ves	86
Ramsdell Quarry	RQLmw-006	18		1		no	
Landfill	RQLmw-007		yes		i i	yes	•
	RQLmw-008		yes	1	i i	yes	
	RQLmw-009		yes			yes	
	RQLmw-010	17	1			no	
	RQLmw-011	17				no	
	RQLmw-012	3				yes	87
	RQLmw-013	3				yes	88
	RQLmw-014	3				yes	89
	RQLmw-015	3				yes	90
	RQLmw-016	3				ves	91
	RQLmw-017	3				yes	92
Winklepeck	WBGmw-005	2				yes	93
Burning Grounds	WBGmw-006			yes		no	
	WBGmw-007		-	yes	1 1	no	
	WBGmw-008	2	····	1 1 1		yes	94
	WBGmw-009	-		yes		no	<i></i>
	WBGmw-010	. 1		,		yes	95
	WBGmw-011	1		1		yes	96
	WBGmw-012	2				yes	97
	WBGmw-013	2		İ		yes	98
	WBGmw-014			1		ves	99
	WBGmw-015	1		1		yes	100
	WBGmw-016	1				yes	101
	WBGmw-017	1		1		yes	102
Mustard	MBS-001	2				yes	103
Agent Burial Site	MBS-002	2	· · · · · · · · · · · · · · · · · · ·			yes	104
. gont barrar one	MBS-002	2		 	<u> </u>	yes	104
	MBS-004	2				yes	106
	MBS-005	1				yes	107
	MBS-006	1				yes	107

Current FWGWMP wells are shown in red. RCRA wells are shown in blue.

COMMENT/RESPONSE TABLES



State of Ohio Environmental Protection Agency

Northeast District Office

2110 East Aurora Rd. Twinsburg, Ohio 44087

TELE: (330) 963-1200 FAX: (330) 487-0769 www.epa.state.oh.us

RE:

Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director

March 6, 2008

Mr. Mark Patterson Installation Manager **Ravenna Army Ammunition Plant** 8451 State Route 5 Ravenna, OH 44266

RAVENNA ARMY AMMUNITION PLANT, PORTAGE/TRUMBULL COUNTIES, DRAFT, FWGWMP, RESPONSE TO OHIO EPA COMMENTS, ANNUAL **REPORT FOR 2007**

CERTIFIED MAIL

Dear Mr. Patterson:

The Ohio Environmental Protection Agency (Ohio EPA) has received and reviewed the "Response to Ohio EPA Comments, Facility-Wide Ground Water Monitoring Program (FWGWMP) Draft Annual Report for 2007" document. The document was received at Ohio EPA, Northeast District Office (NEDO), Division of Emergency and Remedial Response (DERR), on February 8, 2008. The document was prepared for the U.S. Army Corps of Engineers (USACE) - Louisville District. by Environmental Quality Management, Inc. (EQM), under contract no. W912QR-04-D-0036. This document was reviewed by Ohio EPA personnel in NEDO's DERR, and NEDO's Division of Drinking and Ground Waters (DDAGW),

All Ohio EPA comments have been adequately addressed and the report is approved; however, please note the following:

- (1) EQM states that well maintenance activities are expected to be conducted in May -June and Ohio EPA will be advised. Please make sure Ohio EPA is advised when these activities will begin.
- (2) Although EQM provided a detailed explanation regarding the integrity of the background wells, this issue will require additional dialogue at a later time.
- (3) EQM has requested raising the RL for potassium from 200 ug/L to 1,000 ug/L, due to the high detected levels. That is acceptable to Ohio EPA.
- (4) The analytical data prior to the April 2007 sampling event has opposite inorganic and organic designations for the B and J gualifiers. EQM indicated that switching the historical data qualifiers is not scheduled. Does USACE have plans to switch the historical qualifiers?

Please coordinate with all other stakeholders to ensure that their comments have been incorporated into the final document. Please forward two copies of the replacement pages and titles.

