

APPENDIX O
ORDNANCE AND EXPLOSIVES AVOIDANCE SURVEY REPORT

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FINAL

**UNEXPLODED ORDNANCE AVOIDANCE REPORT
FOR THE
PHASE II REMEDIAL INVESTIGATION
OF
LOAD LINES 2, 3, AND 4
AT THE
RAVENNA ARMY AMMUNITION PLANT,
RAVENNA, OHIO**

October 2001

Prepared for

**U.S. Army Corps of Engineers
Louisville District
Contract No. F44650-99-D-0007
Delivery Order No. CY01**

Prepared by

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Rumson, New Jersey 07760**

and

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FINAL REPORT

**Unexploded Ordnance Support Services
Phase II Remedial Investigation
Load Line 4
Ravenna Army Ammunition Plant
Ravenna, Ohio**

**FINAL REPORT
RAVENNA ARMY AMMUNITION PLANT
LOAD LINE 4
RAVENNA, OHIO**

1.0 INTRODUCTION

1.1 Project Authorization

Explosive Ordnance Technologies Incorporated (EOTI), was contracted by Science Applications International Corporation (SAIC) to provide standard Ordnance Avoidance and Site Safety services for the Load Line 4 Remedial Investigation. The project commenced with mobilization of personnel on July 22nd, 2001. The following report contains a brief description of events and operational procedures used during the project.

The Load Line 4 project was completed as a portion of the larger Remedial Investigation of Load Lines 2,3, and 4. Although mobilization commenced on 22 July, the majority of the UXO support for Load Line 4 was conducted between 8 August and 11 September 2001.

1.2 Objectives

The purpose of the project was to provide Ordnance and Explosive Safety support for SAIC and subcontractors during well drilling and soil sampling efforts. Specifically, the following tasks were to be completed:

1. Provide daily ordnance/explosive safety briefings for all site personnel.
2. Visually verify the extent of surface ordnance and explosive waste.
3. Use magnetometers/gradiometers to verify subsurface soil sample and well drilling locations to be free of anomalies.
4. Prepare final report.

2.0 DAILY OPERATIONS

22 July, 2001 - Wayne Lewallen, EOTI Senior UXO Supervisor and Jeff Kapp, UXO Technician, and Joshua Rich, UXO Technician mobilize to Ravenna, Ohio.

23 July, 2001 - EOTI personnel arrive for Site Safety meeting.

Mr. Kevin Jago (SAIC Project Manager), briefs site history, work assignments and objectives of the Phase II Remedial Investigation for Load Line 2,3, and 4.

Wayne Lewallen (Senior UXO Supervisor) provides a detailed UXO Safety Briefing to include examples of ordnance previously located at Ravenna. All personnel signed the Site Work Plan and Health and Safety log during this meeting.

EOTI personnel depart to commence UXO Avoidance operations with soil sampling and well drilling crews.

Wayne Lewallen and Kevin Jago (SAIC Project Manager) identify preliminary locations for soil sampling and installation of Monitoring Wells.

EOTI team assists with equipment checkout and loading support vehicles.

Team departs Ravenna at 1815.

8 August, 2001 - Arrive at site for 0700 Safety Briefing.

Arrive at LL4 at 1325.

Jeff Kapp assists camera crews with video of sanitary sewers and storm drains.

Team departs Ravenna at 1800.

9 August, 2001 - Arrive at site for 0700 Safety Briefing.

Arrive at LL4 at 0730.

Team continues assisting camera crews with video monitoring of storm drains and sanitary sewers.

Team departs Ravenna at 1730.

11 August, 2001 - Arrive at site for 0700 Safety Briefing.

Team performs most of the work on LL3 throughout the day.

At 1500 Jeff Kapp assists soil sample team with magnetometer checks at the following sediment locations: 177, 185.

Team departs Ravenna at 1800.

12 August, 2001 - Arrive at site for 0800 Safety Brief.

Team performs most of the work at LL3.

The following soil sample locations were checked and declared free of anomalies: 107,

110, and 111.

Team departs Ravenna at 1800.

13 August, 2001 - Arrive at site for 0700 Safety Brief.

Team performs most of the work at LL3.

Team begins magnetometer checks at points for LL4 at the following locations: 105, 108, and 109.

Jeff Kapp assists soil water and sediment crews at LL4.

Team departs Ravenna at 1800.

14 August, 2001 - Arrive at site for 0700 Safety Brief.

Arrive at LL4 at 0730.

UXO team provides magnetometer checks for soil sample crews. The following sample locations were cleared: 104, 106, 115, 116, 123, 124, 136, 137, and 141.

Team also assists with soil water and sediment samples from ponds and point 175.

Team departs Ravenna at 1800.

15 August, 2001 - Arrive at site for 0700 Safety Brief

Arrive at LL4 at 0740

UXO team begins day by assisting with well drilling teams.

UXO team performs magnetometer checks and spot trench sites.

All personnel depart Ravenna at 1300.

End of Cycle.

20 August, 2001 - Arrive at site for 0800 Safety Briefing

Team arrives at LL4 at 0830.

The following sample locations were checked for anomalies: 48, 49, 58, 186, 187, and 188.

Team departs Ravenna at 1800.

21 August, 2001 - Arrive at site for 0700 Safety Briefing

Arrive at LL4 at 0730.

The following soil sample locations checked and declared free of magnetic anomalies: TP4 and TP5.

Team also assists with Geotechnical samples and hole plugging.

All personnel depart Ravenna at 1800.

22 August, 2001 - Arrive at site for 0700 Safety Briefing

Arrive at LL4 at 0730.

Team completes trenching operations and magnetometer checks at the following locations: 93, 94, 95, 96, 97, 98, 100, 101, 103, 108, 167, 168, 169, and 172.

UXO team clears are of balast for backhoe removal.

Team departs Ravenna at 1800.

23 August, 2001 - Arrive at site for 0700 Safety Briefing.

Arrive at LL4 at 0730.

Team completes magnetometer checks for the following locations: 68, 69, 70, 75, 98, 105, and 113.

Jeff Kapp performs magnetometer checks at random sample points.

Team departs Ravenna at 1800.

24 August, 2001 - Arrive at site for 0700 Safety Briefing.

Arrive at LL4 at 0740.

Team completes magnetometer checks at random soil sample points and at point 127.

Team also clears for well drilling operation at MW139.

Team departs Ravenna at 1800.

27 August, 2001 - Arrive at site for 0700 Safety Briefing.

Arrive at LL4 0730.

Team assists with Geotechnical sampling at LL4.

Team departs Ravenna at 1800.

28 August -11 September 2001

All magnetometer checks and well drilling support completed. Jeff Kapp assists with water sampling and clearing paths to check water depths in wells.


3.0 EQUIPMENT

EOTI personnel conducted UXO Survey sweeps with GA52CX Shonstedt Magnetometers for all soil sample locations and approach paths. Monitoring Wells were surveyed with GA52CX Shonstedt Magnetometers and MG230 (downhole) gradiometers.

4.0 SUMMARY

EOTI personnel conducted magnetometer/gradiometer check for all Monitoring Wells and Soil Sample locations. On some occasions sub-surface anomalies were detected in the proposed Monitoring Well or Soil Sample location requiring the selection of another location.

No UXO or hazardous components were identified on the LL4 site. All work was conducted safely with no injuries to personnel.


Wayne Lewallen,
Project Manager, EOTI

EOTI
RAVENNA

JEFF KAPP RECORD



Wilson Jones®

JEFF KAPP RAVENNA

Rulings Available:

- 84101 Record
- 84102 Single Entry Ledger
- 84103 Cash
- 84104 Single Entry Ledger (Large)

144 Pages

EOTI

1 (732) 673-6017 OFFICE

1 (732) 345-8099 WAYNE-CELL ↘

FAX 1 (732) 345-7399 7-7/8 in. x 5-1/4 in.

7399



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MONDAY

07/23/01

OFFICE

80 IN BRIEF

(330)558-1340

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2

TUESDAY 07/24/01		WEDNESDAY 07/25/01	
0715	MORNING SAFETY BRIEF	0700	ARRIVE ON SITE
0725	END BRIEF	0715	MORNING SAFETY BRIEF
0740	DEPART FOR LL4 WITH CONCRETE CORING	0730	DEPART FOR LL2 WITH CONCRETE CORING
0815	SET UP AND CUTTING LL4 ^{SS} 124	0800	SETUP/CUTTING LL2-075
0835	SET UP AND CUTTING LL4-123	0830	SETUP/CUTTING LL2-077
0905	SET UP AND CUTTING LL4-120	0850	SETUP/CUTTING LL2-091
0925	SETUP/CUTTING LL4-119	0910	SETUP/CUTTING LL2-092
1035	SETUP/CUTTING LL4-109	0935	SETUP/CUTTING LL2-174
1055	SETUP/CUTTING LL4-108	1000	SETUP/CUTTING LL2-173
1115	SETUP/CUTTING LL4-079	1020	SETUP/CUTTING LL2-151
1155	LUNCH	1040	SETUP/CUTTING LL2-152
1235	DEPART FOR LL2 WITH CONCRETE CORING	1055	SETUP/CUTTING LL2-153
1330	SETUP/CUTTING LL2-085	1125	RETURN TO OFFICE FUEL AND LUNCH
1400	SETUP/CUTTING LL2-084	1230	DEPART FOR LL-3 WITH CONCRETE CORING
1430	SETUP/CUTTING LL2-123	1245	SETUP/CUTTING LL3-062
1455	SETUP/CUTTING LL2-124	1300	SETUP/CUTTING LL3-061
1525	LL2-124 ENCOUNTERED FOUNDATION WALL MOVED 2 1/2 - 3' CUT NEW HOLE.	1320	SETUP/CUTTING LL3-068
1615	SETUP/CUTTING LL2-137	1335	SETUP/CUTTING LL3-069
1630	SETUP/CUTTING LL2-136	1355	SETUP/CUTTING LL3-094
1645	SETUP/CUTTING LL2-135	1415	SETUP/CUTTING LL3-095
1710	SETUP/CUTTING LL2-070	1515	SETUP/CUTTING LL3- 123 125
1745	RETURN TO OFFICE	1530	SETUP/CUTTING " " LL3-124
1815	SECURE FOR DAY	1550	SETUP/CUTTING ^{BAR HOLE} _{CUT NEW ONE} LL3- 123 123
		1650	SETUP/CUTTING LL3-107
		1700	SETUP/CUTTING LL3-108
		1720	SETUP/CUTTING LL3-109
		1800	RETURN TO OFFICE
		1805	SECURE FOR DAY