MR. MARK PATTERSON RAVENNA ARMY AMMUNITION PLANT MARCH 6, 2008 PAGE 2

If you have any questions, please call me at (330) 963-1207.

Sincerely,

- HURL DUPPSEL

Vicki Deppisch Project Coordinator Division of Emergency and Remedial Response

VD/kss

ec:

cc: Bonnie Buthker, Ohio EPA, DERR, SWDO Eileen Mohr, Ohio EPA, DERR, NEDO Katie Elgin, OHARNG RTLS Maj. Ed Meade, OHARNG RTLS Glen Beckham, USACE Louisville Rick Hockett, USACE Louisville Mark Krivansky, AEC John Miller, EQM Conni McCambridge, Ohio EPA, DERR, NEDO

Mike Eberle, Ohio EPA, DERR, NEDO Todd Fisher, Ohio EPA, DERR, NEDO

				T	Page 1 of 5
Comment Number	Page or Sheet	New Page or Sheet	C		
Number	Sheet	or Sneet	Comment	Recommendation	Response
A-1	various	NA	A number of typos were detected in the	Please review and revise accordingly.	Agree. Changes made.
A-1	various	INA	document.	Examples: Table of Contents, lines 14, 15,	Agree. Changes made.
•	,			19, 20 – improper capitalization.	
A-2	4, 1 st paragraph	No Change	Tense switches from "are sampled" to "were sampled"	Revise for consistency.	Agree. Change made.
A-3	4, 8	No Change	"September, 200)"	Should be "September, 2004"	Agree. Change made.
A-4	4, various	No	"Facility-Wide" and "Facility- Wide"	Revise throughout document.	Agree. Changes made, except if a
		Change	should be replaced with "Facility-wide".		reference is made to an earlier report that
			That is, there should not be spaces on either		did not use this convention.
			side of the hyphen, and "Wide" should not be capitalized.		
A-5	5, 32	No	"will be"	Replace with "were"	Agree. Change made.
		Change			
A-6	7,4	7,4	During this period, some metals methods	Include a brief summary of analytical	Agree. The text will be revised to indicate
ł			were changed from 6010 to 6020.	changes.	that the change to 6020 was implemented in
			Detection limits were lowered. In the July		order to achieve lower RLs.
			2006 event, only thallium was analyzed by		
			method 6020; other metals were analyzed		
			using 6010 (except mercury). Beginning in		
			October 2006, antimony, iron, beryllium,		
			zinc, cadmium, aluminum were added to		
			the 6020, and deleted from the 6010 list.		
A-7	9, 41	No	"collect"	Change to "collected".	Per comment 23 the referenced paragraph
		Change		· · · · · · · · · · · · · · · · · · ·	deleted.
A-8	23	No	No line numbering	Add line numbering	Line numbers will be added
		Change			
A-9	23, 2 nd	No	"member"	Change to "Member", and check entire	Agree. Changes made.
	para., last	Change		document to ensure formation names are	
	sentence			capitalized.	
A-10	30, 6	No	Line 6 should be a separate bulleted item in	Add bullet.	Agree. Change made.
		Change	the list		
A-11	30, 5	No	No period	Add period.	Agree. Change made.
		Change			
A-12	31, 13	No	"MCL"	Change to "MCLs".	Agree. Change made.
		Change	· · · · · · · · · · · · · · · · · · ·		· · ·
A-13	31, 20	No	Sentence appears to be incomplete.	Check and revise.	Sentence revised

.

Comment Number	Page or Sheet	New Page or Sheet	Comment	Recommendation	Response
		Change			
A-14	50, 5	75	"September 22, 2007"	The draft that was submitted to Ohio EPA	Agree. Change made.
· .				was dated October 22, 2007, and was	3 • • • • • • • • • • • • • • • • • •
				submitted two days later. Suggest	
		100 C		rewording to reference the report date	
				(October 22, 2007).	
A-15	52, 11	77	")"	Remove extra closing parenthesis.	Agree. Format of reference revised to be
			· · · ·		consistent with others.
A-16	Appendix	No	The target compounds are not what don't	Revise throughout document to reference	Agree.
	A	Change	meet, it's the reporting limits	the RLs rather than target compounds.	
A-17	Plates 2	No	General comment: The equipotential lines	The ground water flow maps should be	Agreed. Plate 2 has been extensively
	and 3	Change	that are presented do not adequately	reviewed and presented in a more detailed	revised per comments 17, 18 and 22.
			account for ground surface topography.	manner that accounts for the impact of	
	· .		Three examples:	surface topography in greater detail.	
			1. Plate 3, the 1110 line at the south		
			end of the Fuze & Booster Hill		
			area is located downhill of the		
			1100 line.		
			2. Same area, same 1100 line as item		
			1: The ground surface elevation where the 1100 line crosses the		
			drainage that exits LL8 to the west		
			is approximately 10 ft above the		
			ground surface. This suggests that		
			the aquifer is artesian at this point,		
			which is unlikely.		
		· .	3. Most equipotential lines that cross		
			surface water drainages do not		
			"V" upstream. In areas where the		
			potentiometric surface is at or near		
			the surface, the lines should follow		
		·	the ground surface topography		
		· · ·	more closely.		$\left[\frac{1}{2} \left[\frac{1}{2$
A-18	Plate 2	No	The use of 50-ft contours makes the	Revise appropriately.	Use of a 10-foot contour interval was
		Change	potentiometric surface depicted on Plate 2		evaluated and determined to be too
			very generalized and limits its usefulness.		speculative. There is just too much of
			The use of 10-ft intermediate contours,		RVAAP without data to support. A 25-fo
			along with the recommendation in		intermediate contour interval has been use

Comment	Page or	New Page			
Number	Sheet	or Sheet	Comment	Recommendation	Response
			Comment 17, will tremendously increase the usefulness of the map.		
A-19	Plate 3	No Change	The 1120 equipotent line is located outside of the area where the Homewood Member is present. Several wells inside the Homewood member area at Fuze &	Check all contouring for accuracy.	Agreed. Plate 3 has been extensively revised per comments 19, 20 and 21.
			Booster Hill have static water levels greater than 1120 (these wells are located at FBQ).		
A-20	Plate 3	No Change	The 1130 equipotential line does not accurately depict the direction of ground water flow indicated by the C-Block Quarry wells. Flow direction in that area of the Homewood member appears to be southwesterly, instead of the southeasterly flow shown on Plate 3.	Suggest using a single 1136 equipotential, or an 1137 & 1135 couple in the CBL area, and showing flow to the southwest.	
A-21	Plate 3	No Change	The 970 equipotential line is missing in the Sharon Conglomerate area.	Add the line.	Agreed. 970 contour line has been added.
A-22	Plate 2	No Change	Part of the rationale for mapping bedrock units separately from unconsolidated	Suggest that the mapping presented in Plate 2 be revised to more closely resemble the	Agreed. Plate 2 has been revised.
			deposits is to emphasize that in those areas, the bedrock is generally the uppermost aquifer. The mapping of flow in the unconsolidated deposits depicted on Plate 2 does not exclude the Homewood Member area, or portions of the Sharon	area shown in Figure 18 of the "Draft Proposal to Update the Facility-wide Ground Water Monitoring Program", including a line depicting the limits of mapping	However, based on your classification of wells by water-bearing zone, both unconsolidated and bedrock wells are present at sites Load Line 12, Fuze and Booster Hill, Load Line 5, Load Line 6, and Load Line 10. These sites are within the
	-		Conglomerate area where the unconsolidated deposits are relatively thin and do not serve as a significant water- bearing unit.		areas of Homewood and Sharon depicted on Figure 18 of the "Draft Proposal to Update the Facility-wide Ground Water Monitoring Program". Thus, at these sites there may be two over-laying water bearing
			As presented in Plate 2, one could interpret flow to be continuous in a west to east direction through unconsolidated deposits in the LL-1, LL-3, and LL-3 area, which is not accurate.		zones. Plate 2 includes demarcations of locations where EQ interprets that the unconsolidated aquifer is missing based on water-level data. These areas do not directly
A-23		No	Given the extensive revisions to Plates 2	Suggest that 2- or 5-ft intermediate contours	correspond to the demarcation in Figure 18. The text on page 9 has been revised to