THURSDAY 07/26/01

0700 ARRIVE ON SITE
 0715 MORNING SAFETY BRIEF
 0730 DEPART WITH WAYNE
 0800 CHECK AND CLEAR WP LL4-194
 0835 WITH SOIL SAMPLE TEAM (JIMMY) SS LL2-100
 0945 RETURN TO OFFICE WITH SAMPLES
 0950 DEPART TO LL2
 1005 CHECK + CLEAR LL2-132
 1050 CHECK + CLEAR LL2-141
 1150 CHECK + CLEAR LL2-140
 1235 RETURN TO OFFICE - LUNCH
 1335 DEPART FOR LL2
 1345 CHECK + CLEAR LL2-126
 1500 REPORTED TO KEVIN AT DR10 TO LOCATE MAIN HOSE
 1515 BACK WITH SOIL SAMPLE CHECK + CLEAR LL2-131
 1530 CHECK + CLEAR LL2-128
 1600 CHECK + CLEAR LL2-127
 1655 CHECK + CLEAR LL2-139
 1755 RETURN TO OFFICE
 1800 SECURE FOR DAY

FRIDAY 07/27/01

0700 ARRIVE ON SITE
 0720 MORNING SAFETY BRIEF
 0755 DEPART FOR LL2 WITH SS TEAM (JIMMY)
 0805 CHECK + CLEAR LL2-129
 0905 CHECK + CLEAR LL2-130
 0950 MEET WITH BACK HOE
 1000 CLEARING BALAST FROM LL2-213/214/215/216/217
 1115 CHECK + CLEAR LL2-112
 1155 RETURN TO OFFICE
 1205 CLEAN UP
 1210 LUNCH
 1315 DASH WASH
 1335 DEPART FOR LL2
 1355 CHECK + CLEAR LL2-108
 1430 CHECK + CLEAR LL2-217
 1445 CHECK + CLEAR LL2-216
 1515 CHECK + CLEAR LL2-215
 1550 CHECK + CLEAR LL2-214
 1640 CHECK + CLEAR LL2-213
 1740 RETURN TO OFFICE
 1800 SECURE FOR DAY

SATURDAY

07/28/01

0700 ARRIVE ON SITE
 0720 MORNING SAFETY BRIEF
 0730 DEPART FOR LL2 TO CHECK + CLEAR WP'S
 0800 ON SITE WITH SS TEAM (JEMMY)
 0815 CHECK + CLEAR LL2 - 144
 0900 CHECK + CLEAR LL2 - 143
 0930 CHECK + CLEAR LL2 - 142
 1020 CHECK + CLEAR LL2 - 134
 1100 CHECK + CLEAR LL2 - 133
 1155 RETURN TO OFFICE
 1200 CLEAN UP / LUNCH
 1305 DEPART TO LL2
 1330 RETAKING SAMPLES AT LL2 - 132
 1515 RETAKING SAMPLES AT LL2 - 128
 1545 WAVING DEPARTS
 1600 RETAKING SAMPLES AT LL2 - 130
 1630 CHECKING ON DRILL REGS
 1715 BACK WITH SOIL SAMPLE TEAM
 1745 RETURN TO OFFICE
 1800 SECURE FOR DAY

SUNDAY

07/29/01

0800 ARRIVE ON SITE CHECK JOHN IN
 0820 MORNING SAFETY BRIEF
 0855 DEPART FOR LL2
 0900 PREP. MW LL2 MW - 263 WITH JOSH
 0925 PREP LL2 MW - 267 WITH JOSH
 1000 DROP JOSH OFF WITH SOIL SAMPLE (MAT)
 1020 WITH SOIL SAMPLE TEAM (JEMMY)
 1025 RETAKING SAMPLES LL2 - 133
 1115 RETAKING SAMPLES LL2 - 134
 1220 RETURN TO OFFICE - LUNCH
 1358 DEPART FOR LL2 WITH TEAM JEMMY
 1420 TAKING WATER SAMPLES LL2 - 226
 1630 RETURN TO OFFICE / PAPER WORK
 1730 SECURE FOR DAY

MONDAY 07/30/01

0700 ARRIVE ON SITE
 0725 MORNING SAFETY BRIEF
 0755 DEPART FOR LL2 WITH JOHN
 0805 CHECK SECOND LOCATION AT LL2-268
 0845 COLLECTING SW/SED LL2-226
 0950 COLLECTING SW/SED LL2-227
 1100 COLLECTING SW/SED LL2-228
 1220 RETURN TO OFFICE / LUNCH
 1330 DEPART FOR LL2 WITH TEAM JIMMY
 1345 COLLECTING SW/SED LL2-229 (PICTURES)
 1445 COLLECTING SW/SED LL2-230 (PICTURES)
 1600 RETURN TO OFFICE
 1645 DEPART FOR LL3 - TROOP CHECK
 1730 CHECKED SECOND HOLE FOR LL2-263
 1755 RETURN TO OFFICE
 1800 SECURE FOR DAY

TUESDAY 07/31/01

0700 ARRIVE ON SITE
 0720 MORNING MEETING
 0730 DEPART FOR LL2 WITH JOHN
 0745 CHECK + CLEAR LL2 MW-262
 0815 CHECK + CLEAR LL2 MW-266
 0845 CHECK + CLEAR LL2 MW-267 *
 0910 CHECK + CLEAR LL2-270 *
 1080 DROPPED JOHN OFF WITH SS TEAM JIMMY
 1100 RETURN TO OFFICE
 1105 DEPART FOR LL2 WITH BRAD
 1135 RETURN TO OFFICE
 1145 CALL WAYNE
 1200 LUNCH
 1300 DEPART FOR LL2 + 3
 1330 WITH SOIL SAMPLE "A" TEAM
 1340 CHECK + CLEAR LL2-295
 1400 CHECK + CLEAR LL2-296
 1430 CHECK + CLEAR LL2-297
 1510 CHECK ON DRILL RIGS
 1545 TROOP CHECK
 1620 RETURN TO OFFICE - DISHES
 1800 SECURE FOR DAY

WEDNESDAY 08/01/01

0700 ARRIVE ON SITE

0715 MORNING SAFETY MEETING

0745 DEPART FOR LL2 WITH TEAM JIMMY

0800 CHECK + CLEAR LL2-066

0825 CHECK LL2-094 SUSPICIOUS ROCK

0905 RETURN TO OFFICE TO TALK TO JIM + BRAD

0945 MEET JIM + BRAD AT LL2-094

1030 MEET TEAM JIMMY AT LL2-086

1210 RETURN TO OFFICE

1300 SECURE FOR WEEKEND

END 1ST CYCLE

MONDAY 08/06/01

0800 ARRIVE ON SITE

0820 MORNING SAFETY MEETING

0840 DEPART FOR LL3 WITH JOSH

0900 CHECK CLEAR + ANGER LL3 MW-236

0930 RETURN TO OFFICE

0945 DEPART FOR LL2 DRILL CREW LL2 MW-266

1015 RETURN TO OFFICE

1030 DEPART FOR LL3

1100 MEET UP WITH LEW

1105 DEPART FOR LL2

1115 MEET WITH SOIL SAMPLE TEAM JIMMY

1130 DEPART FOR LL3

1200 CHECK + CLEAR LL3-208

1235 RETURN TO OFFICE / LUNCH

1305 DEPART FOR LL2 WITH ROBOT GUYS

1315 CHECK + CLEAR DB-21

1355 CHECK + CLEAR DB-20

1420 CHECK + CLEAR DB-11

1440 " " DB-12

1455 " " DB-11 (PICTURES)

1525 " " MH-310

1540 " " IN-C4

1555 " " MH-307

1615 " " IN DA 12

1700 " " DA-20

1800 RETURN TO OFFICE

1830 SECURE FOR DAY

0-17

TUESDAY

08/07/01

0700 ARRIVE ON SITE
0715 MORNING SAFETY MEETING
0745 DEPART FOR LL2 WITH ROBOT GUYS
0800 CHECKING SEWERS AT LL2
1030 MAJOR CAMERA PROBLEMS
1150 BACK AT OFFICE
1320 DEPART FOR LL3 WITH TEAM JIMMY
1330 COLLECTING SURFACE WATER + SEDIMENT SAMPLES
1735 RETURN TO OFFICE
1800 SECURE FOR DAY

WEDNESDAY

08/08/01

0700 ARRIVE ON SITE
0710 MORNING SAFETY BRIEF
0725 DEPART FOR LL2 WITH CAMERA GUYS
0735 TAKING VIDEO OF STORM DRAINS LL3
0920 TAKING VIDEO OF SANITARY SEWERS LL3
1215 RETURN TO OFFICE - LUNCH
1325 DEPART FOR LL-4 WITH CAMERA GUYS
1340 TAKING VIDEO OF SANITARY SEWERS LL4
1520 TAKING VIDEO OF STORM DRAINS LL4
1625 RETURN TO OFFICE CAMERA BROKE
1630 MARTHA RECALLS ALL TEAMS
1800 SECURE FOR THE DAY

THURSDAY	08/09/01	FRIDAY	08/10/01
0700	ARRIVE ON SITE	0700	ARRIVE ON SITE
0720	MORNING SAFETY BRIEF	0715	MORNING SAFETY MEETING
0735	DEPART FOR LL4 WITH CAMERA GUYS	0745	DEPART FOR LL3 WITH SOIL SAMPLE TEAM JIMMY
0750	TAKING VIDEO IN STORM DRAINS LL4	0800	CHECK + CLEAR RANDOM POINT LL3-181
1115	RETURN TO OFFICE / LUNCH	0830	CHECK + CLEAR RANDOM POINT LL3-180
1155	DEPART FOR LL2 WITH CAMERA GUYS	0900	CHECK + CLEAR RANDOM POINT LL3-179
1215	TAKING VIDEO ON LL2	0940	CHECK + CLEAR RANDOM POINT LL3-173
1255	DEPART FOR LL3 WITH CAMERA GUYS	1015	CHECK + CLEAR RANDOM POINT LL3-178
1300	TAKING VIDEO ON LL3	1105	CHECK + CLEAR RANDOM POINT LL3-182
1410	DEPART FOR LL4 WITH CAMERA GUYS	1135	CHECK + CLEAR RANDOM POINT LL3-176
1425	TAKING VIDEO ON LL4	1215	RETURN TO OFFICE CLEAN UP / LUNCH
1555	RETURN TO OFFICE	1330	DEPART FOR LL3 WITH SOIL SAMPLE TEAM JIMMY
1600	DEPART FOR LL3	1345	CHECK + CLEAR RANDOM POINT LL3-177
1610	WITH SOIL SAMPLE TEAM JIMMY	1415	CHECK + CLEAR RANDOM POINT LL3-183
1645	CALLED TO RETURN TO OFFICE DUE TO WEATHER	1510	" " " " LL3-171
1700	RETURNED TO OFFICE	1535	" " " " LL3-170
1730	SECURED FOR DAY DUE TO WEATHER	1605	" " " " LL3-169
		1635	" " " " LL3-168
		1710	RETURN TO OFFICE
		1800	SECURED FOR DAY