Page 3 of 5

Page 4 of 5

Comment	Page or	New Page			
Number	Sheet	or Sheet	Comment	Recommendation	Response
		Change	and 3 that Comments 17 through 22 will	be added to the Fuze and Booster Hill and	reflect the changes made to Plates 2 and 3.
			generate, the paragraph on page 9 that is	Sharon Conglomerate area on Plate 3.	
			referenced in Comment 7 above can be		The water-level data were re-evaluated and
			deleted, as the ground water flow mapping		EQ determined that there is not a sufficient
			will become much more detailed and there		range of water levels at these sites to
			will be no need to generate separate AOC		support interpretation and construction of
			flow maps. The intent of the		2-foot or 5-foot contour intervals.
		· .	recommendations in the "Draft Proposal to		
	1.		Update the Facility-wide Ground Water	and the second	Inspection of the October 2007 water-level
		1. 	Monitoring Program" was to produce more		data, by site (e.g., Load Line 1, Ramsdell
			accurate and detailed flow maps that will		Quarry, Fuze and Booster Hill, Load Line
		· .	add to the general comprehension of		12, etc.), indicates that there was very little
			ground water flow conditions at RVAAP.		variability among the site wells. In most
<i>t</i>			While reviewing the flow maps with regard		cases the range was only one or two feet.
			to comments 17 through 22, please keep in		The locations of wells with higher water-
			mind that producing a document that lends	and the second	levels, however, do fit the configurations
			itself to developing a clear understanding		presented on Plates 2 and 3.
			of ground water flow will significantly		
			improve our effort to close ground water		
			related issues at RVAAP.		
A-24	Section 1.6,	No	Needs editing to depict the following:	Revise appropriately.	Agree. Changes made.
	last	Change	Several analytical methods used for VOCs,		
	paragraph		SVOCs, pesticides, PCBs and explosives		
			analyses result in reporting limits that can		
			not meet Region 9 PRGs for some analytes.		
			Additionally, three explosive analytes did		
			not meet the RL requirements of the project		
		· · ·	QAPP. Tables listing these compounds are presented in Appendix A.		
			presented in Appendix A.		
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Comment Number	Page or Sheet	New Page or Sheet	Comment	Recommendation	Response	
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			RTLS-Environme	ental (Insert commenter name)		
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R-2			· · · · · · ·			· · · ·
R-3						

Page 5 of 5

Comment Number	Page or Sheet	New Page or Sheet	Comment	Recommendation	Response
	·····		Arm	y	
			Ohio EPA (V.	Dannisch)	
0-1	Section 3.0		Section 3.0 provides a summary of 2007 FWGWMP events. However, this section does not contain a discussion concerning the issue of sampling coolers being received at temperatures greater than $4^{\circ}C \pm 2^{\circ}C$ (April and July 2007 FWGWMP Reports).	Sample preservation temperature seems to be a reoccurring issue and should be addressed in the Annual 2007 Report. Please provide a brief discussion as to how this issue will be addressed during the 2008 sampling season.	The following text will be added to Section 3.4: As discussed in the April and July groundwater reports elevated sample receipt temperatures were an issue for two coolers received by the laboratory in 2007 (one from the April event and one from the July event). In
					order to ensure that this situation does not re-occur, EQM has instituted the policy that temperature blanks accompany the samples at all times prio to shipment. Additionally, a secondary check will be performed prior to cooler shipment to ensure that sufficient ice has been placed in each cooler. Further, the laboratory (TestAmerica) has been notified that any temperature exceedances must immediately be reported to EQM so that an evaluation
0-2	Section 3.2,		Section 3.2 indicates that "four wells"		can be made as to the need for re- sampling. It should be noted that while every attempt is made to meet the temperature requirement, exceptions may have to be made for this requirement when sample. are collected and then submitted to the laboratory within a relatively short time period of sample collection as detailed it Section 5.4.3 of the FWSAP. Should thi, situation occur in the future, the Ohio EPA will be notified immediately upon discovery of the situation. Table 3-2 will be revised to show the

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· · · ·					Page 2 of 8
		New			
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Comment	-	or			
Number	Page or Sheet	Sheet	Comment	Recommendation	Response
	Table 3-2,		have reported an accumulation of	column detailing the total sediment	calculated sediment accumulation for
	Page 25, and		sediment from 0.50 to 1 foot over the	accumulation amount for each well.	each well.
	Appendix C - Well		past year. However, Table 3-2 does not	Please include the four well locations	
	Inspection Sheets		provide the total sediment accumulation	referred to in Section 3.2.	
			amount for each well. Thus, it is unclear		
			to which wells Section 3.2 is referring.		
O-3	Section 3.3,		a) Section 3.3 indicates that well	a) Please provide a brief discussion	a) The USACE has not currently funded
	Table 3-4,		inspections were conducted on all	concerning the time line connected	this work. Funding is expected prior to
	Pages 25 - 27		FWGWMP monitoring wells in	with the resolution of the	the 2 nd quarter 2008. EQM anticipates
	- · · ·		October 2007. Maintenance issues	maintenance issues concerning the	that the maintenance activities will be
·			were noted in Table 3-4. It is	FWGWMP wells.	conducted in the May-June timeframe.
			unclear when these maintenance		We will provide the Ohio EPA
			issues would be resolved in 2008.		notification once an exact date is
				b) Please include well CBPmw-007,	determined.
			b) It was previously noted that	along with any other well(s) that	b) CBPmw-007 has been removed from
			CBPmw-007 had a total sediment	report a total sediment accumulation	the active list of wells to be sampled
			accumulation of 1.02 feet (see July	of greater than 10% of the screen	during 2008. The sediment accumulation
			2007 FWGWMP report). The	length, and the redevelopment	in this well is noted and since it may not
			facility's response to this issue	recommendation in Table 3-4.	be sampled again for several years, it is
			indicated that this well would be		recommended that redevelopment of this
			"redeveloped during the annual		well be delayed until the next time
			maintenance activities conducted in		CBPmw-007 is sampled.
	· .		2008" (Facility's November 30,		CBrinw-007 is sampled.
			2007 Response to Ohio EPA		
			Comments). However, well		
			CBPmw-007, along with this		
			recommendation, is not listed in the		
			Well Inspection Summary Table		
			(Table 3-4).		
 O-4	Section 4.2,		Several chemicals of potential concern	The data indicate that many of the	The following text will be added to
U-4	Table 4-1,		(COPCs) and common pesticides were	background wells have been impacted by	Section 5.2: The specific issues related
	Page 32		detected in background wells during the	historical operations and, thus, are not	to the background wells at RVAAP
	1 ago 32		2006-2007 quarterly sampling events.	capable of providing a representative	include the presence of explosives and
			While Table 4-1 listed many of these	<i>"background"</i> sample unaffected by the	
			results as " J " (estimated) valued, there is		the exceedance of health/aesthetic
				facility.	criteria (MCLs). An additional question
			a concern that all background wells may		is related to the presence of naturally