SATURDAY	08/11/01	SUNDAY	08/12/01
0700	ARRIVE ON SITE	0800	ARRIVE ON SITE
0715	MORNING SAFETY BRIEF	0810	MORNING SAFETY BRIEF
0740	CHECK + CLEAR LL3-139	0820	DAVE GETTING IN BRIEF
0815	CHECK + CLEAR LL3-140	0850	TAKE DAVE ON TOUR OF LL3 + LL9
0845	" " LL3-078	0930	DROP DAVE WITH SOIL SAMPLE TEAM
0910	" " LL3-101	0945	WITH DRILL RIG FOR LL3MW-233
1015	" " LL3-091	1150	RETURN TO OFFICE / LUNCH
1050	" " LL3-092	1255	DEPART FOR LL3 WITH DRILL RIG (TODD + MOLLY)
1120	" " LL3-174	1315	CHECK + CLEAR LL3MW-232
1145	" " LL3-067	1430	LL9 WITH TEAM JIMMY
1215	RETURN TO OFFICE LUNCH	1710	RETURN TO OFFICE
1330	DEPART FOR LL-2 DRILL RIG PICTURES	1755	SECURE FOR DAY
1500	CHECK + CLEAR SEATMENT ADJUT LL4-185		
1555	CHECK + CLEAR SW/SED LLA-177		
1745	RETURN TO OFFICE		
1800	SECURE FOR DAY		

0-20

MONDAY

08/13/01

0700

ARRIVE ON SITE

0710

MORNING SAFETY BRIEF

0720

DEPART FOR LL3 WITH TEAM JIMMY

0745

CHECK + CLEAR LL3 - 163 + 164

0810

DEPART FOR LL4

0820

COLLECTING SW/SED LL4 WITH TEAM JIMMY

1225

RETURN TO OFFICE / LUNCH

1330

DEPART FOR LL4

1400

COLLECTING SW/SED LL4 WITH TEAM JIMMY

1745

RETURN TO OFFICE

1800

SECURE FOR DAY

TUESDAY

08/14/01

0700

ARRIVE ON SITE

0720

MORNING SAFETY MEETING

0740

DEPART FOR LL4 WITH TEAM JIMMY

0800

COLLECTING WATER FROM ^{LL4} POND

1100

COLLECTING SW/SED

1145

COLLECTING SW AT LL4-175

1230

RETURN TO OFFICE LUNCH

1330

DEPART FOR LL4 WITH TEAM JIMMY

1400

COLLECTING SED SAMPLES LL4 POND

1730

RETURN TO OFFICE

1800

SECURE FOR DAY

WEDNESDAY 08/15/01

0700 ARRIVE ON SITE
0715 MORNING SAFETY BRIEF
0915 TEAM LEADERS MEETING
0945 DEPART FOR LL2
1000 SPOTTING TRENCH SITES
1200 RETURN TO OFFICE
1300 SECURE FOR DAY

END OF CYCLE

MONDAY 08/20/01

0800 ARRIVE ON SITE
0815 MORNING SAFETY BRIEF
0915 GAVE WELCOME BRIEF TO 2 NEW JOBS
0945 DEPART FOR LL2
1000 CHECK + CLEAR LL2-218 TEST PIT 1 (TRENCH)
1225 RETURN TO OFFICE LUNCH
1325 DEPART FOR LL2 WITH TRENCH CREW
1335 CHECK + CLEAR LL2-220 TP 3
1425 CHECK + CLEAR LL2-219 TP 2
1500 CHECK + CLEAR LL2-221 TP 4
1535 CHECK + CLEAR LL2-222 TP 5
1605 CHECK + CLEAR LL2-223 TP 6
1715 TRENCHING OPS ON LL2 COMPLETE
1740 RETURN TO OFFICE
1800 SECURE FOR DAY

TUESDAY

08 / 21 / 01

0700 ARRIVE ON SITE
 0720 MORNING SAFETY BRIEF
 0730 DEPART FOR LL3 TRENCH OPS
 0840 CHECK + CLEAR LL3-202 TP3
 0810 CHECK + CLEAR LL3-203 TP4
 0900 CHECK + CLEAR LL3-204 TP5
 0955 CHECK + CLEAR LL3-200 TP1 RELOCATED
 1055 CHECK + CLEAR LL3-205 TP6
 1210 RETURN TO OFFICE LUNCH
 1310 DEPART FOR LL3
 1325 CHECK + CLEAR LL3-201 TP2 RELOCATED
 1410 TRENCH OPS COMPLETE LL3 DEPART FOR LL4
 1515 CHECK + CLEAR LL4-170 TP1
 1630 CHECK + CLEAR LL4-171 TP5
 1730 RETURN TO OFFICE
 1800 SECURE FOR DAY

WEDNESDAY

08 / 22 / 01

0700 ARRIVE ON SITE
 0715 MORNING SAFETY BRIEF
 0730 DEPART FOR LL4 TRENCH OPS
 0740 CHECK + CLEAR LL4-172 TP6
 0900 CHECK + CLEAR LL4-167 TP1 RELOCATED
 1000 CHECK + CLEAR LL4-168 TP2
 1120 CHECK + CLEAR LL4-169 TP3
 1215 COMPLETE TRENCH OPS LL4
 1230 RETURN TO OFFICE / LUNCH
 1335 DEPART FOR LL4 WITH BRAD
 1345 BACKHOE CLEARING BALAST
 1530 CHECKING WITH ALL TEAMS
 1730 RETURN TO OFFICE
 1800 SECURE FOR DAY

0-23

THURSDAY

08/23/01

0700 ARRIVE ON SITE
0715 MORNING SAFETY BRIEF
0730 DEPART FOR LL4 WITH SOIL SAMPLE TEAM
0745 CHECK + CLEAR RANDOM POINTS
1200 RETURN TO OFFICE / LUNCH
1335 DEPART FOR LL4 WITH SS TEAM JIMMY
1345 CHECK + CLEAR RANDOM POINTS
1630 RETURN TO OFFICE
1730 SECURE FOR DAY