Comment		New Page or			
Number	Page or Sheet	Sheet	Comment	Recommendation	Response
•			have been impacted by the facility to some degree over time.	Ohio EPA has previously requested that	occurring elements (e.g., aluminum, copper, nickel, etc) previously establish to have a "0" background concentration
			The issue of detected concentrations of explosive compounds, inorganics, and pesticides in the background wells	the background wells issue be addressed in the 2007 Annual Report. However, no such discussion could be found in the	in background wells. Prior to addressin the concern that background needs to be re-evaluated, it is necessary to point out
			continues to question the integrity of these wells as background. This issue has been noted by Ohio EPA on many	2007 Annual Report. Please provide a discussion on how this issue will be resolved.	that the background data are not conclusive that explosives are present. While a few explosive compounds have
-			occasions and continues to be unresolved.	10301404.	been reported in samples at estimated ("J") concentrations, these reports are
					isolated and not recurrent. Background wells can be used to addres one or both of the following: 1) define
		2 			regional water-quality conditions without the effects of human activities and 2) define the quality of groundwater flowin
					into an area of interest (e.g., AOC) from a neighboring site that may show effects of outside actions (i.e., groundwater
					contaminated from other sources). The Army recognizes that there are issues associated with background wate
					quality data and suggests that background data require re-evaluation. This re-evaluation should include the
					actual quality of water in the wells and the location of the wells with respect to
		· ·			objective. The Army considers the FWGWMP to b a fluid program allowing for re-
					evaluation and re-definition. The Army has initiated this re-evaluation with the presentation in October 2007 of the Dre
					Proposal to Update the Facility-Wide Ground Water Monitoring Program. Th

1. The second					Page 4 of 8
Comment		New Page or			
Number	Page or Sheet	Sheet	Comment	Recommendation	Response
					major premise of this document is that
					previous interpretations of the
		÷			groundwater regime at RVAAP are not
					completely accurate. If the Ohio EPA
					agrees with this conclusion and the
					subsequent reinterpretation of
					groundwater flow systems, the locations
					and objectives of background wells can
					be re-considered.
	· ·				Inspection of the locations of background
					wells in relationship to the newly
		·			interpreted groundwater flow regime (as
					described in the Annual Report) suggests
					that only wells BKGmw 005, BKGmw-
					006, and BKGmw-018 may be located to
					establish unaffected regional water-
					quality conditions. All other background
					wells may be located hydraulically down
					gradient from activities and practices at
					RVAAP that may result in measurable
		1.			affects.
O-5	Section 4.0,		Arsenic results from Load Lines 2, 4, 11,	Please provide a discussion to address	As noted in Table 4-3 there are a number
	Page 74,		12, Central Burn Pits, Ramsdell Quarry	this issue.	of compounds/elements that exceed the
	Table 4-1		Landfill, and Winklepeck Burning		associated MCLs and/or Region 9 PRGs.
			Grounds repeatedly exceeded its MCL		The purpose of the FWGWMP is to
			(10 ug/L) during 2006-2007 sampling.		ascertain the water quality and determine
1			The highest reported result for this		if hazardous constituents from past
			pesticide was 53.3 ug/L in Ramsdell		activities are causing current or future
			Quarry Landfill. It is unclear what		risk via groundwater use on-site or via
	•		course of action will be implemented to		groundwater migration to off-site
			address this issue.		receptors. Once all of the facility-wide
].					data has been collected and evaluated,
					decisions will be made to implement
					cost-effective remedial actions as
					necessary.
	Appendix C		Appendix C well logs indicate that	Please provide a discussion concerning	Any wells with a greater than 10%