FRIDAY

08/24/01

0700 ARRIVE ON SITE
0720 MORNING SAFETY BRIEF
0740 DEPART FOR LL4 WITH SS TEAM JIMMY
0800 CHECK + CLEAR RANDOM POINTS
1045 JIMMY GETS VAN STUCK HARD!
1150 TOLTEST GETS VAN UNSTUCK WITH BACKHOE!
1200 RETURN TO OFFICE / ~~OFFICE~~ LUNCH
1330 DEPART FOR LL4 WITH SS TEAM
1345 CHECK + CLEAR RANDOM POINTS
1700 RETURN TO OFFICE
1800 SECURE FOR DAY

SATURDAY

08/25/01

0700 ARRIVE ON SITE
0720 MORNING SAFETY BRIEF
0830 DEPART FOR LLS CALL FROM MEG.
1000 CHECKING WITH ALL TEAMS
1200 RETURN TO OFFICE LUNCH
1330 MOVING BETWEEN ALL TEAMS
1730 RETURN TO OFFICE
1800 SECURE FOR DAY

08/26/01

SUNDAY

0800 ARRIVE ON SITE
0815 MORNING SAFETY BRIEF
0845 DEPART WITH SUSAN + JEN FOR WELL INSPECTION
1200 RETURN TO OFFICE LUNCH
1310 DEPART WITH SUSAN + JEN FOR WELL INSPECTION
1710 RETURN TO OFFICE
1800 SECURE FOR DAY

MONDAY

08/27/01

0700 ARRIVE ON SITE
0720 MORNING SAFETY BRIEF
0800 DEPART WITH KATIE CONTINUE WELL INSPECTION
1155 RETURN TO OFFICE LUNCH
1320 DEPART FOR MORE SITE WIDE WELL INSPECTION
1720 RETURN TO OFFICE
1800 SECURE FOR DAY

TUESDAY

08/28/01

0700 ARRIVE ON SITE
0725 MORNING SAFETY BRIEF
0800 SITE WIDE WELL DEPTH CHECK
1205 RETURN TO OFFICE
1320 CONTINUE WELL DEPTH CHECKS
1430 RETURN TO OFFICE CLEANUP
1800 SECURE FOR DAY

END OF CYCLE

WEDNESDAY 08/29/01

0700 ARRIVE AT SUPER 8

0705 DEPART FOR CLEVELAND AIRPORT W/DAVE

0810 DROP DAVE AT AIRPORT,

0920 RETURN TO HOME

TUESDAY 09/04/01

0800 ARRIVE ON SITE

0820 MARTHA ARRIVES ON SITE

0900 GIVE BRIEF TO TWO PEOPLE FROM DLZ

1520 DEPART FOR LL4 WITH BEA + MARTHA

1845 RETURN TO OFFICE CLEAN UP

1900 SECURE FOR DAY

AIRPORT RUN

WEDNESDAY 09/05/01

0700 ARRIVE ON SITE
0710 MORNING SAFETY BRIEF
0800 DEPART FOR LL4 WITH 2 WATER SAMPLE TEAMS
1155 RETURN TO OFFICE LUNCH
1310 DEPART FOR LL4 WITH WS TEAMS
1810 RETURN TO OFFICE CLEAN UP
1900 SECURE FOR DAY

THURSDAY 09/06/01

0700 ARRIVE ON SITE
0730 MORNING SAFETY MEETING
0815 DEPART FOR LL4 WITH WS TEAMS
1210 RETURN TO OFFICE LUNCH
1345 DEPART FOR LL4 WITH WS TEAMS
1735 RETURN TO OFFICE
1800 SECURE FOR DAY

FRIDAY

09/07/01

0700

ARRIVE ON SITE

0730

MORNING SAFETY BRIEF

0815

TEAMS DEPART FOR LL4

1200

LUNCH

1745

TEAMS RETURN

1800

SECURE FOR DAY WEEKEND

MONDAY

09/10/01

0800

ARRIVE ON SITE

0845

MORNING SAFETY BRIEF

0930

TEAMS DEPART FOR LL2

1045

DEPART FOR LL2

1215

RETURN TO OFFICE LUNCH

1345

DEPART FOR LL2

1710

RETURN TO OFFICE

1825

LAST TEAM RETURNS

1900

SECURE FOR DAY

Tuesday

09 / 11 / 01

0700

ARRIVE ON SITE

0720

MORNING SAFETY BRIEF

0830

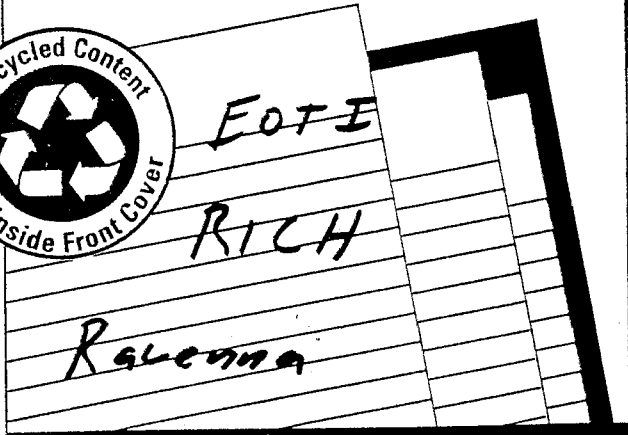
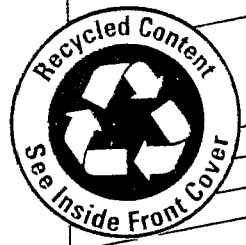
TEAMS DEPART FOR LL2

0915

CALL "LEW" NOT IN OFFICE CELL BUSY

Record 144
Ruled Pages

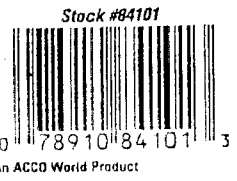
Wilson Jones



RECORD BOOK

Keep home and
business information
organized

ACCO Brands, Inc.
300 Tower Parkway
Lincolnshire, IL 60069-3640



An ACCO World Product

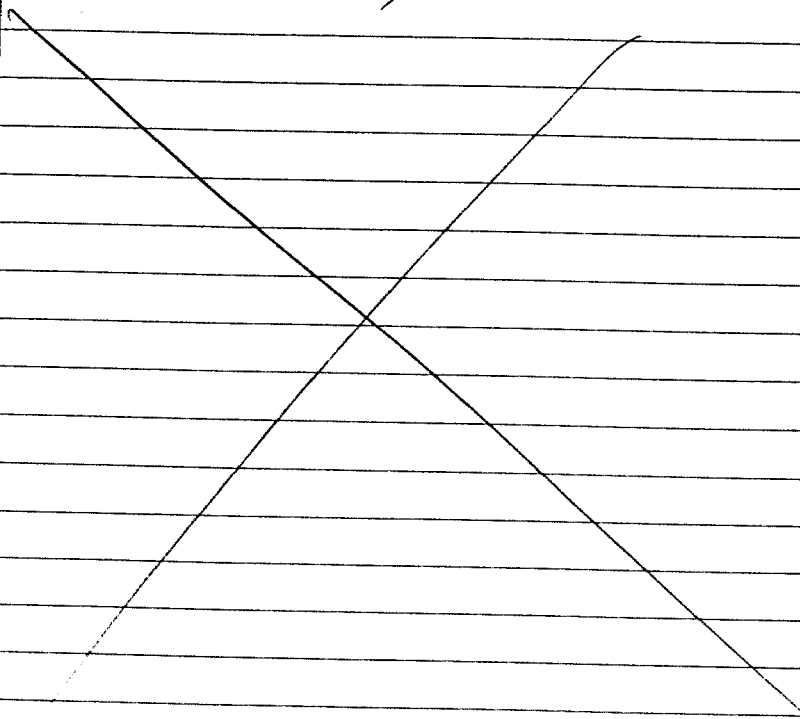
RECORD

Monday July 23

0800 - safety brief

1330 - started laying out points
LL 4

1815 End of Day



Tuesday July 24

0700 - Safety Brief

0730 - LL2 Pt. 265 held open to
4" "Clear"

0800 - LL2 started marking points

1200 - Break for lunch

1300 - End lunch

1310 - Started drilling #200

1545 - Well 200 drilled waiting to
cap.

1645 - Grouted well

1715 - Sorted and delivered samples

1730 - placed tarp over roll away.

1800 - End of Day

Wednesday July 25

0700 - Safety Brief

0730 - Auger - LL4 test holes
196, 197, 199

0830 - LL2 help soil sample
team, #103, 106, 107, 105

1200 - Lunch

1300 - cleared test wells 185, 193

1430 - LL2 help soil sample team
80, 81, 83, 84, 85, 82

1615 - return for cleanup

1800 - End of Day

Thursday July 26

0700 - Safety Brief

0730 - LL2 work with sample
area. Pt. 86

0810 - ~~clear~~ LL2, clear pts,
87, 93, 98, 99

1145 - LL2 work w/ sample area
pts ~~87~~, 87, 88, 89, 90, 91, 92, 93

1200 - break for lunch

1300 - LL2 work w/ sample area, pt. 98

1500 - LL4 clear wall site for drill area

1530 - LL2 work w/ sample area, pts
95, 99, 173, ~~173~~, 174

1715 - finished sampling ~~and~~ return to
main building for cleanup and decon.

1800 - End of Day

Friday July 27

0700 - safety brief

0730 - clear pts. for sample tests +
clear wells for ballends of wayne.

0830 - work w/ sample team pts, # 148, 149
151, 152, 153, 158, 159, 150

1200 - Lunch

1200 - clear pts for sample tests

1400 - work w/ sample team pts, #
145, 146, 147, 154, 155, 156, 157

1730 - Noon / cleanup

1800 - End of Day

Saturday July 28

0700 - Safety brief

0730 - clear well pts LL2
pts 264, 268, (220?)