		T			Page 5 of 8
		New			
.		Page			
Comment		or			
Number	Page or Sheet	Sheet	Comment	Recommendation	Response
			several wells (i.e., CBLmw-001 and	how excessive silting will be addressed in	sediment accumulation that are being
			CBPmw-001) may have a thickness of	these wells during the 2008 sampling	sampled during 2008 will be redeveloped
			sediment accumulation of greater than	season.	during 2008 groundwater monitoring
			10% of their screen lengths (10 feet).		timeframe. Additionally, several wells
			This could be indicative of excessive		that were sampled in January 2008
			silting in the well (FWGWMPP, Section		exhibited high turbidity. These wells will
			4.1, pg. 4-1).		also be redeveloped. This list of wells to
				· · · · · · · · · · · · · · · · · · ·	be redeveloped is as follows: LL3mw-
					233, LL3mw-241 LL4mw-194,
					LL12mw-113, and LL12mw-244.
	4 ¹	· ·			Finally, any wells, such as CBLmw-001
			• •		and CBP-001, identified as having a
					greater than 10% sediment accumulation
					during the annual facility-wide
					groundwater level measurement event
					will be redeveloped prior to future (i.e.
					2009 and beyond) sampling.
O-7	General		Bis(2-ethylhexyl)Phthalate continues to	Please verify that this is not a laboratory	The following text will be added to
			be detected in various concentrations.	contaminant and add this to the report in	Section 4.2.2.2: There has been no bis(2-
			be detected in various concentrations.	Section 4.2.2.2 and other appropriate	ethylhexyl)phthalate found in the
				areas.	laboratory blanks and/or field
					blanks/rinse samples associated with the
					detected concentrations of bis(2-
					ethylhexyl)phthalate in the
O-8	General - April 2007		The final approval letter from Ohio EPA	Please verify if the potassium RL has	unconsolidated background wells.
0-0	sampling event report		for the April 2007 Sampling Event noted		The following text will be added to
	and CRTs			been met. If not, please include a	Section 4.1 of the Annual Report: Since
	and UK18		that a discussion regarding not meeting	discussion in the annual report and add to	potassium is a naturally occurring
			the potassium RL would be discussed in	Appendix A Table.	inorganic element in environmental
			the annual report. Ohio EPA could not		samples, and has consistently been above
			locate this discussion. Has the lab met		the specified reporting limit (RL) of 200
			the potassium RL?		μ g/L in historical samples at RVAAP, it
					is apparent that the need for this degree
					of sensitivity for potassium is not
					necessary. It is suggested that the RL for
					potassium be raised to 1,000 µg/L.

Page 5 of 8

	· · · · · · · · · · · · · · · · · · ·	 T			Page 6 of 8
		New			
· · ·		Page			
Comment		or			
Number	Page or Sheet	Sheet	Comment	Recommendation	Response
					Pending approval of this change by the
				· · · · · ·	Ohio EPA, potassium has been added to
					the list of RLs that currently do not meet
2				· .	RVAAP QAAAP PQLs in Appendix A of
					the 2007 Annual Report.
0-9	General		Ohio EPA could not locate a table	Please include tables for all current RLs	Tables 3-3 through 3-9 from the QAPP
			identifying all current RLs.	(PQLs for water), including VOCs,	(March 2001) have been added to
				SVOCs, pesticides, PCBs, PAHs,	Appendix A of the 2007 Annual report
				explosives, metals, etc. Please include	showing the current practical quantitation
				the corresponding analysis method.	limits for all constituents.
			·	Please review, revise, and include with	
				each annual report. Please advise Ohio	
	· · · ·			EPA of any changes of the RLs with the	
				corresponding sampling event report.	
0-10	General - Final		The April 2007 sampling report data and	Please specify if there are plans to change	As part of the preparation for the annual
	approval letter from		qualifier B: The lab used the B	and unify the B and J designations for all	report (2007) the last eight quarters of
	Ohio EPA for April		designation for inorganics as an	data prior to April 2007 for the B and J	data (going back to October 2005) were
	2007 sampling event		estimated value and a J designation for	designations. And, if so, please specify	verified to be consistent in the use of J as
			blank contamination. The EQM	the timeline.	estimated and B as blank contamination
			response indicated during the data		qualifiers. The data prior to October
			validation process by EQM, the B		2005 have not as yet been checked. At
			qualifier, as an estimate value for		this time additional review of the
			inorganics, was changed to a J. This		historical data as it relates to qualifiers is
			designation overrode the Contract	· · · · ·	not scheduled.
			Laboratory Program (CLP) B designation		
			when used by the lab as an estimated		
			value for inorganics. Ohio EPA agreed		
			that opposite inorganic and organic		
			designations of B and J were confusing;		
			however, all data prior to April 2007	м. — — — — — — — — — — — — — — — — — — —	
			have opposite designations. Considering		
			the volume of data that will be generated		
			under the FWGWMP, this will be		
			confusing when reviewing old and new		
		<u> </u>	data.		
0-11	General		EQM noted that during past sampling	Please continue to monitor this situation	The following language will be added to