0830 - work with sample team

pts, 110, 186, 187, 189, 86,
149

1200 - Lunch

1300 - work w/ sample team pts DB802,
DB20, DB12, DB8, DB11
DB6, DB7, DA18

1730 - cleanup / Pnoon

1800 - End of Day

Sunday July 29

0800 - Safety Brief

0830 - clear well pts 263, 267

1000 - work w/ sample cans pts

DA 12, pt 235, 244

1230 - Lunch

1300 - work w/ sample tech pts 248

046, 238, 231, 232

1700 - End of Day

Monday July 30

0700 - Safety Brief

0730 - work ~~in~~ w/ sample

team pts 86, 87, 71, 133, 162

1130 - Cleanup / Decon

1200 - Lunch

1300 work w/ sample team pts, 94,

210, 209, 206, 207, 208

205

1730 - cleanup / Decon

1800 - end of Day

Tuesday July 31

0700 - safety brief

0730 - work w/ sample team pts,
057, 058, 061, 062, 063

1200 - Lunch

1300 - work w/ sample team pts, 59, 60,
67, 68, 69, 64,

1:730 - cleanup / Decon

1800 - End of Day

Wednesday Aug 01

0700 - Safety brief

0730 - work w/ sample tears
points 122, 123, 124, 125

1100 - cleanup/Decon

1700 - End of Day

Monday August 06

0800 - safety brief

0830 - clear well pt, 266, LL3

0900 - give Wayne royal tour of
LL3

1000 - LL3 work w/ sample techs
pts, 86, 88

1230 - Lunch

1300 LL3 work w/ sample techs

pts, 87, 89, 93, 83, 85

1730 - cleanup / Decon

1830 End of Day

Tuesday August 07

0700 - Safety Brief

0730 - clear well pt. 267-LL3

0845 - Work w/ sample team

LL3 pts 92, 97, 98, 99, 100

1200 - Lunch

1300 - Work w/ sample teams LL3- pts,

112, 113, 102, 103, 107, 108

1715 - Cleanup / Decon

1800 - End of Day

Wednesday August 08

0700 - Safety Brief

0730 - clear well pts. 135, 140 LL3

0830 - work w/ sample team LL3

pts. 104, 114, 105, 115, 106

1200 - Lunch

1300 - work w/ sample team LL3

pts. 116, 111, 71

1700 - cleanup / Decon

1800 - End of Day

Thursday August 09

0700 - safety brief

0730 - work w/ sample team LL3 - Pts.

102, ~~103~~, 72, 73, 74, 75, 76

1200 - ~~lunch~~ Lunch

1300 - clear well pts. LL3 - 243,

242, ~~243~~, 241 / LL2 - 261 /

LL3 - 232 refusal 1' needs

to be checked while drilling /

LL3 - 233 refusal 1' needs to be

checked while drilling /

LL3 - 234 clear

1705 - Cleanup / Decon

1800 - End of Day

Friday August 10

0700 - safety brief

0730 - work w/ sample team LL3 - P45,
82, 137, 138, 80, 136,

1200 - Lunch

1300 - clear soil sample pts 79, 132, 133
134, 135 - LL3

1345 - work w/ bucket clearing
ballast.

1420 - work w/ sample team LL3 - pts
079, 132, 135

1715 - cleanup / Decon

1800 - End of Day

Sat August 11

0700 - safety brief

0730 - work w/ sample teams LL3 - p/r
111,

1200 - Lunch

1300 - work with sample teams LL3 - p/s,
194, 196, 197, 198, 199

1715 - Cleanup / Decon

1800 - End of Day

Sunday Aug 12

0800 - safety brief

0800 - work w/ scaffold team LL3 - pts.

111, ~~109~~, 132, 135, 136

11:30 - lunch

1230 - work w/ scaffold team LL3 - pts 98,

80, 137, ~~107, 108~~ LL4 - pts

110, 111, 107

1645 - Cleanup/Decon

1900 - End of Day

Monday August 13

0700 - Safety Brief

0730 - Work w/ sample team

LL3 - pts 153, 158, 157, 159,
160, 161

1215 - Lunch

1315 - Work w/ sample team LL3 - pts -
152, 154

1545 - Work w/ sample team

LL4 - pts 108, 109, 105

1715 - Cleanup/Decon

1800 - End of Day

Tuesday August 14

0700 - Safety brief

0730 - ~~the~~ work w/ sample tests
LL4 - pts, 106, 104, 137, 141
136.

1215 - Lunch

1315 - work w/ sample tests
LL4 - pts, 116, 115, 123, 124

1700 - Cleanup/Decon

1900 - End of Day

Wednesday August 15

0700 - safety brief

0730 - Look ~~up~~ in support of drilling
activities,

1300 - cleanup / Recen

1320 End of Day

Monday August 20

0800 - Safety Dist

0830 - work w/ sample team

CLY-PT 186, 48, 49

1200 - Lunch

1300 - work w/ sample team CLY-PT

58, 188, 187

1510 - work w/ sample team LL-2

1745 - cleanup / Decon

1900 - End of Day

Tuesday August 21

0700 - safety brief

0730 - work w/ sample team / plug and
geotech samples

1200 - lunch

1300 - work w/ sample team / plug and
geotech samples

1730 - cleanup / Decon

1900 - end of day

Wednesday August 22

0700 - Safety brief

0730 - Work w/ sample team LL4-pts,
97, 98, 94, 93, 95

1200 - Lunch

1300 - Work w/ sample team LL4-pts,
100, 101, 102, 103, 96

1700 - check / Dean

1800 - End of Day

Thursday August 23

0700 - safety brief

0730 - work w/ sample team LL4 - pts.

68, 69, 70, ~~95~~, 98, 105

1200 - Lunch

1300 - work w/ sample team LL4 - pts.

113, ~~74~~, 75,

1700 - cleanup / clean

1800 - End of Day

Friday August 24

0700 - safety brief

0730 - work up sample team

LL4 - pts. 127

LL3 - pts. 229, 226, 227, 230, 231

1200 - lunch

1300 - worked with well logging techs

CL4-139

1730 - cleanup/Decon

1800 - End of Day

Saturday August 25

0700 - safety brief

0730 - work w/ well sampling team
LL3

1200 - lunch

1300 - work w/ well sampling team
LL3

1700 - cleanup / Decon

1800 - End of Day

Sunday August 26

0800 - safety brief

0830 - work w/ sample team / bootath samples
LL2 and LL3

1715 - Cleanup / Run

1800 - End of Day

Monday August 27

0700 - safety brief

0730 - Work with sample team / Gostello
samples UY

1200 - Lunch

1300 - Work w/ sample team / site wide
well sampling.

1730 - cleanup / power

1800 - End of Day

Tuesday August 28

0700 - safety brief

0730 - work with scarp, trees, site wide
well sampling.

1600 - cleanup / Recon

1700 - End of Day / End of Job!!!