Page 6 of 8

Comment Number	:	New Page or Sheet	Comment	Recommendation	Response
			events some of the monitoring wells were dry and that many of the water levels in other wells had dropped.	and include a summary paragraph in the 2007 annual report, all future annual reports, and each quarterly report regarding this issue.	the 2007 Annual Report: During the July and October monitorin events EQM determined that groundwater levels in some wells had
	:				declined significantly from April levels. EQM initiated an evaluation of conditions, which may have caused this decline. Through reviewing data
					available from the USDA and NOAA it was determined that starting about Jun 1, the RVAAP area was experiencing
					abnormally dry weather conditions. The condition lasted until about August 10. Ohio EPA's Technical Guidance for Ground Water Investigations – Chapte
					(Characterization of Site Hydrogeolog (October 2006) indicates that the fluctuation of groundwater levels are
					affected by groundwater recharge (i.e infiltration to the water table) and evapotranspiration and phreatophytic consumption (i.e., utilization of
					groundwater by plants to sustain grow and health). During an abnormal dry period it can
					expected that the amount of recharge groundwater will be less than "norma and that the amount of plant use will be about the amount of plant use will be
					above "normal" resulting in abnorma (i.e., lower than "normal") groundwa levels. For the purpose of comparison, the
					changes in groundwater elevation in sampled wells were determined for the Spring to Summer sampling events for

				· · · · · · · · · · · · · · · · · · ·	Page 8 of 8
		New			
		Page			
Comment		or	· · ·		
Number	Page or Sheet	Sheet	Comment	Recommendation	Response
			· · ·		levels in wells increased by an average of
					0.79 feet (actual range was up to 2.4
				· · ·	feet). USDA and NOAA records indicate
				· · ·	that the RVAAP area was not
					experiencing abnormally dry conditions
			· · ·		during that time.
			· · ·		In 2007, groundwater levels in wells
					declined an average of 2.94 feet (actual
				· · · ·	range was up to 8 feet). As previously
					indicated USDA and NOAA record
				· · · · · · · · · · · · · · · · · · ·	indicate that the RVAAP area was
					experiencing abnormally dry conditions
					during this time. Thus, EQM concluded
					that the low water levels measured in
					······
					wells in July and October2007 were
					climatically controlled.
					(Note that water levels for the January
					monitoring event were up just under 2-ft.
	· · · · · ·				on average).
0-12	Section 5, annual		Re: protocol for adding and removing	This issue has been resolved with the	Noted.
	recommendations		wells from the FWGWPM	USACE. Beginning with the January	
				2008 sampling event, previously sampled	
				wells (excluding the RCRA wells) with 8-	
		ļ		10 sampling events (including the	
				background wells) will be moved out and	
				wells with less than 4 quarters of	
				sampling will be moved in. Ohio EPA	
				agreed with the USACE proposed well	
	1			sampling sequence as presented in	
				Appendix G of the annual report. The	
l				new wells will be sampled for 4	
				consecutive quarters.	
			RTLS-Envir		· · · · · · · · · · · · · · · · · · ·
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